Data Warehouse

User Handbook

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1 Introduction

1.1 Purpose of the document

The Data Warehouse (DWH) User Handbook, hereinafter referred to as UHB, aims to facilitate the use of the Data Warehouse Graphical User Interface. It is addressed to all DWH users, regardless of the parties and describes the full range of functionalities available in user-to-application (U2A) mode. The UHB provides detailed reference information on all GUI functionalities and step-by-step descriptions. Thus the DWH UHB provides helpful information on the use of the DWH GUI.

There is only one handbook for DWH addressing all actors: Central Banks (CB), Payment Banks (PB) and Ancillary Systems (AS). Specific chapters for CB users with advanced user's profile (see chapter Overview [▸ 39]) are marked with the annex "for advanced user" in the title of the chapter. All other chapters are relevant for each reader.

The UHB is part of the functional documentation and complements the DWH UDFS, which can be found on the ECB's website.

Updated versions of the UHB will be provided on a regular basis.

1.1.1 UHB Methodology

To ease orientation and help you to find your desired information quickly several symbols and methodological elements are used throughout the DWH UHB.

Page

Every page of the UHB has a similar page layout. You can find the following elements:

- The header, which shows the chapter and the sub-chapter title,
- The text, which contains the main information, tables and screenshots
- The footer, which shows page number and the amount of pages of the document

Links

Links are illustrated throughout the UHB with a little triangle followed by a page number within squared brackets. These links help you to jump to related sections by clicking on them or turning to the relevant page.

Example:

[▸ 209]

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Tables

Tables are used to present information in a clearly arranged format. They consist of a table head and a table body. The body is divided into a left and a right column. The left column contains keywords, for example field names, which are explained in the right column. Subsections within a table are preceded by a heading. The order of the description follows the appearance on the screens from left to right and from top to bottom.

Action steps

Step-by-step descriptions are divided into single action steps. These steps are numbered sequentially. Intermediate results are described where appropriate.

Screenshots

Screenshots are used to illustrate the corresponding text. Note that there might be minor deviations be-tween the screenshot and your screen appearance, according to your access rights or a specific selection you have made. In addition, some functions are mutually exclusive and cannot be represented in a single screenshot. In these cases, the screenshot illustrates the more relevant use of the screen.

Values shown on a screenshot might also deviate from the default values indicated in the description. In these cases, the description is valid rather than the screenshot.

1.1.2 UHB Structure

The UHB is divided in eight chapters:

Chapter 1

The chapter **Introduction** explains the aim, the content and the approach of both the UHB and the DWH GUI. While the first section explains how to use the UHB, the second section focuses on technical requirements.

Chapter 2

The chapter **Introduction to the Data Warehouse** provides background information about the Data Warehouse itself and also about the software tool used as GUI.

Chapter 3

The chapter **First steps & basics** provides the reader with basic elements and the structure of the DWH GUI.

Chapter 4

The chapter **Working with reports** explains the reader how to

- copy and save a report (see chapter Copy, save and export [▶ 83])

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- run a report (see chapter Running reports [▶ 95])
- schedule a report (see chapter Scheduling reports [▶ 116])

Chapter 5

The chapter **Predefined reports** provides the reader with information about all predefined reports.

Chapter 6

The chapter **Understanding user rights and access rights** is only applicable for advanced users and explains on one hand the functional security and on the other hand the data security in DWH.

Chapter 7

The chapter **Creating reports** is only applicable for advanced users and provides information how to build a user defined report from scratch and how to adapt a predefined report.

Chapter 8

The chapter **DWH data objects** lists all data objects available in the DWH GUI.

1.2 Set-up and Login

1.2.1 GUI Access

Users are directed to an initial page named ESMIG portal that ensures proper routing to the web applications the user has been granted to enter. Refer to the Connectivity Guide specified in the ESMIG UDFS document, current version available, for details on the communication network and services.

1.2.2 Technical Requirements

Before entering the GUI, make sure to implement all necessary preparations described below.

Such preparations may be subject to periodical review/update to comply with changing technical/regulatory scenarios.

Please refer to the “ESMIG U2A Qualified Configurations” annex of ESMIG UDFS.

The required minimum screen resolution is 1366 x 768 pixel. Screen resolutions below this requirement are not supported and can lead to a deviating appearance and functionality of the GUI.

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Even if the screen resolution fulfils the requirement defined above, it is important to note that scaling options provided by the operating system and the browser (e.g. 125% or 150%) may cause a deviating appearance and functionality of the GUI. If this is the case, the usage of scaling options is not supported.

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2 Introduction to the Data Warehouse

2.1 Overview

The aim of the DWH is to store and compile information coming from T2 (Real-Time Gross Settlement (RTGS) and Central Liquidity Management (CLM)), TARGET2- Securities (T2S) and common components i.e. Common Reference Data Management (CRDM), Billing (BILL), Contingency Services (ECONS II) and Business Day Management (BDM) in a homogenous manner at business level. As in T2 only data from the current business day are available, based on a reliable and secure database, the DWH offers the possibility of accessing the past data accumulated for further data analysis.

The DWH provides access to data in U2A mode and permits access to data within the databases. It gives a business-oriented view of the collected data without any detailed technical database terminology. Therefore, no knowledge about the database structure of T2 or T2S is required. It provides information through reports as predefined reports (for all user profiles) and user defined reports (only applicable for CB users with advanced user profile).

The DWH consolidates the content of the sources into a single database for reporting purposes and offers pre-defined reports to the users of the following T2 and T2S parties:

- Central Banks (CB),
- Central Securities Depositories (CSD),
- Payment Banks (PB),
- Ancillary Systems (AS).

The precondition for a user to obtain access to the DWH is a setup in CRDM by the respective party. Access to the DWH depends on the user's profile, which ensures that the user is allowed to perform the requested action(s). There are two user profiles reflected as privileges in CRDM:

- Normal user profile: will be available for all party types.
- Advanced user profile: will be available for CB/CSD users only.

The data scope in the DWH follows the following rules:

- Users have access to their parties' data based on the data scope according to the hierarchical model (for details please refer to CRDM UDFS).
- For CBs/CSDs: Each CB/CSD has access to granular data for all parties belonging to its system entity. Moreover, each CB/CSD has access to aggregated data of all system entities.

The DWH uses Cognos as platform. It is an enterprise wide Business Intelligence (BI) solution, mostly used for reporting. Cognos is a web-based solution. Both the development and the end user interface are displayed on the web. It supports Relational Online Analytical Processing (ROLAP) and Multidimensional Online Analytical Processing (MOLAP) data sources.

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The DWH provides reports to users in different formats in user-to-application mode (U2A) or to other applications in application-to-application mode (A2A). The user can run a report directly in the DWH GUI (Cognos) and export the result. The second option is A2A delivery of the report as a file. To achieve this, the report has to be scheduled as described in chapter Scheduling reports [▶ 116].

Note: A CB user with advanced user profile was used in order to show the full scope of all screenshot pictures presented in this document.

2.2 Process of the Data Warehouse

DWH receives data from different services and common components and processes the data in order to make them available via reports and files. The data passes through the following three layers:

1. landing zone,
2. core layer,
3. enterprise layer.

The data are transmitted into the landing zone of the DWH as a copy after the end of each business day (EoD). The landing zone buffers the data before they are selected and loaded into the core layer.

The core layer stores only granular, validated, harmonised and historicised data.

From the core layer the data are loaded into the enterprise layer. In the enterprise layer the data are aggregated, calculated and prepared for reporting and analysis in a dimensional structure.

The stored data cannot be retrieved in the landing zone; instead, detailed structured and aggregated data can be accessed through the reports. The reports are built using the data in the core and the enterprise layer.

After processing (data transformation and pre-calculations) of the transmitted data within the DWH, data from the previous business day are available in the DWH at the start of the new calendar day at the latest.

The following diagram provides a high-level overview of the flow from the source through the different DWH layers:

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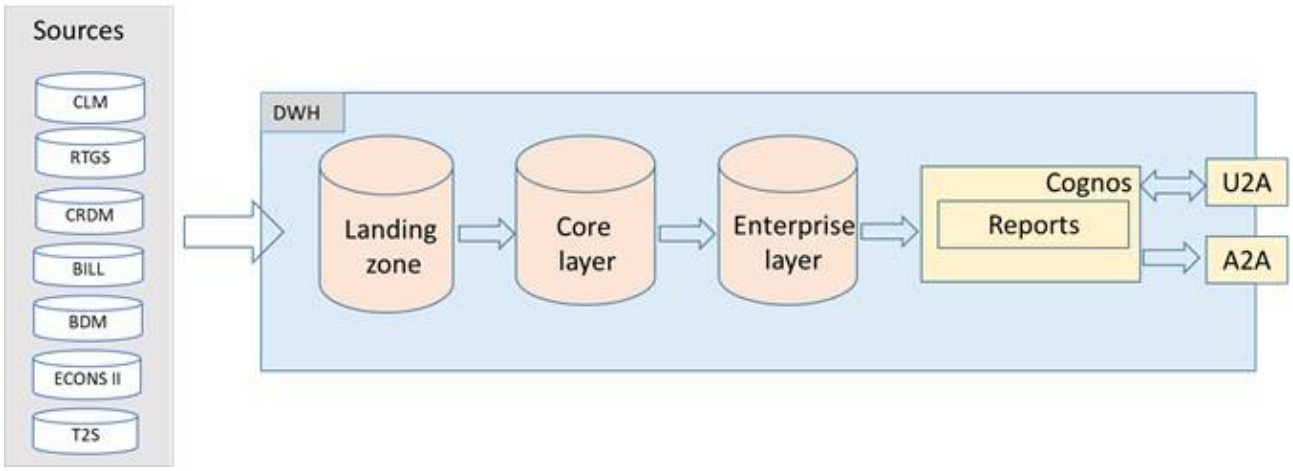

Figure 1 - DWH high level overview

3 First steps & basics

3.1 Access to the DWH

Access to the DWH is managed through the Eurosystem Single Market Infrastructure Gateway (ESMIG). ESMIG provides to the DWH specific credentials found in CRDM for a specific user-id. This ensures that you have access to the relevant information depending on the party you belong to, the party type and your privilege.[1]

As soon as your login is successful, you will see the welcome page.

The welcome page provides quick access to the product functionalities and content.

Figure 2 - Welcome page

3.2 Welcome page

The welcome page consists of three components. The first part, the ‘Create from existing data’ folder, is visible or not visible depending on the privileges of the user. In addition, the most recently used reports are displayed under the ‘Recent’ tab. The third tab, ‘Favourites’, displays reports previously set as favourites. These functions enable faster navigation through the DWH and frequently used reports directly from the welcome page.

1 For details on the network communication and services, please refer to the Connectivity Guide specified in the ESMIG UDFS.

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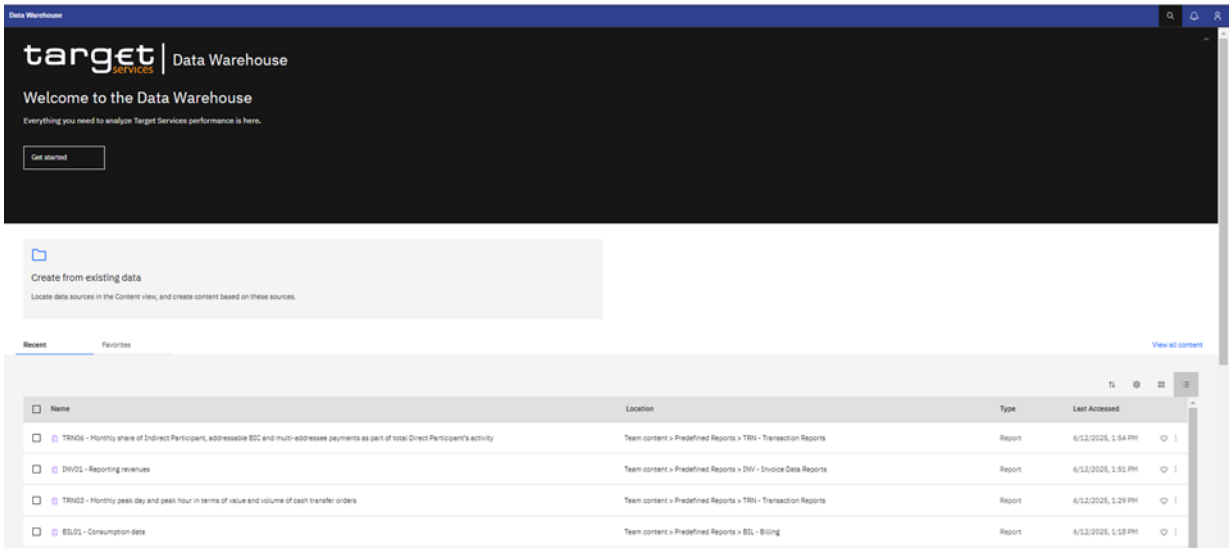

Figure 3 - Welcome page – Content

3.2.1 Welcome page - Create from existing data

Within this folder, the user can create a user-defined report based on the previously selected data model.

Figure 4 - Welcome page – Content – Create from existing data

3.2.2 Welcome page - Recent

The most recently selected and executed reports are listed here. These can be sorted according to preselected criteria. The reports can also be displayed either as a tiles view or as a list view.

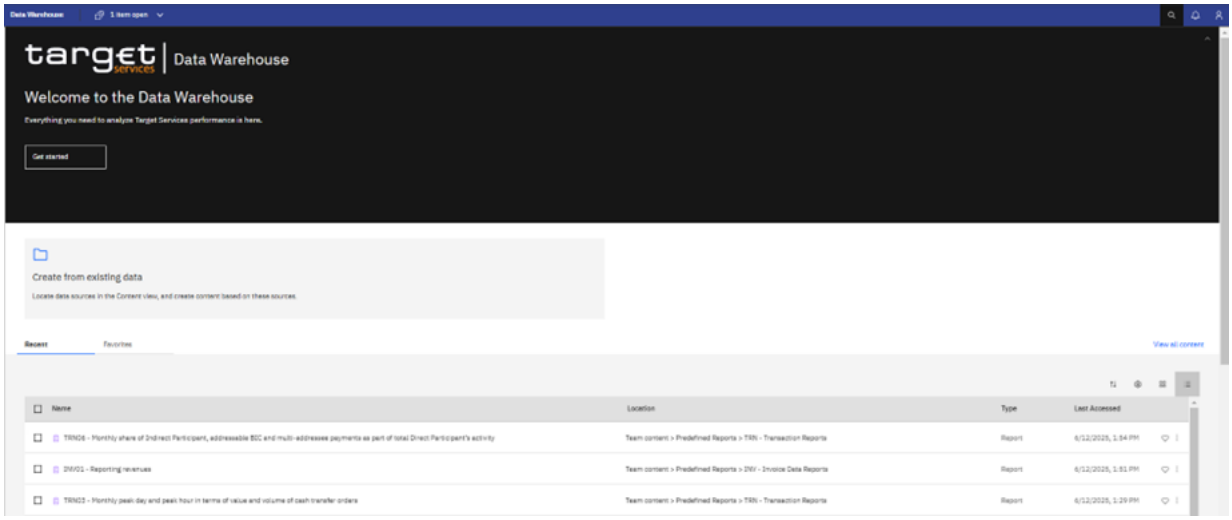

Figure 5 - Welcome page – Content – Recent

3.2.3 Welcome page - Favorites

The second tab, ‘Favourites’, displays reports previously set as favourites. Within this tab, it is possible to filter by criteria, sort the reports, reload the page and display the content either as tiles view or as list view.

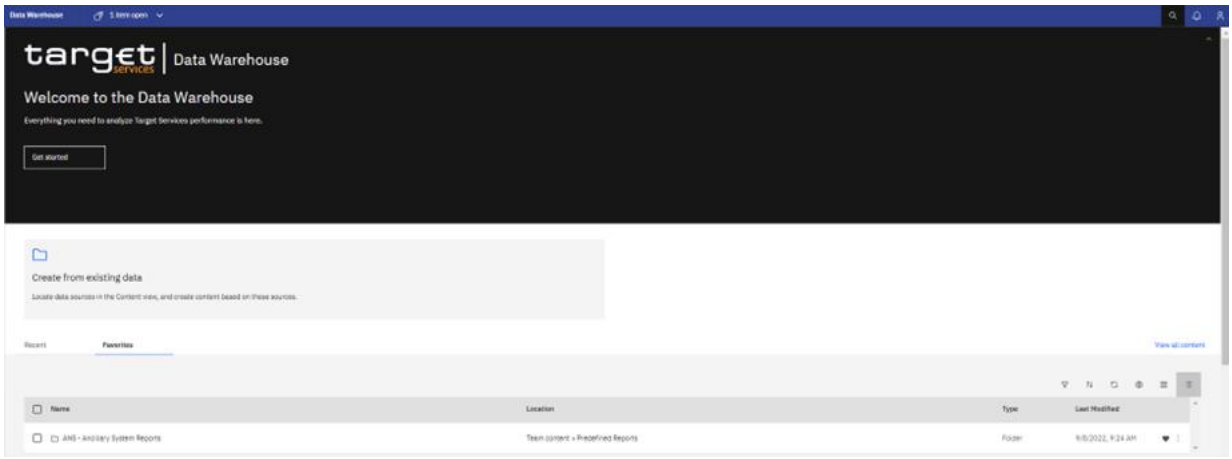

Figure 6 - Welcome page – Content – Favourites

To set a report as a favourite, select the heart symbol at the end of the report column so that it turns dark. Once a report has been selected, it appears under ‘Favourites’ on the welcome page and in ‘Content’.

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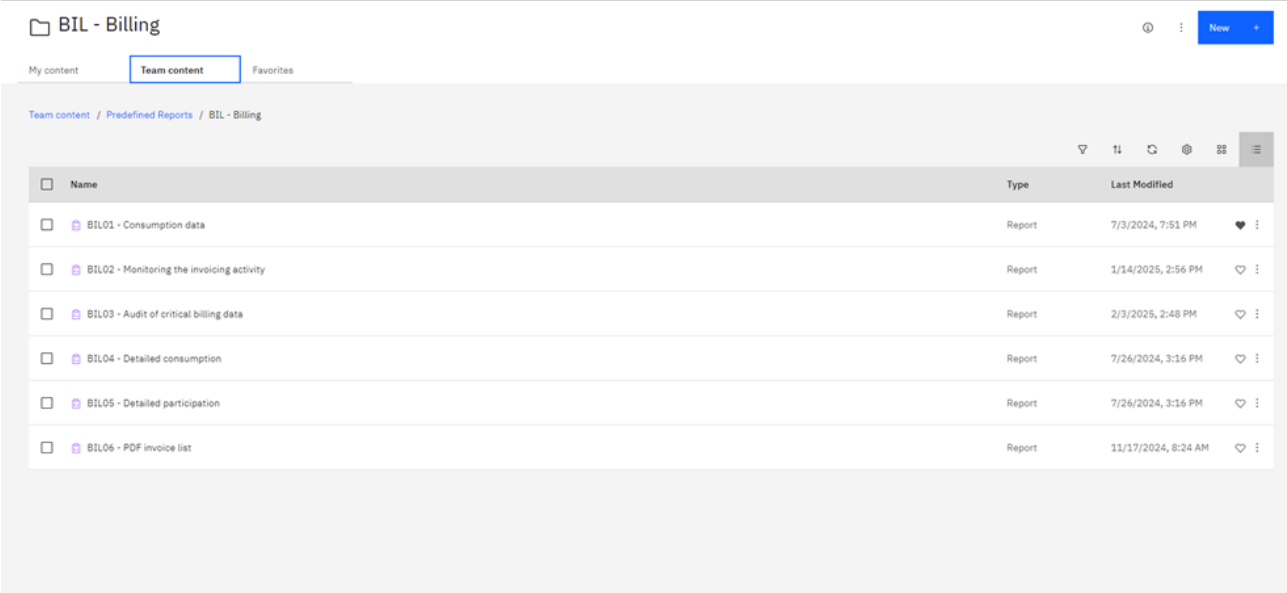


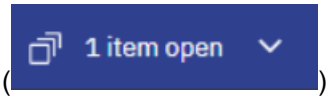
Figure 7 - Favourites - Team content

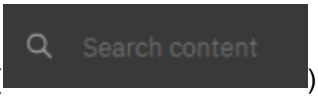
3.3 Navigating in the DWH GUI – Global application bar

The global application bar (the blue bar at the top of the screen) is a constant element of the user interface and is a building block of the welcome page.

When the welcome page is open, the following, standard options are available:

- "Open menu" icon ( )
- "Data Warehouse" home page link (

)
- "View switcher" - only visible if at least one document is open (

)
- "Search content" (

)
- "Notifications" icon ( )
- "Personal menu" icon ( )

3.3.1 Open menu

The "**Open menu**" is the main access point to the Cognos Analytics.

Click the “**Open menu**” icon ( ) in the application bar to access the menu options.

3.3.2 Data Warehouse icon

By clicking on the “**Data Warehouse**” icon (Data Warehouse) you return to the “**Welcome**” page.

3.3.3 View switcher

In the DWH GUI different pages each containing another report can be open at the same time. The “**View switcher**” in the application bar provides a convenient way to navigate between open views, and closes the views when they are no longer needed. You can navigate between different types of items, such as folders, reports, schedules, and more, from this view.

Figure 8 - Welcome page - navigation view

In the following example, you open a report and a report view. The “**View switcher**” provides the ability to view both of the objects:

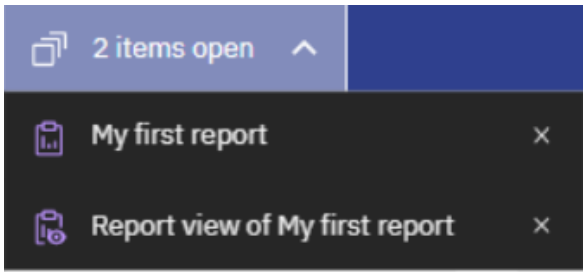


Figure 9 - Welcome page - navigation view - items

By clicking on the report or the report view, you can switch between the report and the report view:

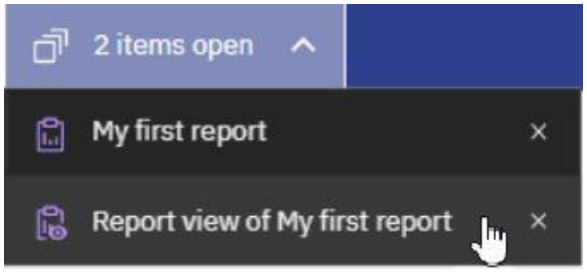


Figure 10 - Welcome page – navigation view – items – report view selection

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3.3.4 Search content

Search content is a quick and easy way to find content in Cognos.

You can search for items such as reports, folders etc. You can also search for table or column labels, XML report specifications, shortcuts, templates, and more.

Search content does not return results for content that is archived, but you can access archived content from any report that is listed in one of your folders.

The search content box is located in the application bar, as shown in the following screen capture:

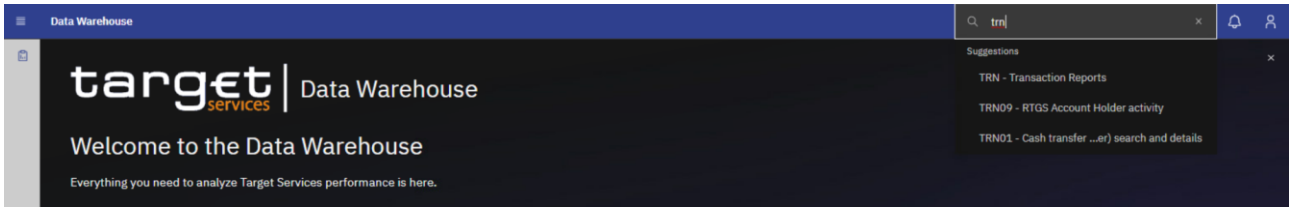
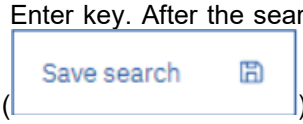


Figure 11 - Welcome page – Search content

To find items, type the search terms (keywords, phrases, strings), and click the Enter key. After the search results are listed, you can save your search by clicking the "**Save search**" button (

). If your search returns too many results, you can click the "**filter**" icon ( ), and select the options that you want. The filter option is only available after you do an initial search. The filters are saved with the search.

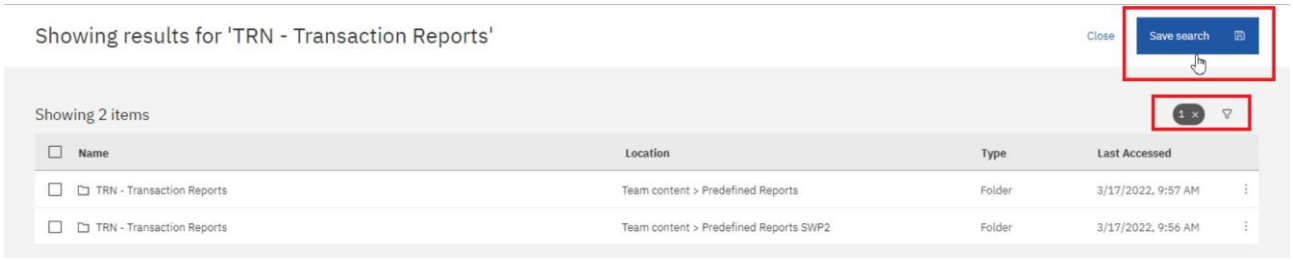


Figure 12 - Welcome page – Search content - Save search

From the search results page, you can initiate actions on the returned items. If you select multiple items (by clicking their check boxes), the related actions that are available for all or at least one item are shown in the toolbar, above the search results.

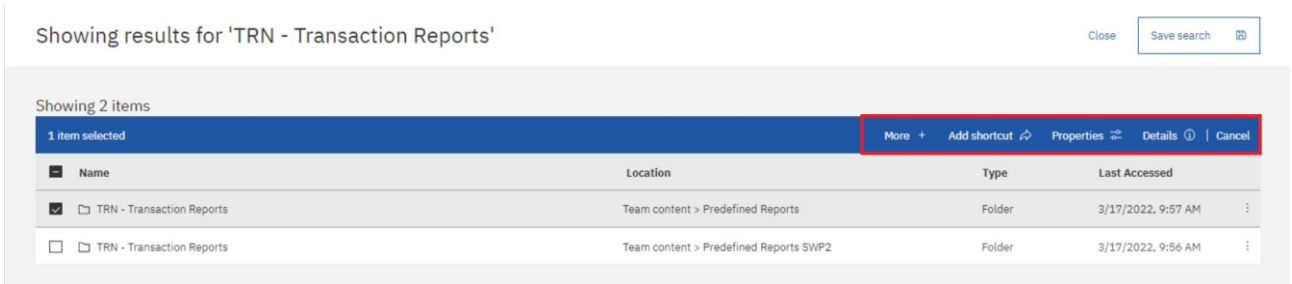


Figure 13 - Welcome page – Search content - initiate actions

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To view the actions for a specific item, select the checkbox for this item (all other items must be deselected), and click its "**Action menu**" (⋮) icon. The actions that are available for the selected item are shown. For example, the following screen capture shows actions for a report.

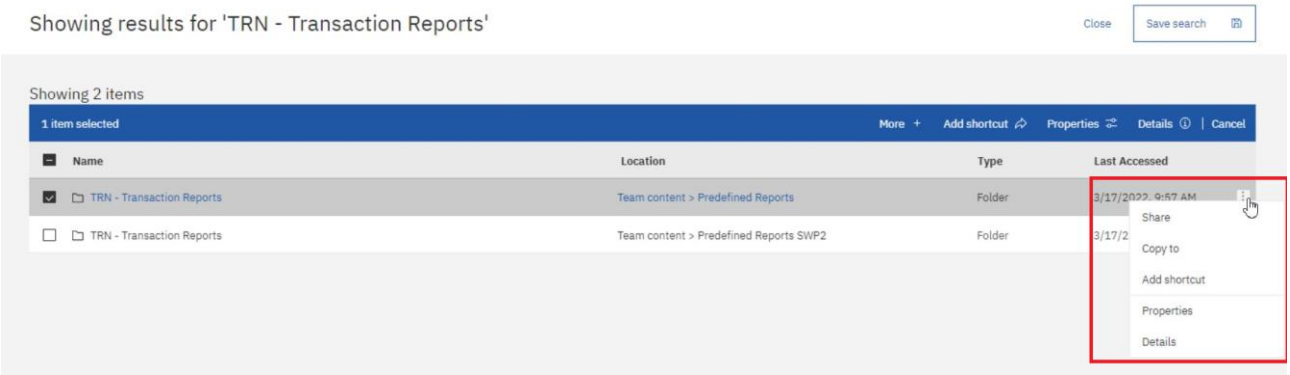

Figure 14 - Welcome page – Search content - Action menu

Special characters and search in double quotation marks

You can use the following special characters in your search terms:

"~`!@#$%^&*()-+={[}]|:;'<,>.?/"

When you enclose your search terms in double quotation marks (" "), the search results include only those instances where the terms appear in the exact order as within the double quotation marks.

3.3.5 Notification

Notifications help you stay on top of important data.

If you view a saved output and you want to know when there is a new version of the report, you can click the "**Notify me**" button. A saved output is either a report view in HTML format or the HTML view of the report when the option "**Run in background**" is selected. If you choose to be notified when a new version is available, you are notified every time t a new version of the report is delivered..

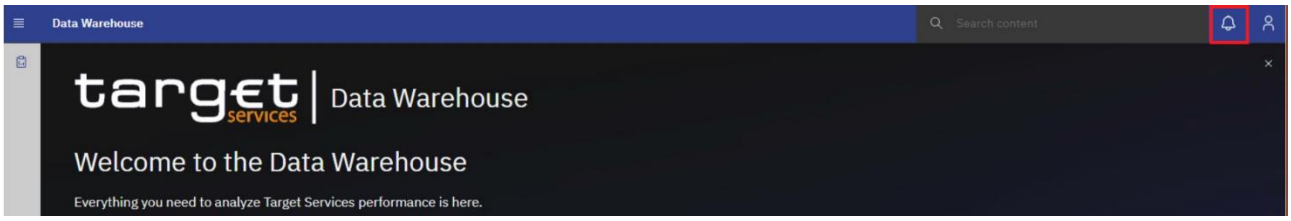

Figure 15 - Welcome page - Notification

The Notify me option is available in view mode of an HTML output of a report or a report view when it is saved in "My content" folder when you tap the "More" button in the application bar.

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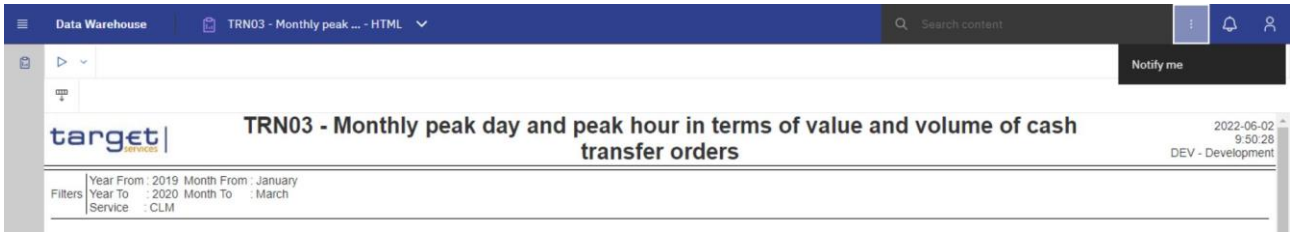


Figure 16 - More options – Notify me

If you request notification and then someone runs that report, you get a notification with a link to the updated version.

When you subscribe, if you choose the "**Save the report on the system**" delivery option, you receive a notification with a link to the new report version.

To see all your notifications, tap the "**Notifications**" icon in the application bar. When you revive a new notification, a number is added to the icon .

3.3.5.1 Subscribing to reports

When you subscribe to reports, you pick the time, date, format, and where you want it delivered. When you subscribe to a report, the subscription includes all your prompt and parameter values.

The subscription option is available in the application bar when you run and view a report, but not when you are in editing mode or when you view saved output.

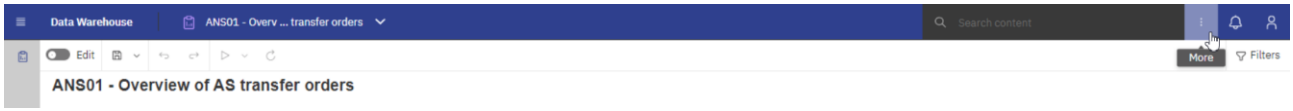
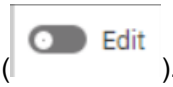


Figure 17 - Welcome page - Notification – subscribe

Note for users with advanced user profile:

To ensure that you are in view mode, and not in edit mode, turn off the "**Edit**" toggle (

).

If you edit a report, you must save it before you can subscribe.

After you subscribe, each time your report is delivered, you are notified by a red circle on the "**Notifications**" icon ( ) in the application bar.

The number in the red circle indicates the number of notifications that you have not yet viewed. Tap the notifications icon to find a message with a link to view the report output.

After you create your subscriptions, you can view and manage them. For more information, see chapter Scheduling reports [116].

3.3.6 Personal menu

In the "**Personal menu**" icon you can find settings to customise your DWH experience.

You can view and edit your personal and regional information, monitor the system activities etc. The user can edit the time zone, the product language and view the capabilities granted by the administrator. For further information, please refer to chapter Profile and settings [51].

Figure 18 - Welcome screen – Personal menu (1)

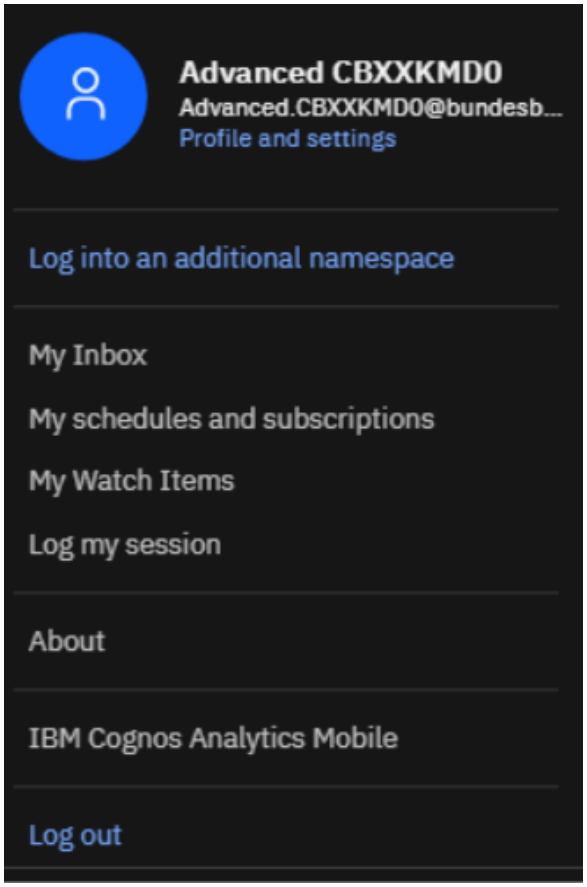


Figure 19 - Welcome screen – Personal menu (2)

3.3.6.1 Profile and settings

In the "**Profile and settings**" menu you can find more information about your user under "**Profile**". Please note, that some of the settings displayed have to be changed in CRDM e.g. User information, granted privilege.

For example you will see your email address if available in CRDM.

You can also find information about "**Groups and roles**" and "**My capabilities**" described in detail hereafter.

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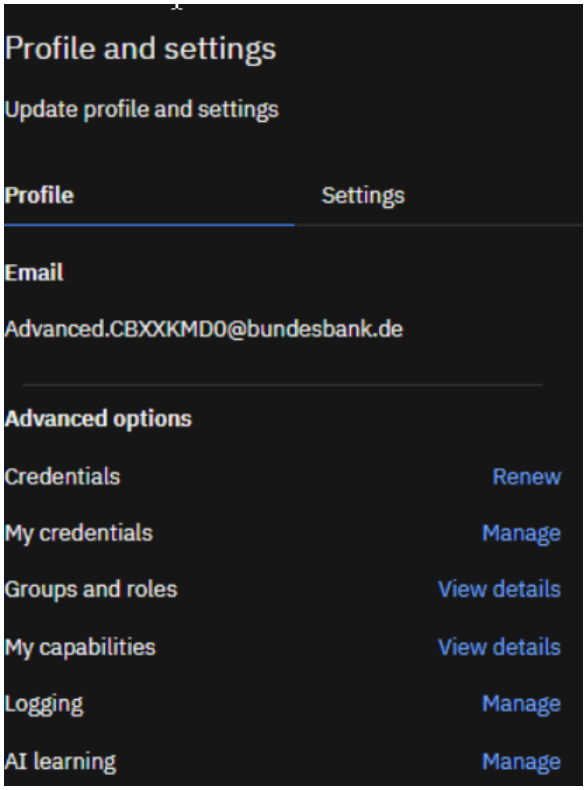

Figure 20 - Welcome screen – Personal menu – Profile and settings – Profile

Groups and roles

You can find the groups and roles you are associated to by clicking on "**View details**" at the right of "**Groups and roles**". Please refer to Understanding user rights and access rights (advanced users) [▶ 578] to find more information about groups and roles.

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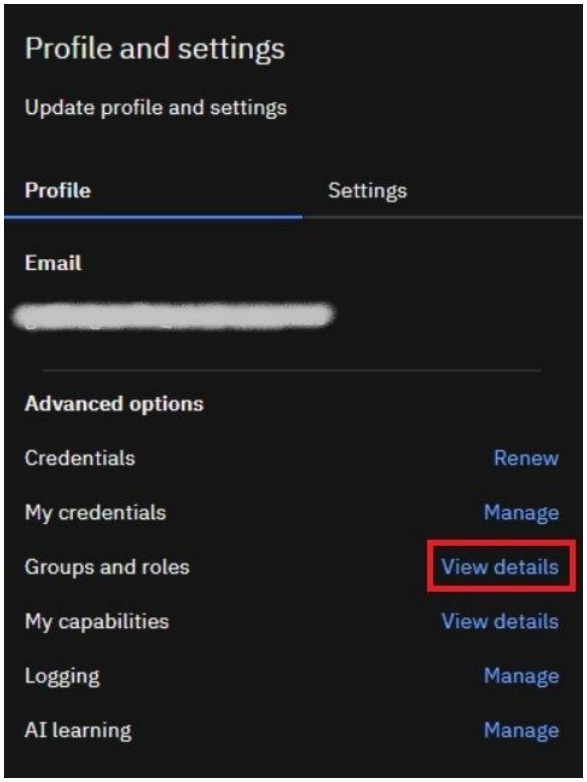


Figure 21 - Welcome screen – Personal menu – Profile and settings – Personal – Groups and roles

In this example, the user belongs to a Central Bank with country code "**KM**". In CRDM the role containing the "**Data Warehouse Advanced User**"-privilege is granted to the user.

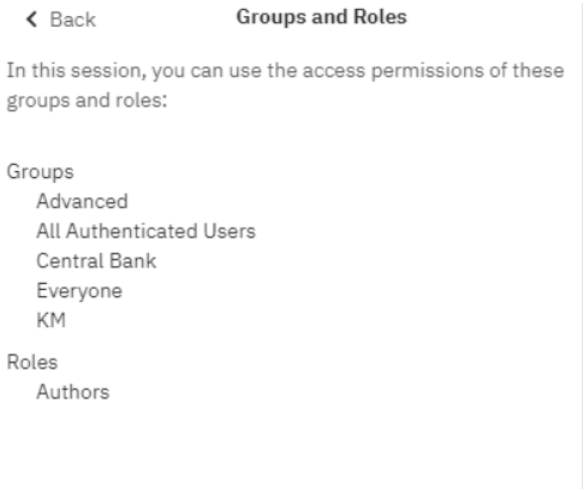


Figure 22 - Welcome screen – Personal menu – Profile and settings – Personal – Groups and roles

My capabilities

The capabilities control access to different administration tasks and different functional areas of the user interface in DWH. You can find the capabilities assigned to you by clicking on "**View details**" on the right of the section.

All rights reserved.

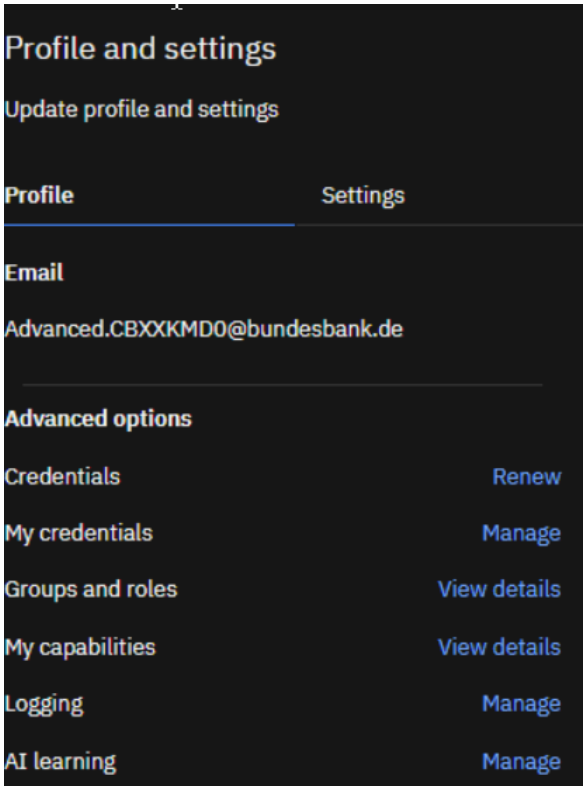


Figure 23 - Welcome screen – Personal menu – Profile and settings – Profile – My capabilities (1)

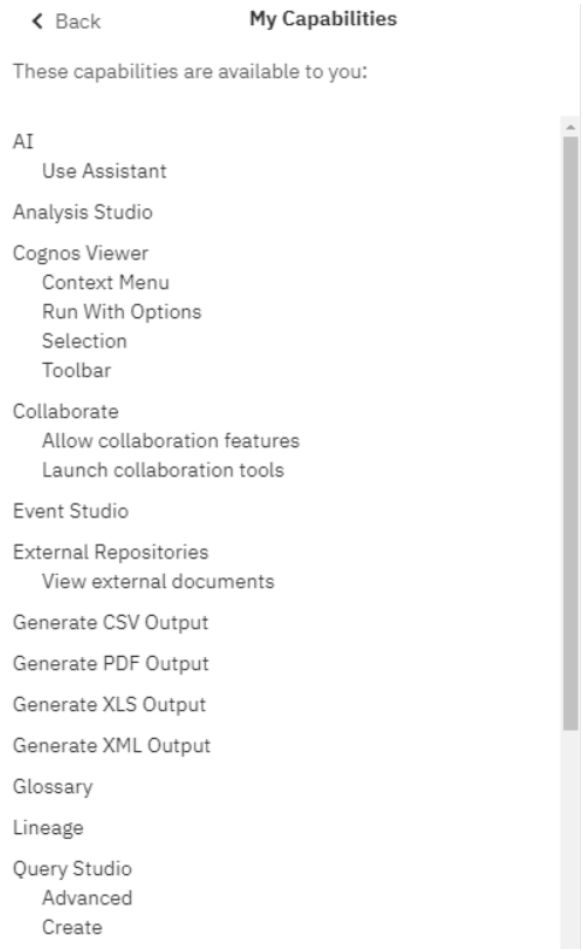


Figure 24 - Welcome screen – Personal menu – Profile and settings – Profile – My capabilities (2)

3.3.6.2 Logging

You can use "**Logging**" to enable detailed, diagnostic logging for your current DWH session. This can be useful to support the analysis of the Operational Teams in case you run into reproducible problems or errors while using the Data Warehouse. In such a case, you can turn logging on and then perform the steps that lead to the problem or error you encountered. Session logging can run for one hour maximum, but can be turned off at any time.

A unique identifier is generated to allow the administrator to identify the session logging data. Record the log identifier before you turn off the logging or close your browser. Please remember to add this identifier to your ticket when requesting help.

All rights reserved.

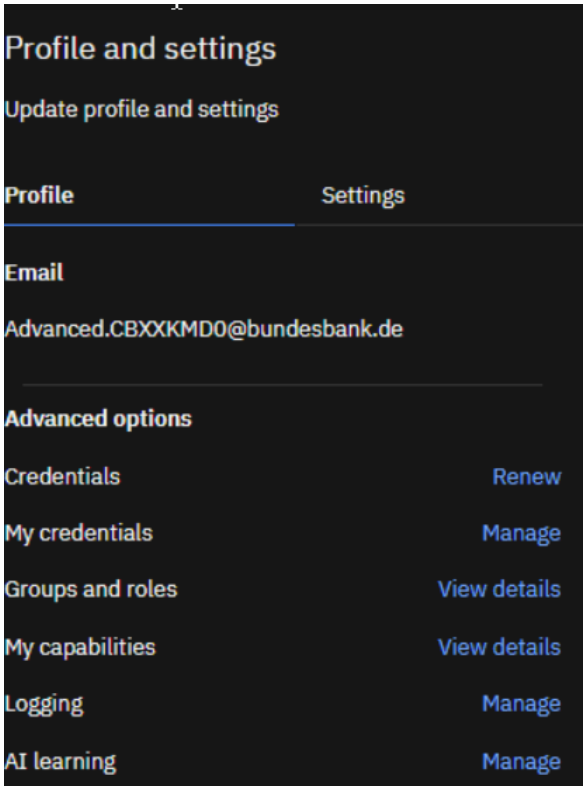


Figure 25 - Welcome screen – Personal menu – Profile and settings - Logging

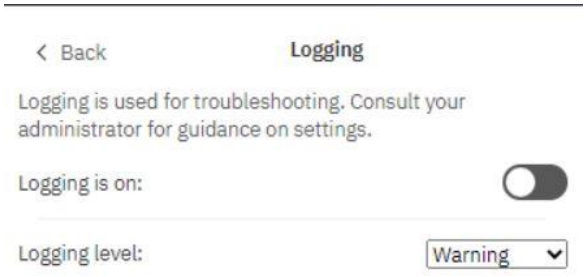


Figure 26 - Welcome screen – Personal menu – Profile and settings – logging

In some circumstances, IBM customer support might direct you to increase the logging level. You can set it to one of the following levels:

Error

Basic level of logging that tracks only major error messages that occur during processing on the client workstation.

Warning

The next level of logging that includes all the information from the Error level of logging and includes warnings about situations that might not affect your system function.

Information

This level of logging aggregates all previous levels of logging and includes more detail about the regular operation of the user interface. You might notice that performance at this level is slower.

Debug

This level of logging contains the most information. Use it if you are testing your own extensions or when you are advised by a member of the software development team or customer support. You can expect that performance at this level is noticeably slower.

Logging levels are stored in the browser cache. If you clear the browser cache, logging levels return to the default setting.

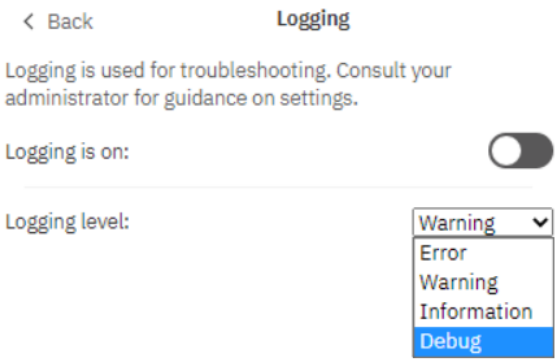


Figure 27 - Welcome screen – Personal menu – Profile and settings - logging level

3.3.6.2.1 Profile and Settings - Settings

You can set up settings for your DWH applications. To set your settings in the personal menu click on "**Profile and settings**" and then "**Settings**".

All rights reserved.

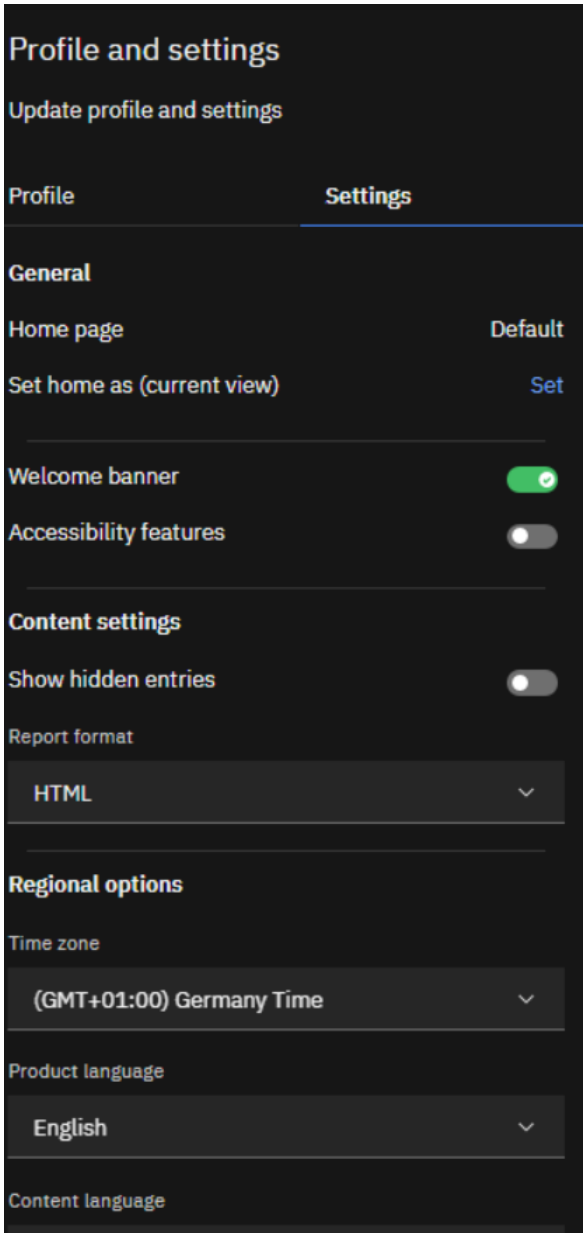


Figure 28 - Welcome screen – Personal menu – Profile and settings – Settings

Home page

In case a different page than the default is set, the user can reset to the default

Report format

The default value for the report format is HTML

But you can also choose ~~also~~ one of the following formats:

- Excel ~~(same content as HTML but as Excel file)~~
- Excel Data ~~(only the report data is exported – Not recommended since it does not work properly)~~ **{CR-173}**

- PDF
- HTML
- CSV
- XML

Turn on accessibility features

Accessibility features assist users who have a disability, such as restricted mobility or limited vision, to use information technology content successfully

Language settings

The default language is English.

You can select the language that you prefer for the DWH user interface. If your data and reports are available in multiple languages, you can also select the language that you prefer for the content. There is also support for bidirectional languages such as Hebrew, Arabic, Urdu, and Farsi. Report authors can control the display of native digits and the direction of text, crosstabs, and charts.

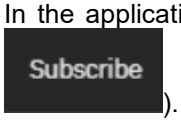
3.3.6.3 My schedules and subscriptions

This menu item allows you to browse through the list of all report runs scheduled for the day. You can view all your scheduled activities and subscriptions on the "**My schedules and subscriptions**" panel.

The subscription option is available when you run and view a report, but not when you are in editing mode or when you view saved output.

In order to subscribe to a report:

Run a report.

In the application bar, tap "**More**" icon in the application bar ( ) and then tap the "**Subscribe**" text (

).

Select your subscription options, and then tap "**Create**".

The subscriptions have the following characteristics:

A subscriber requires only Read and Execute permissions for the report.

There can be up to 32 subscriptions for the same report.

Created by running a report and, in view mode, tapping the "**More**" icon ( ) in the application bar.

Only the subscriber can view their subscription.

Only the most recent saved report output is available.

The report can be run daily or weekly.

You can view a list of your scheduled activities that are current, past, or upcoming on a specific day.

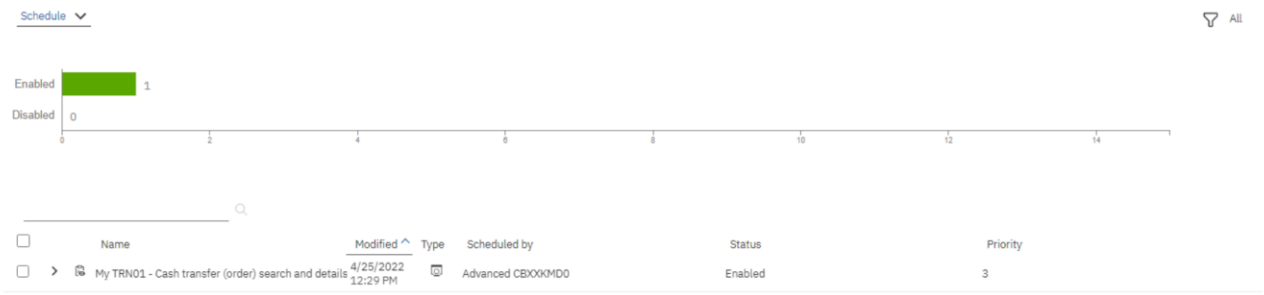


Figure 29 - Welcome screen – Personal menu – My schedules and subscriptions

You can filter the list to show the entries you want to see by clicking on the down arrow next to the "**Schedule**".

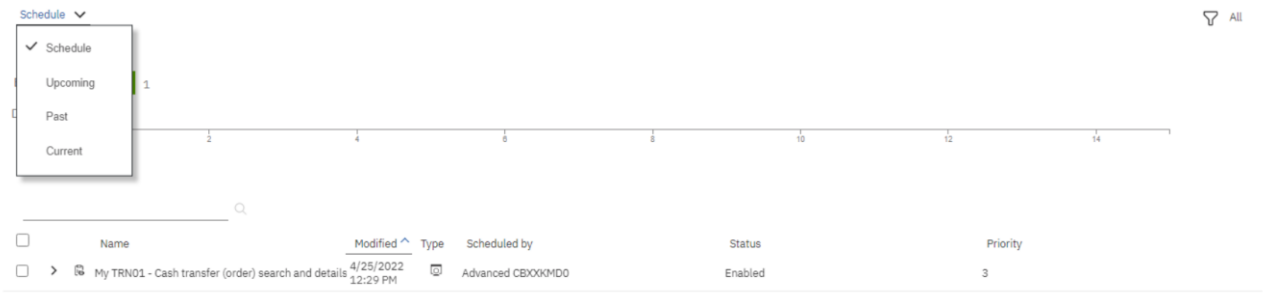


Figure 30 - Welcome screen – Personal menu – My schedules and subscriptions - Filter

The following screenshots show the upcoming and the past schedules respectively:

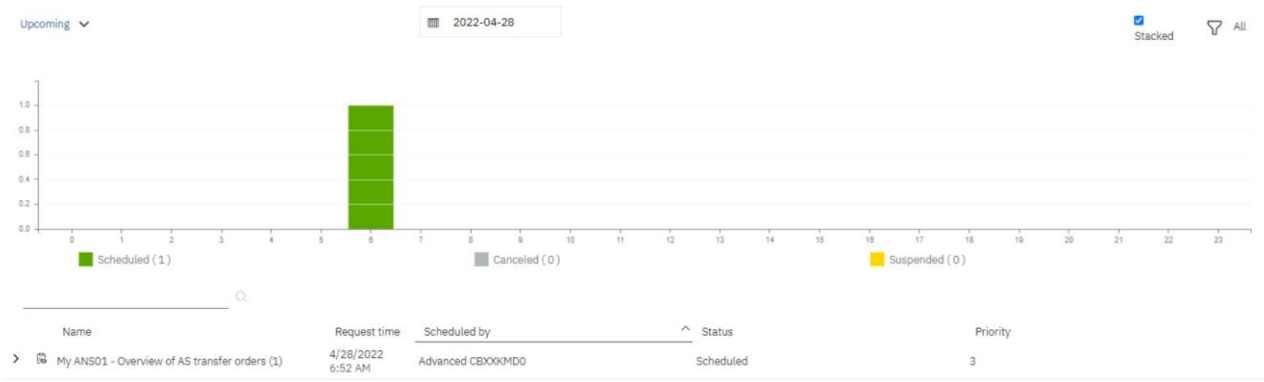


Figure 31 - Welcome screen – Personal menu – My schedules and subscriptions – Upcoming schedules

All rights reserved.

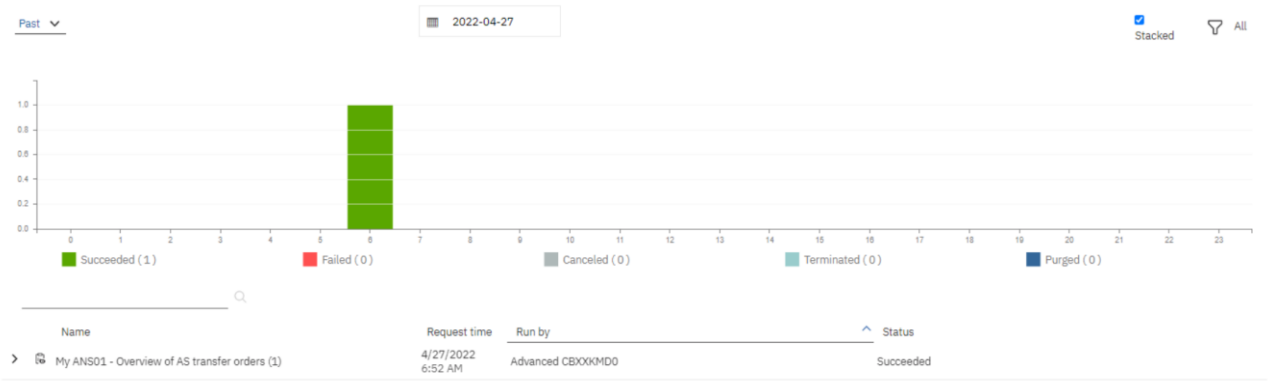


Figure 32 - Welcome screen – Personal menu – My schedules and subscriptions – Past schedules

In general you can enable, disable, modify, or remove subscriptions, and view their saved outputs or the archived version details panel for information such as the run status and run time.

All this information are available by clicking on the "**More**" icon ( ):

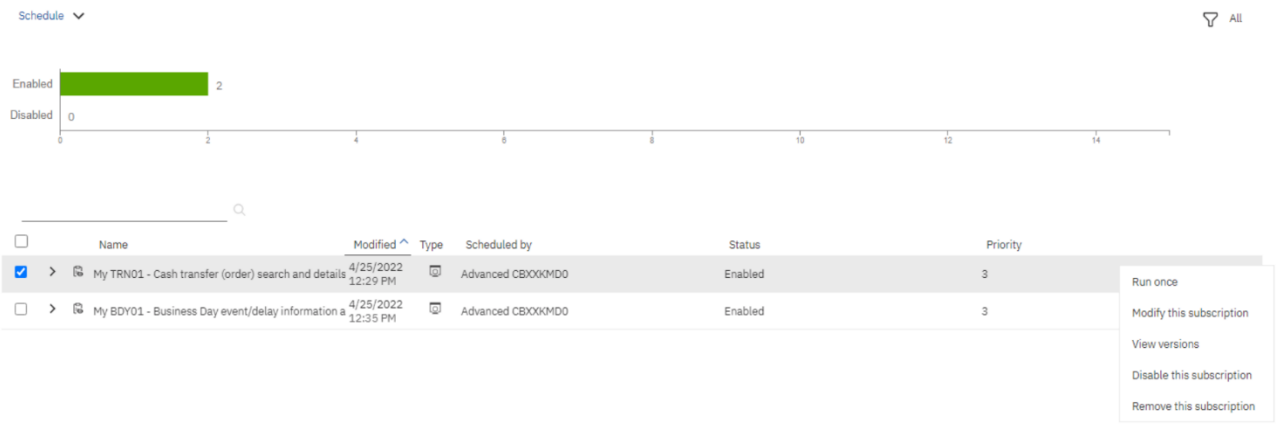


Figure 33 - Welcome screen – Personal menu – My schedules and subscriptions

Enabled: The Status "**Enabled**" informs the user that the schedule is active.

Run once: By clicking here, the user can run the report once:

All rights reserved.

You can find further information on how to run a report in the chapter Run a report step-by-step [95].

Modify this subscription: Change the settings for the scheduled report.

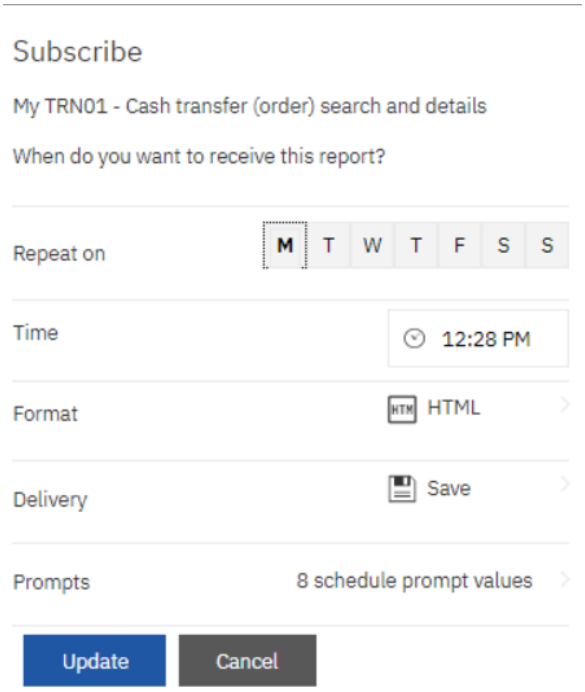


Figure 34 - Welcome screen – Personal menu – My schedules and subscriptions – Modify

View versions: The versions of the report, that is the date it was executed after it was successfully scheduled

All rights reserved.

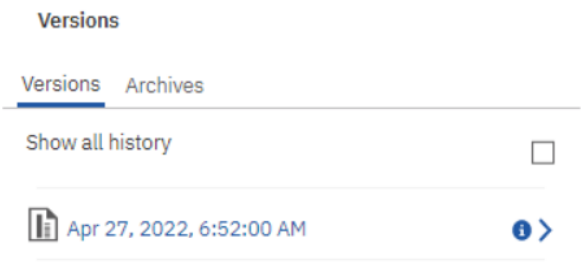


Figure 35 - Welcome screen – Personal menu – My schedules and subscriptions – View versions

Disable this subscription: By clicking this option, the user disables the schedule

Figure 36 - Welcome screen – Personal menu – My schedules and subscriptions – Disable schedule

Remove this subscription: The schedule will be deleted

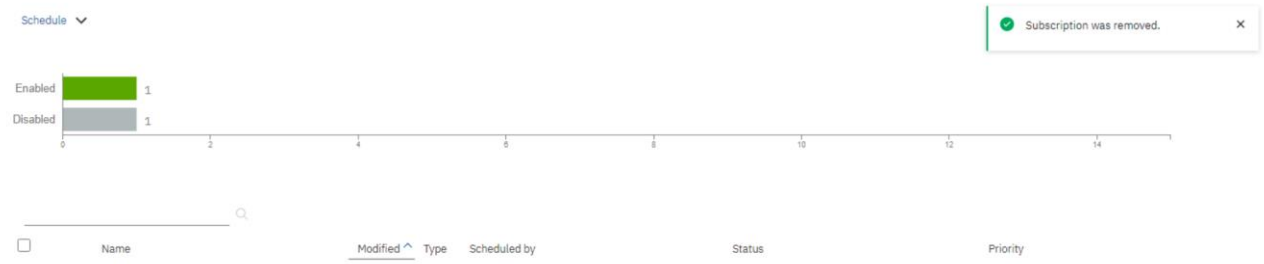


Figure 37 - Welcome screen – Personal menu – My schedules and subscriptions – Remove schedule

In the top right corner, the user will find another filter.

All rights reserved.

Figure 38 - Welcome screen – Personal menu – My schedules and subscriptions – Filter (2)

By clicking on "**All**" ( ) button, the user will be presented with further options.

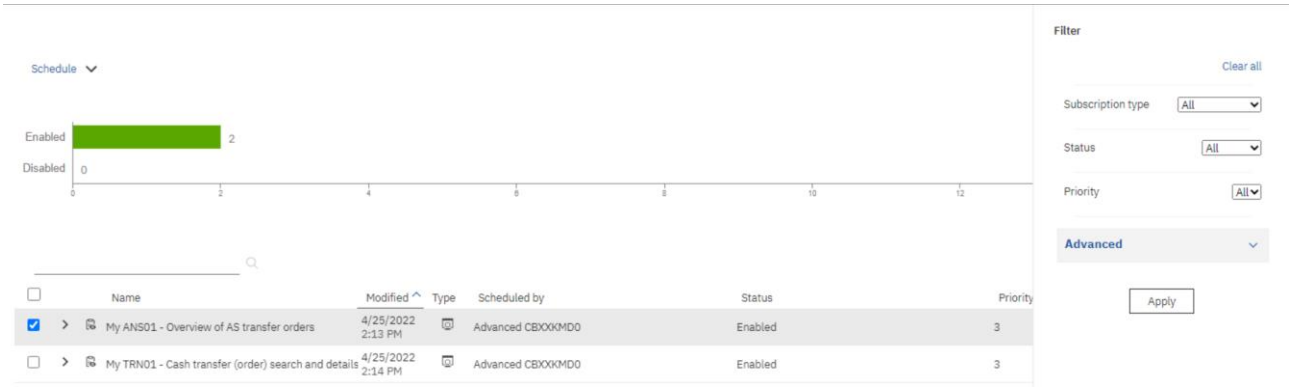
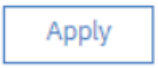


Figure 39 - Welcome screen – Personal menu – My schedules and subscriptions – Filter (2) - Further options

Subscription type: By clicking on the dropdown next to the "**Subscription type**" the user will be able to filter to see either the subscriptions or the activities.

Verify the choice by clicking on the "**Apply**" button ().

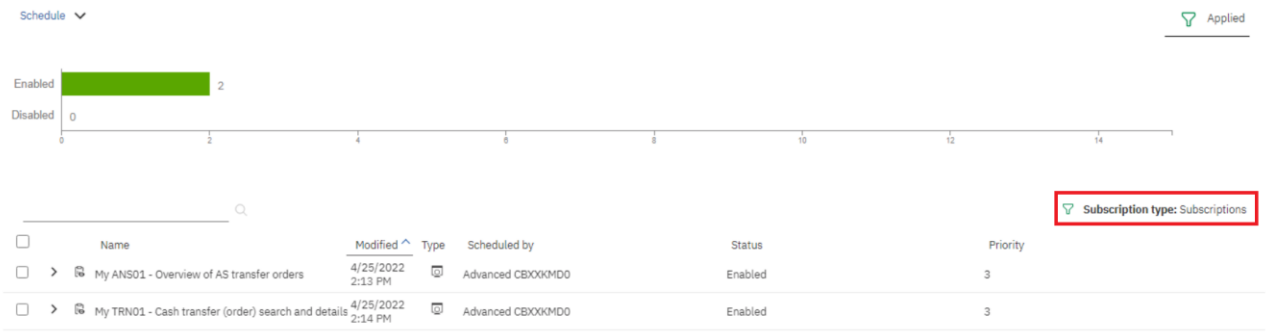
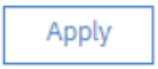


Figure 40 - Welcome screen – Personal menu – My schedules and subscriptions - Subscription type

Status: By clicking on the dropdown next to the "**Status**", the user can choose to see either the "**Enabled**" or the "**Disabled**" schedules:

Verify the choice by clicking on the "**Apply**" button ().

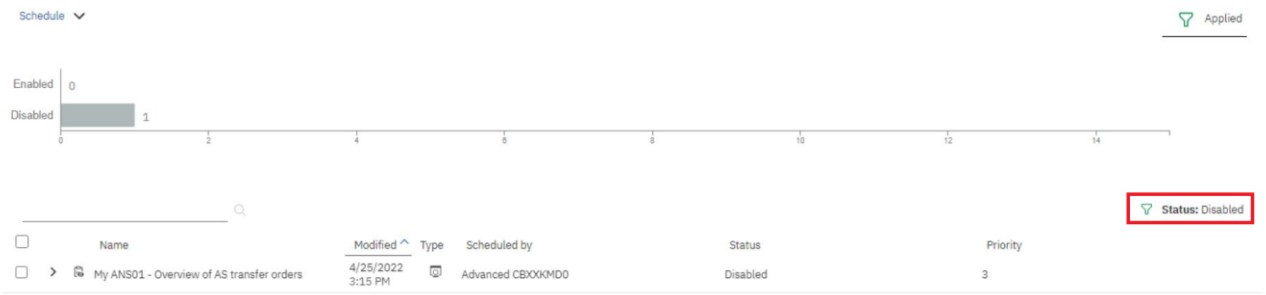
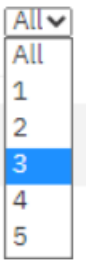


Figure 41 - Welcome screen – Personal menu – My schedules and subscriptions – Status disabled

Priority: By clicking on the dropdown next to the "**Priority**", the user can choose to select different schedules according to the priority.



Verify the choice by clicking on the "**Apply**" button (Apply).

Figure 42 - Welcome screen – Personal menu – My schedules and subscriptions – Schedules Priority

By clicking on the down arrow next to "**Advanced**", the user is presented with further options.

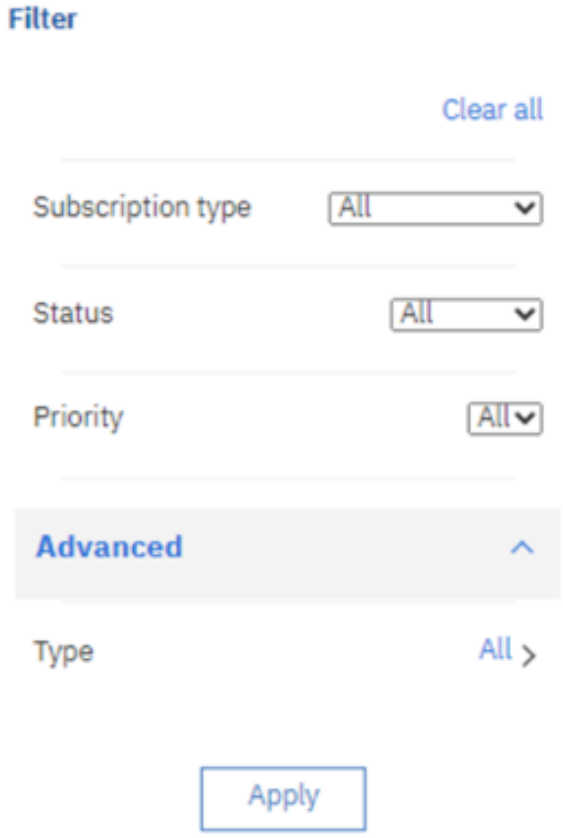


Figure 43 - Welcome screen – Personal menu – My schedules and subscriptions – Advanced

By clicking on the "**All**" text (All) next to the "**Type**", the user can choose which type of schedule to see, i.e. Report or Repot view:

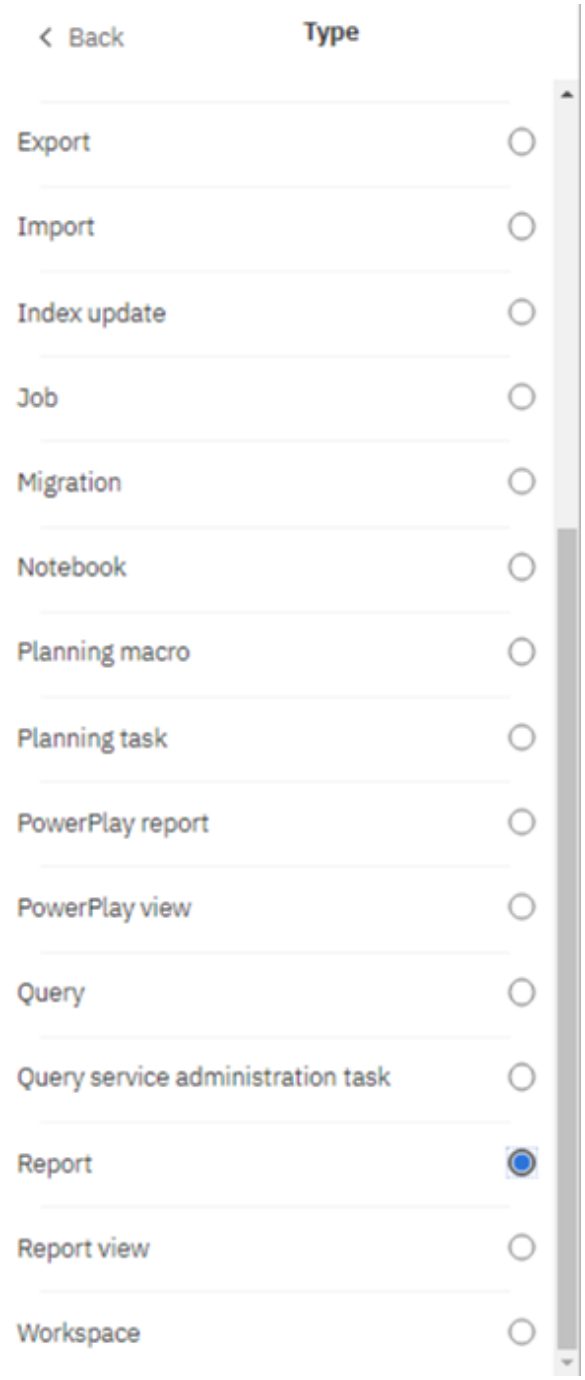


Figure 44 - Welcome screen – Personal menu – My schedules and subscriptions – Advanced - All - Type of schedule

All rights reserved.

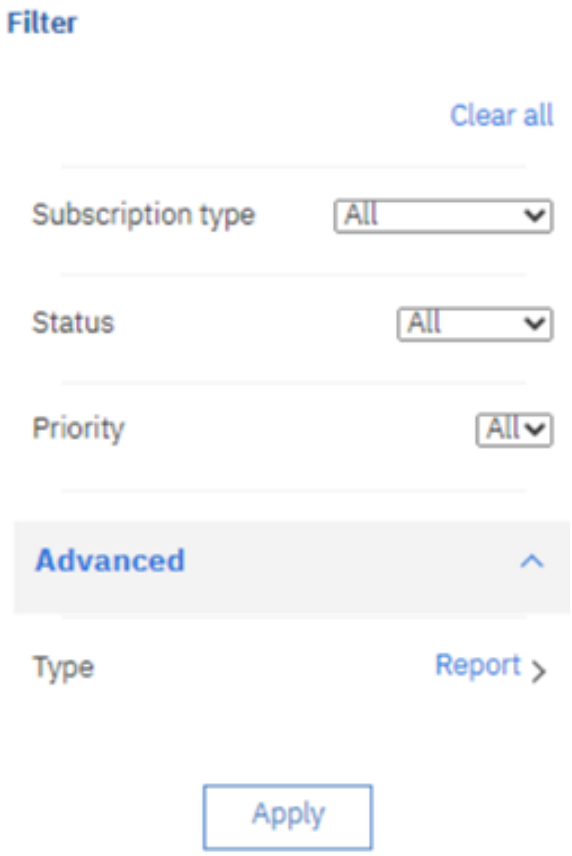


Figure 45 - Welcome screen – Personal menu – My schedules and subscriptions – Advanced - All - Type of schedule – Report

By clicking on "**Back**" text in the upper left corner (Back) and clicking on the "**Apply**" button (Apply), the user can see the type of schedule that has been chosen.

Figure 46 - Welcome screen – Personal menu – My schedules and subscriptions – Advanced - All - Type of schedule - Report

All rights reserved.

3.3.6.4 Log out

In order to log out you can use the “**Log out**” item from the personal menu in the toolbar.

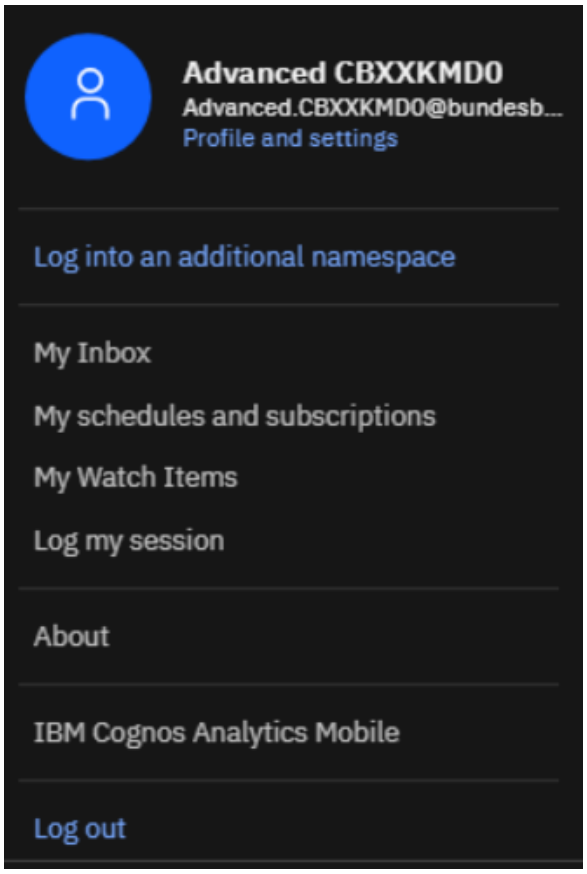


Figure 47 - Personal menu - Log out

3.4 Navigating in the DWH GUI – menu

On the left side of the screen you can find the “**Open menu**” icon ( ) with different folders and the “**System information**” ( ).

Figure 48 - Welcome page - menu

3.4.1 Data Warehouse logo

By clicking on the "**Data Warehouse**" logo, you return to the "**Welcome**" page.

3.4.2 Open Home

The first icon under the "**Open Home**" icon is the "**Home**" icon.

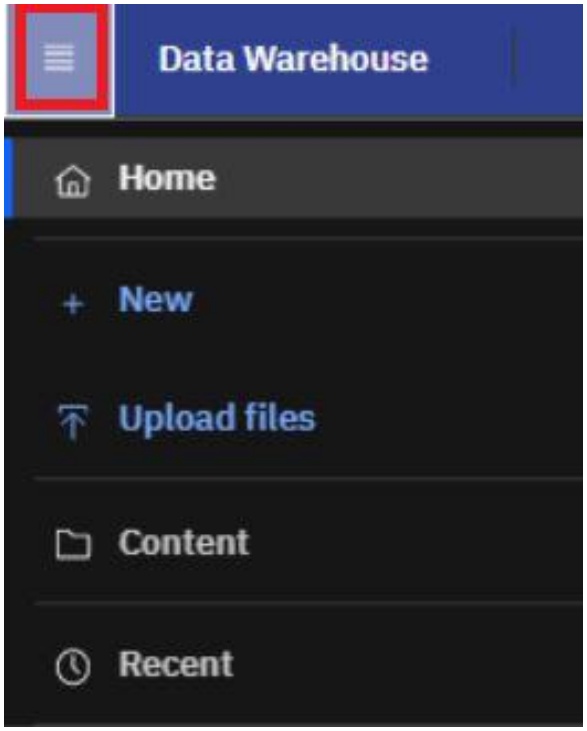


Figure 49 - Welcome page - Home

By clicking on this icon it is always possible to return to the "**Welcome**" page (the standard one or the one you have specified – for further information please refer to chapter Access to the DWH [▶ 42]) from everywhere in the DWH GUI.

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3.4.3 Search function

To find items in your own or in the team content type the search term in the "**Search**" field. In the search field - you can type in one or multiple keywords and press "**Enter**". You can search for folders or predefined reports.

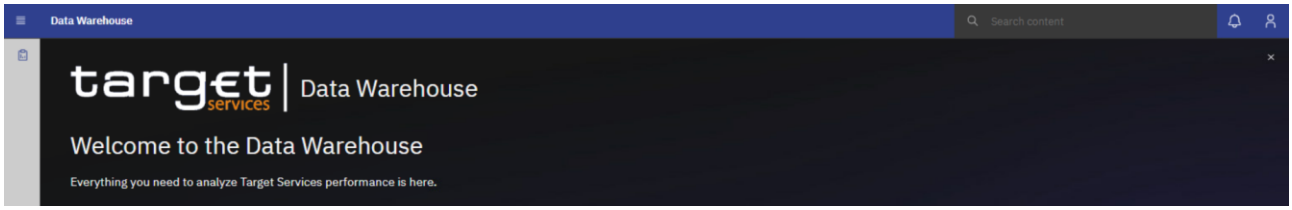

Figure 50 - Welcome page - Search

3.4.3.1 Narrow your search with filters

After a search was successful, the filter function is available. In case your search returns too many results, you can click on the "**Filter**" icon and select for example specific search results or dates to modify the result list.

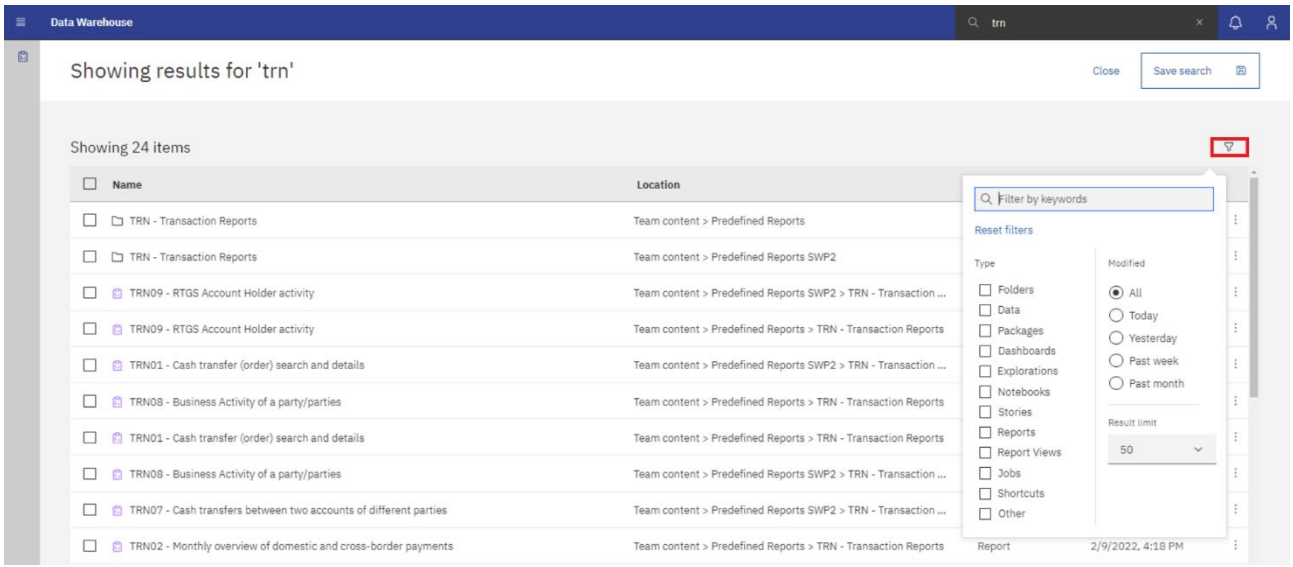

Figure 51 - Welcome page - filter options

3.4.3.2 Save search results

After you have performed a search and the results are shown, you can save the results of your search. The "**Save**" icon is only available after a successful search.

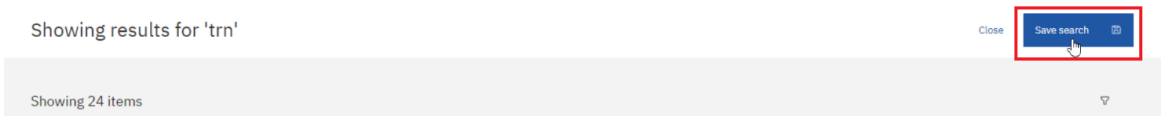

Figure 52 - Welcome page - Search - Save icon

After clicking on the “**Save**” icon, a message pops up, that informs you that the search was saved.

The result of the search will be available later, even after the search is closed, or the user signs out.

If you do not save the result, the next search will overwrite the previous:

In order to delete a previously saved search, click on the “remove” button of the saved search you intend to delete.

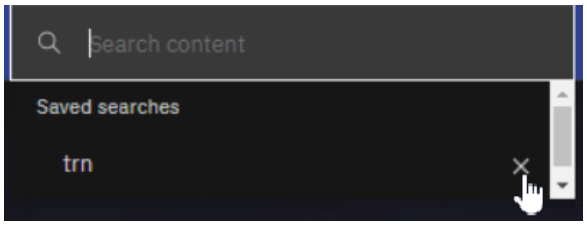

Figure 53 - Welcome page – remove search

Example

In case you save the search, the search result will be available in the “**Saved searches**” list, even after you sign out.

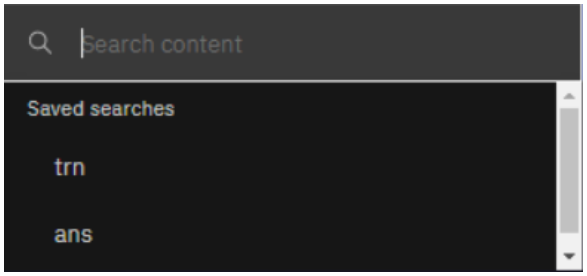

Figure 54 - Welcome page - Search - Saved searches

3.4.4 System information

Behind “**System information**”, you find a menu with a welcome page and user information.

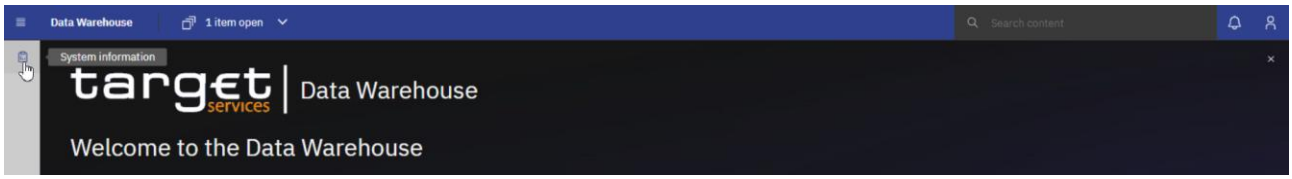

Figure 55 - Welcome page - System information link

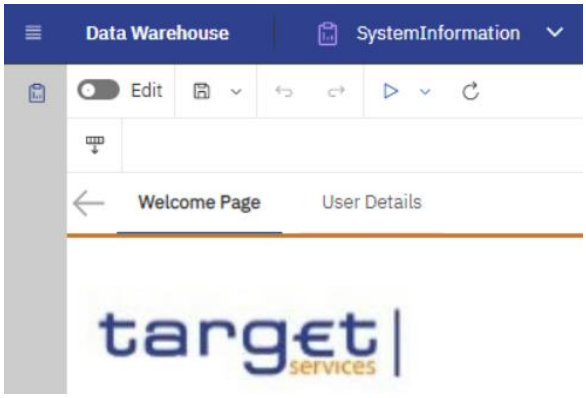

Figure 56 - Welcome page – System information menu

Welcome page

This page serves as an introduction to this menu and informs you about the content of this menu.

User details

Here you can see additional user information, such as user details concerning your User ID, which is needed to identify you in case of support. In addition, you will find your name, the name of your institution, and system information such as the environment (production or test environment) you are working on. The last business day is also mentioned to give you the information, which was the last business day loaded into the DWH completely.

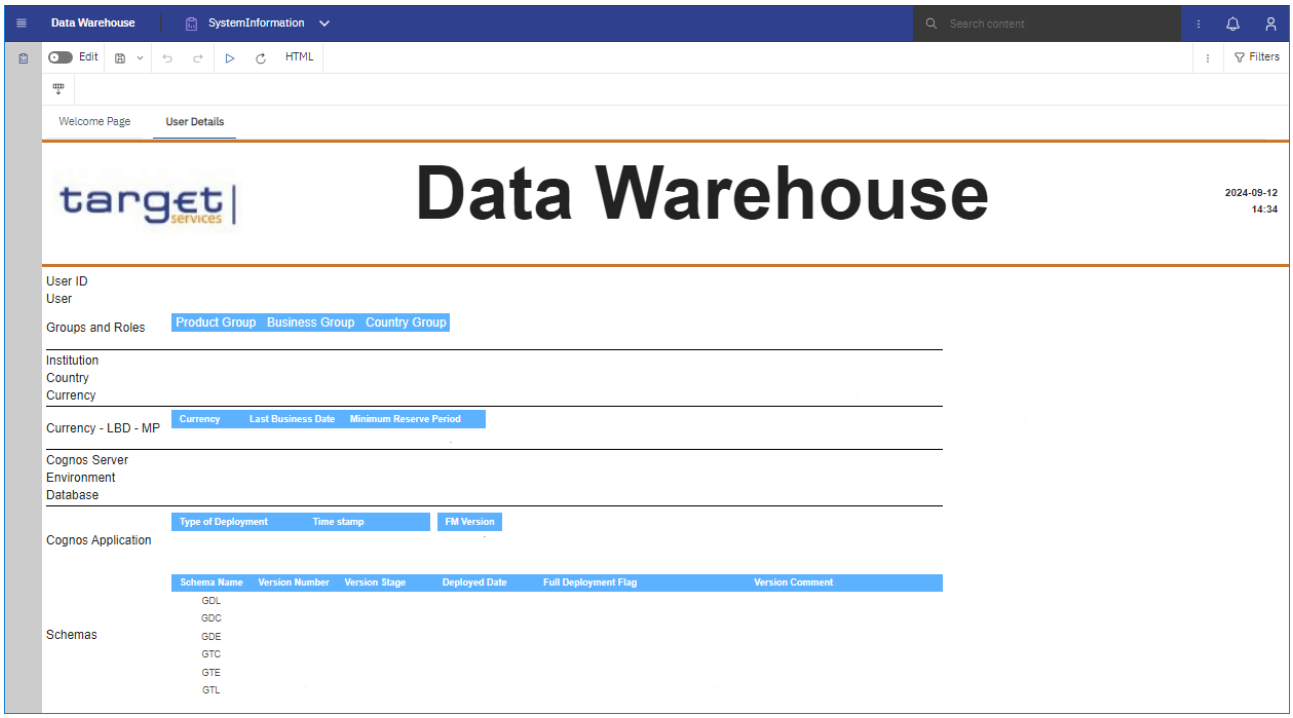

Figure 57 - User Details

3.4.5 Recent

If you want to see pages, folders or reports that you recently viewed you can find the list under "**Recent**".

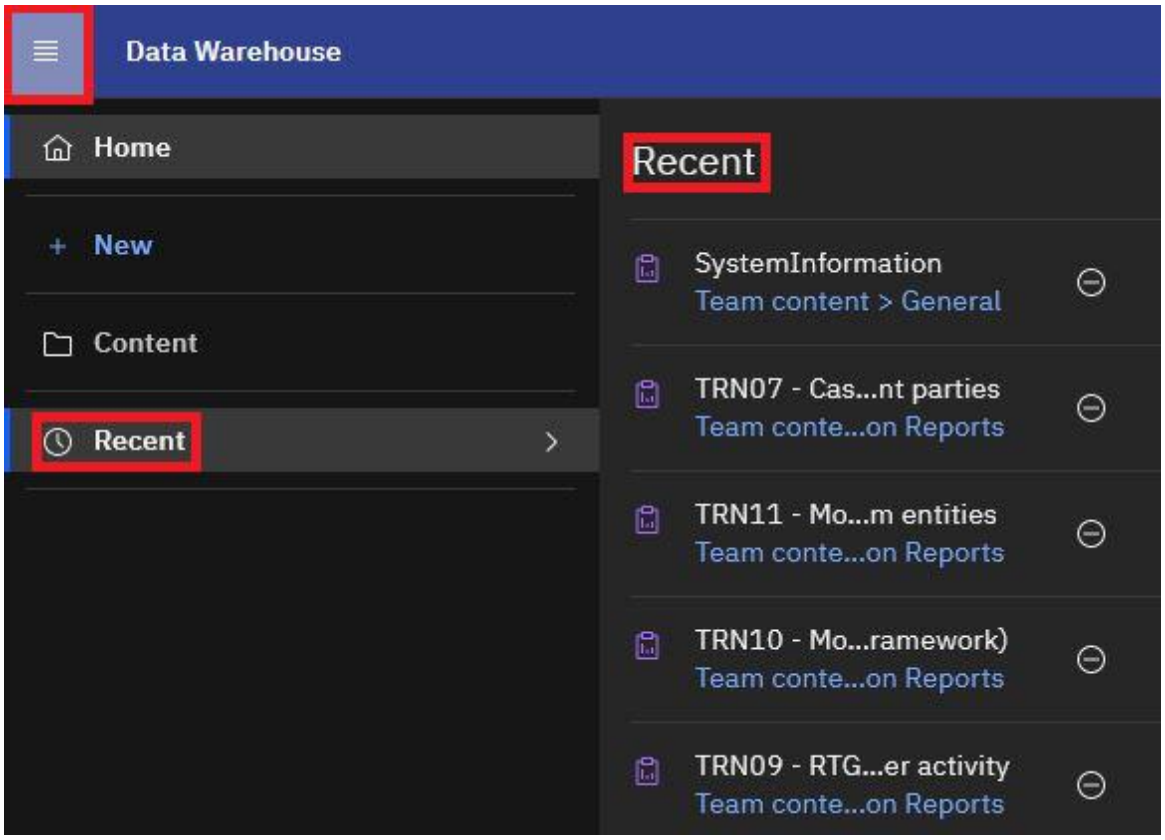

Figure 58 - Welcome page – Recently viewed

3.4.6 New

"**New**" is only visible for CB/CSD users granted with the "**Data Warehouse advanced user**" privilege in CRDM. Only with this privilege it is allowed to create user-defined reports. For more information please refer to chapter Creating reports (just advanced users) [▸ 582].

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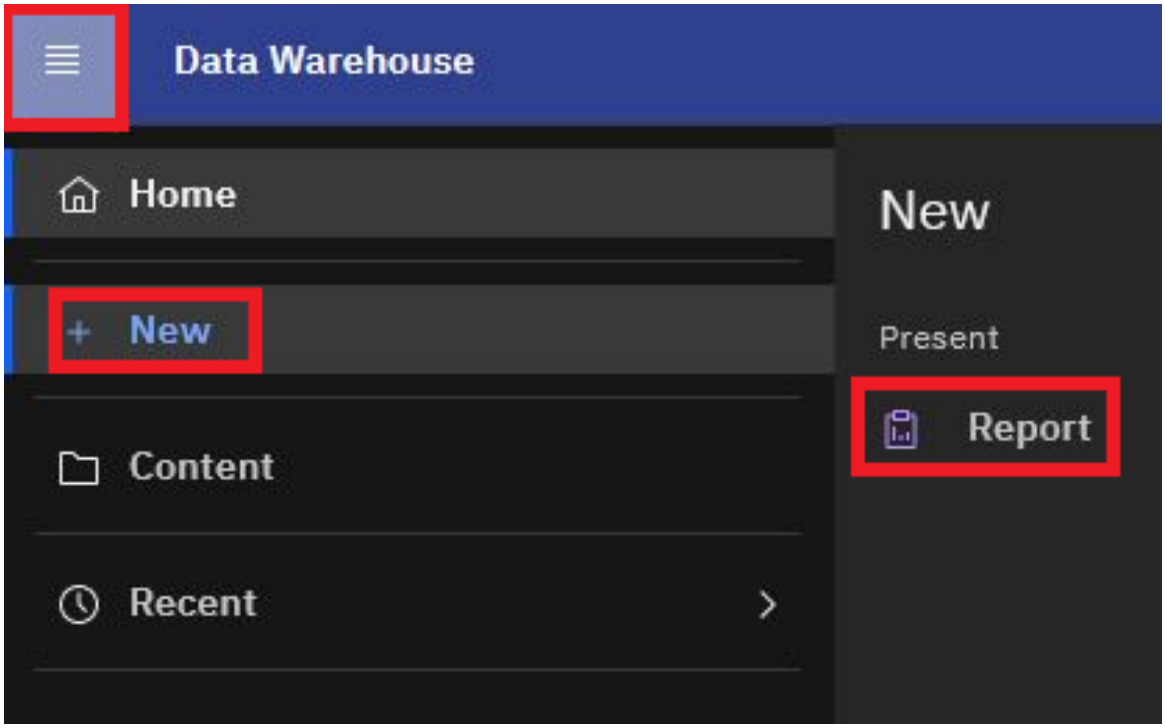

Figure 59 - Welcome page - New

3.5 Personal Folders

3.5.1 Team content

After clicking on the "**Open menu**" icon and then clicking on "**Content**", you will be presented with a screen having two tabs, "**My content**" and "**Team content**". Under "**Team content**", you can find all reports you are allowed to run and view, depending on the party type you belong to. For information about each predefined report and who is allowed to use it, please refer to Predefined reports [154] . For CB/CSD users a specific CB/CSD folder can be found, where CB advanced users can store adapted or user-defined reports and share them with normal users within their CB/CSD. This enables also other users of this CB/CSD with the normal user privilege to execute reports previously designed by an advanced user.

Additionally, the CBs/CSDs shared folder is included in here. With this folder, CBs/CSDs can share adapted or user-defined reports with other CBs/CSDs.

All rights reserved.

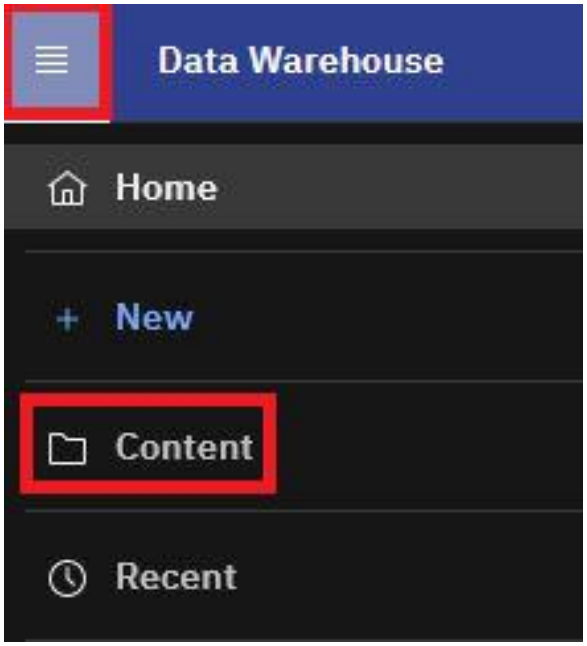

Figure 60 - Welcome page - Team content

You can see the following content within "**Team content**".

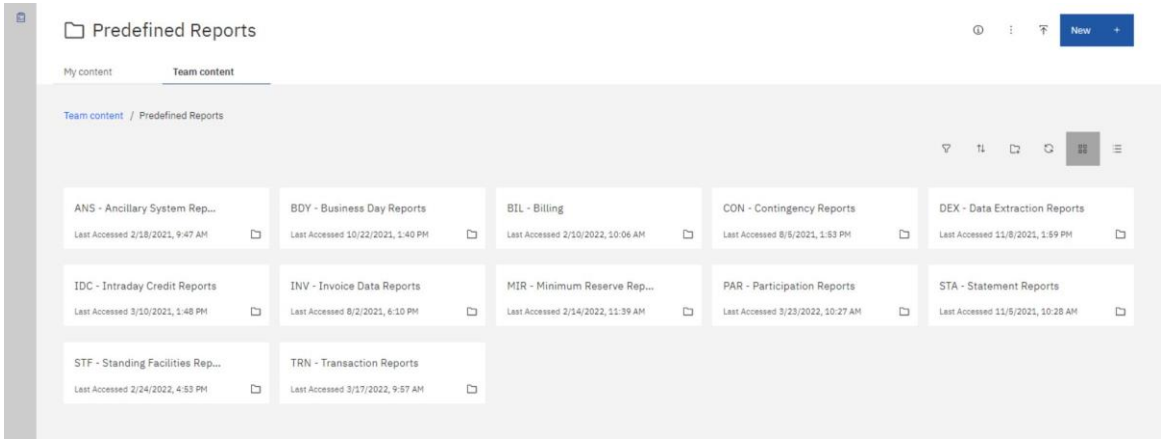

Figure 61 - Welcome page- Team content - folder structure

In case you are a CB/CSD user, you will see this structure in "**Content**":

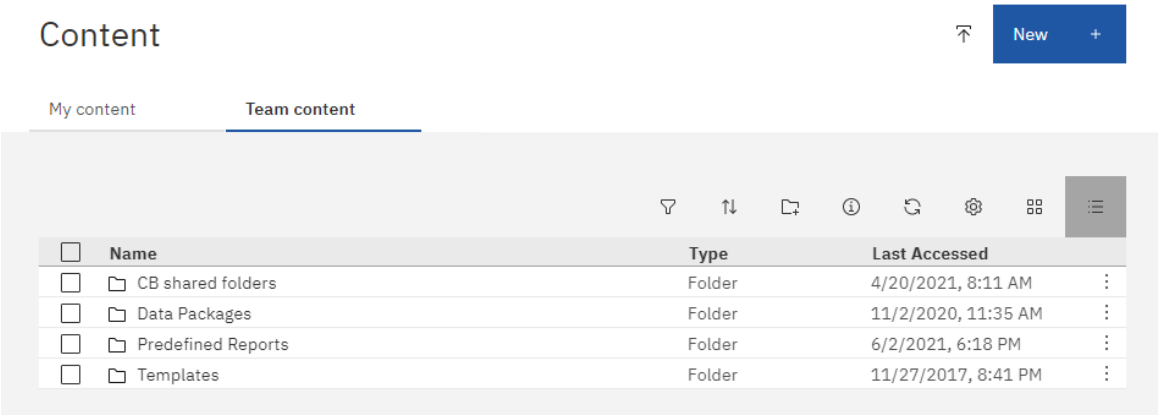

Figure 62 - Welcome page - Team content - folder structure (CB user)

CB shared folders

In the "**CB**" shared folders the CB user can find the folders for sharing reports within its own CB as well as the folder for sharing reports with other CBs. These folders cannot be used to share reports with PBs or AS since the users of these party types do not have visibility of the CB shared folders.

Data Packages

In the "**Data Packages**" folder, you can find the data model that was used to create the reports. This is an information item only (showing the date and time of the last update of the data model).

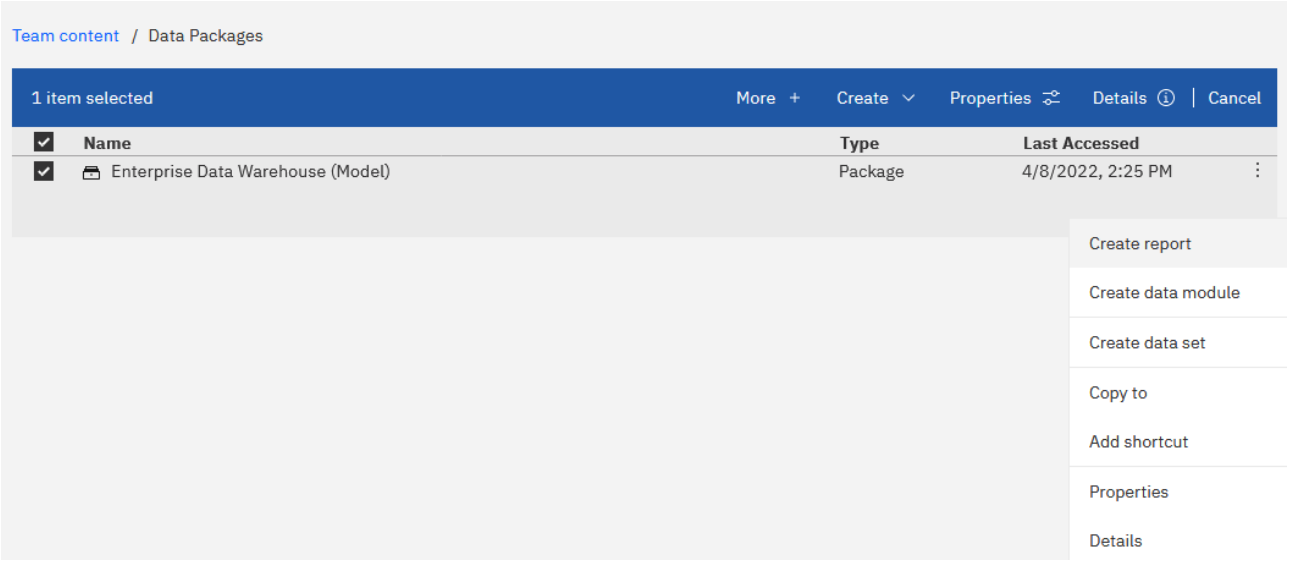

Figure 63 - Welcome page - Team content - Data Packages

Predefined Reports

In the "**Predefined Reports**" folder you can find the subfolders containing the predefined reports.

All rights reserved.

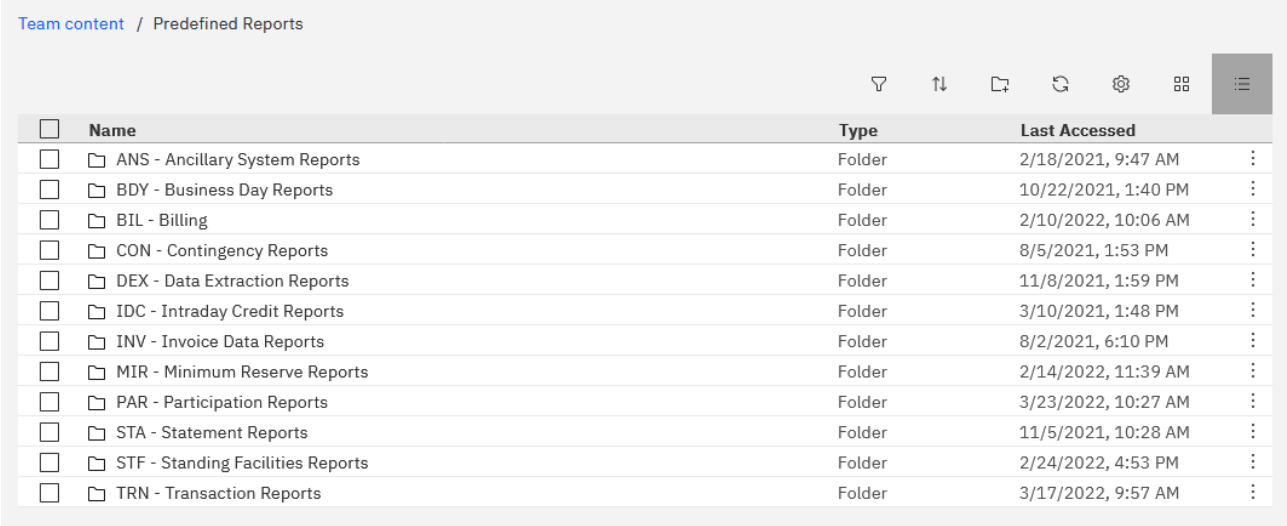

Figure 64 - Welcome page - Team content - Predefined reports

Example

Under "**ANS – Ancillary System Reports**" you can find the predefined reports "**ANS01 – Overview of AS transfer orders**" and "**ANS02 – Daily average of AS transfers**".

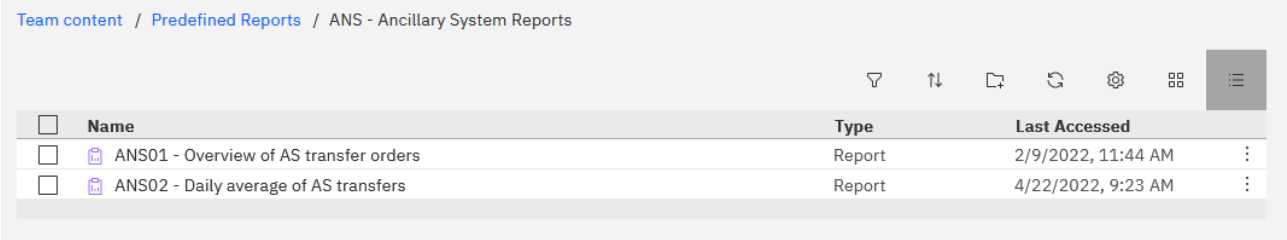

Figure 65 - Welcome page - Team content - Predefined Reports - ANS - Ancillary System Reports

The normal user has the same capabilities, except from the "**Create report**".

3.5.2 My content

This is your private area where only you can see the content that is stored there. At start, the folder is always empty.

All rights reserved.

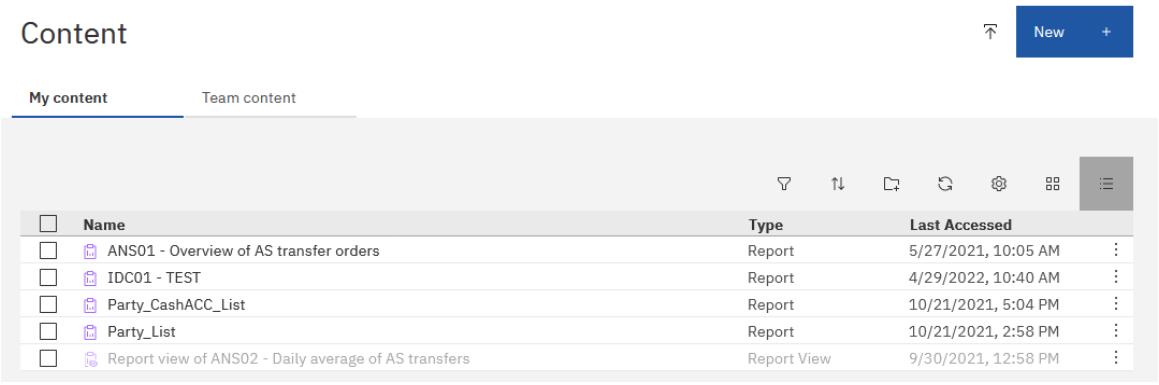

Figure 66 - Welcome page – My content

3.5.3 Add a new folder

Click on the "**Open menu**" icon ( ), click on "**Content**" and then click on "**My content**". In order to create a new folder, click on the "**Add Folder**" icon ( ).

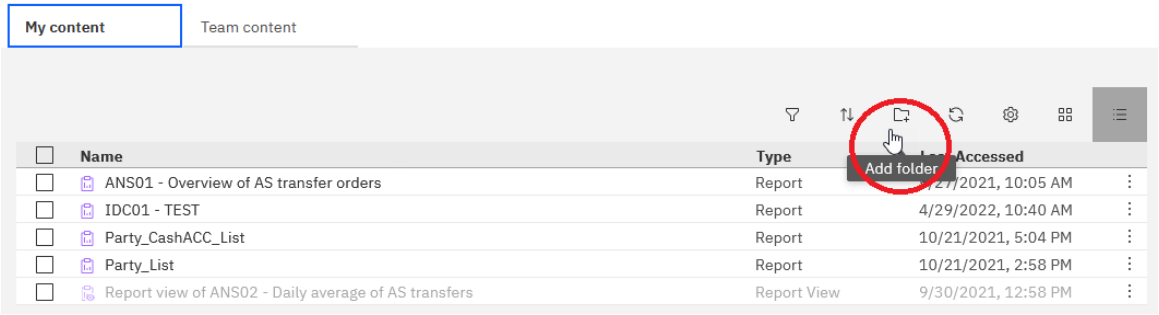

Figure 67 - Welcome page – My content – Add folder

After click on the "**Add Folder**" icon, you must enter a name for the new folder you want to create.

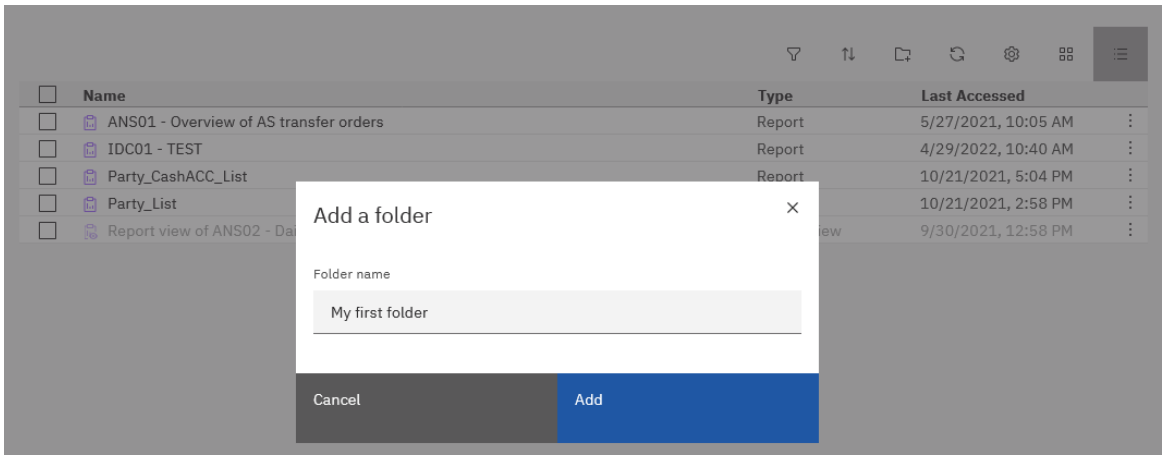

Figure 68 - Welcome page – My content – New Folder (1)

Press “**Enter**” and the new folder is created.

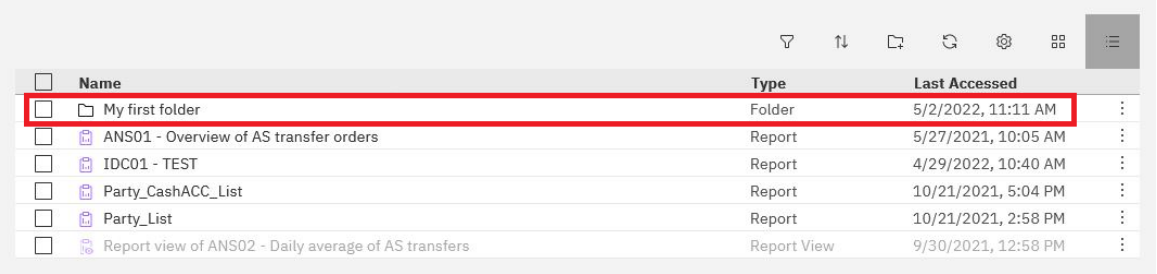

Figure 69 - Welcome page – My content– New Folder (2)

3.5.4 Sort the content

Open “**My content**” or “**Team content**” by clicking on the ”**Open menu**” icon and then clicking on “**Content**”, and click on the “**Sort**” icon in the toolbar. You can sort by name, the latest modification date or type of the content. In addition, you can decide if you want to see the ascending or descending order of your items.

In the following screenshot, the folders are sorted by name in ascending order.

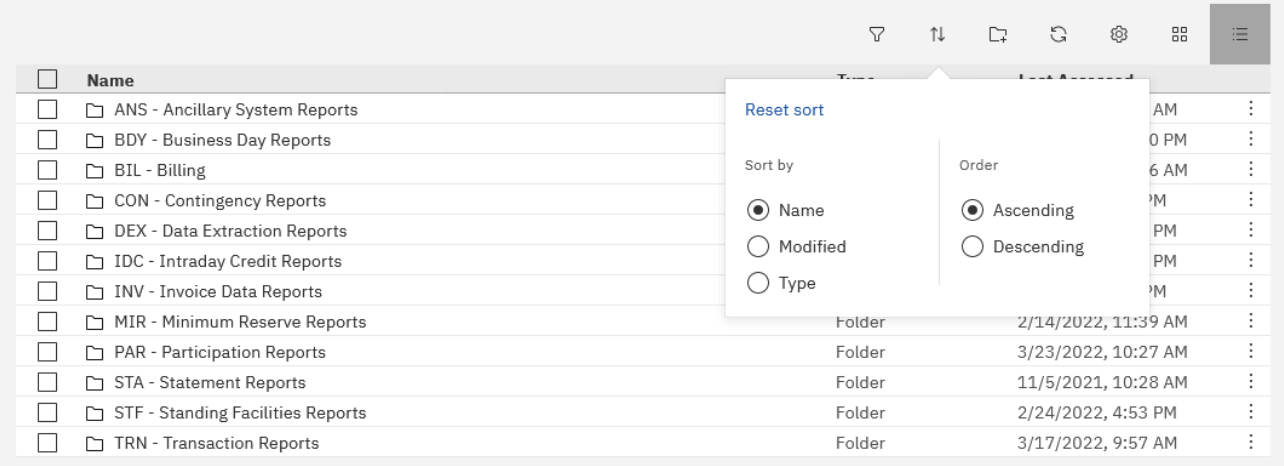

Figure 70 - Welcome page – My content – sort in ascending order

On the contrary, in this screenshot the folders are sorted by name in descending order.

All rights reserved.

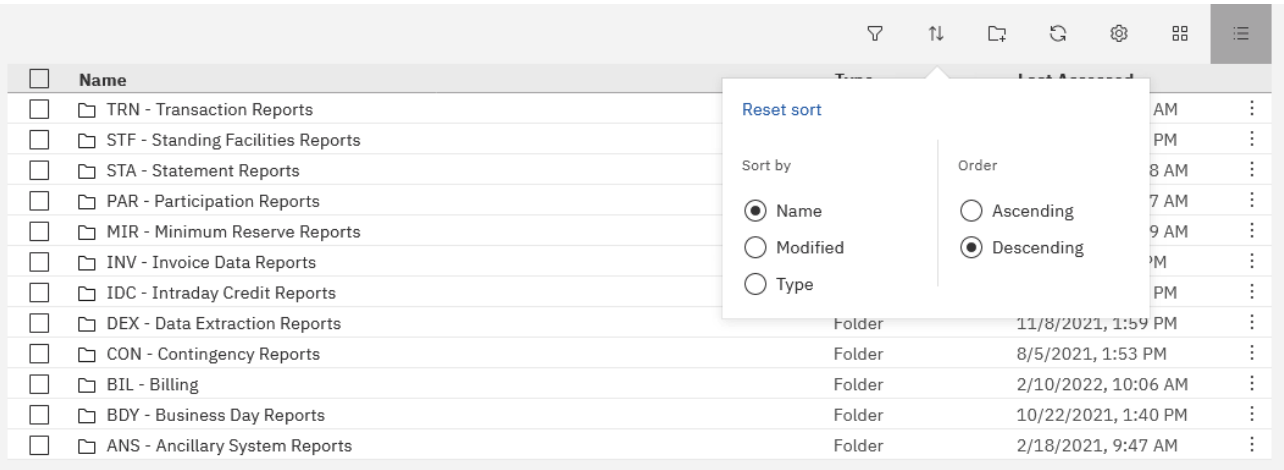

Figure 71 - Welcome page – My content – sort in descending order

3.5.5 Filter the content

Open "**My content**" or "**Team content**" by clicking on the "**Open menu**" icon and then clicking on "**Content**", and click on the "**Filter**" icon in the toolbar. You can choose the type, the modified time or provide one ore multiple keywords of the item you are looking for.

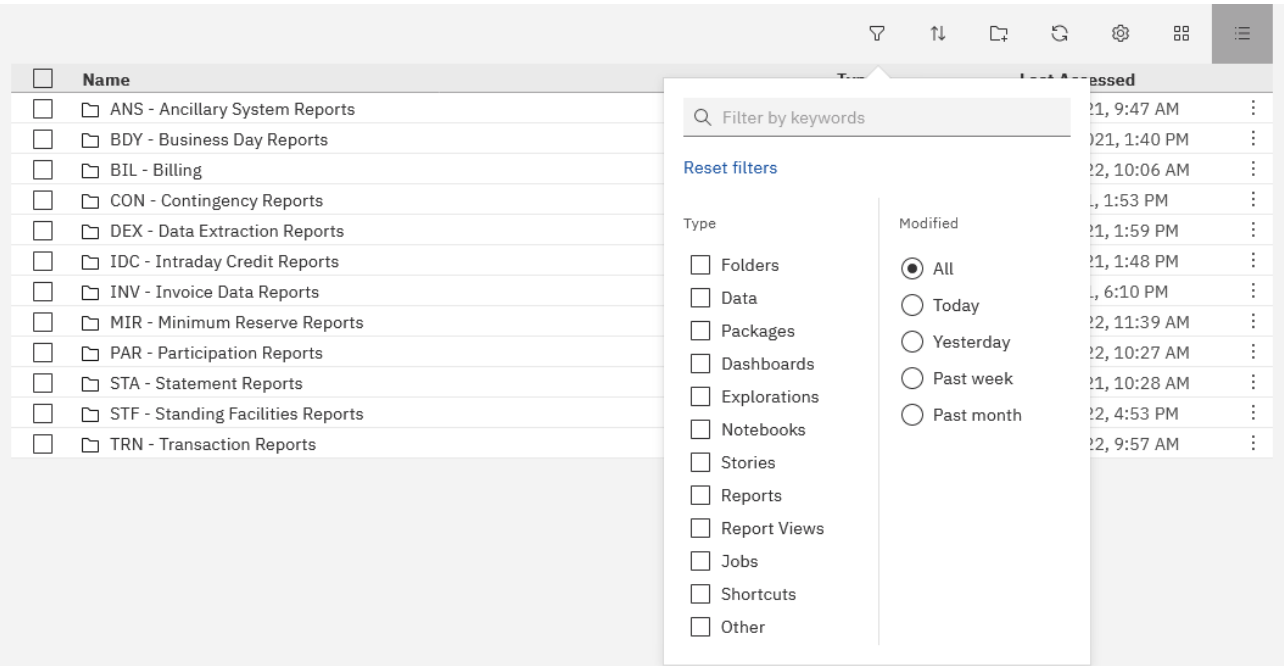

Figure 72 - Welcome page – Team content – Predefined Reports – filter options

Example

You want to search for a folder in combination with a keyword "**ST**". The following result is shown:

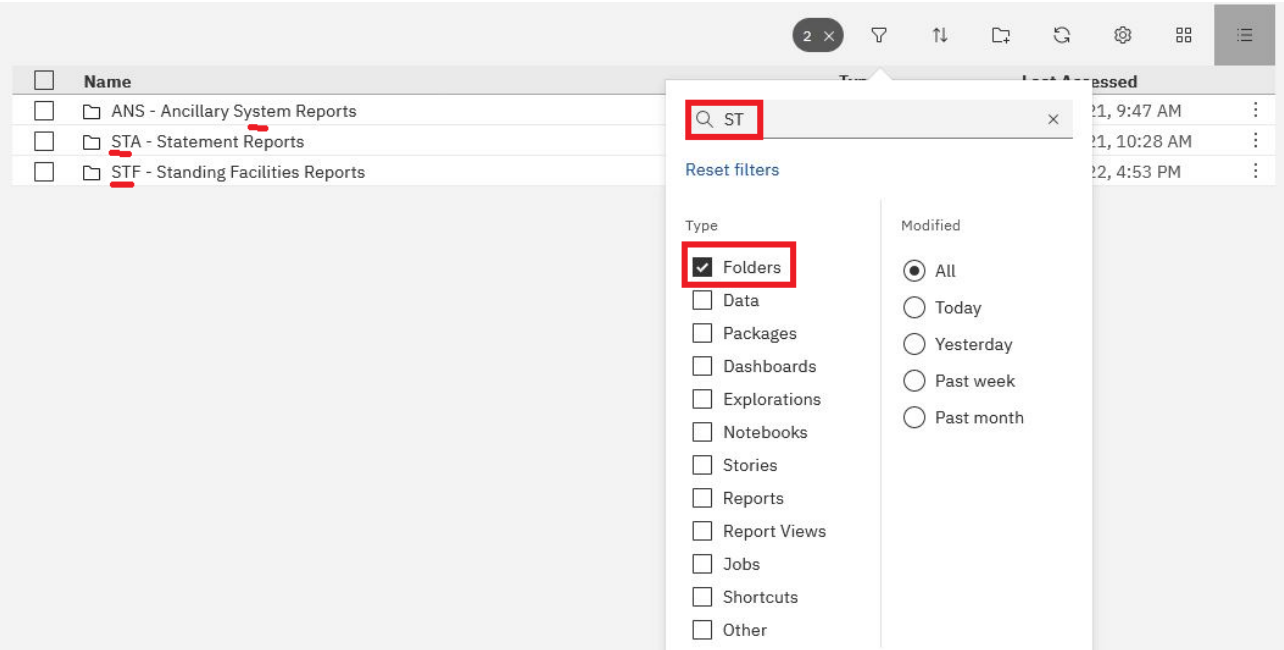

Figure 73 - Welcome page – My content – filter options – filter by folders

4 Working with reports

4.1 Copy, save and export

This chapter gives you a step-by-step description on how to copy the report to your own folder or to save or export the data.

4.1.1 Copy a report

A copy is an independent version of the original report. Any changes to the implementation due to e.g. CRs in the original report will not affect the report results from the copied version. Deleting the original report will not affect the copy. This is the difference to the report view (please see chapter Creating a report view [85]) which remains linked to the original report. You can save a report as a copy in "**My content**" folder, or if the user is a member of a Central Bank or CSD, in the CB/CSD shared folders as well:

Step 1: Navigate to the "**Team content**" folder, open "**Predefined Reports**" and select the folder with the desired report.

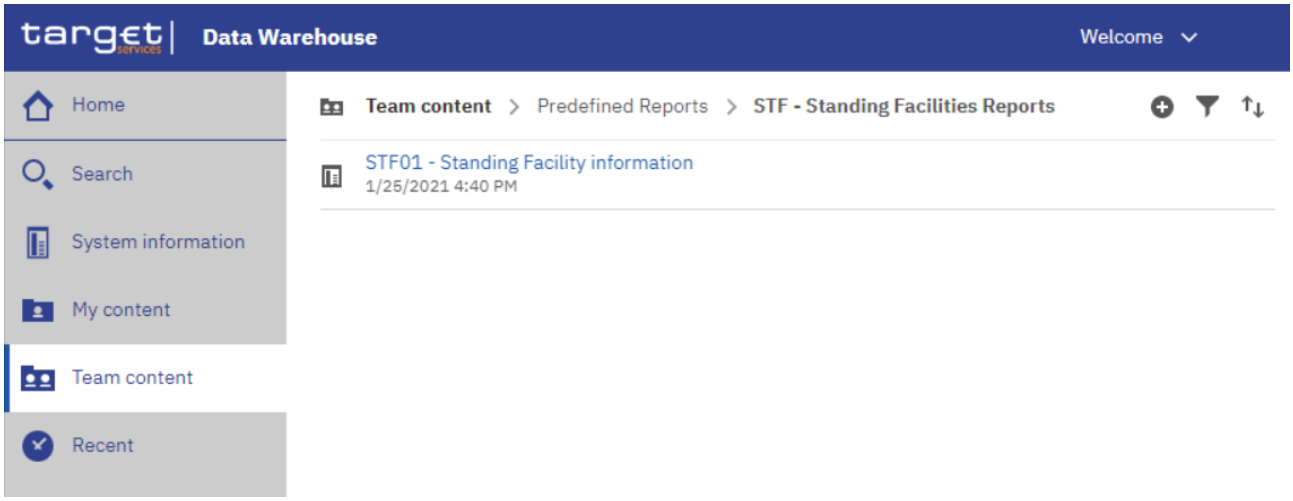

Figure 74 - Team content - Predefined Reports - STF - Standing Facilities Reports

Step 2: Choose the report that should be copied and click on the "**More**" icon (•••) at the right of the report and select "**Copy**".

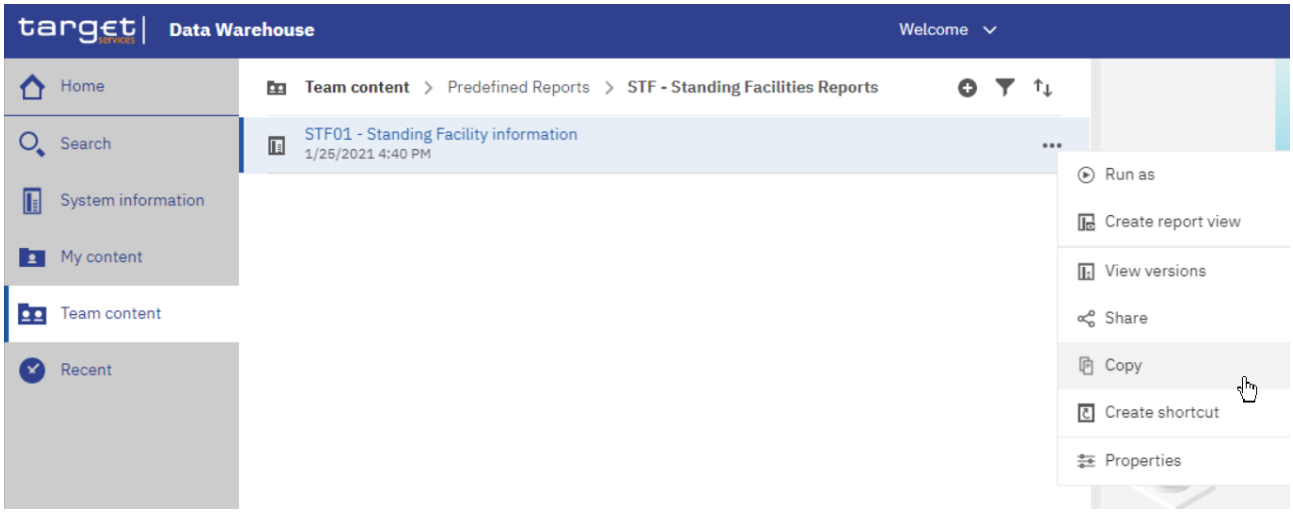

Figure 75 - Team content - Predefined Reports - STF - Standing Facilities Reports – STF01 – Standing Facility information- Copy

Step 3: A window pops up to save the report. You can save the reports in the "**My content**", or in the CB/CSD shared folders, by clicking on the "**Copy to**" button you move a copy of the report to your own working space in the DWH.

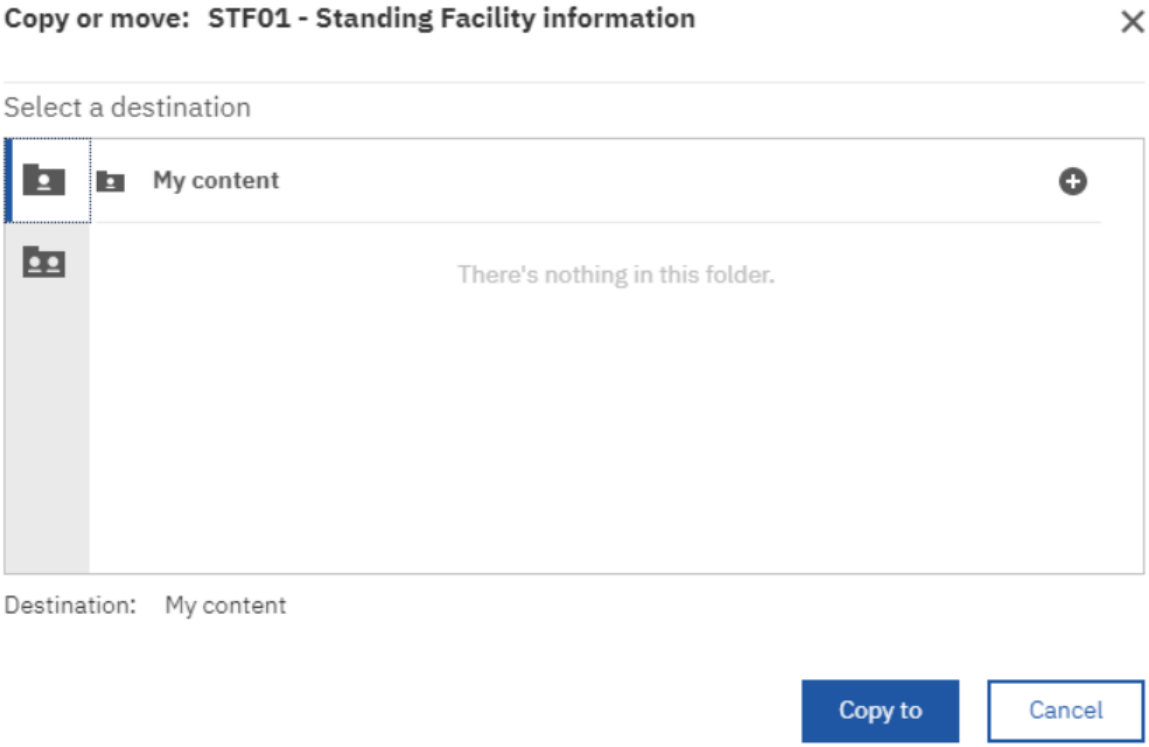

Figure 76 - Team content - Predefined Reports - STF - Standing Facilities Reports – STF0 – Standing Facility information - Copy to

If you are a CB/CSD user with advanced user profile, you can also copy the report into the CB/CSD shared folder or CB/CSD – "**Country code shared**" folder, which can be found in the path: "**Team content**" -> "**CB/CSD Shared folders**". Both folder are only visible for CB/CSD user.

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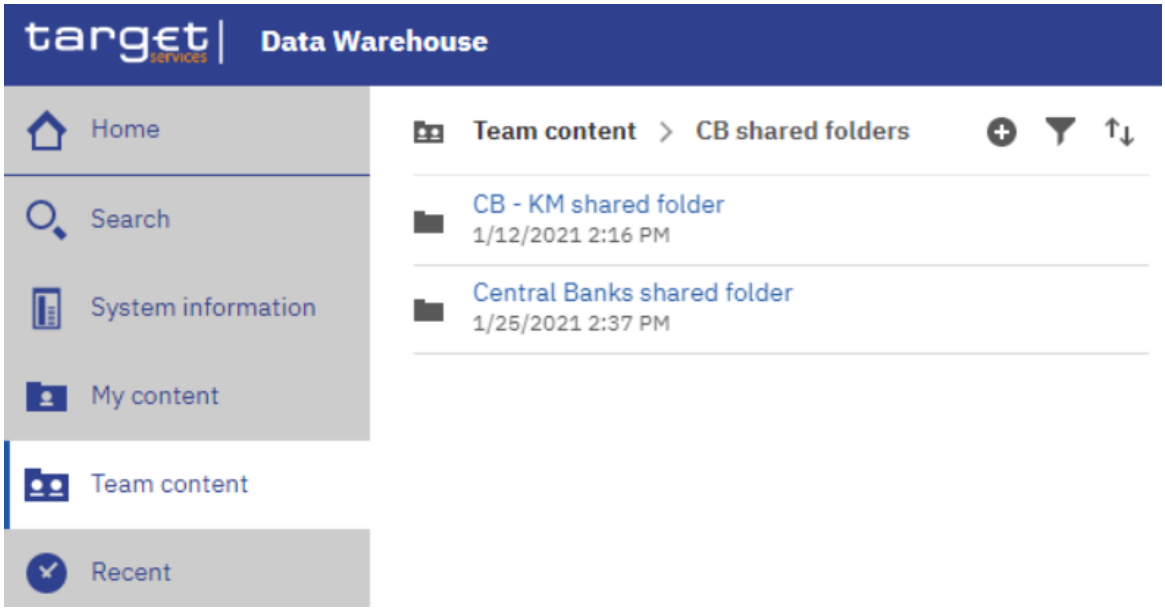

Figure 77 - Team content – CB Shared folders

Step 4: Afterwards you can find the report in the respective folder. In this example in "**My content**".

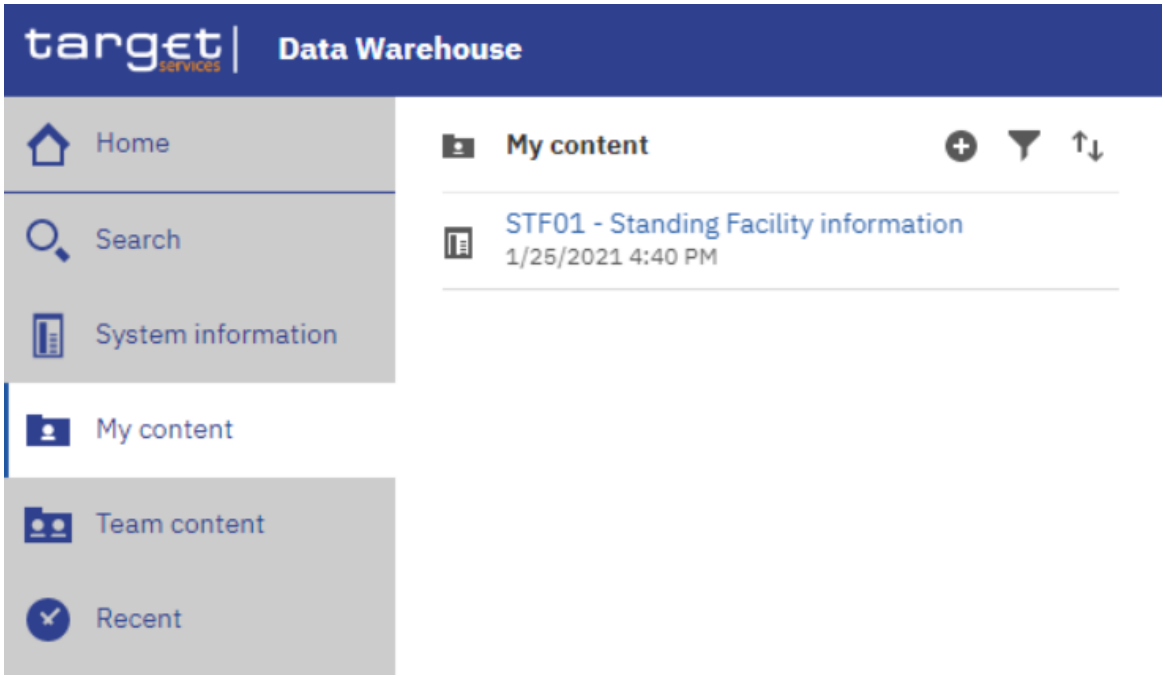

Figure 78 - My content - copied report

4.1.2 Creating a report view

The report view is the same report as the predefined report, but has different properties such as prompt values, schedules, delivery methods, run options, languages, and output formats. A report view is an alias of the original report and remains linked to it. If the source report is moved to another location, the report view link is not broken. If the source report is deleted, the report view link is broken and the properties link to the source

report is removed. In case the report has been changed (e.g. due to a new software release), the user will be prompted with this information. The "**Report view**" icon ( ) changes to indicate that the link is broken and is no longer operable. In order to schedule the run of a report (see chapter Scheduling reports [▶ 116]), you have to create a report view first. These steps have to be executed in order to create a report view of the chosen report:

Step 1: Navigate to the "**Team content**" folder, open "**Predefined Reports**" and select the folder with the desired report.

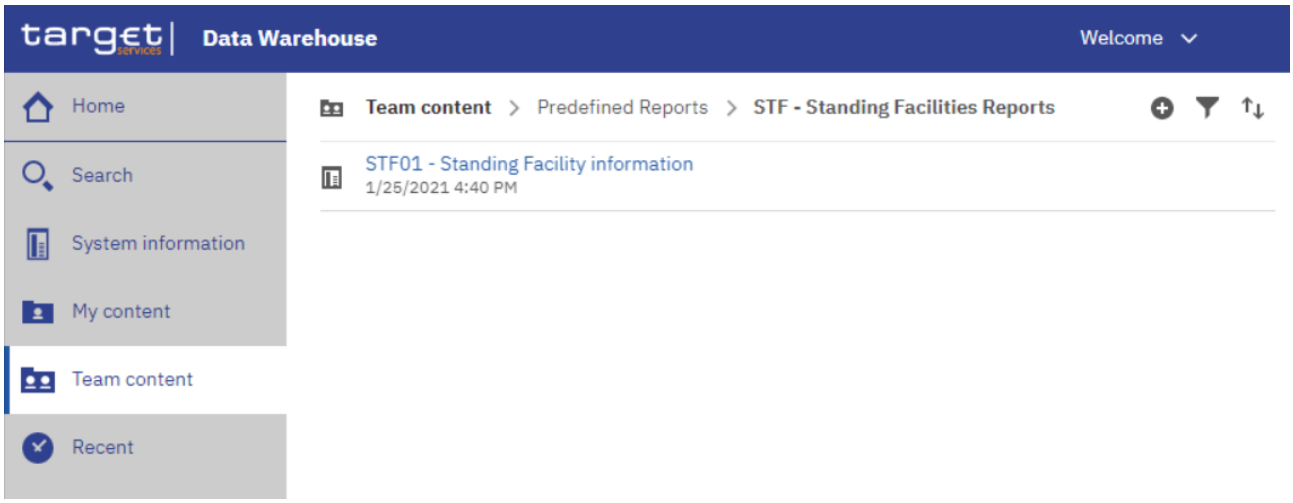

Figure 79 - Team content - Predefined Reports - STF - Standing Facilities Reports

Step 2: Choose the report for that a view should be created and click on the "More" icon ( ) at the right of the report and select "Create report view".

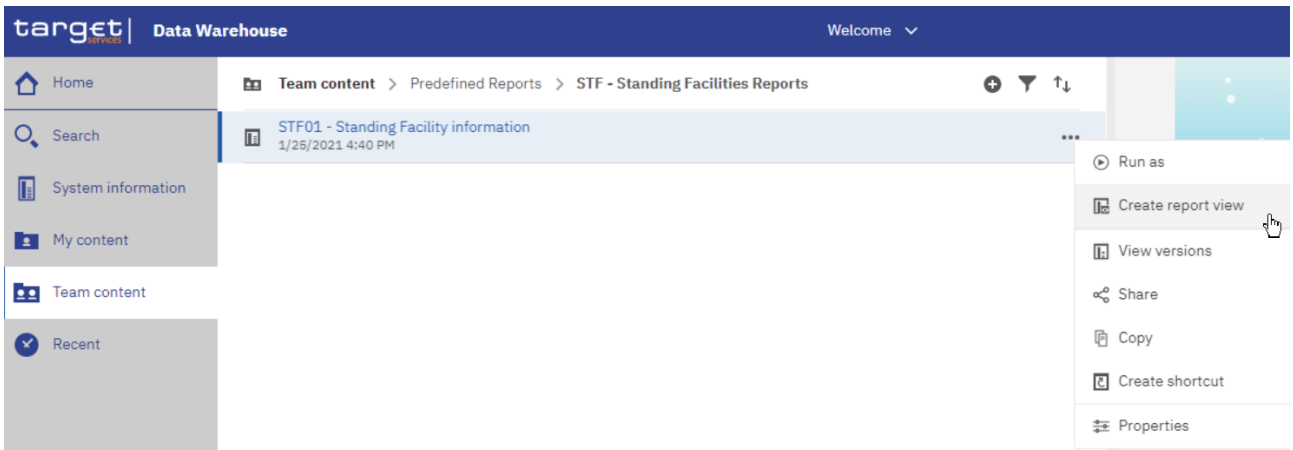

Figure 80 - Team content - Predefined Reports - STF - Standing Facilities Reports – STF01 – Standing Facility information - Create report view

Step 3: A pop up window opens and you can save the report view in "**My content**" after entering a name and by clicking on the "**Save**" button.

If you are a CB/CSD user, you can also save the report view into the CB/CSD shared folder or CB/CSD – "**Country code**" shared folder, which can be found in the path: "**Team content**" -> "**CB/CSD Shared folders**".

All rights reserved.

Step 4: You can find the report view in the respective folder. In this example in “**My content**”.

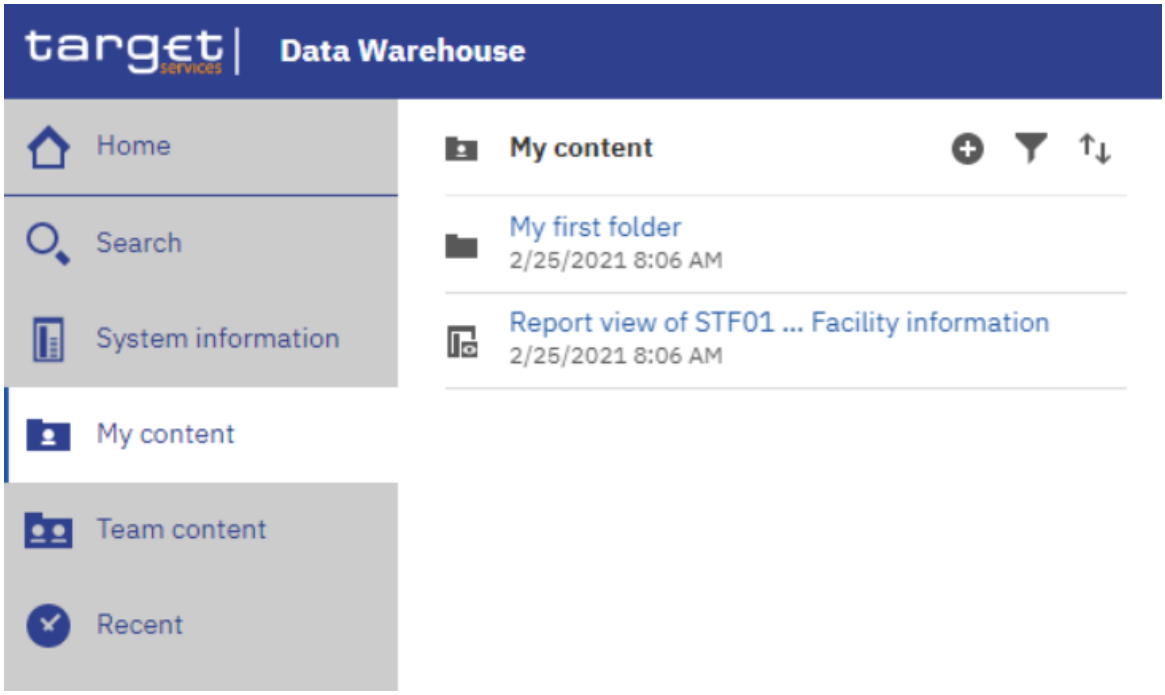

Figure 81 - My content - report view

Step 5: You can determine the source report for a report view by clicking on the properties.

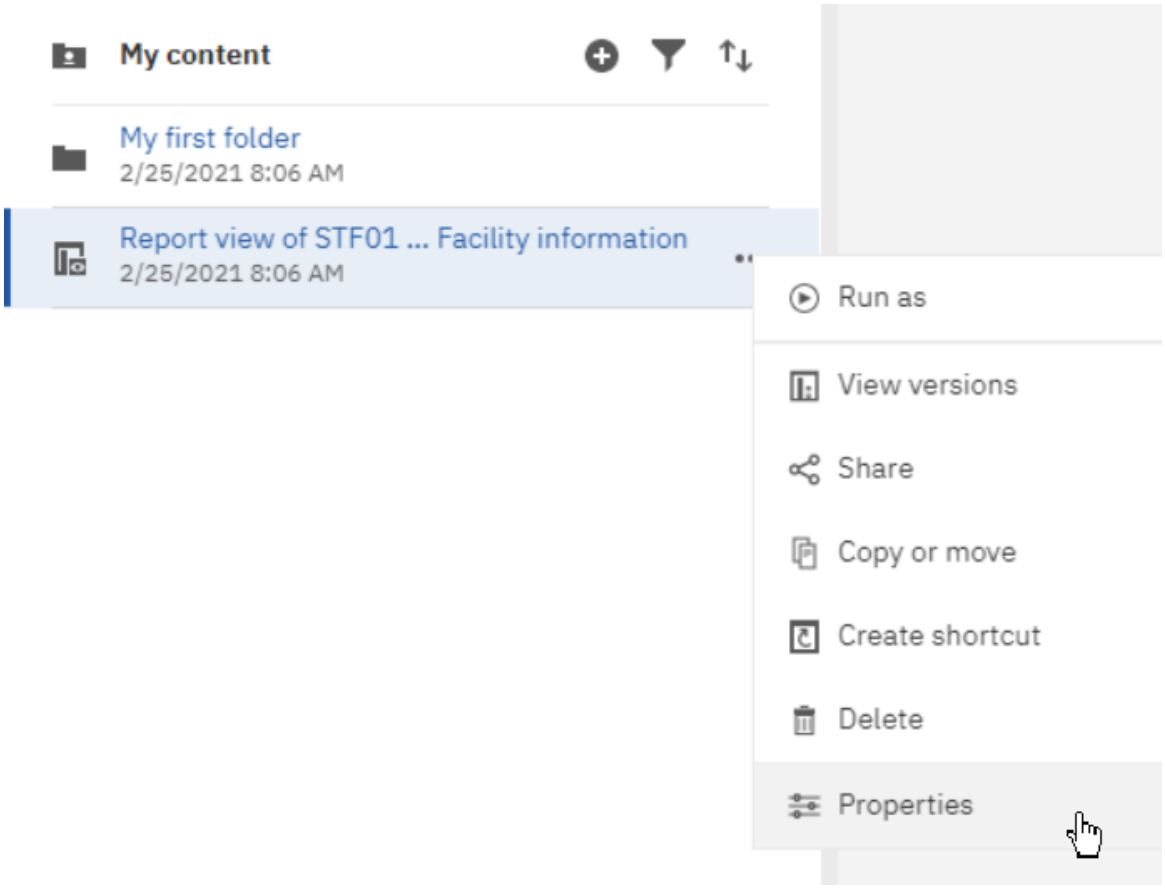

Figure 82 - My content - report view - Properties

Step 6: Scroll down to "**General**".

The report view properties also provide a link to the properties of the source report.

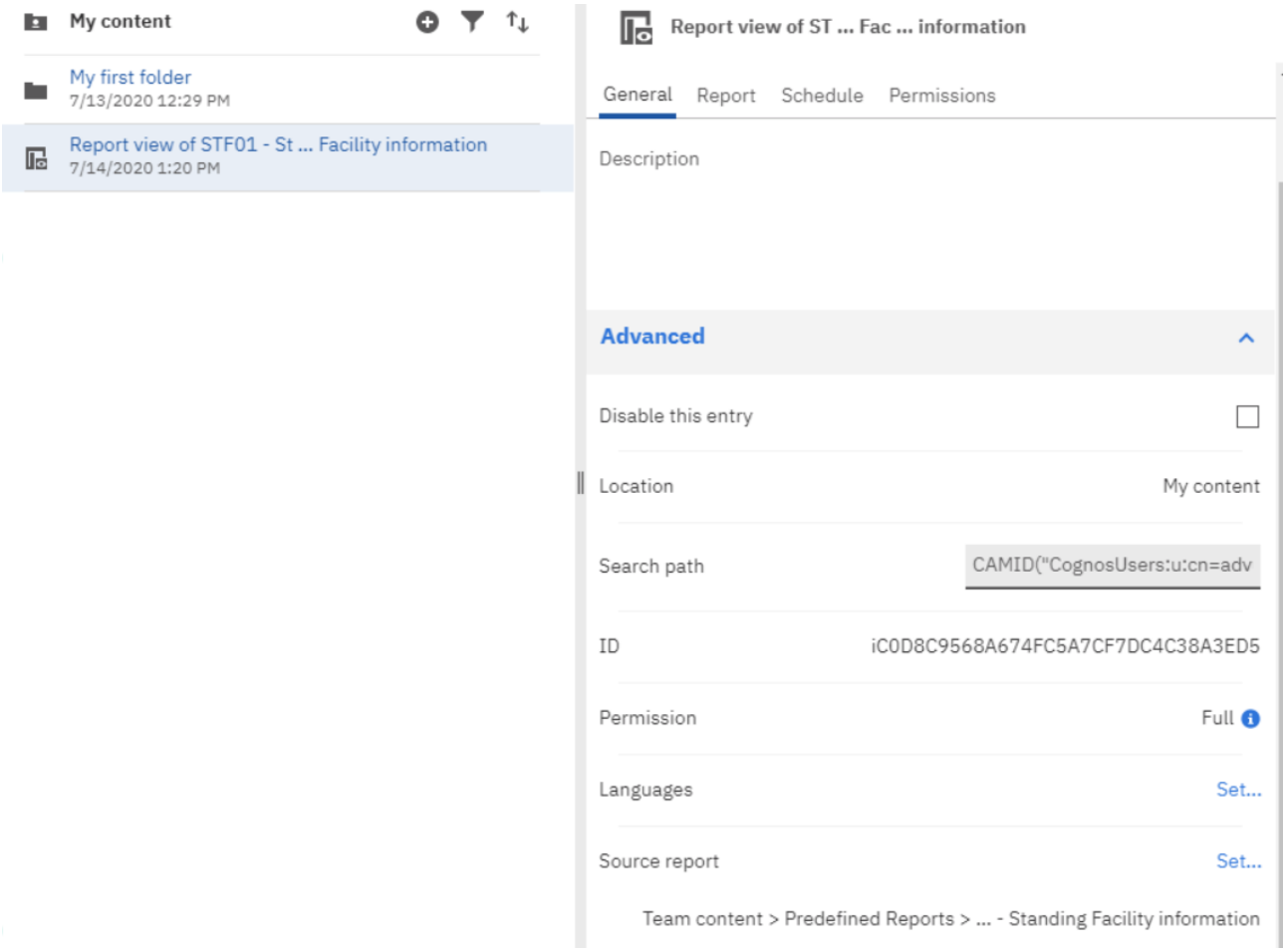

Figure 83 - My content - report view - Properties - Source report

When the source report is deleted, the report view title is greyed and the link to the source report is missing in the properties:

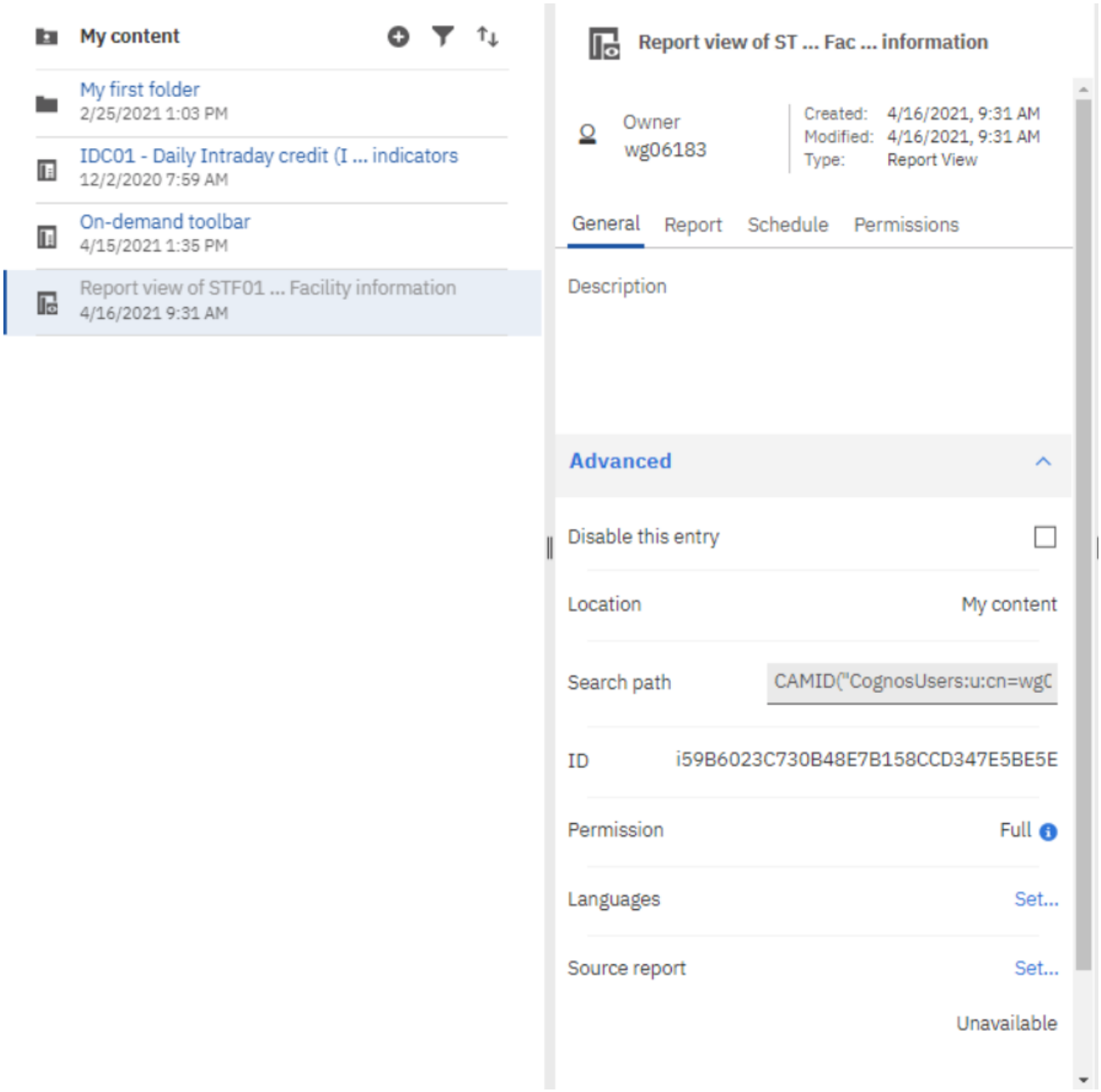

Figure 84 - My content - report view - Properties - Source report deleted

In case there is a change in the report content and you have created a report view then you will be notified if you have activated the 'notify me' option previously. Please see details on Notifications in the chapter Personal menu [▸ 50].

4.1.3 Saving a report output

You can save the report output (meaning the result of the run of a report, please see chapter Running reports [▸ 95]) in DWH for future uses by creating a report view first.

Step 1: Create a report view as described in chapter Creating a report view [▸ 85].

Step 2: Navigate to the folder containing the report view you have created.

Step 3: Run the report as described in chapter Run a report step-by-step [▶ 95].

Step 4: You can view the output by clicking on the “More” icon (•••) next to the report in “My content”.

Step 5: Select “**View versions**”.

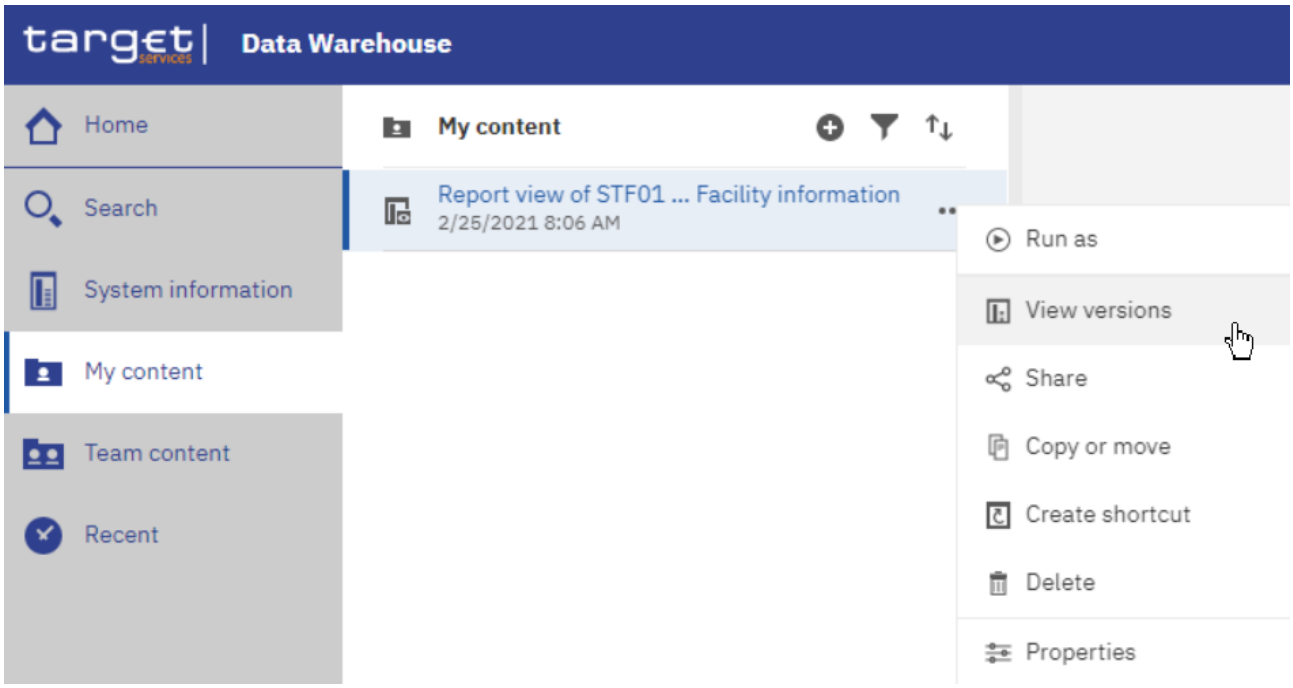

Figure 85 - My content - report view - View versions

Step 6: Versions opens, where you can find the report output with the date and time of the execution.

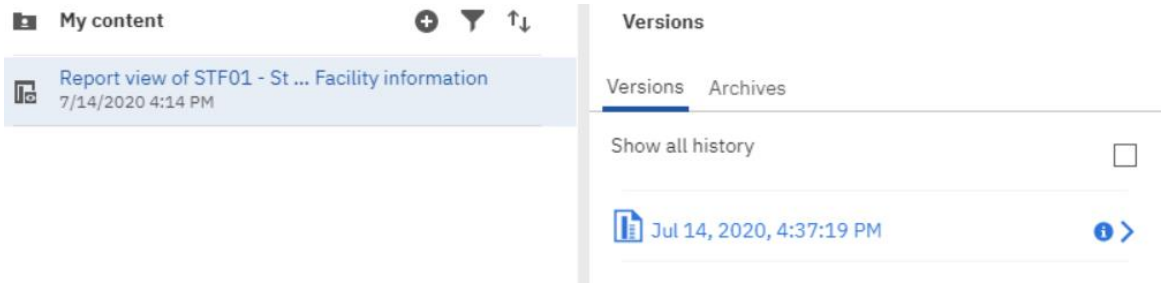

Figure 86 - My content - report view - View versions - Versions

Step 7: Click on the version.

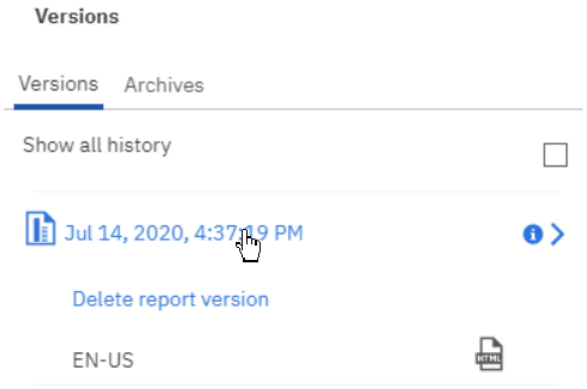

Figure 87 - My content - report view - View versions - Version - report output

Step 8: You can click on the report name and either delete this version or view the outcome by clicking on the "**Format**" icon ( ) of the report.

4.1.4 Exporting a report to a local folder

You can export a report in CSV, Excel, Excel Data, PDF and XML format. Therefore, you have to navigate to the folder of the desired report.

Step 1: Choose the report you want to export and click on the "More" icon ( ) in the right of the report name.

Step 2: Select "**Run as**" from the list.

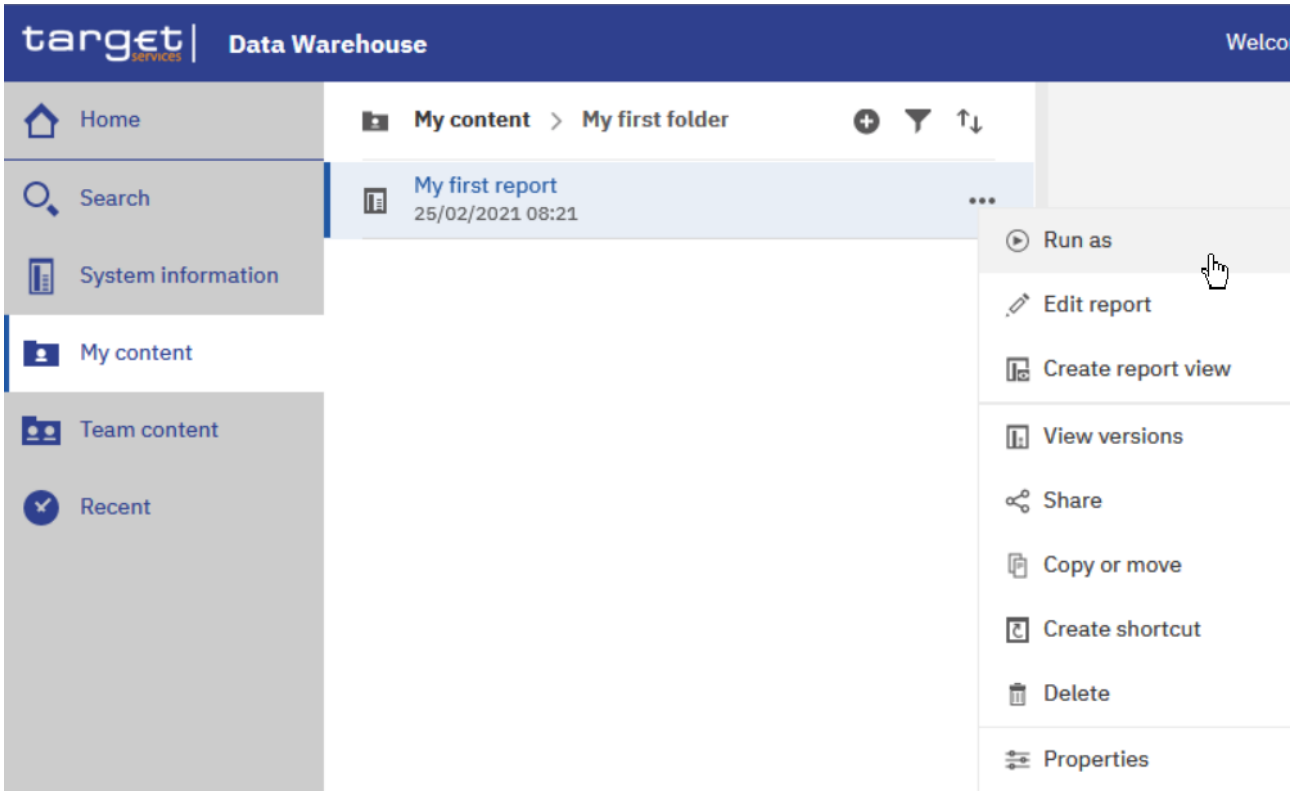

Figure 88 - Welcome page - My content - Properties

Step 3: Select the desired format.

Step 4: Enter the selection criteria of the report (see chapter Run a report step-by-step [▶ 95]).

Step 5: Click on the "**Run**" button ( ).

Step 6: After clicking on the "**Run**" button ( ) a pop-up window appears to save the report. You can download a report in CSV, Excel, Data, PDF and XML format.

Step 7: The download option depends on the chosen format and the functionality of the browser you are using. In most browsers you can define, whether certain file types should be opened in the browser, a save dialog is shown or the file is directly downloaded to the default download directory. Please be aware that these settings have to be done in the browser, not in the DWH GUI.

For example, if you choose to run the report as 'XML', then you cannot view the result, but only download the report in a local folder.

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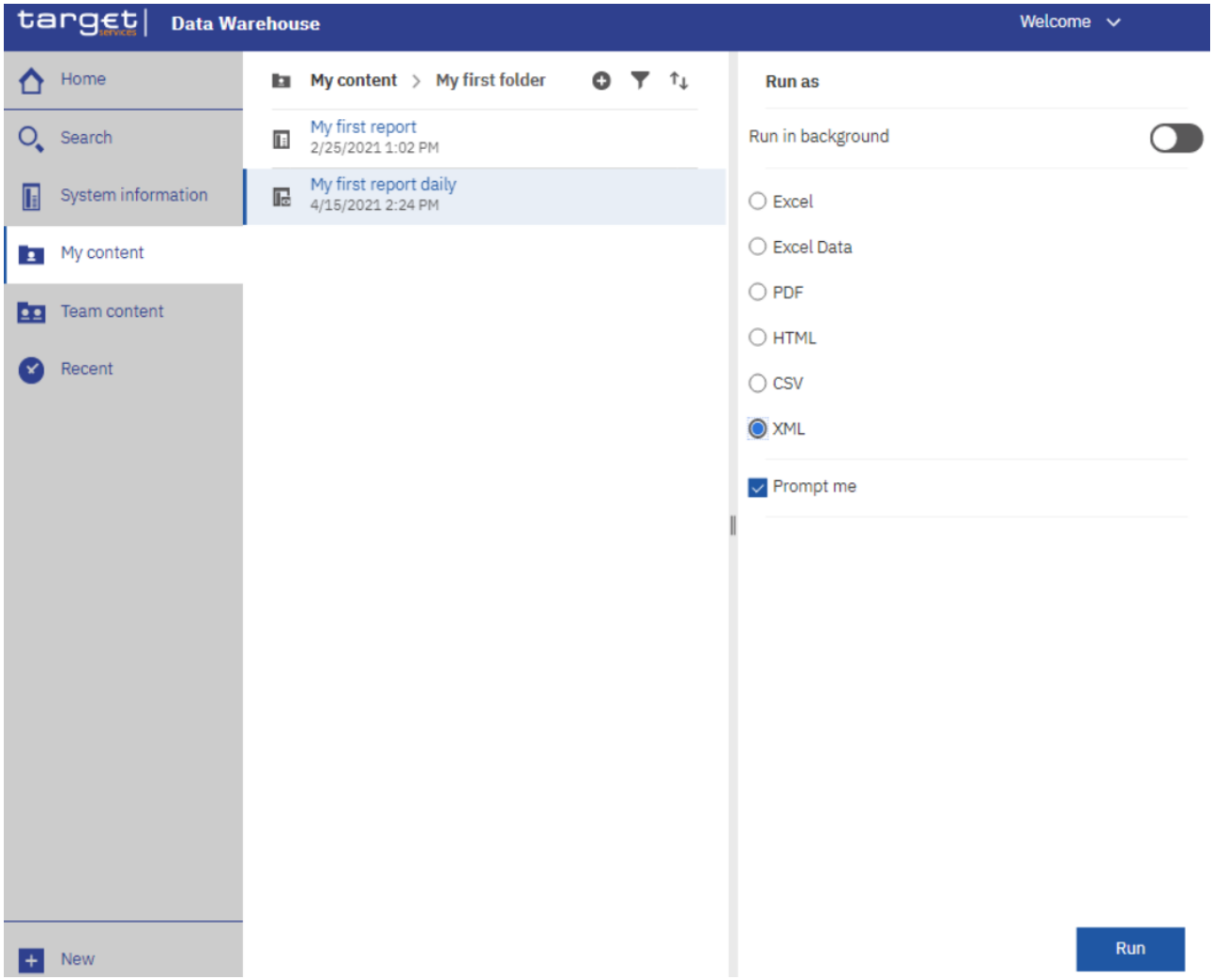

Figure 89 - Welcome page - My content – Run as XML

A pop up window appears to save the report:

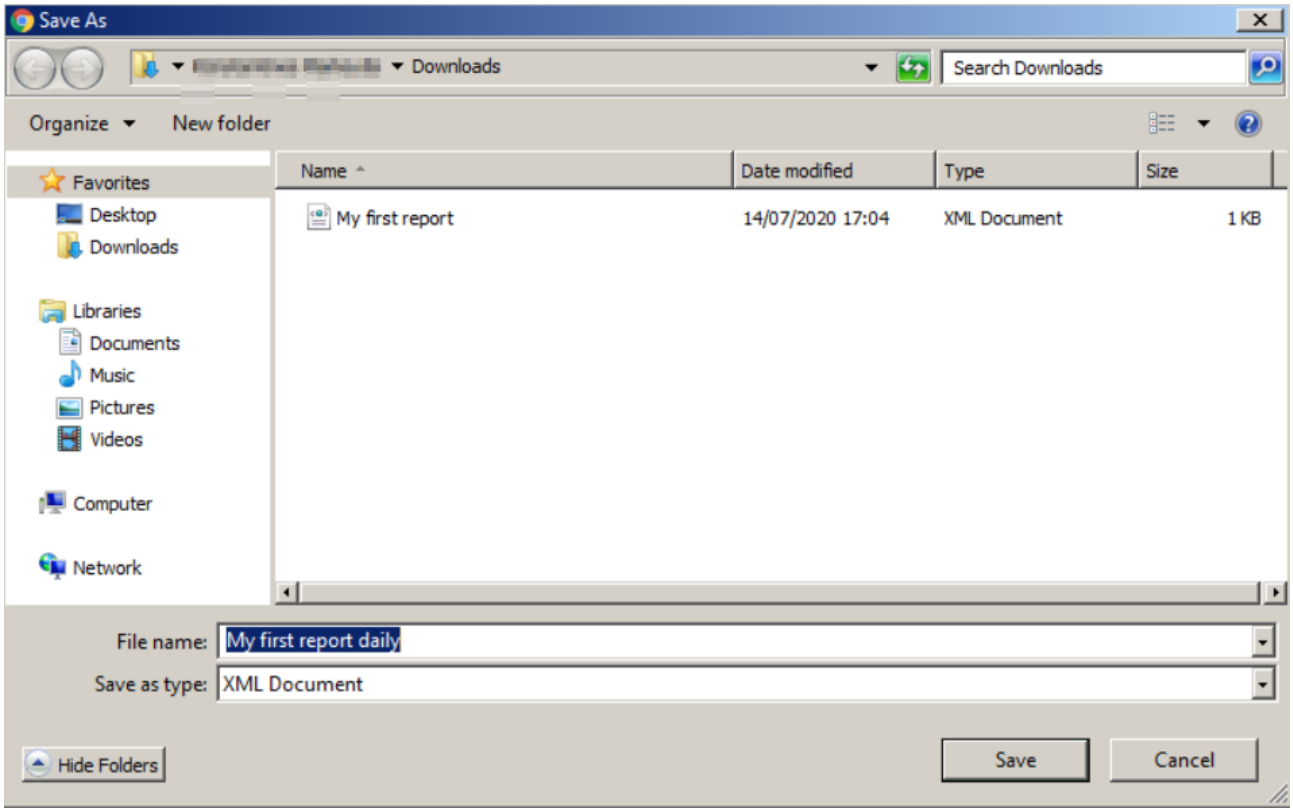

Figure 90 - Save Report

Please refer to the user manual of your browser for details and options.

4.2 Running reports

This chapter gives you an overview about how to run a report and organise its delivery.

4.2.1 Run a report step-by-step

Step 1: Navigate to the “**Team content**” folder, there to folder “**Predefined Report**” and open the folder with the desired report.

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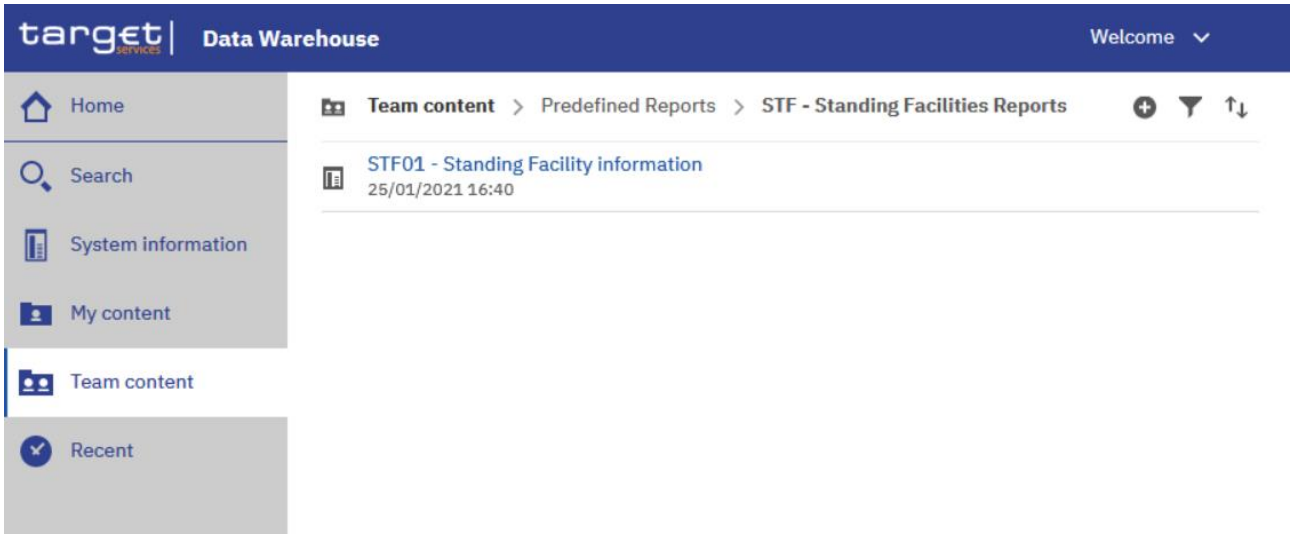

Figure 91 - Team content – Predefined Reports – STF – Standing Facilities Reports

Step 2: Select the report you want to run. In order to run the report you can click on the report name. This action will run the report in the default DWH format, which is HTML.

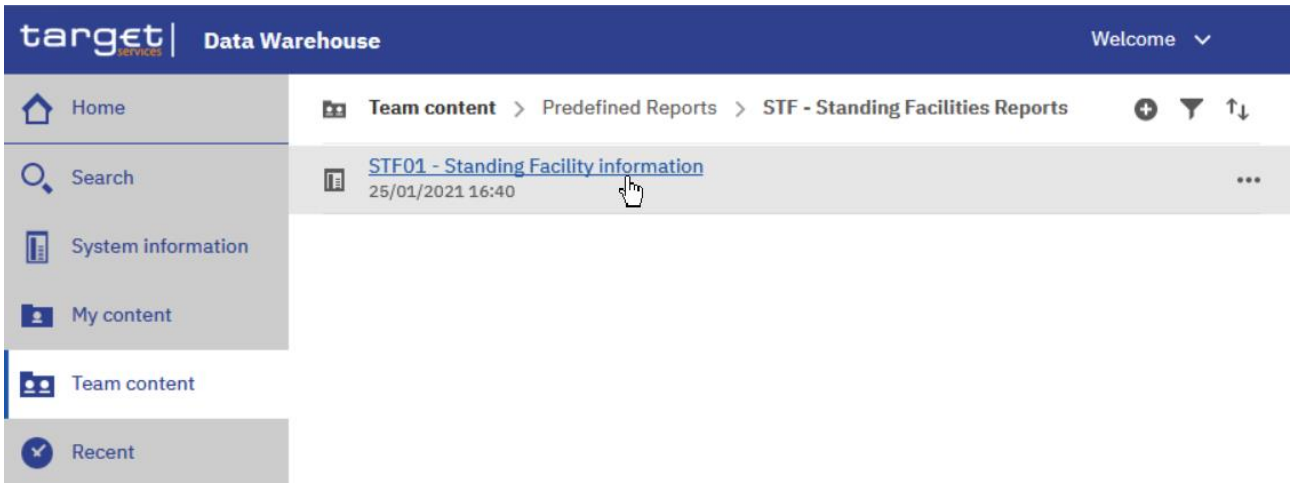

Figure 92 - Team content – Predefined reports – STF – Standing Facilities Reports

Step 3: In the following screen you have to enter the search criteria in the prompt page.

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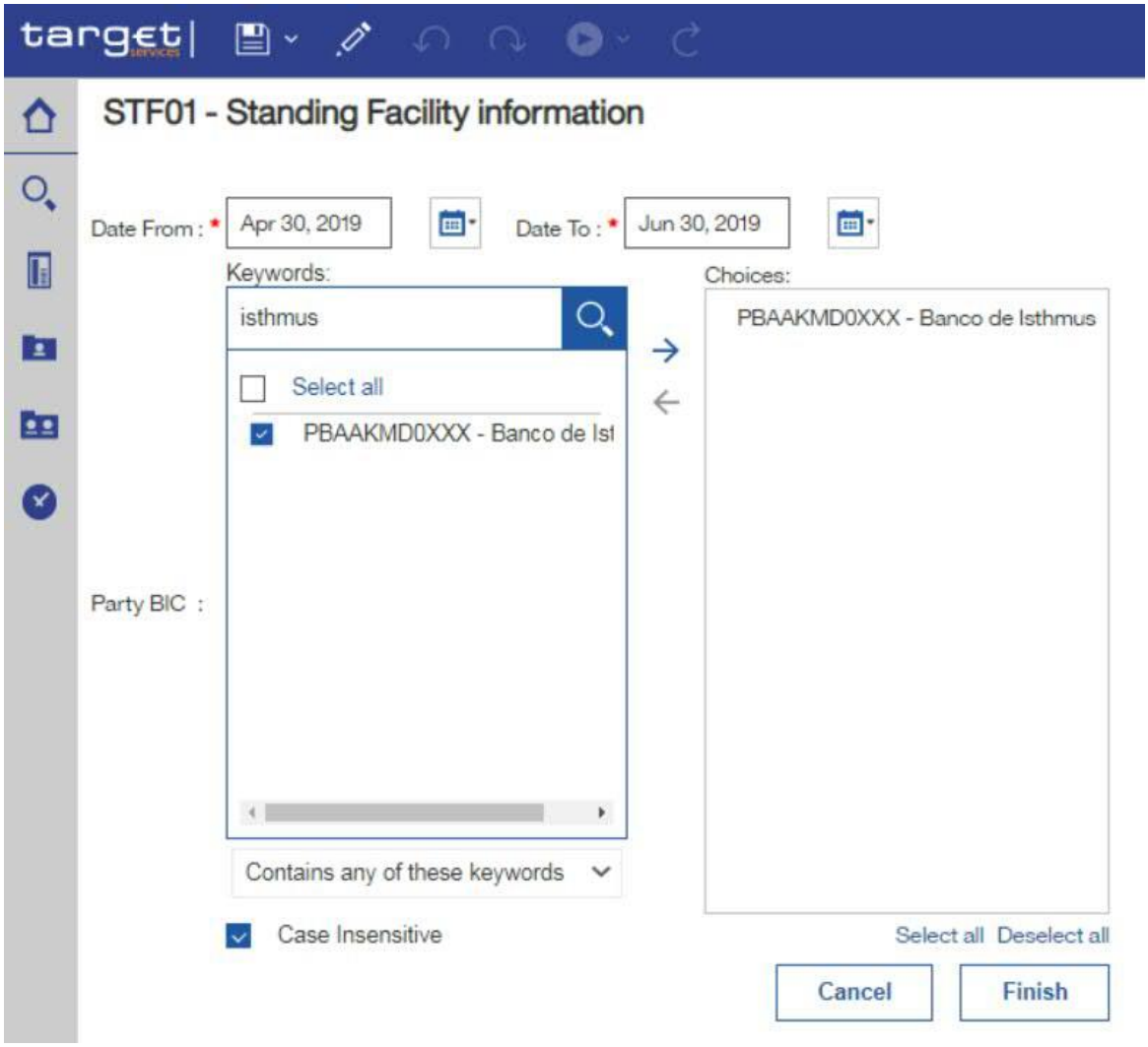

Figure 93 - Standing Facilities Reports – STF01 Standing Facility information – prompt page

Step 4: The report result is available in HTML format.

4.2.1.1 Choose different formats

If you want to run the report and DWH shall provide the result in another format than HTML you have to click on the "**More**" icon (•••) on the right side.

~~Please note, that when choosing 'XML', 'Excel Data' or 'CSV' as format for reports having more than one list/page as report output, only the first is exported in the chosen format. Furthermore, header and footer areas including prompt/filter information are not exported to XML, and CSV formats.~~

~~CSV issue affects all reports with multiple tables as it is a limitation of COGNOS.~~

~~All other formats are uniform.~~

~~Reports with CSV limitations:~~

~~BDY01~~
~~BIL01~~
~~BIL02~~
~~BIL03~~
~~CON01~~
~~IDC01~~
~~IDC02~~
~~IDC03~~
~~IDC04~~
~~IDC06~~
~~MIR01~~
~~PAR02~~
~~PAR03~~
~~STF01~~
~~TRN01 - Details screen~~
~~TRN04~~
~~TRN05~~
~~TRN07~~
~~TRN08~~

All rights reserved.

~~TRN09~~
~~TRN10~~
~~TRN11~~ **{CR-173}**

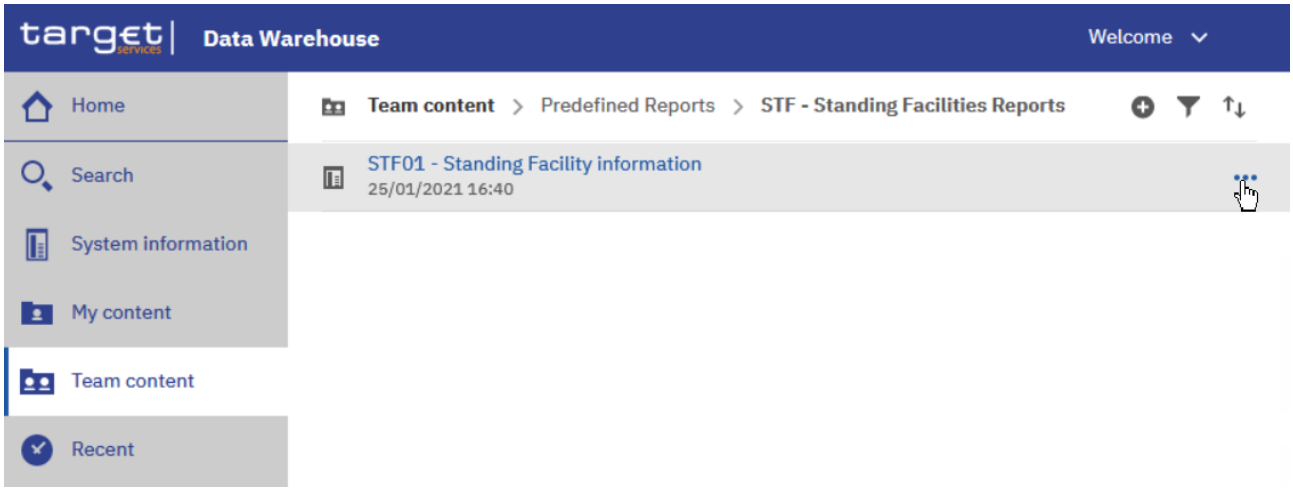

Figure 94 - Team content – Predefined Reports – STF – Standing Facilities Reports

Select "**Run as**" from the list.

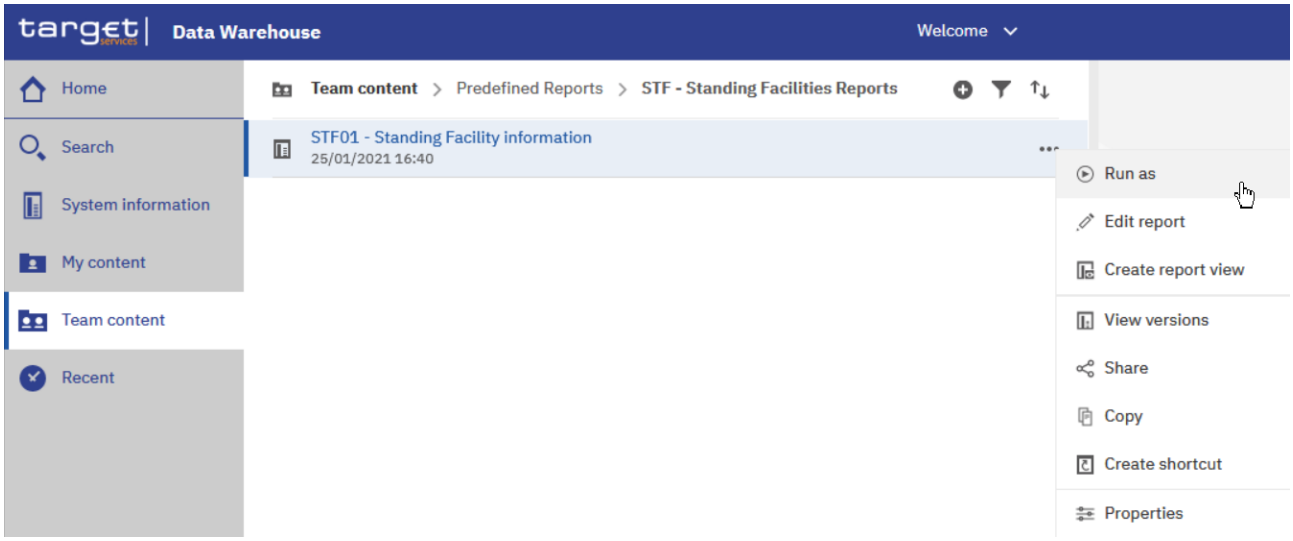

Figure 95 - Team content – Predefined Reports – STF – Standing Facilities Reports – STF01 Standing Facility information – Run as (1)

You can choose the format you want to receive the report result and click on "**Run**" button.

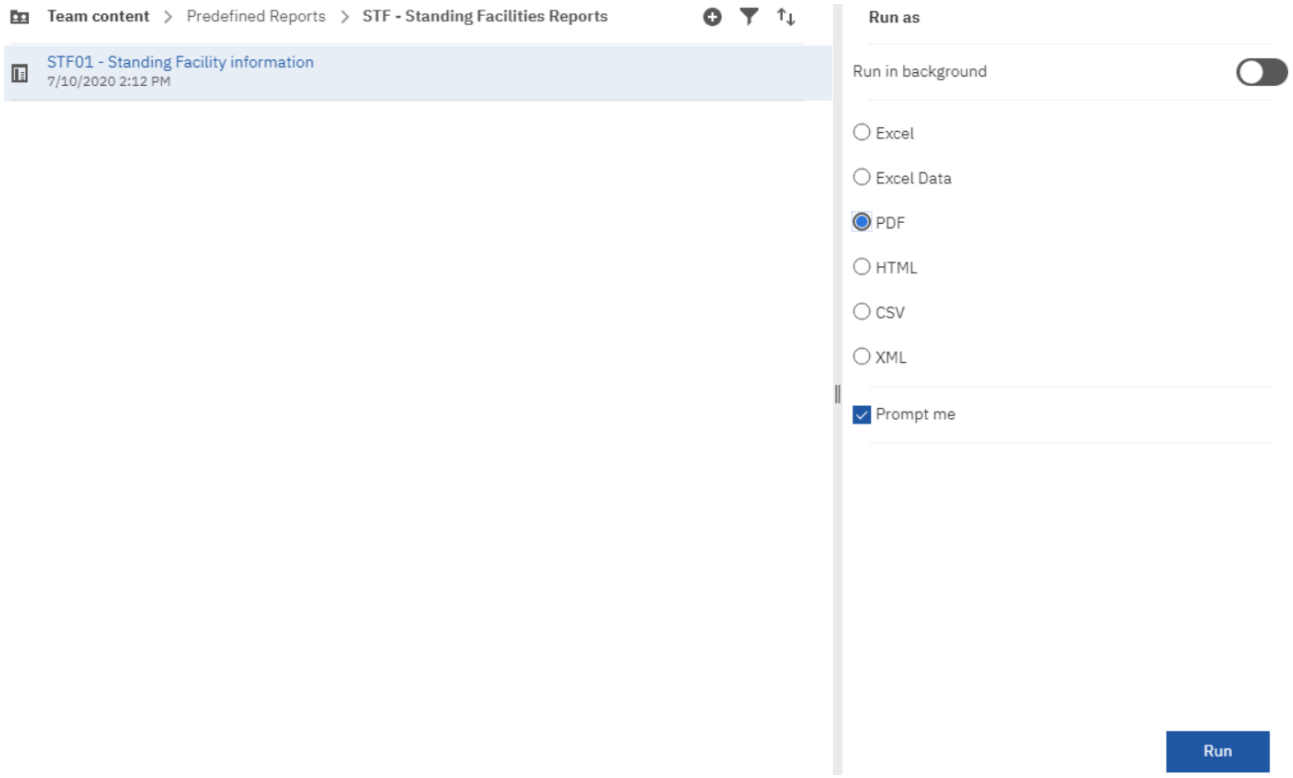

Figure 96 - Team content – Predefined Reports – STF – Standing Facilities Reports – STF01 Standing Facility information – Run as (2)

Also with a different format you have to enter the search criteria in the prompt page.

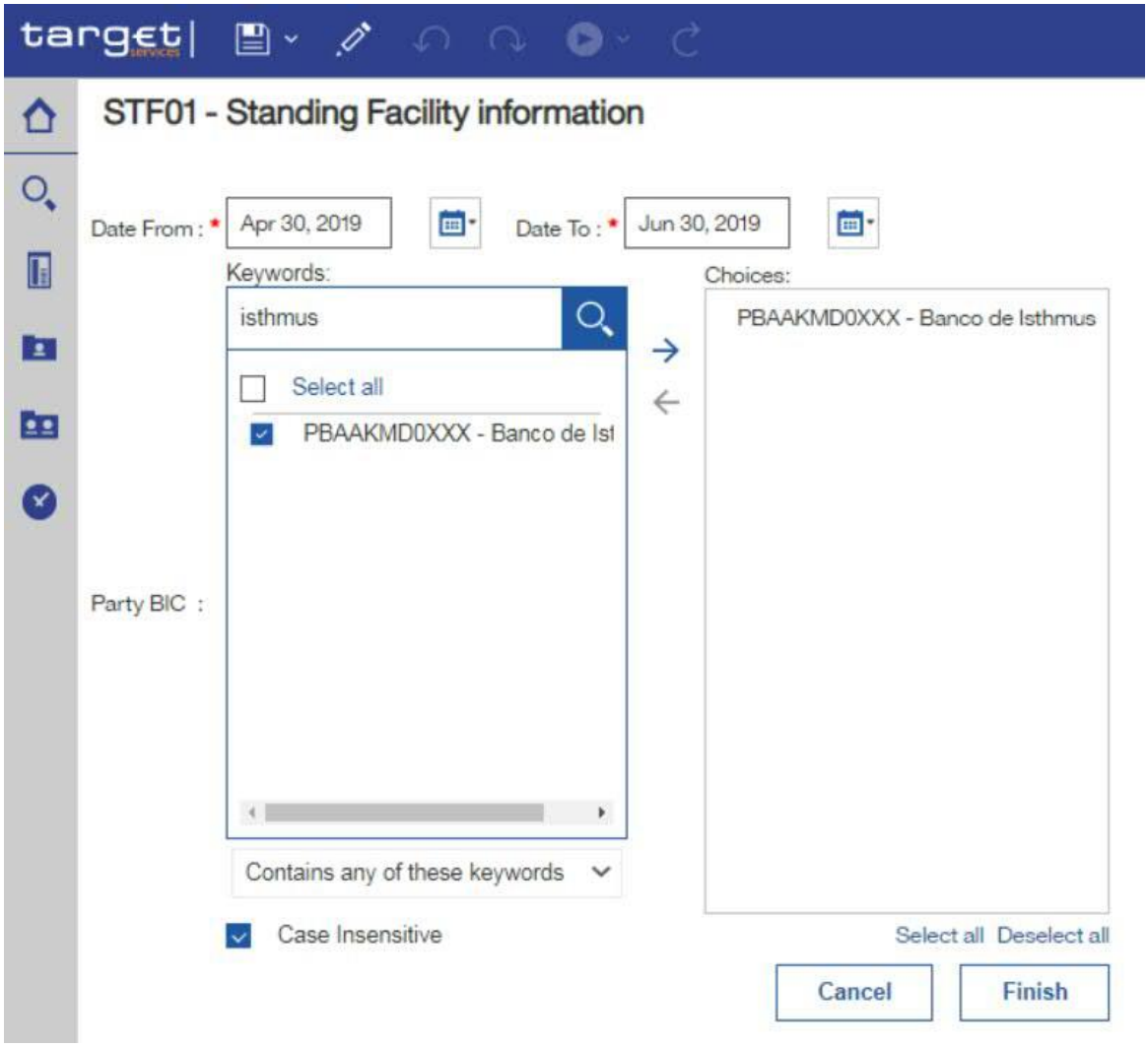

Figure 97 - Standing Facilities Reports – STF01 Standing Facility information - prompt page

The report result is available in the chosen format, in this example in PDF format.

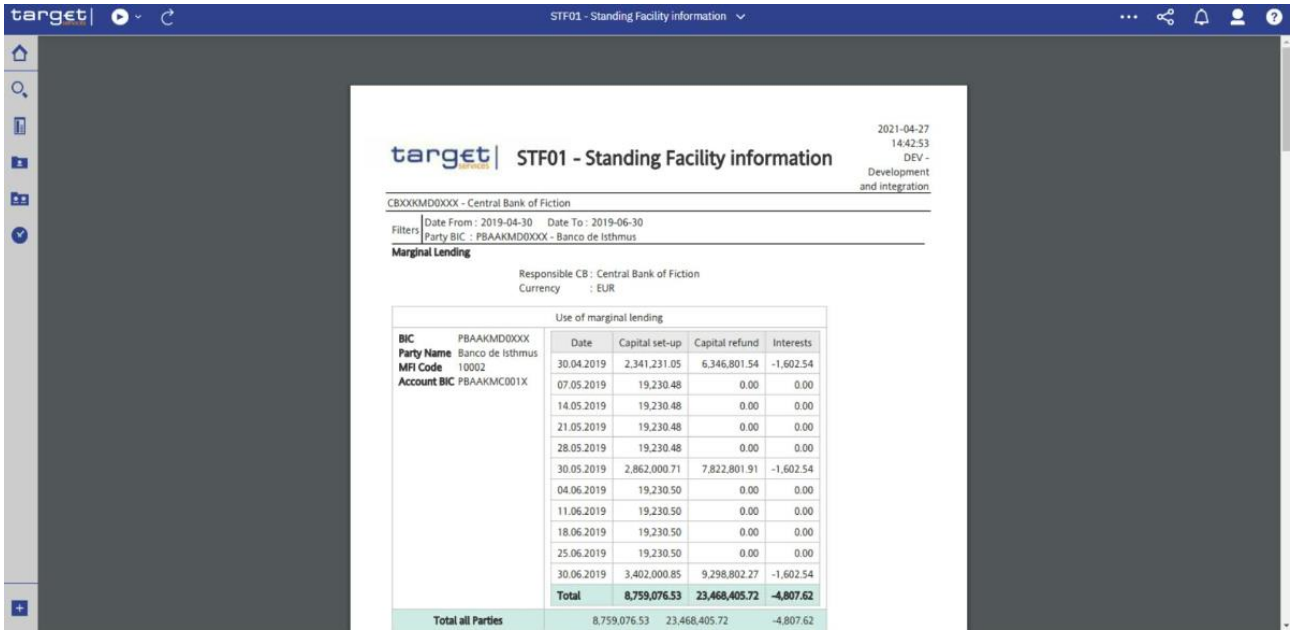

Figure 98 - Standing Facilities Reports – STF01 Standing Facility information – report

4.2.1.2 Run in background

There is another option to run a report – "**Run in background**". You can find and select this option under "**Run as**".

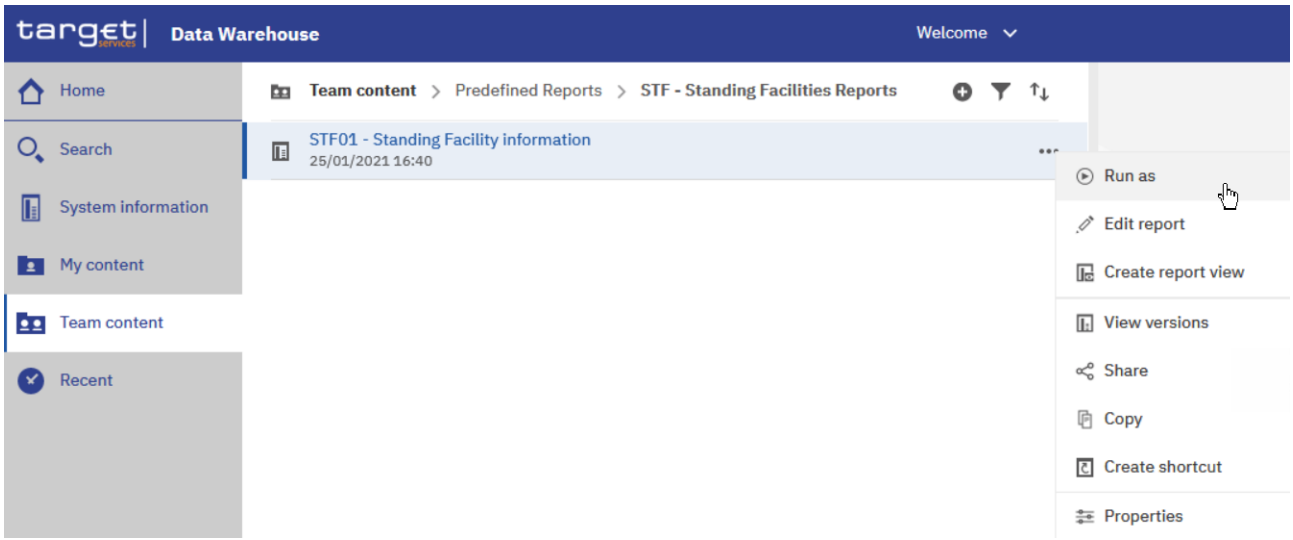

Figure 99 - Team content – Predefined Reports – STF – Standing Facilities Reports – STF01 Standing Facility information – Run as

Here you can see the "**Run in background**" option on top of the list.

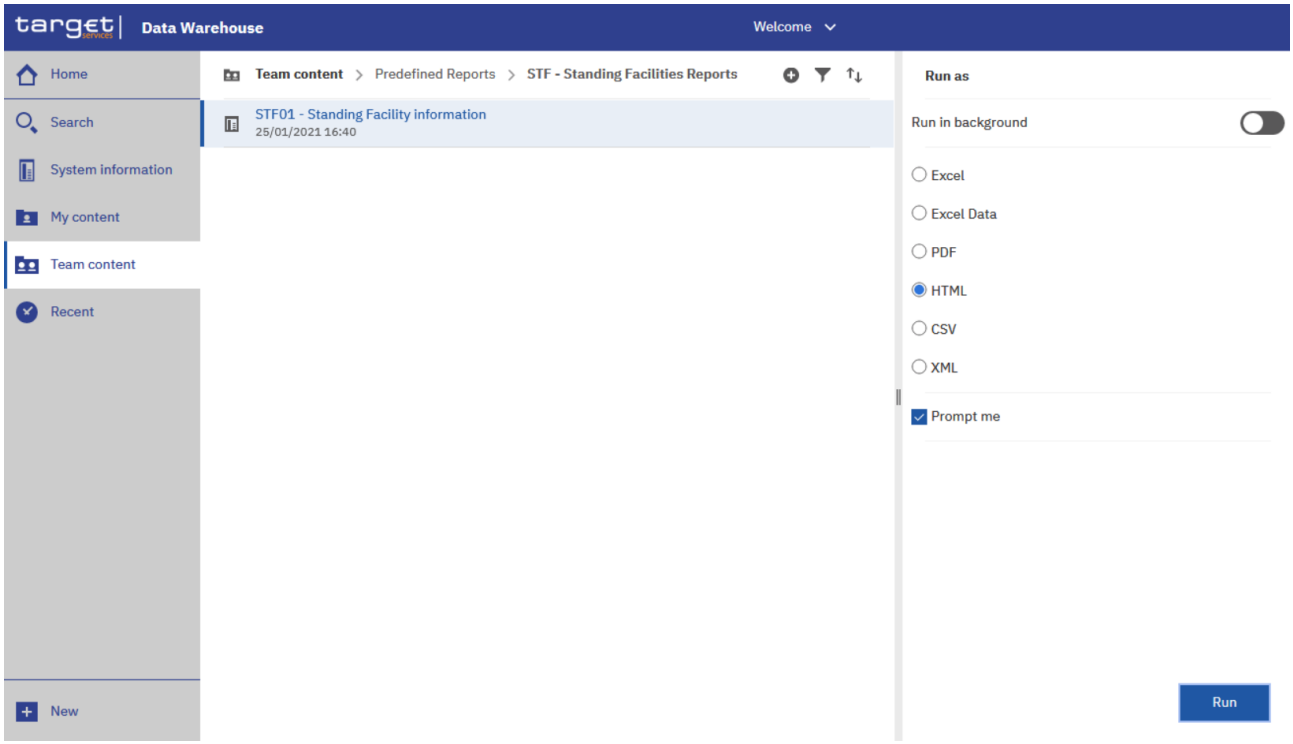

Figure 100 - Team content – Predefined Reports – STF – Standing Facilities Reports – STF01 Standing Facility information – Run as – Run in background

This option gives you the opportunity to run the report in the background without waiting for the result. Instead, you can view the report when the report is available.

In order to run the report in background, you have to enable "**Run in background**". The icon colour turns into blue, meaning this option is enabled, and the following options are available to you:

All rights reserved.

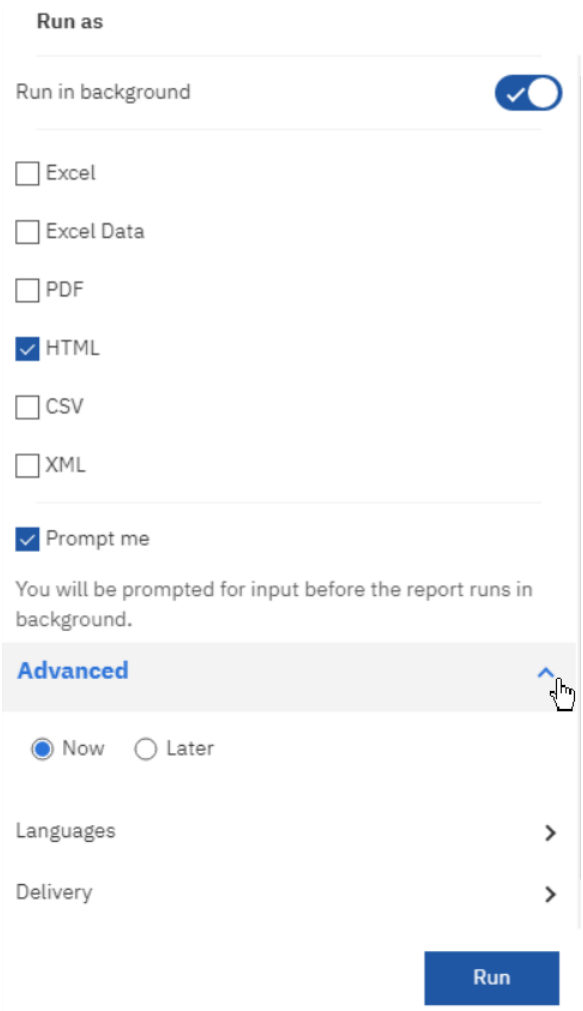

Figure 101 - Run as – Run in background – Advanced

Prompt me

When you select "**Prompt me**", you have to enter search criteria in the prompt page after you click on "**Run**". If you do not chose this, the report will run with the last set of search criteria you have used.

Advanced

You can decide if you want to run the report now or later. You can find this option by clicking on the arrow to the right of the "**Advanced**" section.

In case you select "**Now**", the report runs directly.

A message on top informs you that the prompt page will open.

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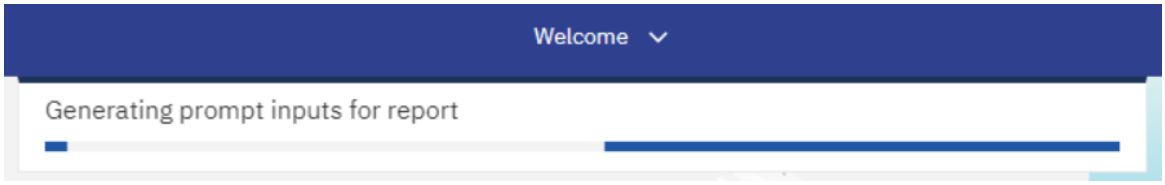

Figure 102 - Run as – Run in background - Advanced

In case you select "**Later**", you can choose the date and time of the execution.

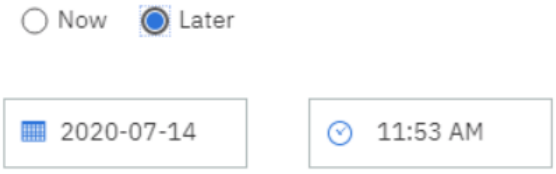

Figure 103 - Run as – Run in background – Advanced – Execution time – Later

4.2.2 Delivery

You can deliver reports by either saving them on the Team content folders, or by saving them as an external file. You have two possibilities to deliver a report result if you want to receive the result only once. First you can save the report in DWH directly and view it after successful creation. The second option is the delivery to the application of your party.

In case a report should be delivered to you (independent from the output channel (U2A or A2A) you have to schedule a report. For this option please refer to chapter Scheduling reports [▸ 116] for further details.

4.2.2.1 Delivery - Save report (U2A)

To save the report result you must click on the arrow on the right of the Delivery section. Choose "**Save report**" and click on the "**Done**" button. As soon as it is executed, the report is saved in DWH.

Step 1: Navigate to the respective report folder

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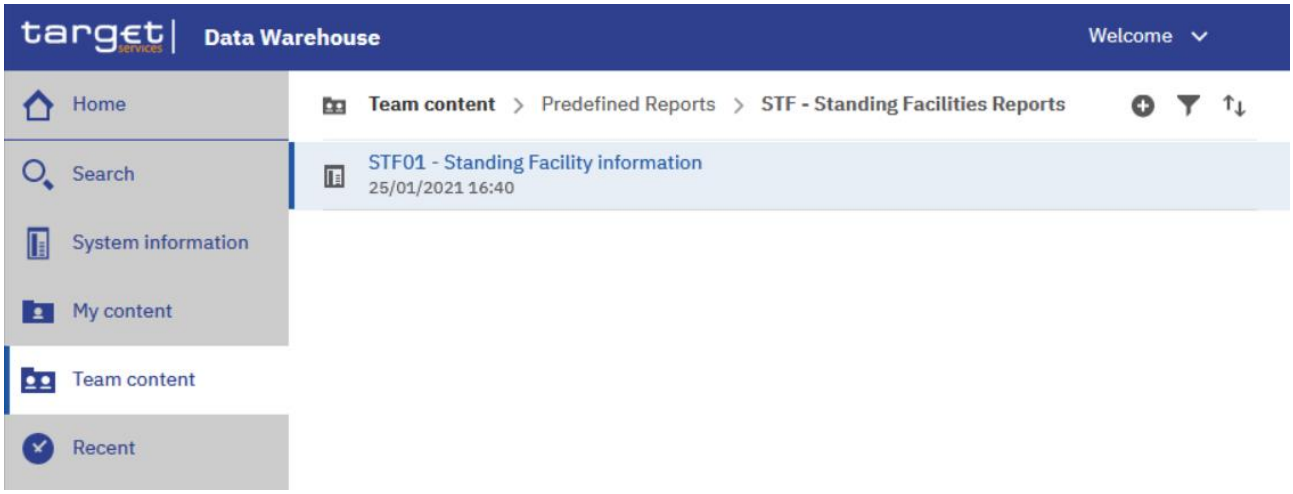

Figure 104 - Team content – Predefined Reports – STF – Standing Facilities Reports

Step 2: Click on the "**More**" icon (•••) at the right of the report and select "**Run as**"

.

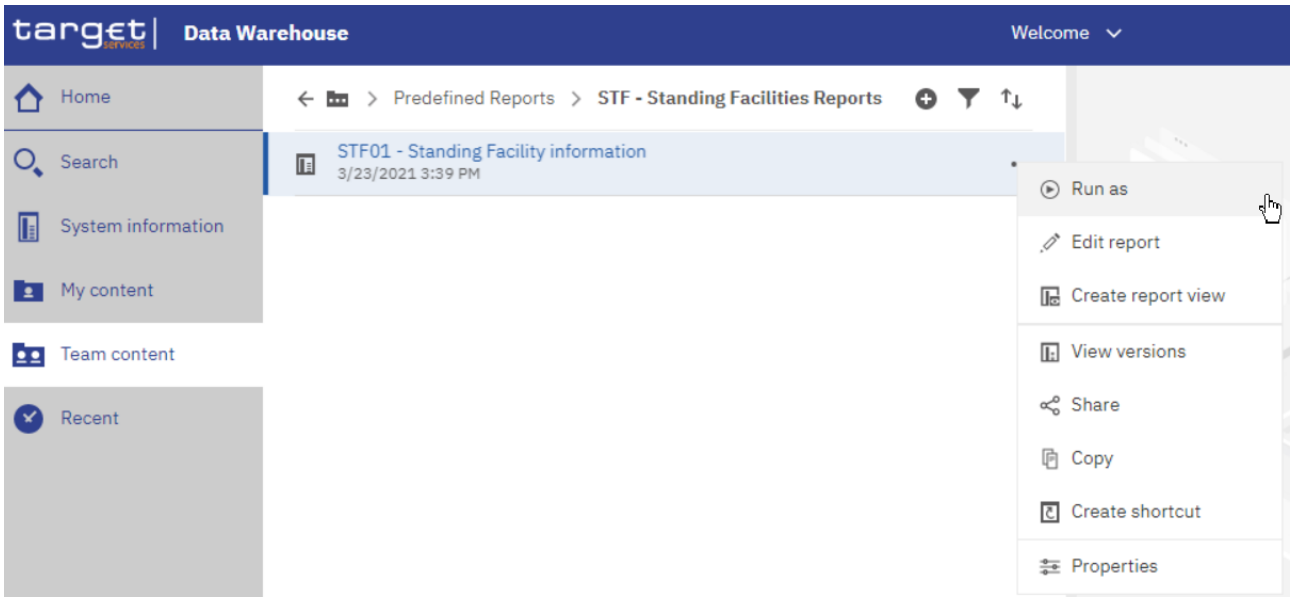

Figure 105 - Team content – Predefined Reports – STF – Standing Facilities Reports – Run as

Step 3: Select "**Run in background**"

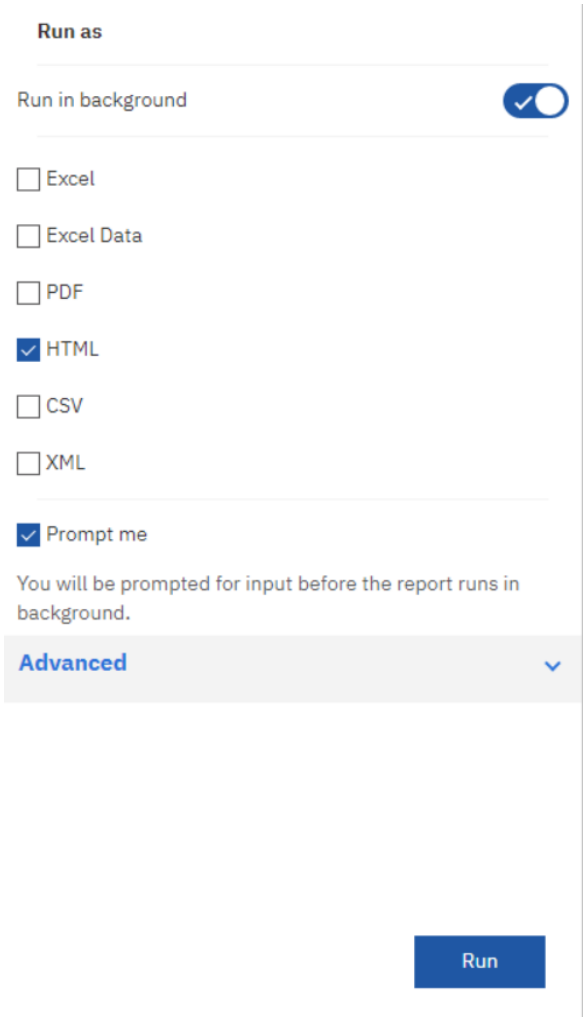

Figure 106 - Team content – Predefined Reports – STF – Standing Facilities Reports – Run as – Run in background

Step 4: Click the arrow next to "**Advanced**" to view the delivery section

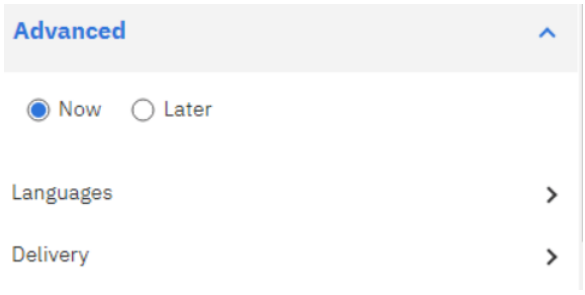

Figure 107 - Team content – Predefined Reports – STF – Standing Facilities Reports – Run as – Run in background – Advanced

Step 5: Click the arrow next to the "**Delivery**" property, uncheck the "**Print report**" property, and check the "**Save report as an external file**". Finally, click on 'Done'

All rights reserved.

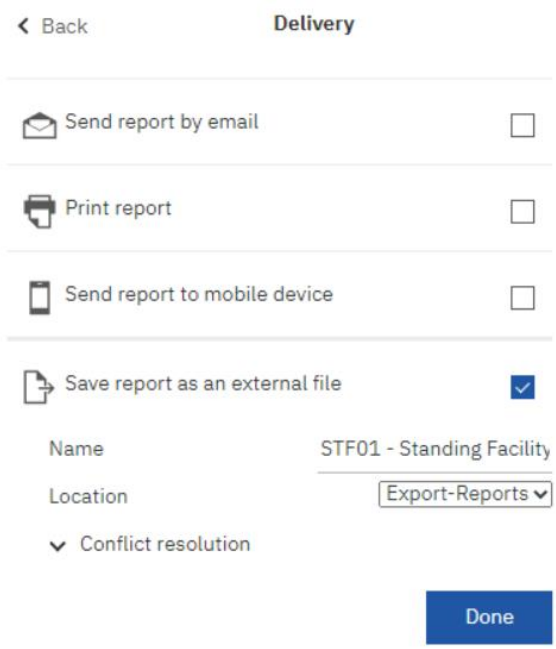

Figure 108 - Team content – Predefined Reports – STF – Standing Facilities Reports – Run as – Run in background – Advanced – Save report as an external file

4.2.2.2 Delivery - Save the report for an external file (A2A)

For the A2A delivery please follow the steps described hereafter.

Step 1: You navigate to the respective report folder as described in chapter Copy a report [▸ 83].

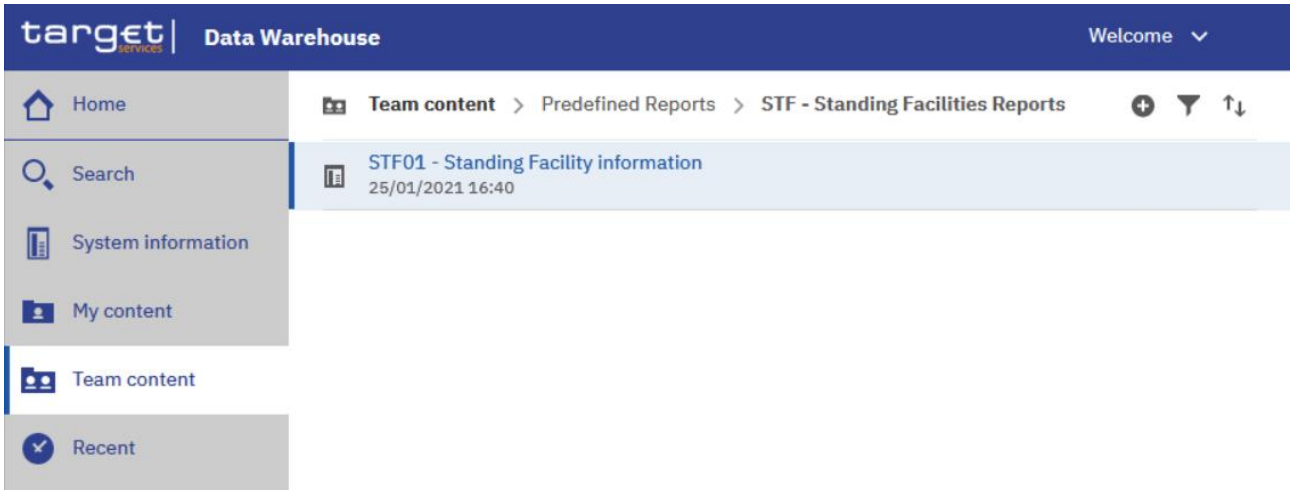

Figure 109 - Team content - Predefined Reports - Standing Facilities Reports - STF01 Standing Facility information

Step 2 Click on the "**More**" icon (•••) at the right of the report and select "**Copy**".

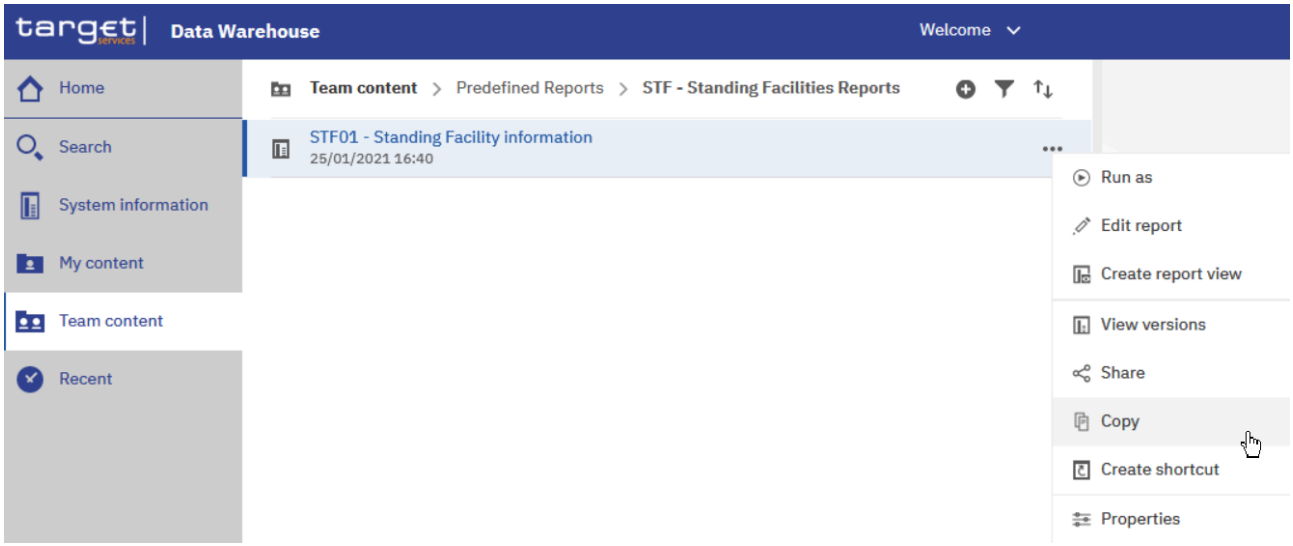

Figure 110 - STF01 Standing Facility information - More options

Step 3: A window pops up where you have to enter a storage location for your copy. In this example, the report is copied to "**My content**".

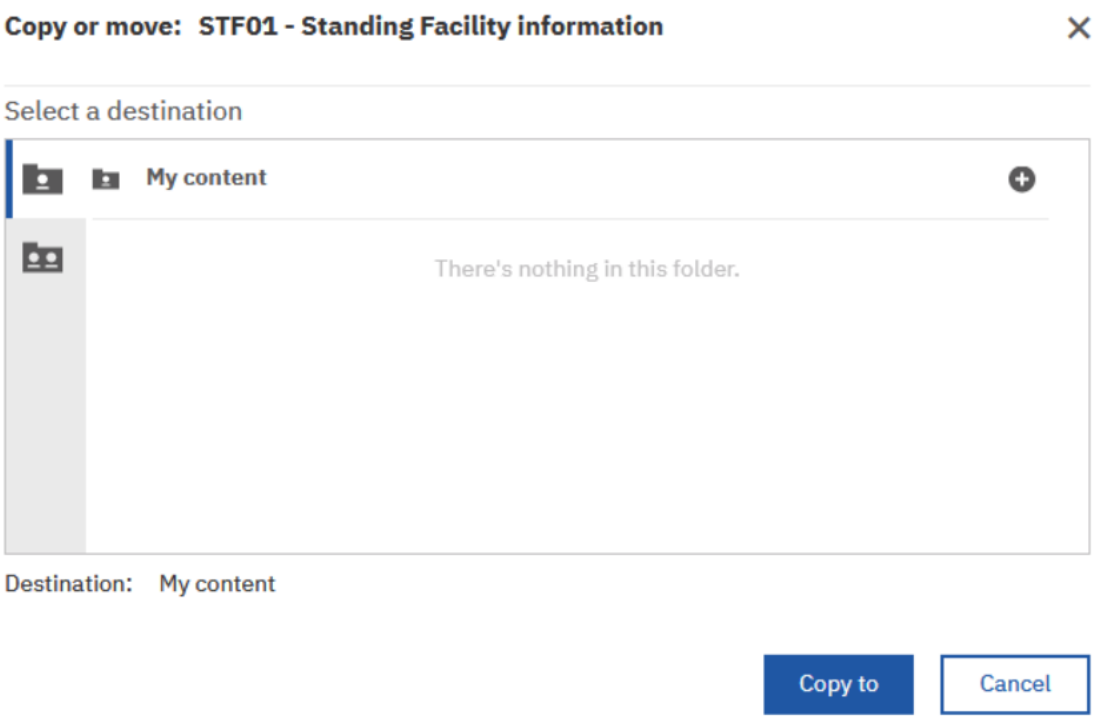

Figure 111 - STF01 Standing Facility information - Copy

Step 4: Navigate to the folder where you have copied the report. In this example, the folder is "**My content**".

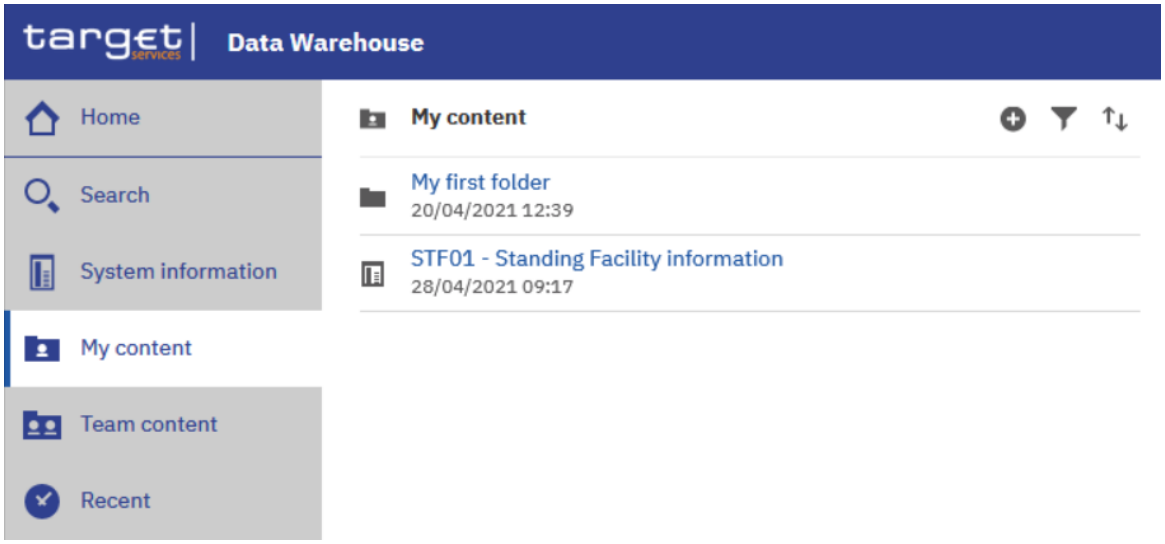

Figure 112 - STF01 Standing Facility information – Copy to My content

Step 5: Find the report and click on the "**More**" icon (•••) at the right of the report and confirm by clicking "**Run as**".

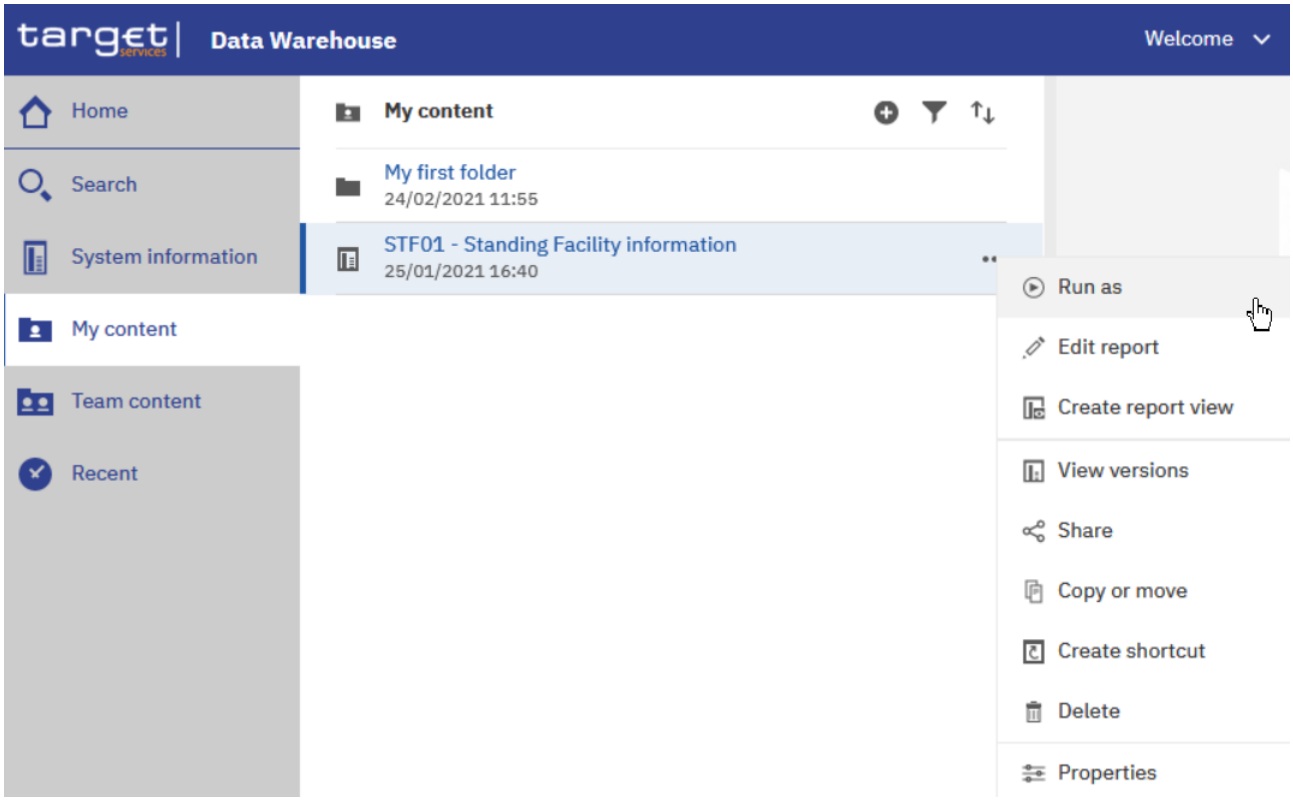

Figure 113 - My content - STF01 Standing Facility information - Run as

Step 6: Perform the same action as explained in chapter Run a report step-by-step [▶ 95] for "**Run in background**".

Check the "**Run in background**" button:

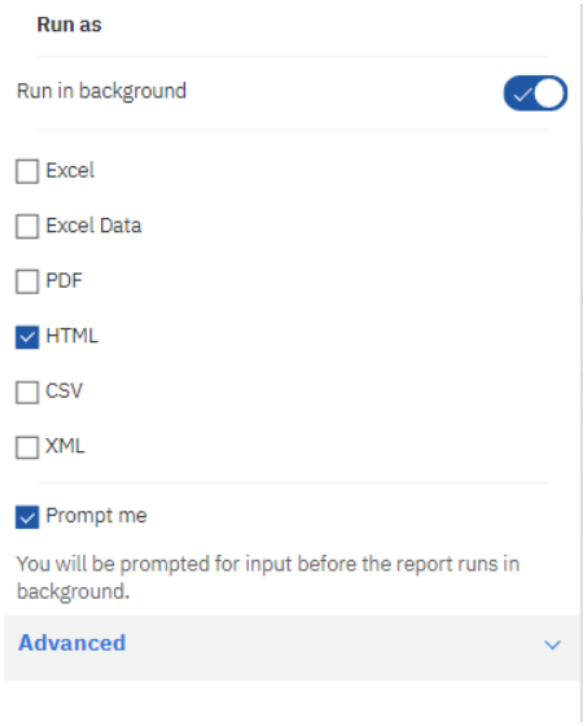

Figure 114 - My content - STF01 Standing Facility information - Run as – Run in background

Step 7: For delivery in A2A you can choose the following formats: CSV, Excel, XML.

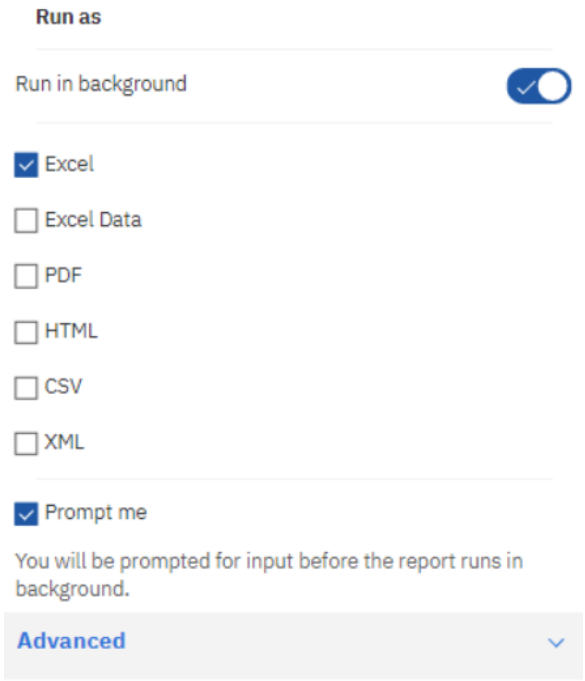

Figure 115 - My content - STF01 Standing Facility information - Run as – Choose the format

Step 8: You are free to select "**Advanced**" "**Now**" or "**Later**" and add a date and time of the execution.

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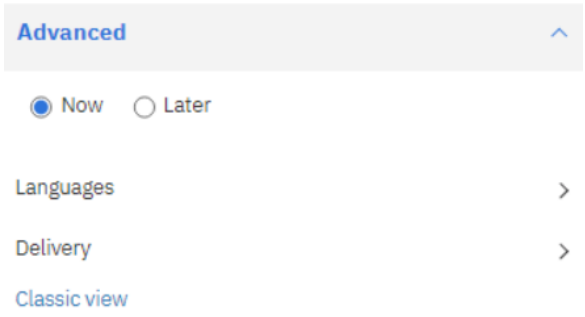

Figure 116 - My content - STF01 Standing Facility information - Run as – Advanced – Now or Later

Step 9: For "**Delivery**" you have to select the option "**Save report as an external file**".

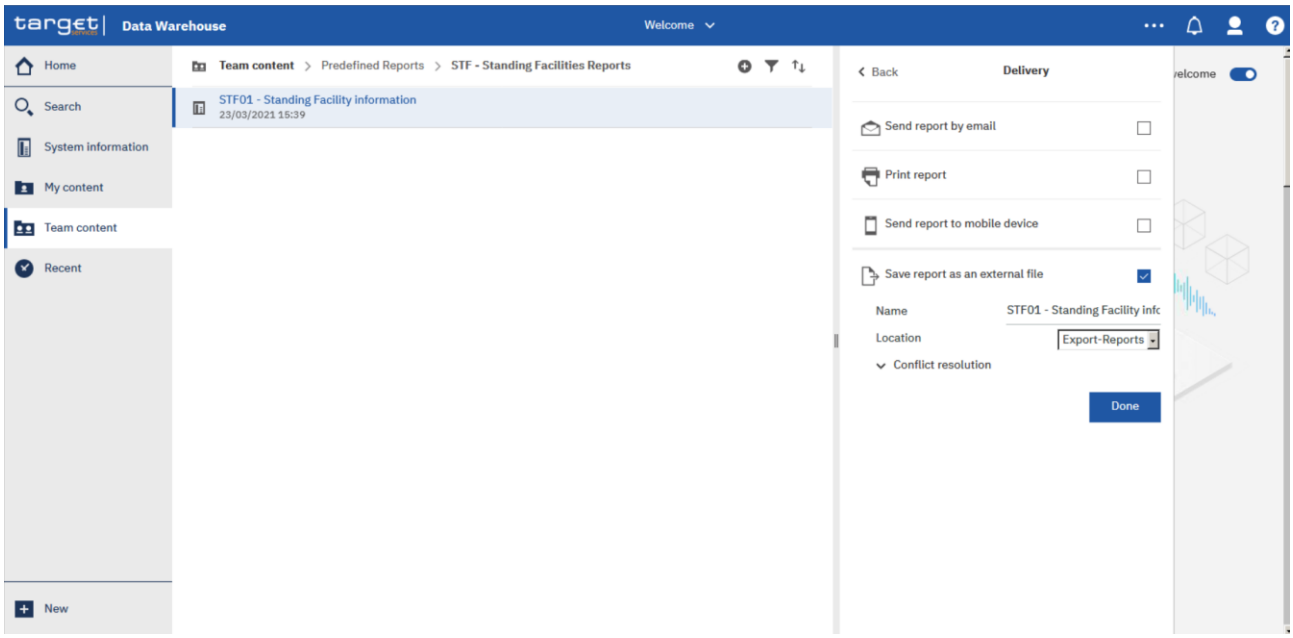

Figure 117 - My content - STF01 Standing Facility information - Run in background - Advanced Delivery

Step 10: After you activated the "**Save report as an external file**" checkbox, further options are presented.

All rights reserved.

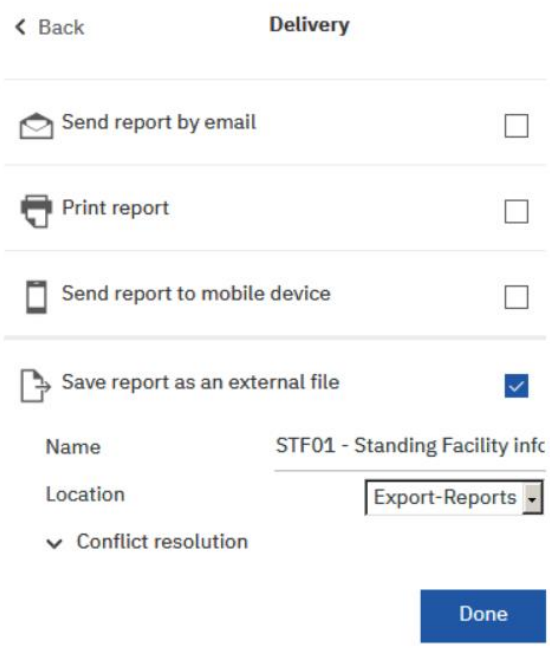

Figure 118 - My content - STF01 Standing Facility information - Run in background - Advanced Delivery - Save report as an external file

The "**Name**" field presents the name of the report. The default value is the name of the report, as it is known in DWH. Please note, that by leaving the default name in place you need to prevent the generated file from being overwritten by a file with the same name but stemming from other users. For this, please change the value for "Conflict resolution" to one of the two following choices:

- Make the file names unique and append a timestamp
- Make the file names unique and append a sequence number

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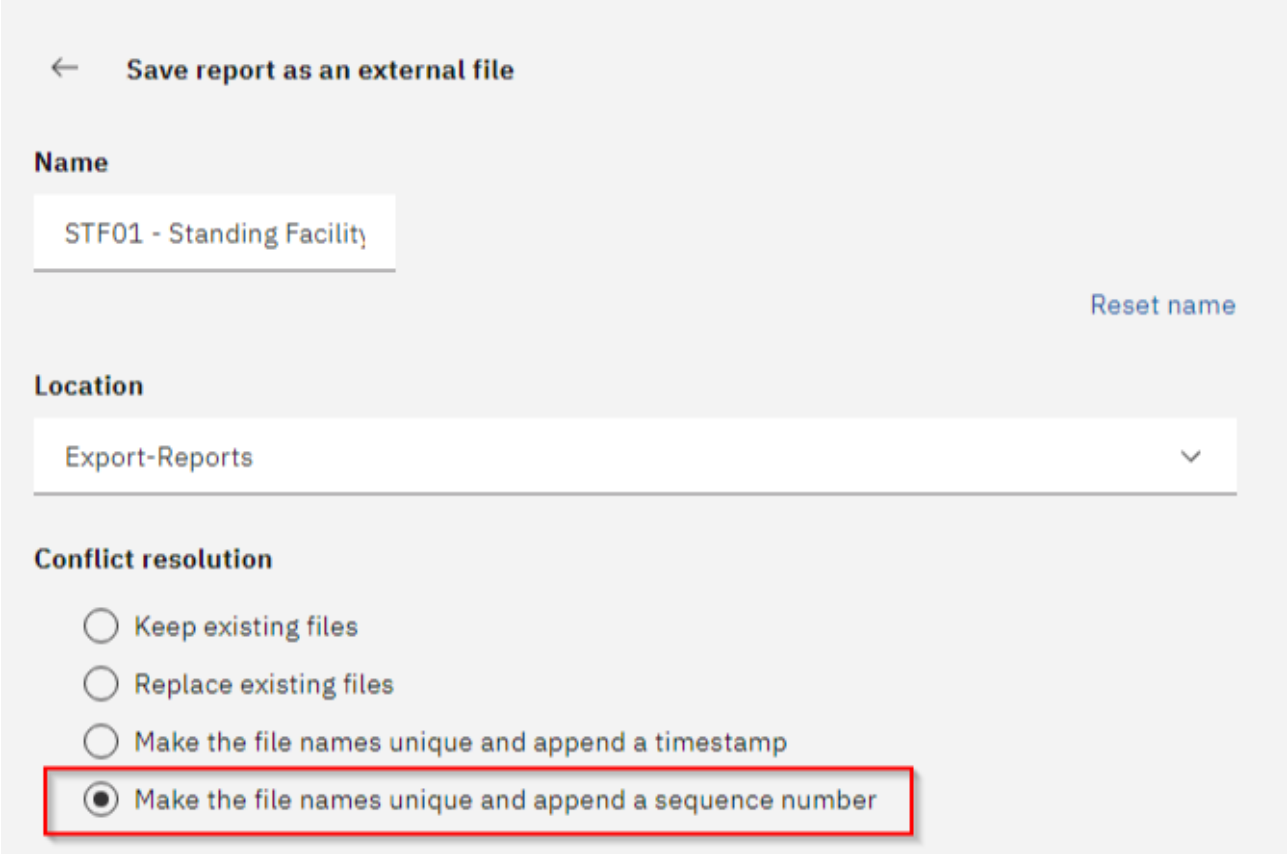


Figure 119 - My content - STF01 Standing Facility information - Run in background - Advanced Delivery - Save report as an external file – Conflict resolution

Please do not change the default value in the "**Location**" field, as this is the place where the report is stored before it is delivered to your party via A2A. Changing the default value in the 'Location' field will result in reports not being sent via A2A. The folder is not accessible via the GUI and only for storing the report before it is delivered via A2A.

Step 11: Click on the "**Done**" button (Done).

Step 12: Click on the "**Run**" button.

All rights reserved.

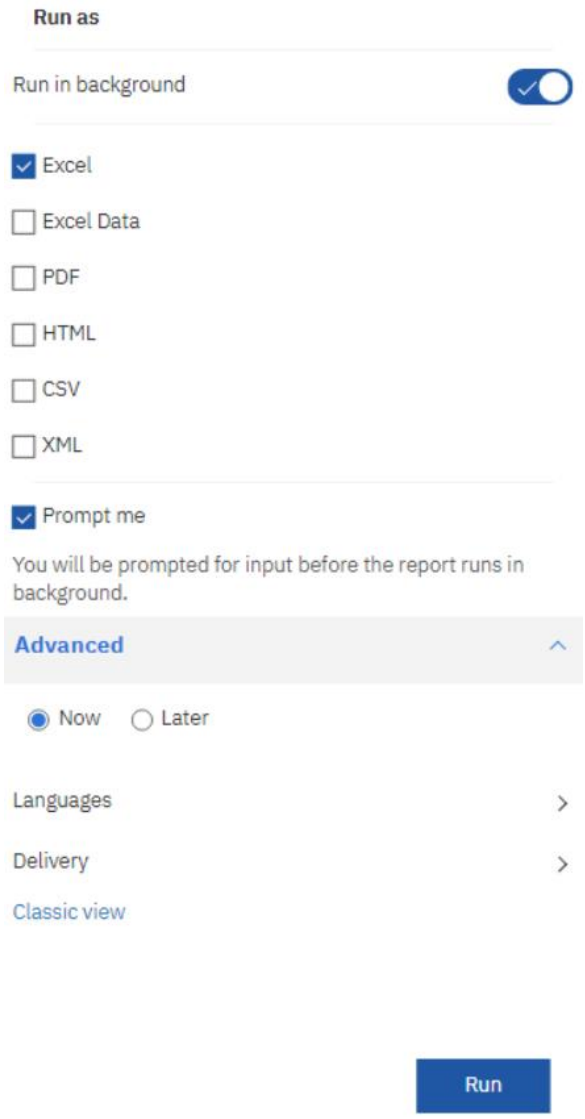


Figure 120 - My content - STF01 Standing Facility information - Run in background - Advanced Delivery – Run the report

Step 13: Enter the search criteria in the prompt page.

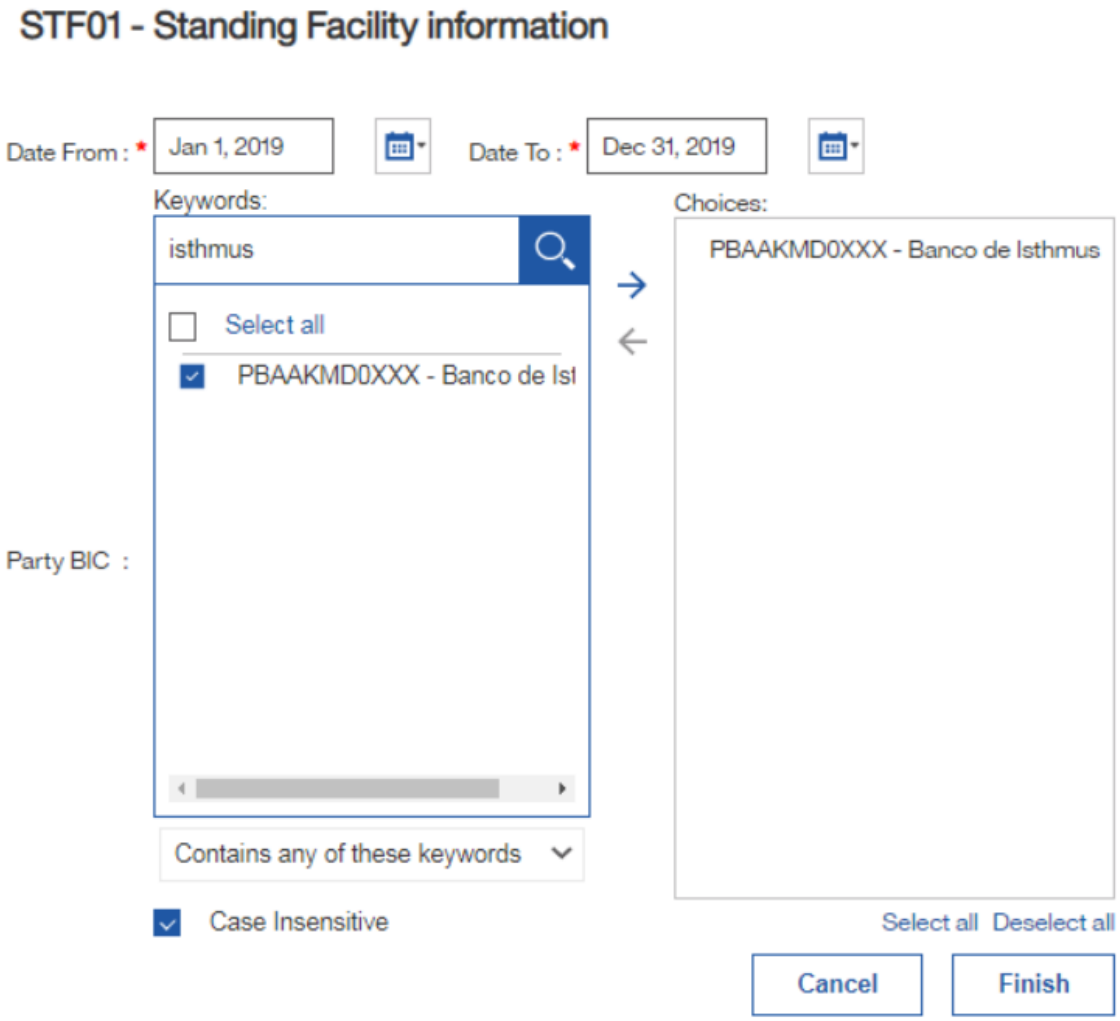
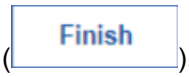


Figure 121 - My content - STF01 Standing Facility information - Run in background - Advanced Delivery – Enter search criteria

Step 14: Click on the "**Finish**" button (

).

The report will be executed and the result will be sent via A2A in the chosen format to your party.

Or you run your report in the background with the delivery "**Save the report as an external file**".

4.3 Scheduling reports

The DWH offers a scheduler function which allows the configuration and delivery of (recurring) reports with individual settings.

This chapter describes the steps that you perform to schedule a report and to check the scheduling afterwards.

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4.3.1 Precondition

After saving the report in "**My content**" or, for CB users, under the shared folder of your CB, you have to choose the report you want to schedule and create a report view of this report (see chapter Saving a report output [▸ 90]).

4.3.2 Scheduling the report for a specific time

After creating the report view you can start to schedule your report.

Step 1: Choose the report you have saved as a report view, and click on the "**More**" icon (•••) at the right of the report.

Step 2: Click on "**Properties**".

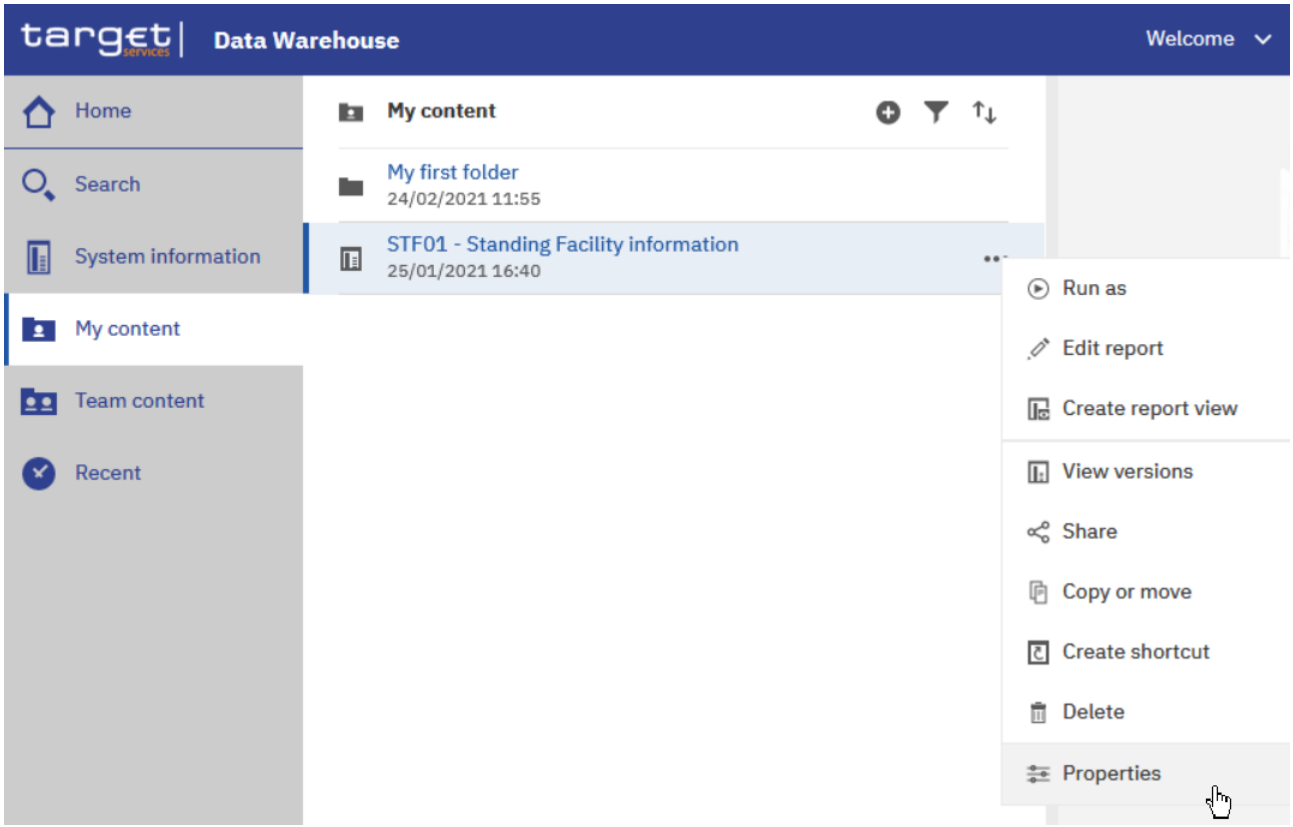


Figure 122 - My content - report view - Properties

Step 3: A description of your report is shown and you can add a description under "**General**".

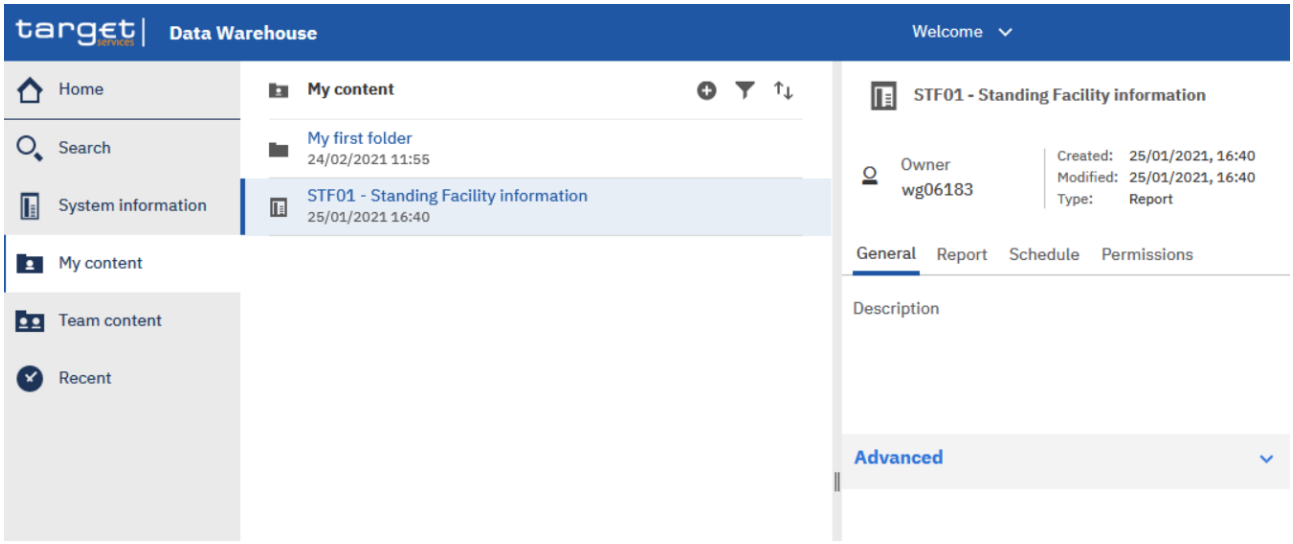
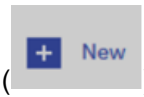


Figure 123 - My content - report view - Properties – General - description of your report

Step 4: In the "**Schedule**" tab you will find the "**New**" icon (

).

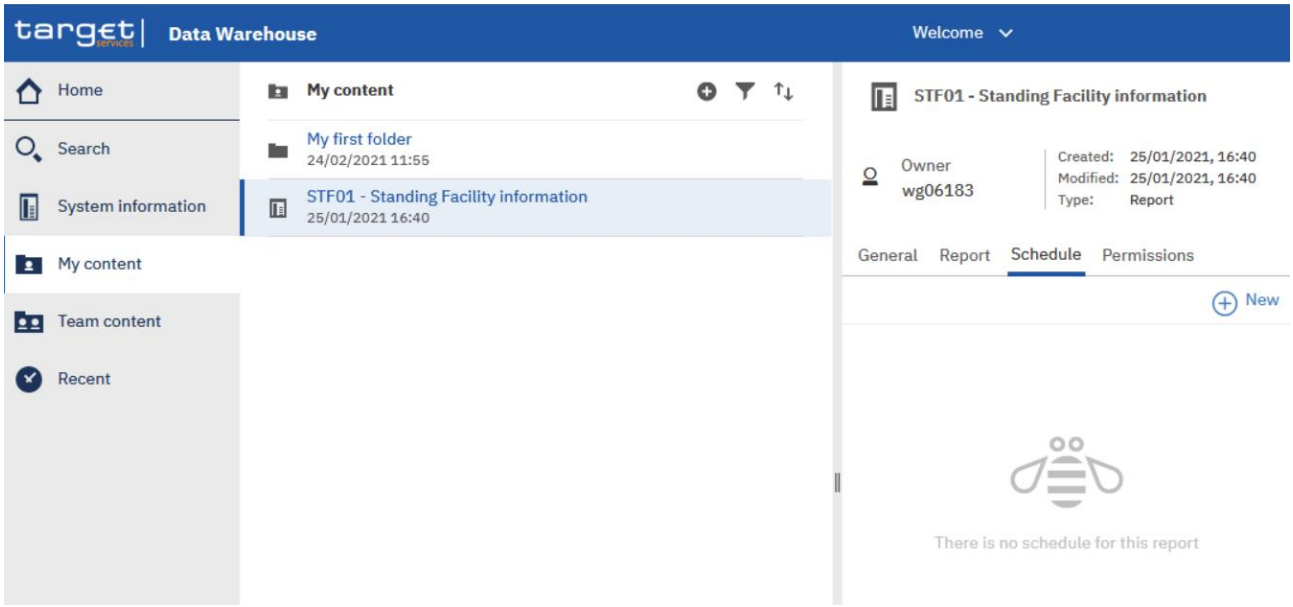
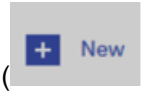


Figure 124 - Welcome page - My content - report view - Properties - Schedule

Step 5: By clicking on the "**New**" icon (

), the "**Schedule**" is opening where you have multiple options to choose for scheduling your report.

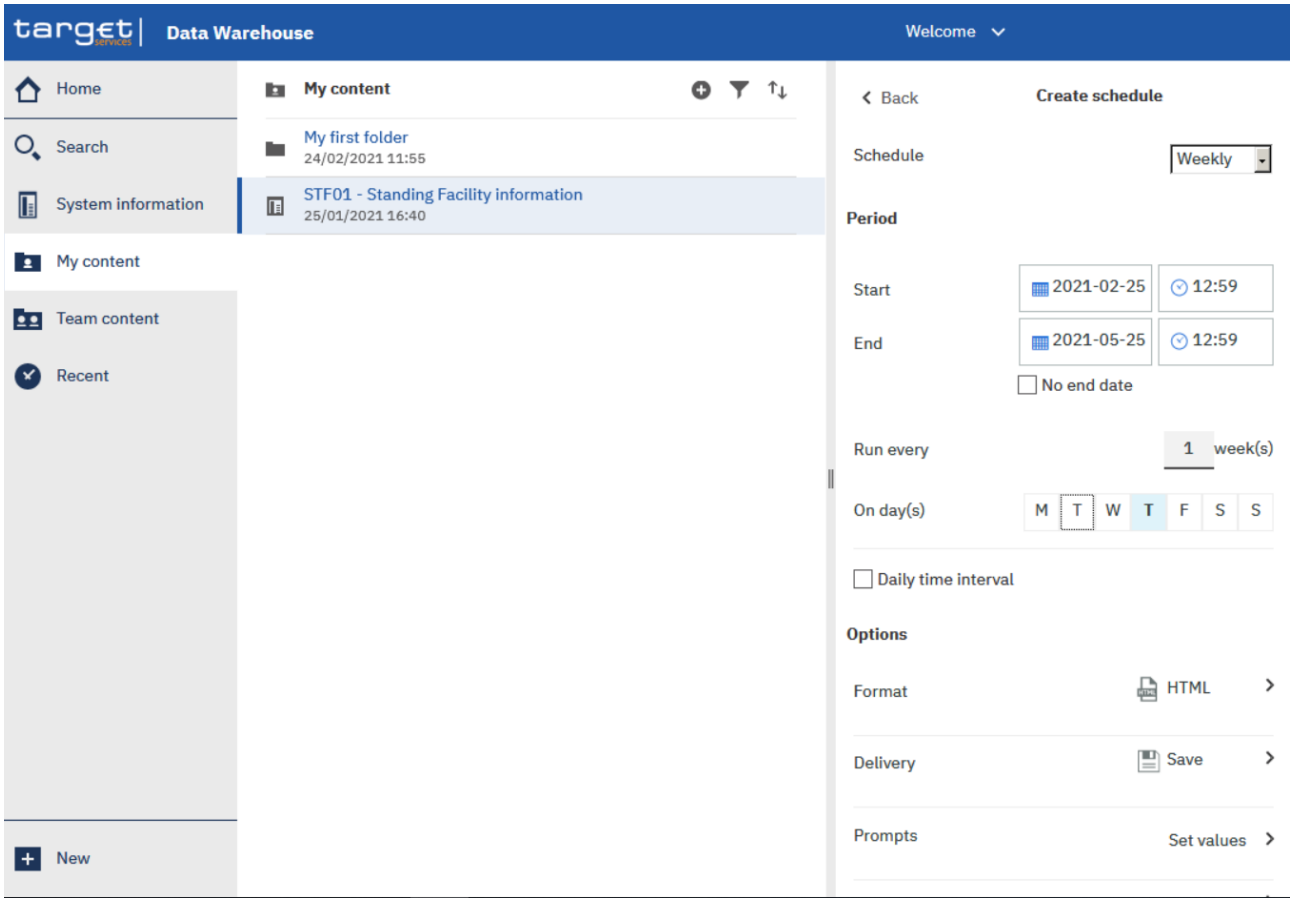


Figure 125 - Welcome page - My content - report view - Properties - create schedule (1)

Step 6: You can set a variety of options when scheduling a report: the frequency the report will be run, the "**Period**" of the schedule, the format in which the report will be delivered, and the delivery method.

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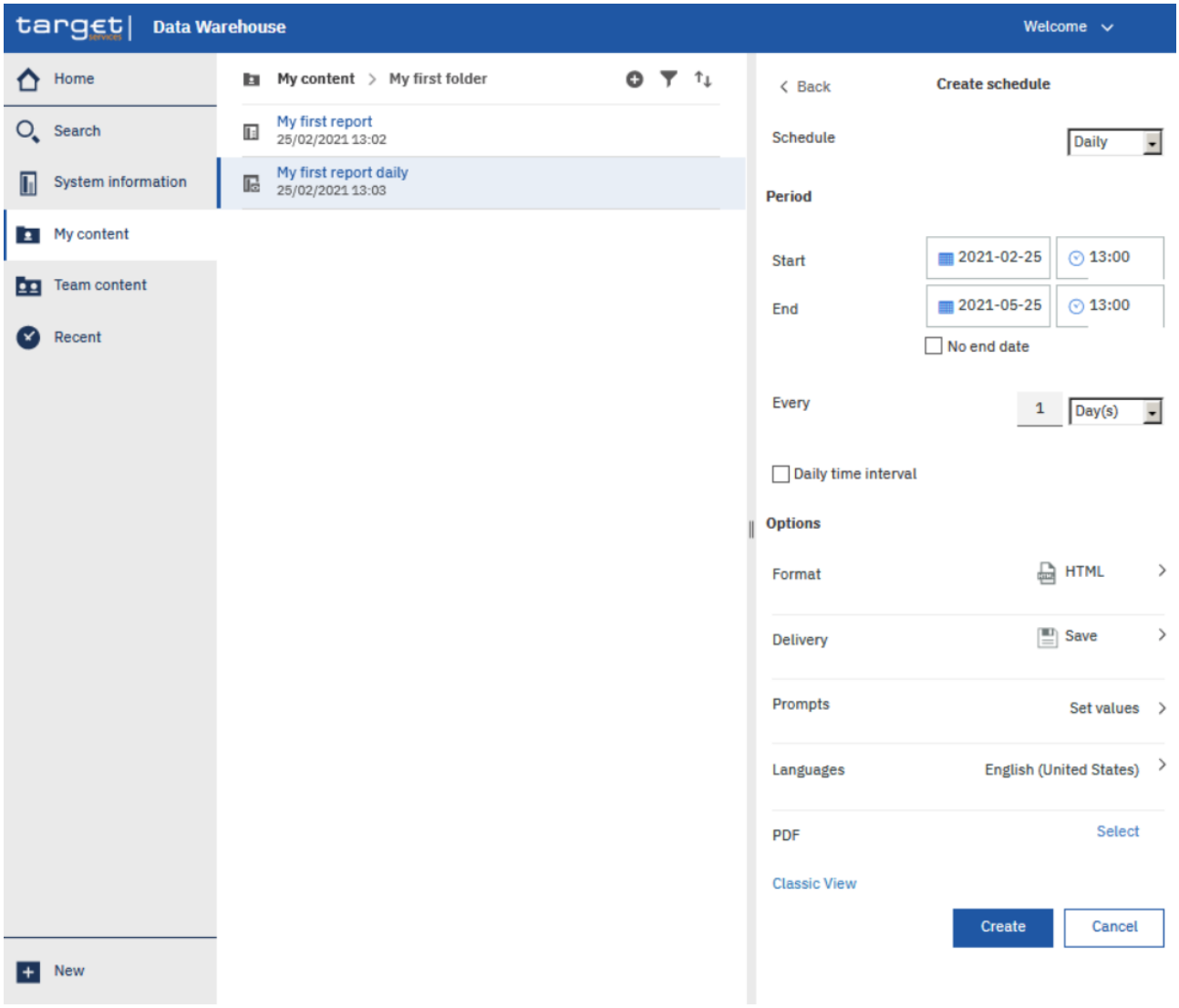

Figure 126 - Welcome page - My content - report view - Properties - create schedule (2)

Schedule: The frequency, which the report will be run, daily, weekly, monthly, yearly.

Period: Choose the start and the end date of the schedule. Alternatively, by clicking on “No end date” the schedule will run indefinitely.

Format: The type of format the report will be executed to, HTML, CSV, Excel, Excel Data and XML. For further information, you may check the chapter ‘Run a report step-by-step [▸ 95]’.

Delivery: You may choose if you want to save the report in Cognos or as an external file. For further information please go to chapter Delivery - Save report (U2A) [▸ 105].

Prompts: By clicking on “**Set values**”, and then “**Set**” you will be presented with the prompt page of the report, where you can enter the search criteria.

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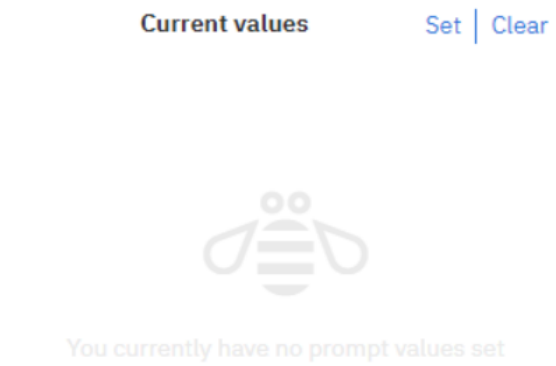

Figure 127 - Welcome page - My content - Report view - Properties - Create schedule – Current values

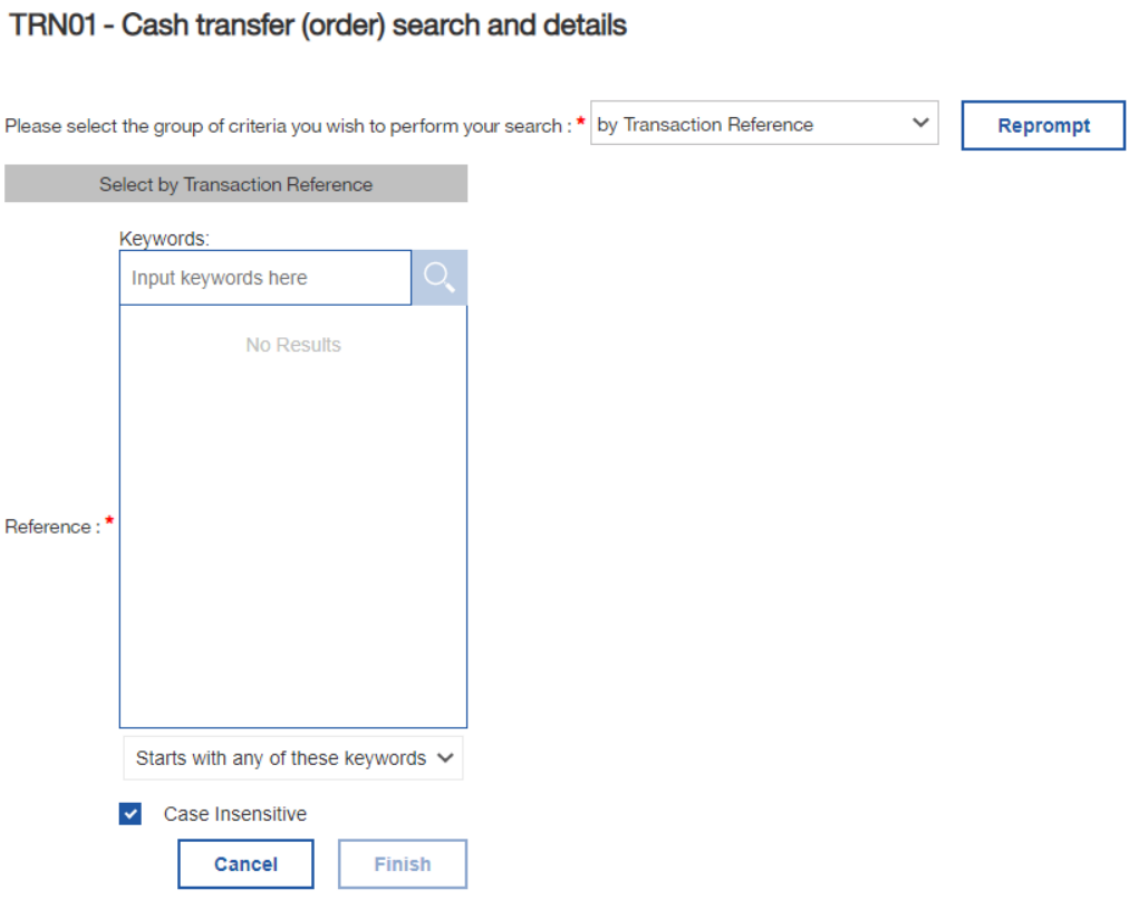

Figure 128 - Welcome page - My content - Report view - Properties - Create schedule – Enter values

Languages: You may define the language of the content of the report, if more than one languages has been defined in the database. As the language in the database is always English, nothing will change in case you define another language.

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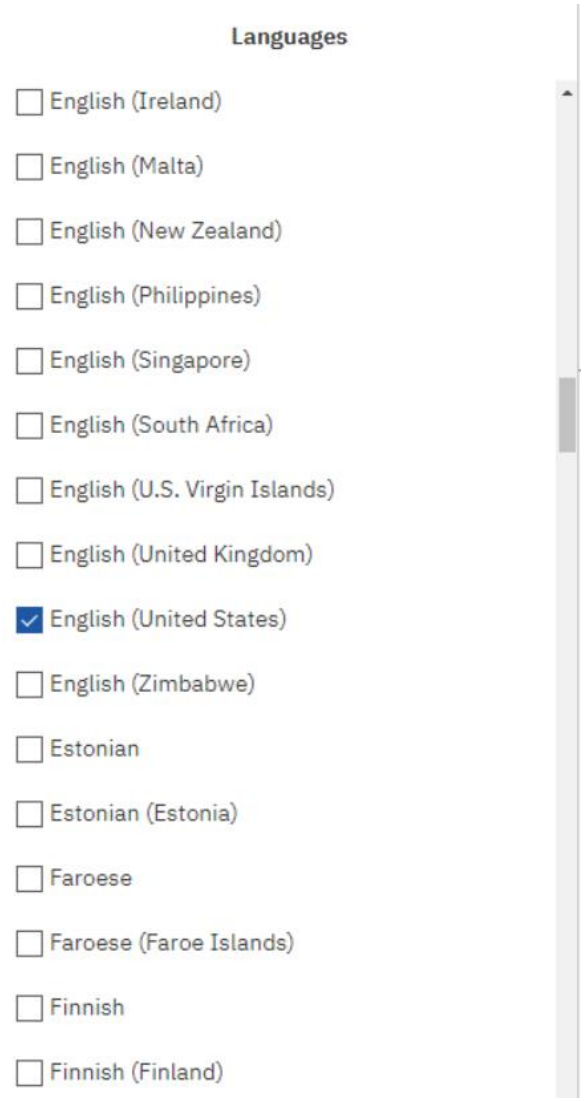


Figure 129 - Welcome page - My content - Report view - Properties - Create schedule – Languages

PDF: By clicking on "**Select**" you may choose the orientation or the paper size.

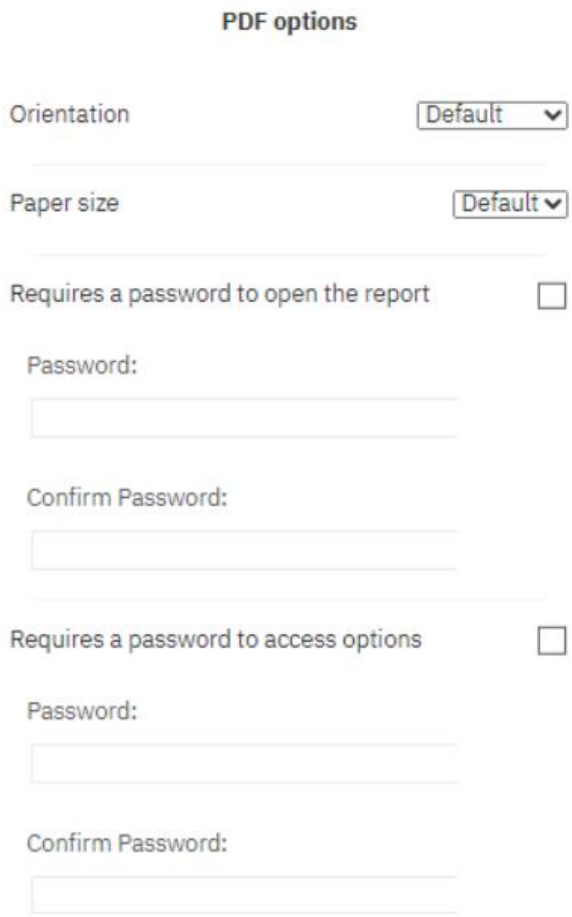


Figure 130 - Welcome page - My content - Report view - Properties - Create schedule - PDF

In this example, you see a daily schedule with no end date, HTML as an output, and save the report in DWH.

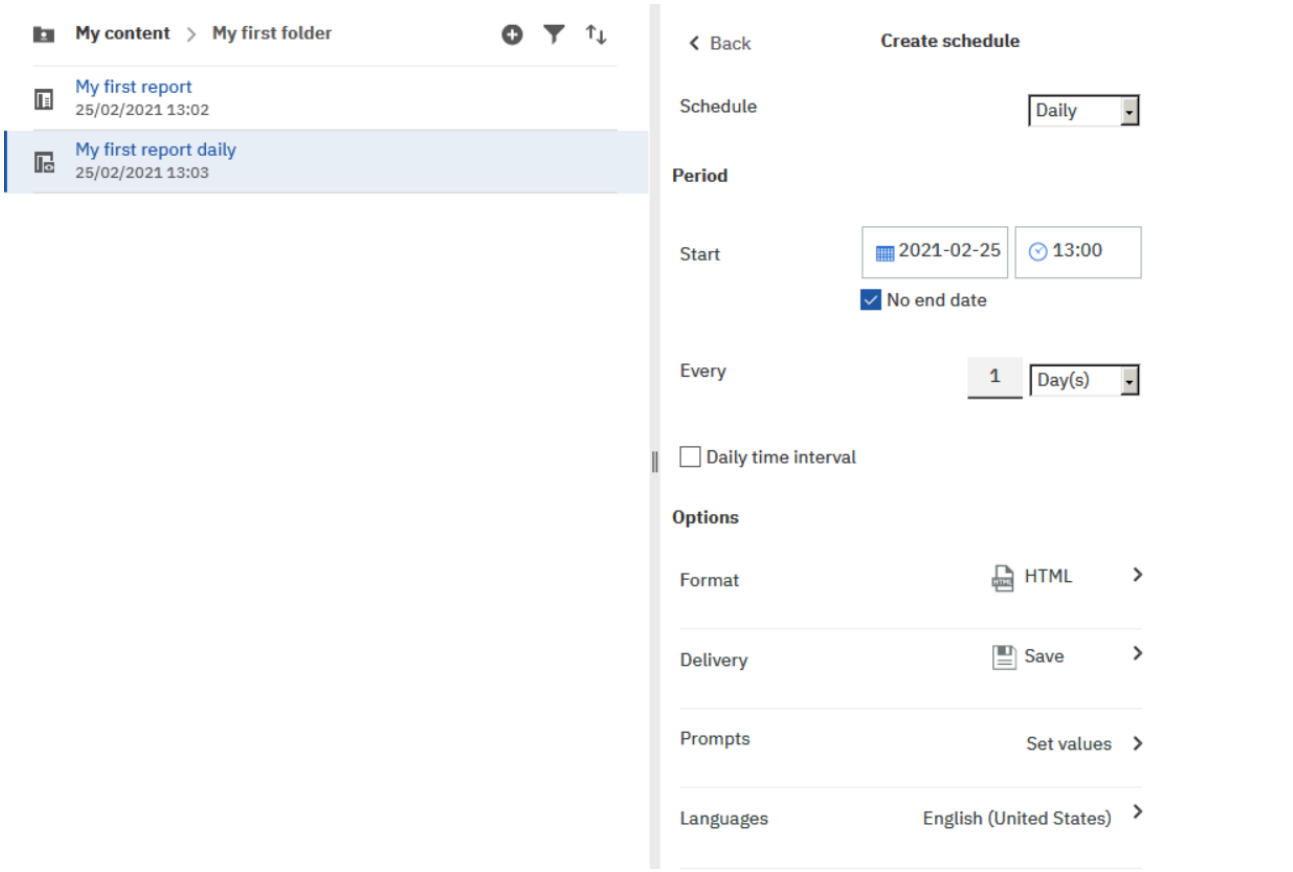


Figure 131 - Welcome page - My content - report view - Properties - create schedule (3)

In case you want to receive the scheduled reports via A2A you have to choose "**Save report as external file**" and follow the information provided in chapter Delivery - Save report (U2A) [▸ 105] .

Step 7: It is very important to set the prompt values when scheduling a report to be executed. This can be done by clicking on the arrow next to "**Set values**".

All rights reserved.

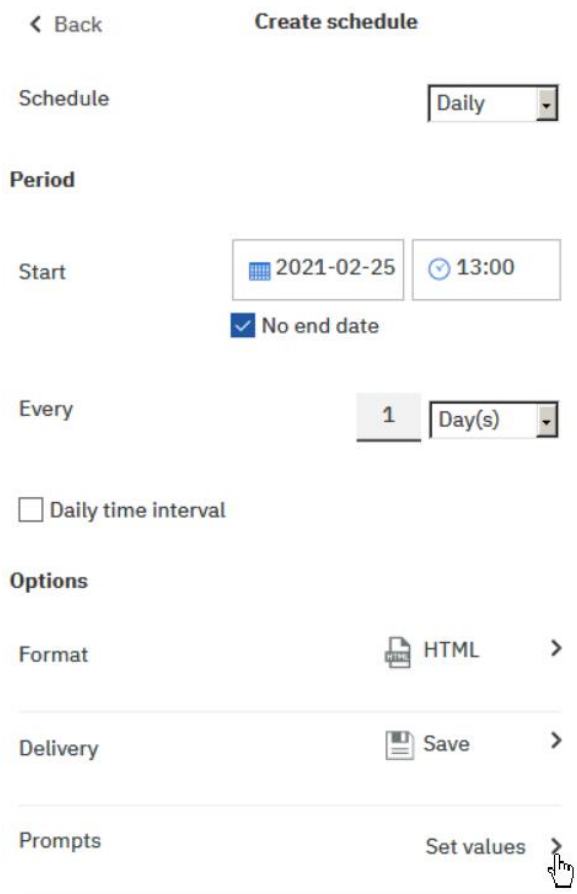


Figure 132 - Welcome page - My content - Properties - Set values

Step 8**:** The "**Current values**" opens. To enter the prompt page you must click on the "**Set**" icon (Set).

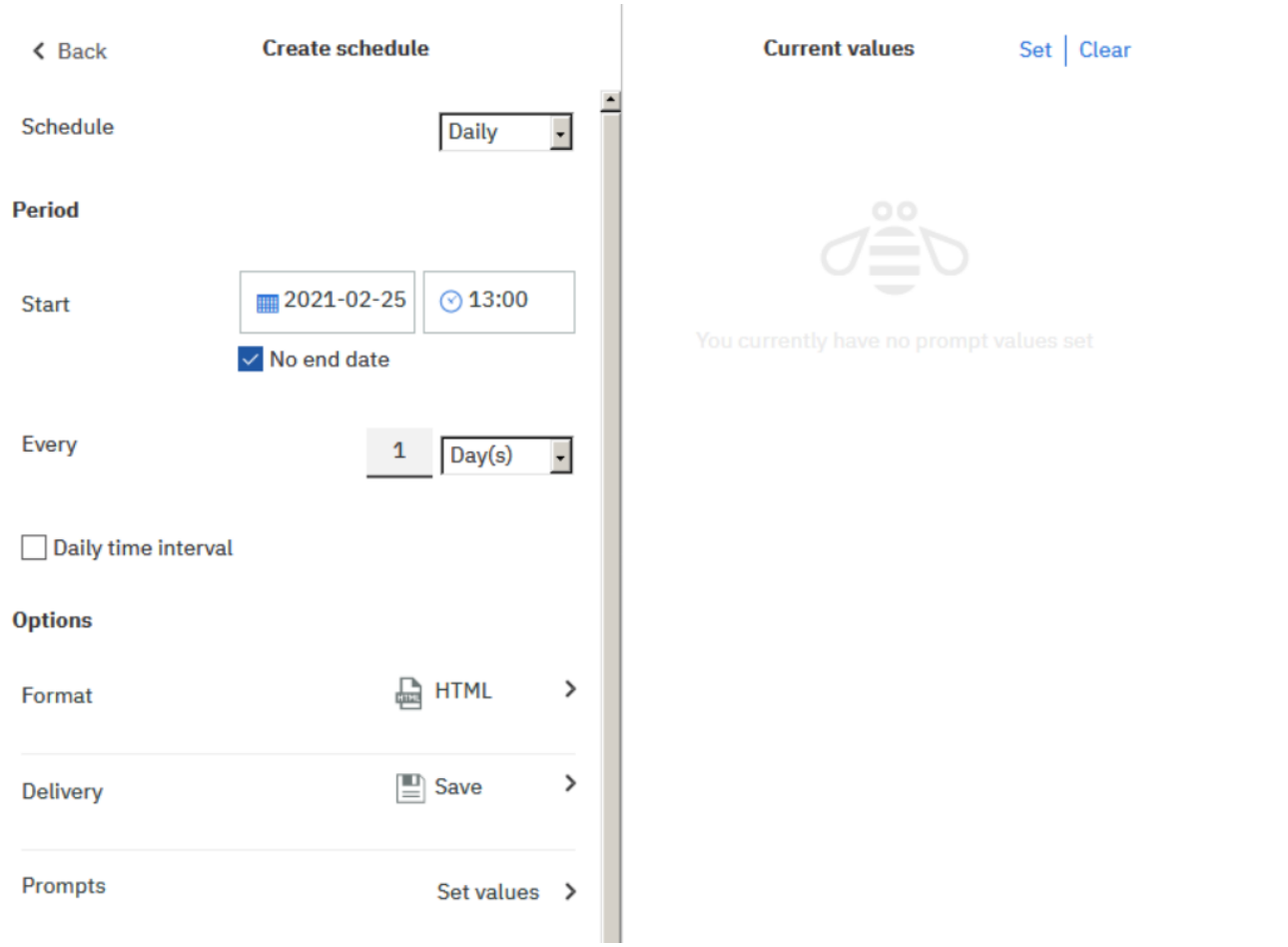


Figure 133 - Welcome page - My content - Properties - Prompts - Set values

Step 9**:** Enter the search criteria on the prompt page and click on "**Finish**".

Step 10**:** Click on the "**Create**" button and the schedule is created.

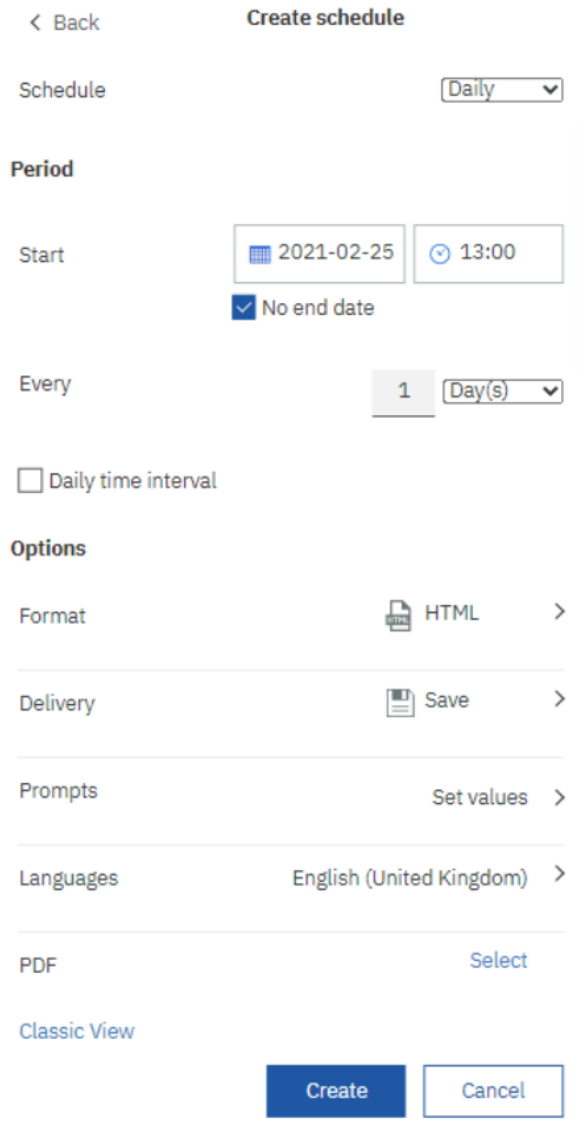


Figure 134 - Welcome page - My content - Properties — Schedule

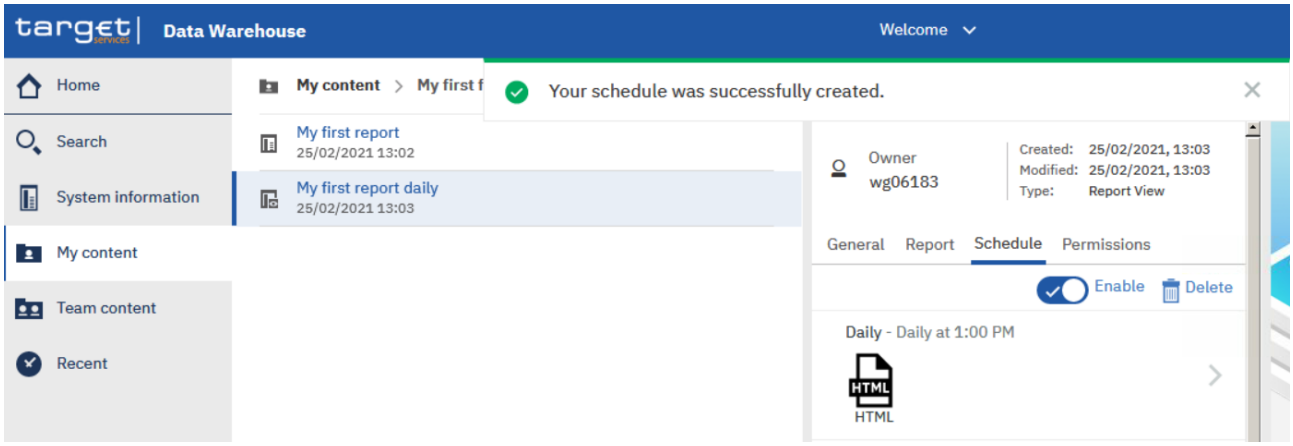


Figure 135 - Welcome page - My content - Properties – Schedule

The option "**Enable**" informs the user that the schedule is active. By unchecking it, the user cancels the schedule.

4.3.3 Scheduling the report for a specific DWH event

You can also schedule a report to be executed shortly after the new data of the last business day was loaded into the DWH. One dedicated DWH internal event will be triggered that starts the execution of the report and either stores it in the "**My content**" folder or sends it out via A2A.

Step 1: Choose the report you have saved as report view, and click on the "**More**" icon (•••) at the right of the report.

Step 2: Click on "**Properties**".

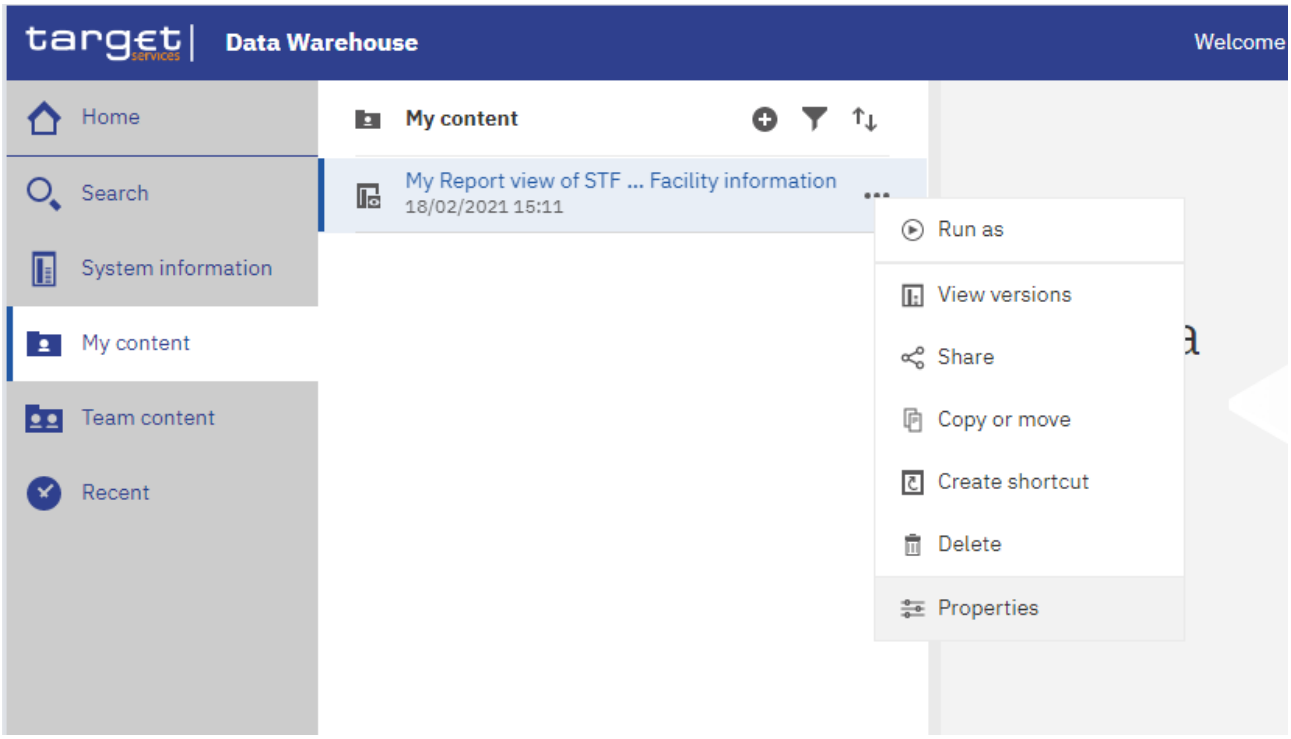


Figure 136 - My content - report view – Properties

Step 3: A description of your report is shown and you can add a description under "**General**".

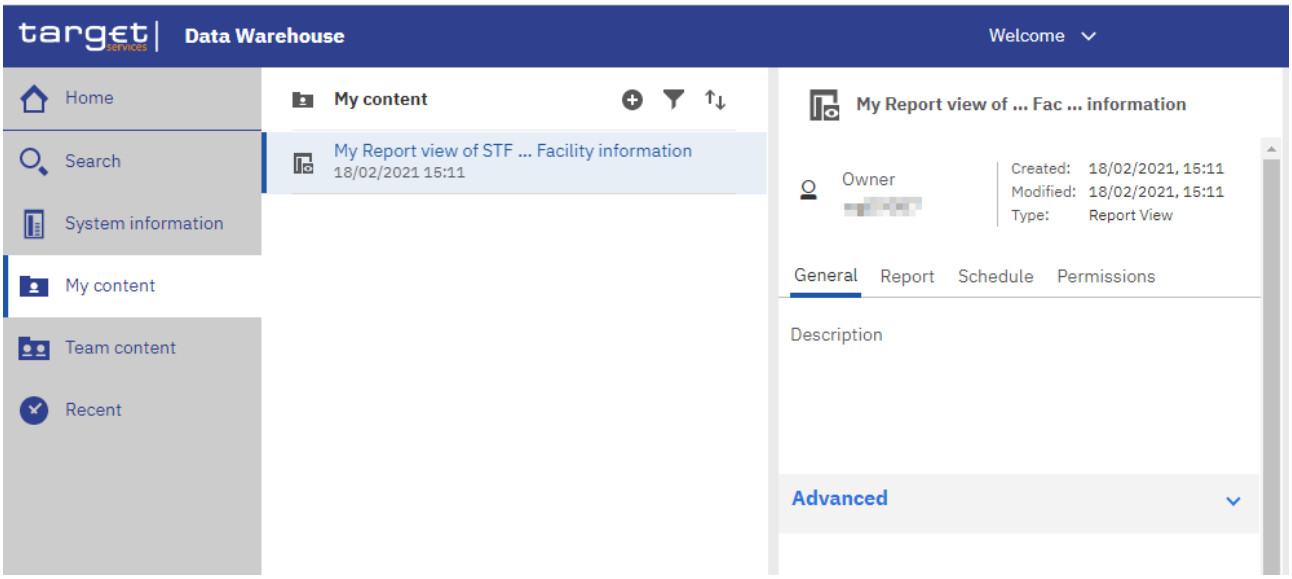
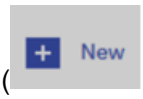


Figure 137 - My content - report view - Properties – General - description of your report

Step 4: In the "**Schedule**" tab you will find the "**New**" (

) icon.

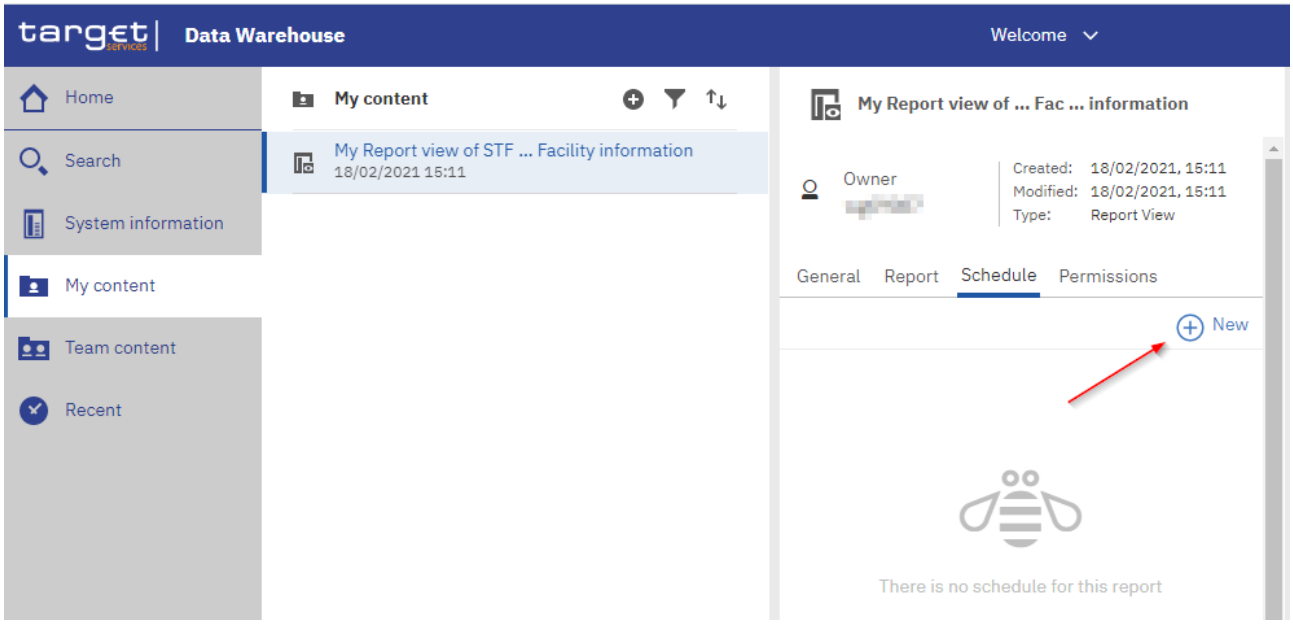
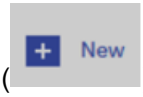


Figure 138 - Welcome page - My content - report view - Properties – Schedule

Step 5: By clicking on the "**New**" icon (

), the "**Schedule**" is opening where you have multiple options to choose for scheduling your report.

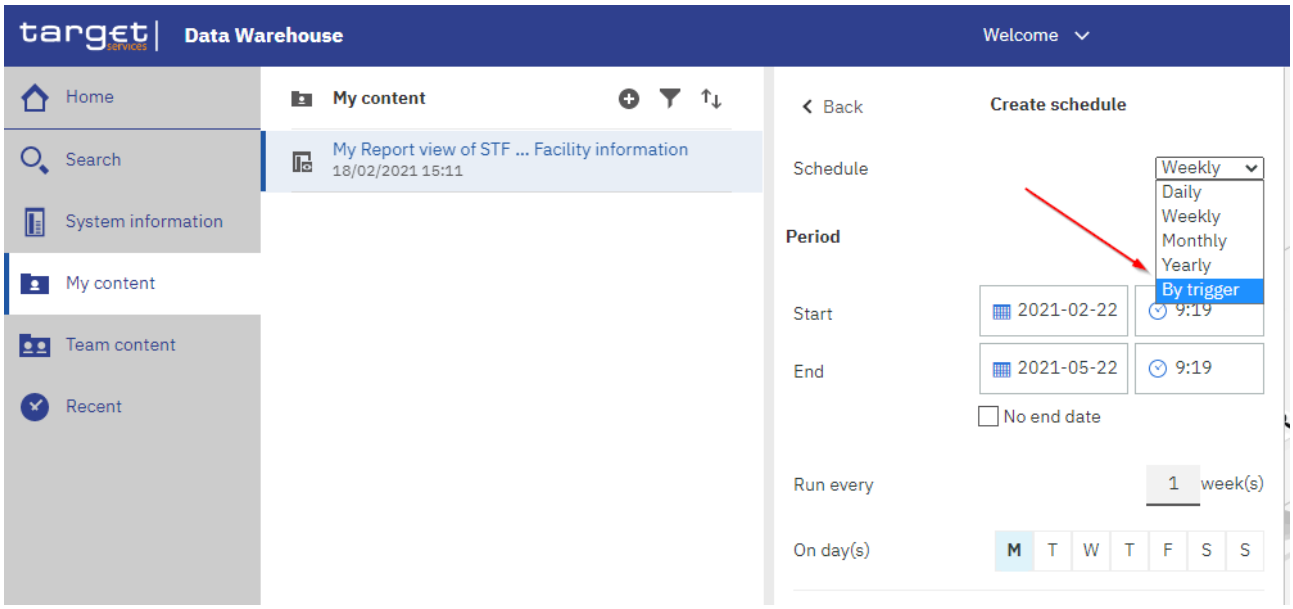


Figure 139 - Welcome page - My content - report view - Properties - create schedule (1)

Step 6: Please select "**By Trigger**" in the pull down list as schedule. In the field "**Trigger name**" you have to choose the adequate trigger as follows: ~~enter the phrase "eodtrigger". Please make sure to type this phrase exactly this way, otherwise the report trigger does not work and the scheduled report will not be executed.~~

"**eodtrigger**" ⇨ EUR

"**eodtrigger_(Currency Code)**" ⇨ for example for DKK: "eodtrigger_dkk"

“**eodtrigger_all**” ⇨ no currency-specific trigger **{CR-173}**

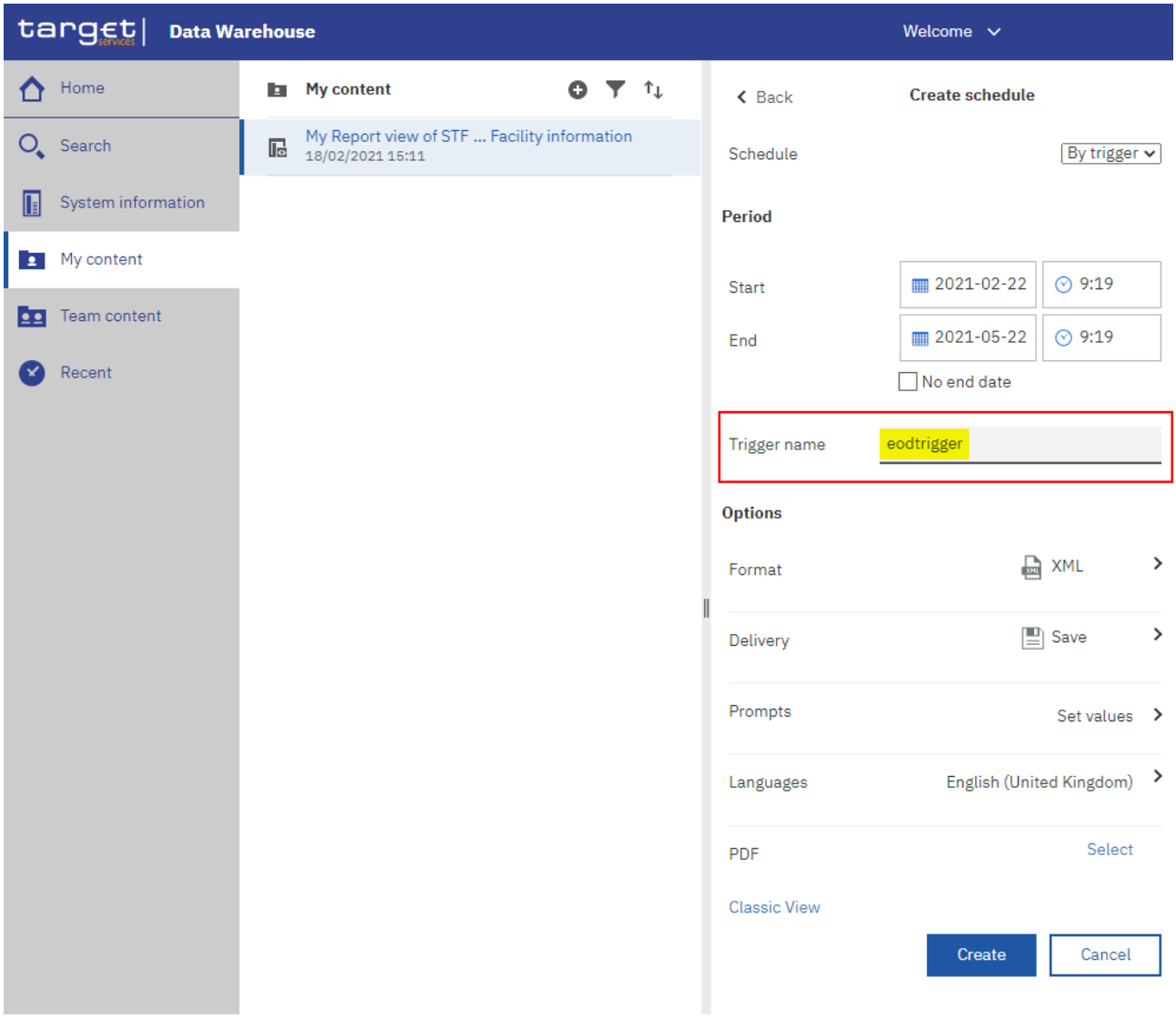


Figure 140 - Welcome page - My content - report view - Properties - create schedule (2)

In this example, you see a daily schedule with no end date, XML as an output, and save the report in DWH.

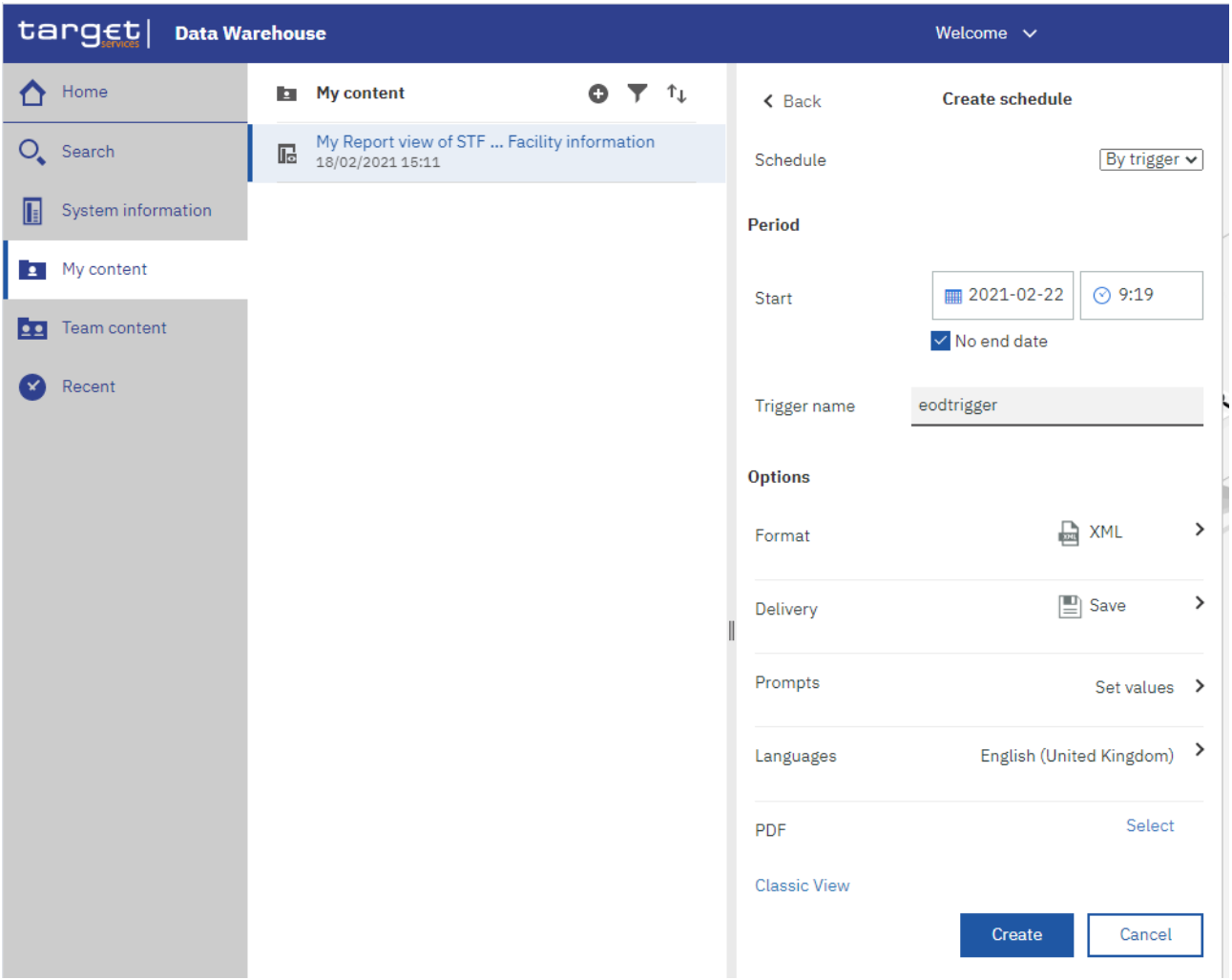


Figure 141 - Welcome page - My content - report view - Properties - create schedule (3)

In case you want to receive the scheduled reports via A2A you have to choose "**Save report as external file**" and follow the information provided in chapter Delivery - Save report (U2A) [▶ 105].

Step 7: It is very important to set the prompt values when scheduling a report to be executed. This can be done by clicking on the arrow next to "**Set values**".

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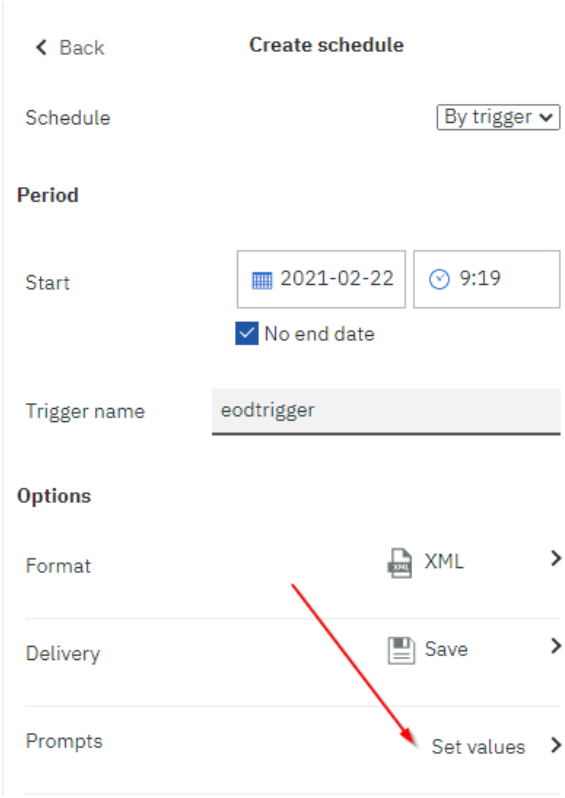

Figure 142 - Welcome page - My content - Properties - Set values

Step 8: The "**Current values**" opens. To enter the prompt page you must click on the "**Set**" icon.

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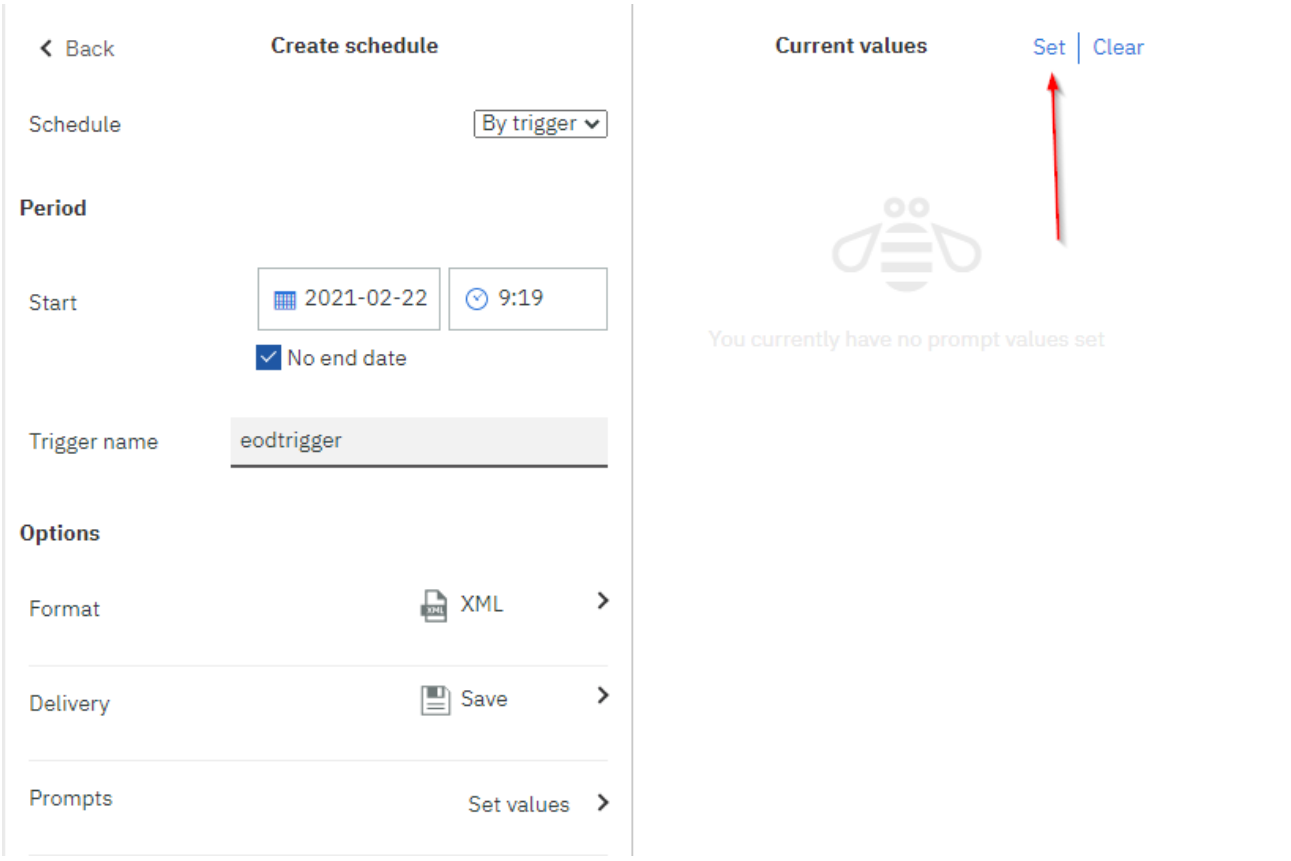

Figure 143 - Welcome page - My content - Properties - Prompts - Set values

Step 9: Enter the search criteria on the prompt page and click on "**Finish**".

Step 10: Click on the "**Create**" button and the schedule is created.

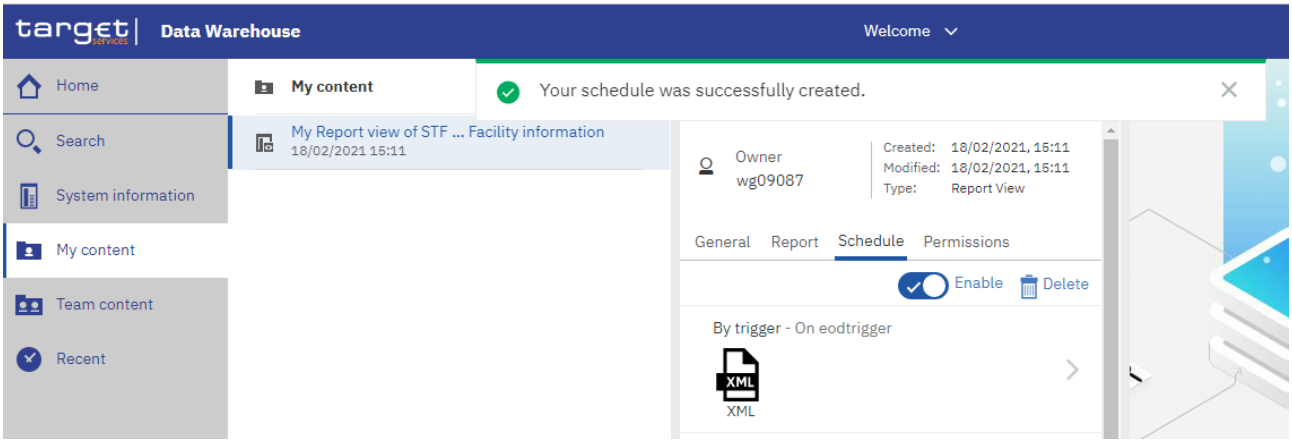

Figure 144 - Welcome page - My content - Properties - Schedule

4.3.4 Check the schedule of your report

Step 1: To check the schedule of your report you have to navigate to the "**Personal menu**".

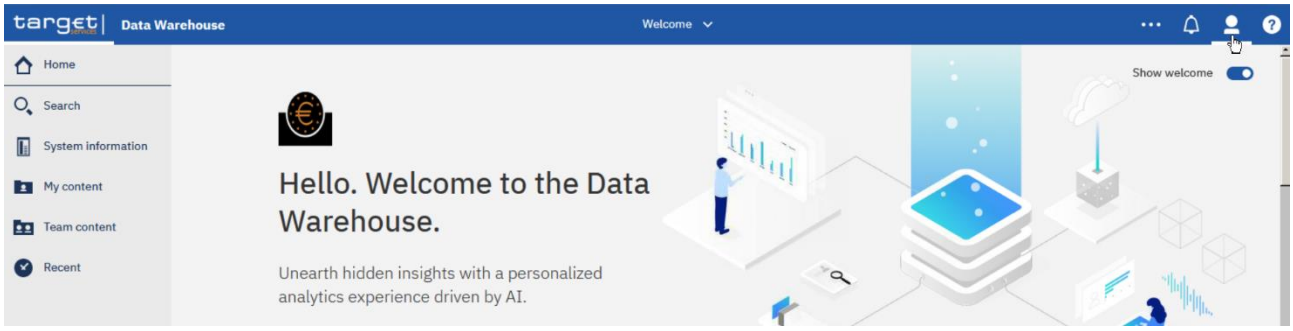

Figure 145 - Welcome page - Personal menu

Step 2: Click on "**My schedules and subscriptions**".

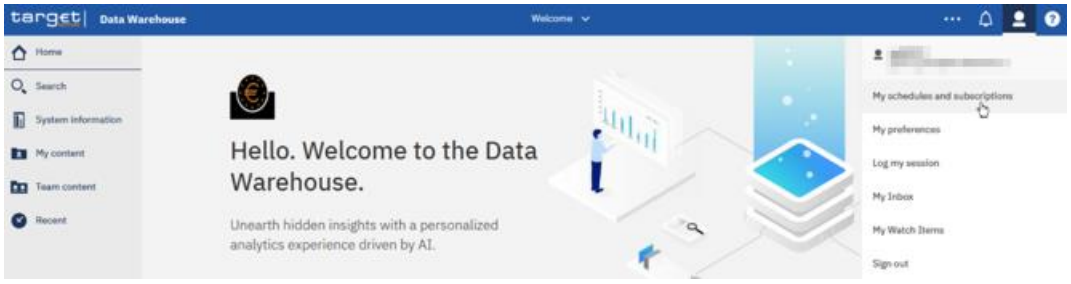

Figure 146 - Welcome page - Personal menu - My schedules and subscriptions

Step 3: You can verify the reports that are scheduled.

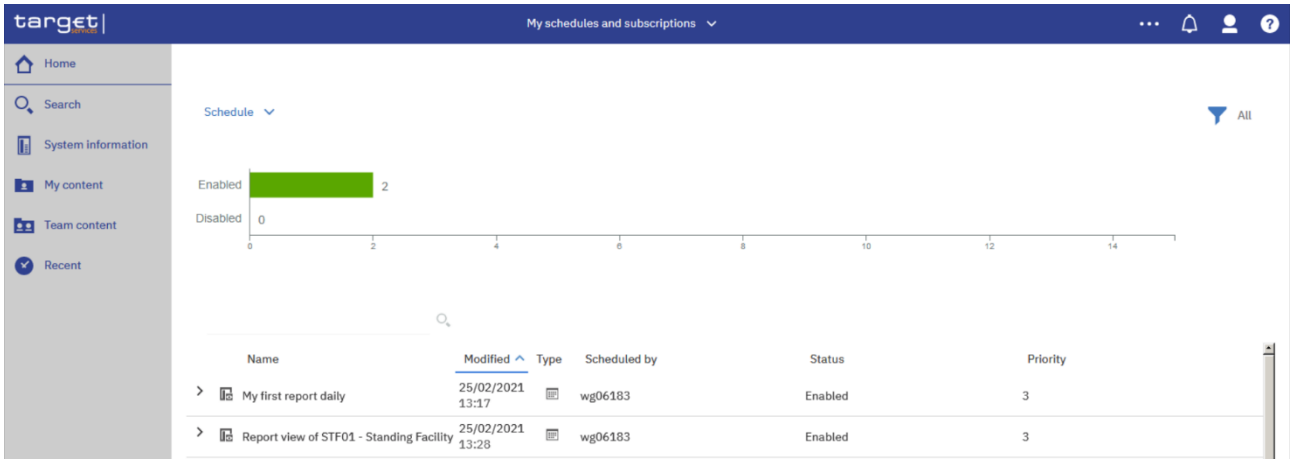

Figure 147 - Welcome page - Personal menu - My schedules and subscriptions - Schedule

Please refer to chapter Personal menu [▶ 50] for further information.

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4.4 Dynamic prompts

4.4.1 Description and function of dynamic prompts

The Dynamic prompts are a new functionality added to Cognos reports. They provide to the user the ability to select a time period that is automatically set by the last business day. The values of these prompts vary depending on the requirements of each report.

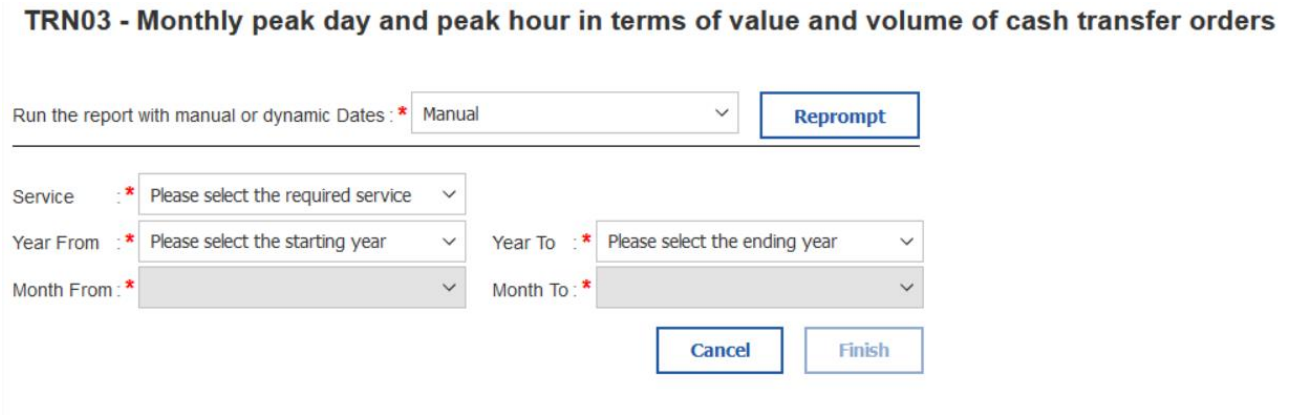

Figure 148 - Previous prompts described as "Manual"

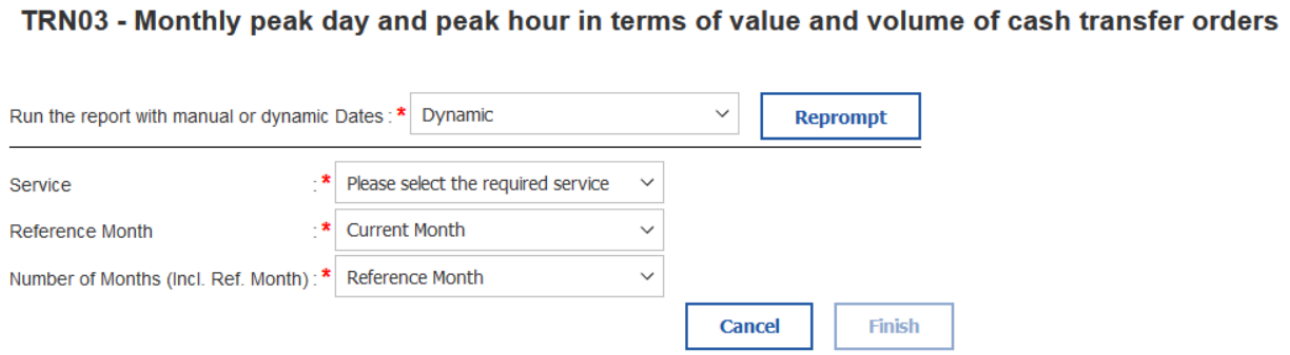

Figure 149 - New prompts described as "Dynamic"

4.4.2 Functionality

The Dynamic prompts use the Last Business Day to filter the data and change dynamically when this date is updated. In order to achieve the result, the user is offered the Reference Interval, which is the point where the date filter is applied. Depending on the report that option could be the Current Day, Previous Day, Current Month, Previous Month, Current Quarter, Previous Quarter. Moreover, depending on the report specifications,

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the user could be prompted to select a time period, starting from the Reference Interval and going back to the past. That time period is again dependent on the Reference Interval.

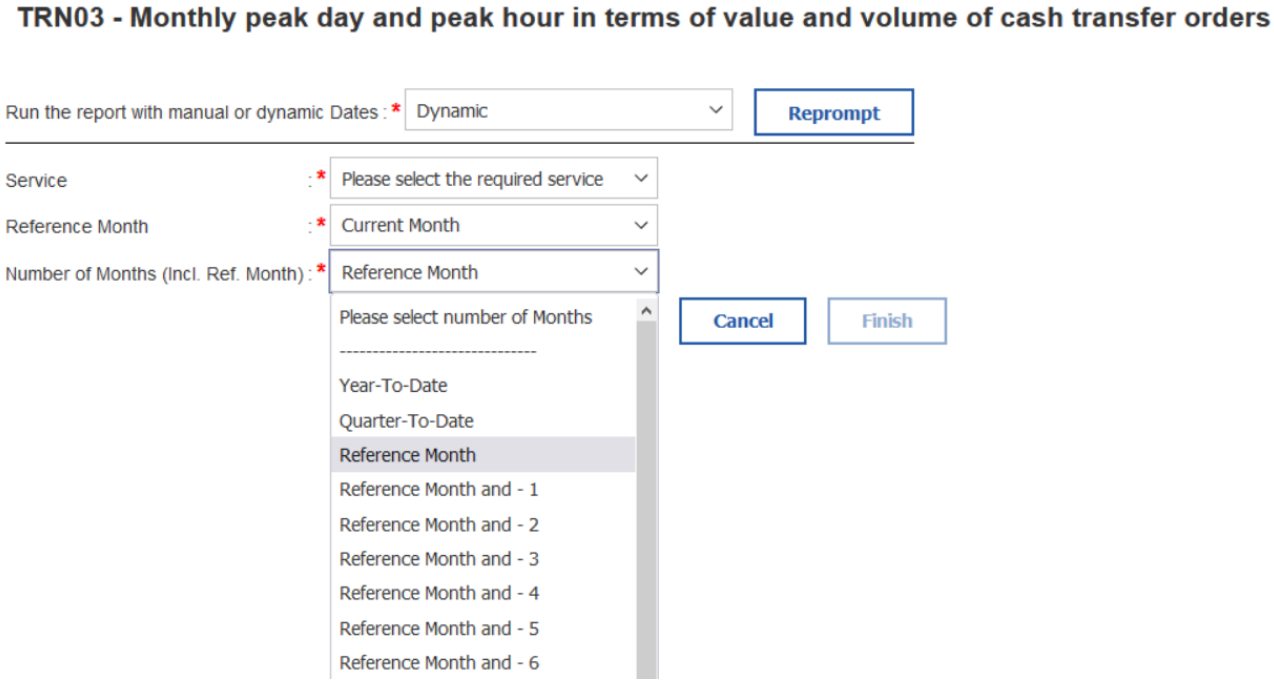

Figure 150 - Dynamic prompts reference interval

4.4.3 How to run a report with dynamic prompt

When a user run a report with dynamic prompts, he is presented with a prompt page having a header with the option to run the report with “Manual” or “Dynamic” Dates. By default, the option “Manual” is preselected.

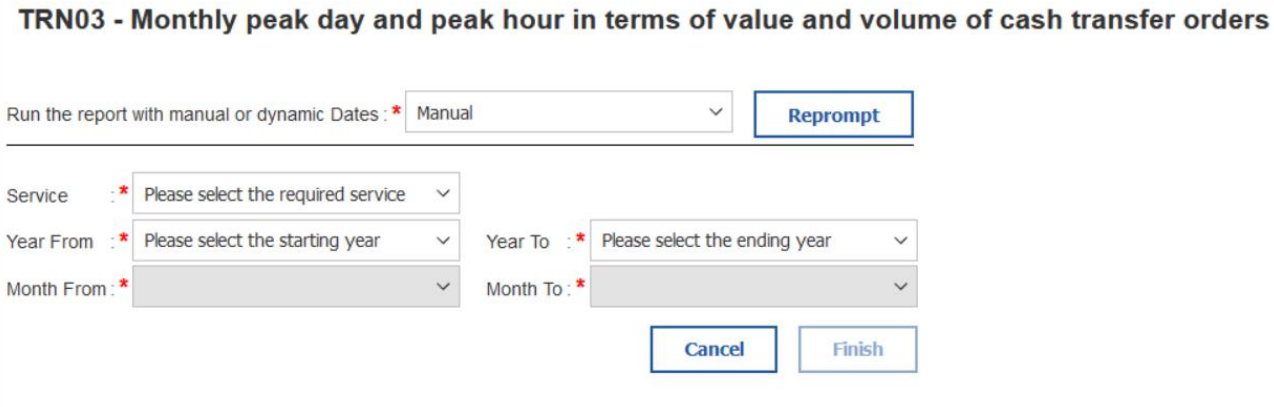

Figure 151 - Running a report with dynamic prompts

By clicking on the drop down “Run the report with manual or dynamic Dates:” the user can find the option “Dynamic”

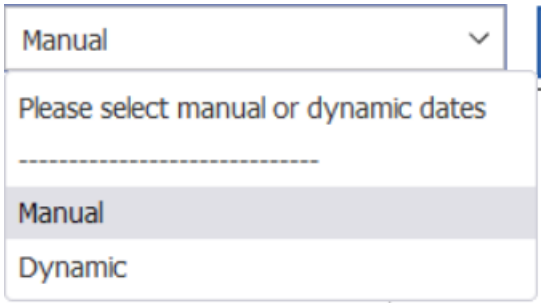

Figure 152 - Select manual or dynamic dates

By selecting the “Dynamic” option, and then clicking on the “Reprompt” button the dynamic prompts are shown:

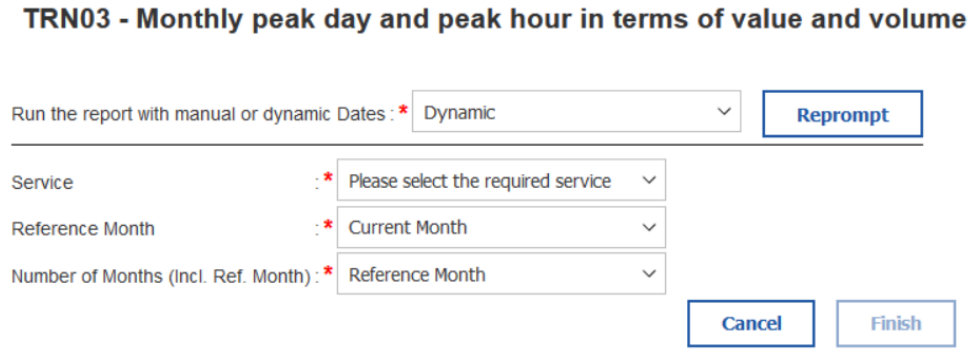

Figure 153 - Dynamic option

In our example the Reference Interval option is the “Reference Month”. By clicking on the Drop down, the user is presented with the Reference Intervals. In this example there is available “Current Month” and the “Previous Month”:

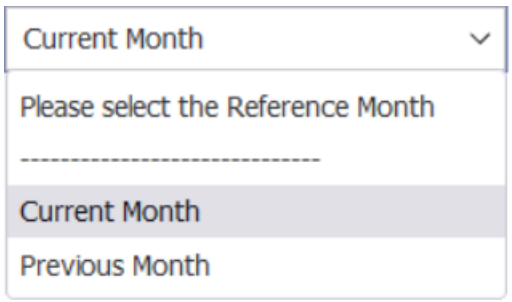

Figure 154 - Reference Month

In this example that option would work as the “Period End”.

The next drop down which is called “Number of Months (Incl. Ref. Month)”, provides the option to go back to the past, in order to filter the results of the report for a time period. In our example the available options are “Year-To-Date”, “Quarter-To-Date”, “Reference Month”, and the options “Reference Month” and – “Number of months”.

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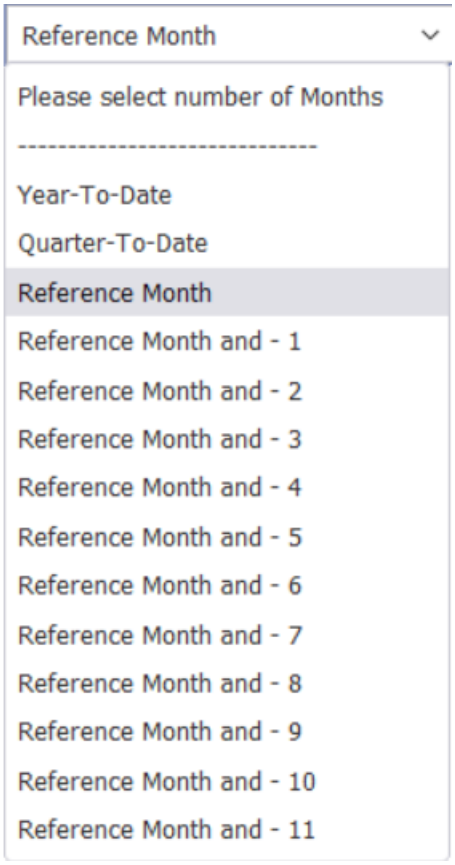

Figure 155 - Reference month options to select

In our example that option would work as the “Period Start”.

For the sake of our example, we will choose “T2 CLM” as “Service” the “Current Month” as the “Reference Month” and the “Year-To-Date” as the “Number of Months (Incl. Ref. Month)”.

After the successful execution of our report, the user is presented with the following results:

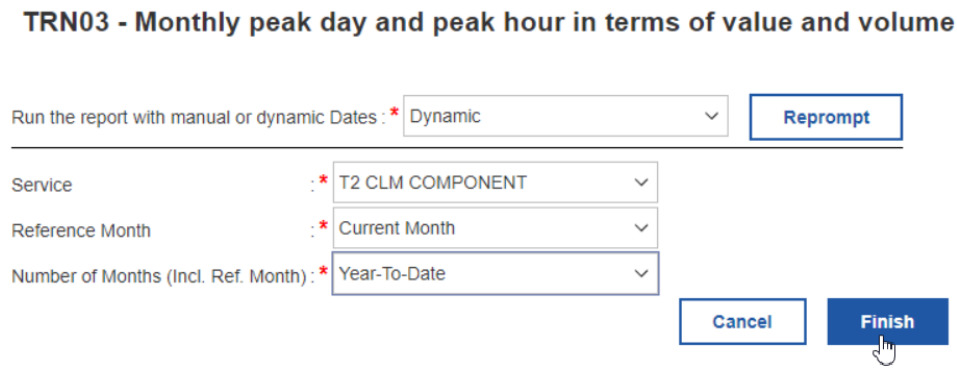

Figure 156 - Dynamic prompt selected with all reference interval

TRN03 - Monthly peak day and peak hour in te order

CBXXAQD0XXX - CSLD BBK QM DWH Test CB1

Filters	Service	:	T2 CLM COMPONENT	
	Reference Month	:	Current Month	2022 - Aug
	Number of Months (Incl. Ref. Month)	:	Year-To-Date	

Currency: **EUR**

Party: **CBXXAQD0XXX - CSLD BBK QM DWH Test CB1**

Year Month: **2022 - 04**

Cash Transfer Status: **Final**

	Peak Day				Peak Hour			
	Top	Date	Value (in million)	Volume	Top	Date and hour	Value (in million)	Volume
In Volume	1	2022-04-28	11.9	13	1	2022-04-11 16:00	0.0	6
	2	2022-04-19	6.0	11	1	2022-04-19 15:00	6.0	6
	3	2022-04-11	6.0	9	1	2022-04-28 11:00	6.0	6
	4	2022-04-12	6.0	8	4	2022-04-12 15:00	6.0	5
	5	2022-04-21	6.0	7	4	2022-04-19 16:00	0.0	5
	5	2022-04-25	6.0	7				

Figure 157 - Report result

In the results the user may see in the header the values “Reference Month” set to “Current Month”, like the user selected in the prompt screen and the value “2022 - Aug” to the right. That value informs the user that the current month in the dataset is set to August of 2022.

Filters	Service	:	T2 CLM COMPONENT	
	Reference Month	:	Current Month	2022 - Aug
	Number of Months (Incl. Ref. Month)	:	Year-To-Date	

Figure 158 - Filters of report executed

The value “Number of Months (Incl. Ref. Month)”, is set to “Year-To-Date” as the user selected in the prompt screen.

Filters	Service	:	T2 CLM COMPONENT	
	Reference Month	:	Current Month	2022 - Aug
	Number of Months (Incl. Ref. Month)	:	Year-To-Date	

Figure 159 - Filters of report executed

After these selections, the results are expected to start from the January of 2022, ending to August of 2022.

In our list of results, we may see results starting from April of 2022:

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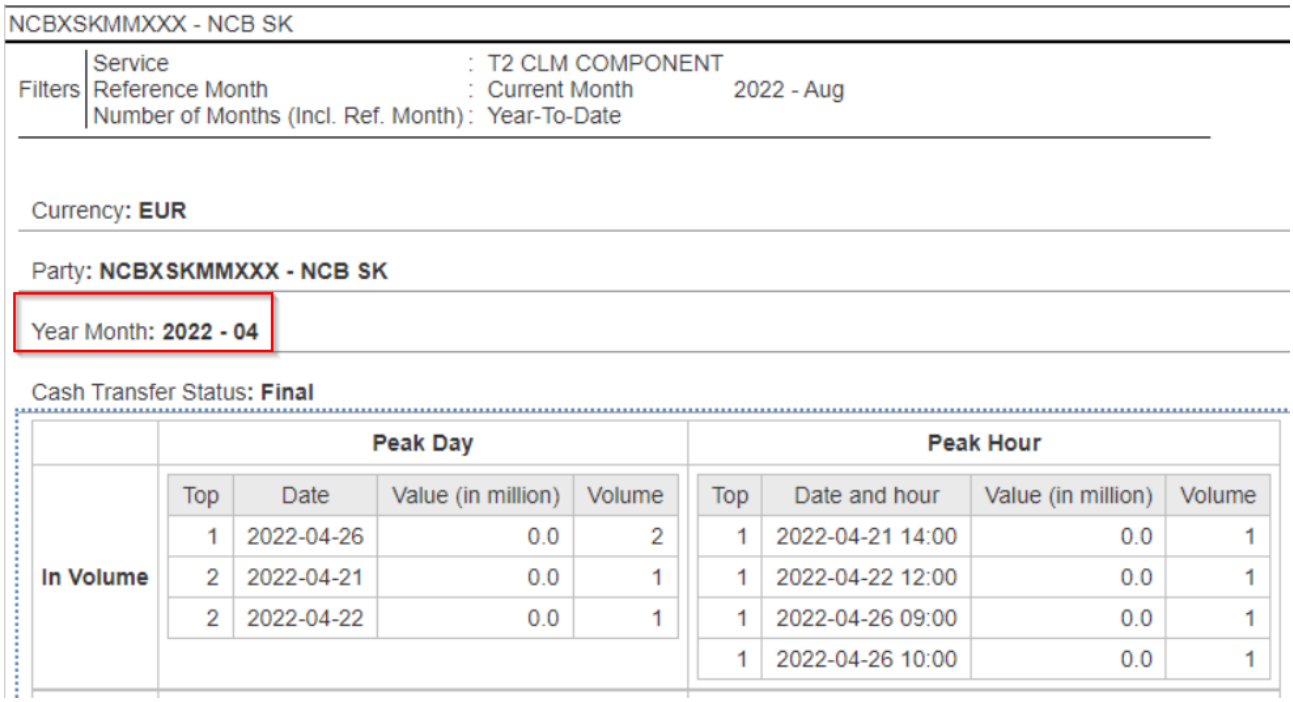


NCBXSKMMXXX - NCB SK

Filters | Service : T2 CLM COMPONENT
Reference Month : Current Month 2022 - Aug
Number of Months (Incl. Ref. Month) : Year-To-Date

Currency: **EUR**

Party: **NCBXSKMMXXX - NCB SK**

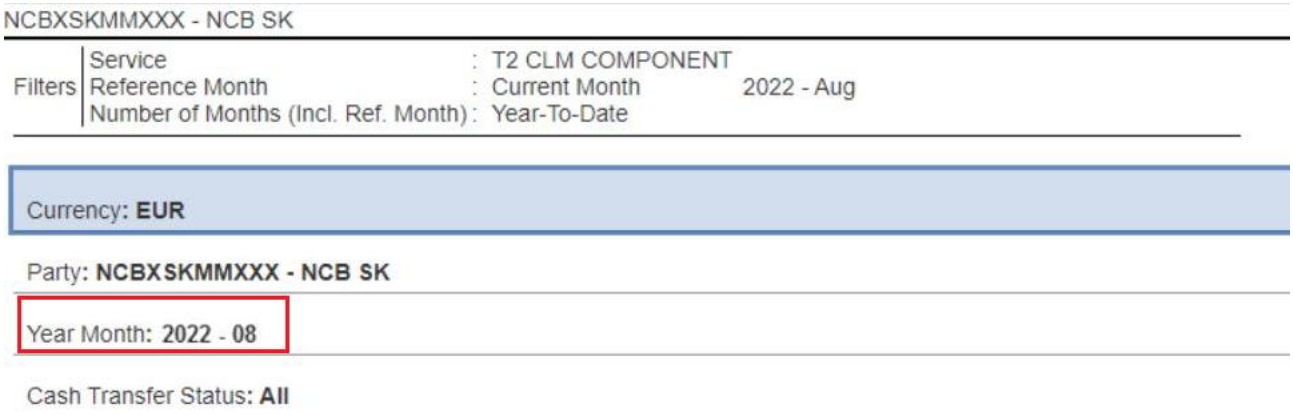
Year Month: **2022 - 04**

Cash Transfer Status: **Final**

	Peak Day				Peak Hour			
	Top	Date	Value (in million)	Volume	Top	Date and hour	Value (in million)	Volume
In Volume	1	2022-04-26	0.0	2	1	2022-04-21 14:00	0.0	1
	2	2022-04-21	0.0	1	1	2022-04-22 12:00	0.0	1
	2	2022-04-22	0.0	1	1	2022-04-26 09:00	0.0	1
					1	2022-04-26 10:00	0.0	1

Figure 160 - Report result with data starting from April

Ending in August 2022



NCBXSKMMXXX - NCB SK

Filters | Service : T2 CLM COMPONENT
Reference Month : Current Month 2022 - Aug
Number of Months (Incl. Ref. Month) : Year-To-Date

Currency: **EUR**

Party: **NCBXSKMMXXX - NCB SK**

Year Month: **2022 - 08**

Cash Transfer Status: **All**

Figure 161 - Report result with data ending on August

Which verifies that our results are correct.

Example with Last Business Date

In this example the Reference Interval option is the “Last Business Date”. By clicking on the Drop down, the user is presented with the Reference Intervals. In this example there is available “Last Business Date” and the “Prior Last Business Date”:

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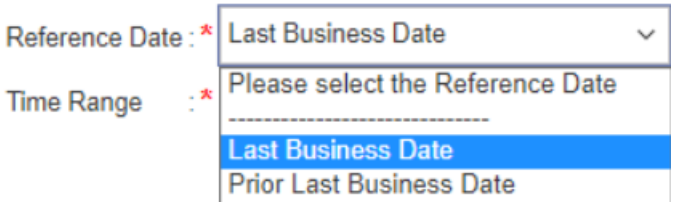


Figure 162 - Last Business Date

The next drop down which is called “Time Range”, provides the option to go back to the past, in order to filter the results of the report for a time period. In our example the available options are “Year-To-Date”, “Quarter-To-Date”, “Month-To-Date”, “Week-To-Date” and the options “Reference Date” and – “Number of months”.

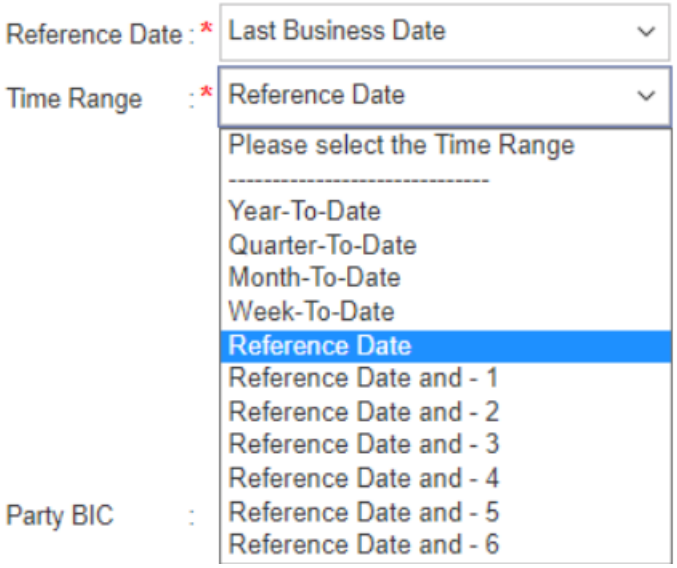


Figure 163 - Time Range options to select

In our example that option would work as the “Period Start”.

For the sake of our example, we will choose “Last Business Date” as “Reference Date” and “Reference Date” as the “Time Range”. After the successful execution of our report, the user is presented with the following results:

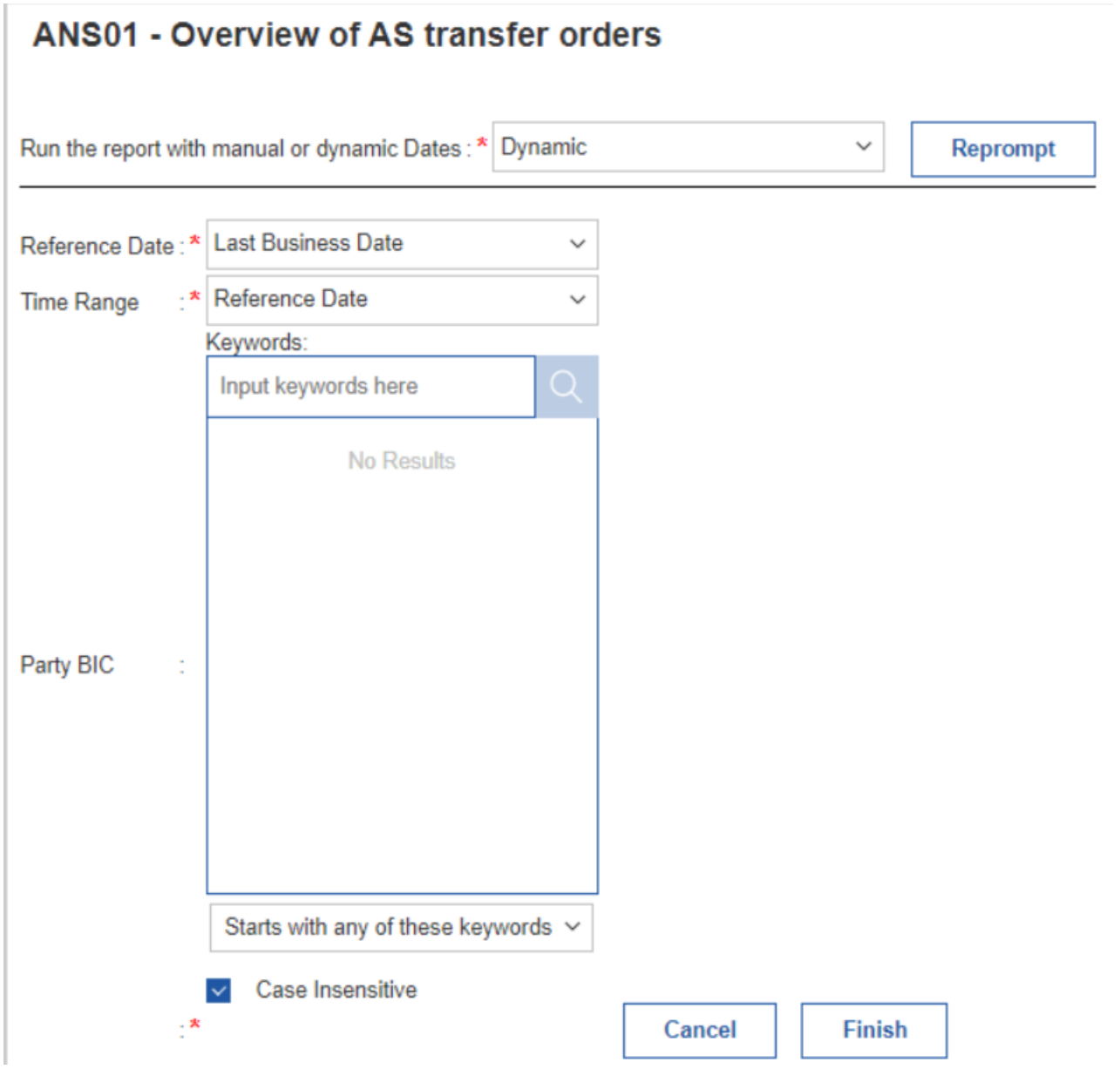


Figure 164 - Dynamic prompt selected with all reference interval

target services

ANS01 - Overview of AS transfer orders

CBXXKMD0XXX - Central Bank of Fiction

Filters | Reference Date : Last Business Date Oct 22, 2019
Time Range : Reference Date Oct 22, 2019

Currency : EUR

AS BIC and short name	AS Settlement procedure	Volume of AS transfer orders		Value of AS transfer orders	
		Settled	Not settled	Settled	Not settled
ASAAKMD0XXX - MetroCapital	A	2,979,833	149,490	3,045,390,347.99	152,778,780
	Total	**2,979,833**	**149,490**	**3,045,390,347.99**	**152,778,780**

Figure 165 - Report result

All rights reserved.

In the results the user may see in the header the values “Reference Date” set to “Last Business Date”, like the user selected in the prompt screen and shows the Last Business day available.

Furthermore we have the “Time Range” set to “Reference Date” which is the Period Start for the report.

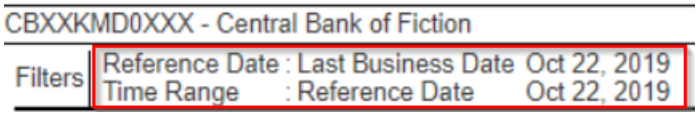


Figure 166 - Filters of report executed

4.4.4 How to schedule a report with dynamic prompt

Click on “Content” > “Team content” and select the folder “Predefined Reports”. Select the folder with the Predefined reports. In our example TRN03

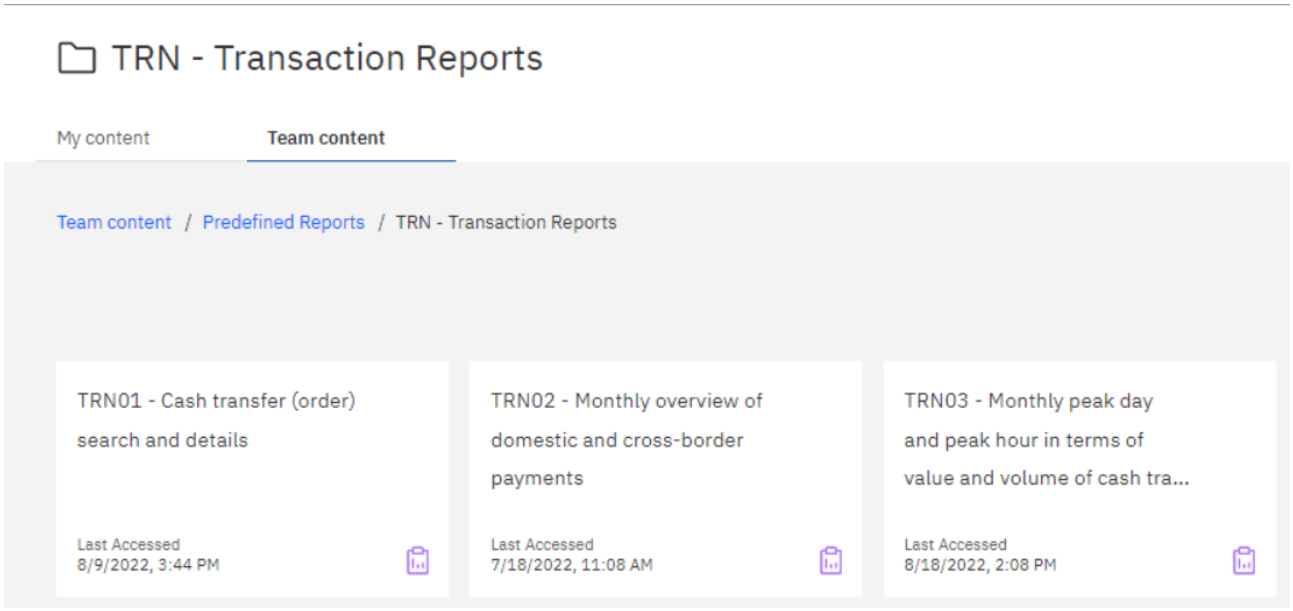


Figure 167 - Scheduling a report with Dynamic prompts

After navigating to the report location, the user may click on the “Action menu” and select “Copy to” to copy the report to the “My content” folder.

All rights reserved.

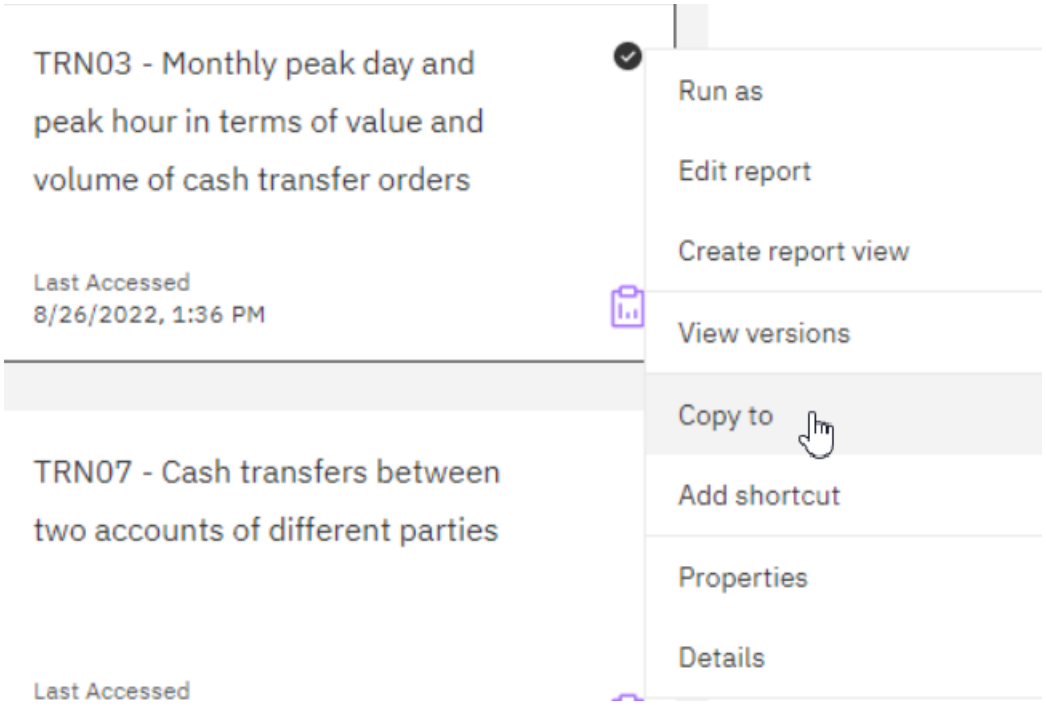


Figure 168 - Scheduling a report with Dynamic prompts - copy to my content folder

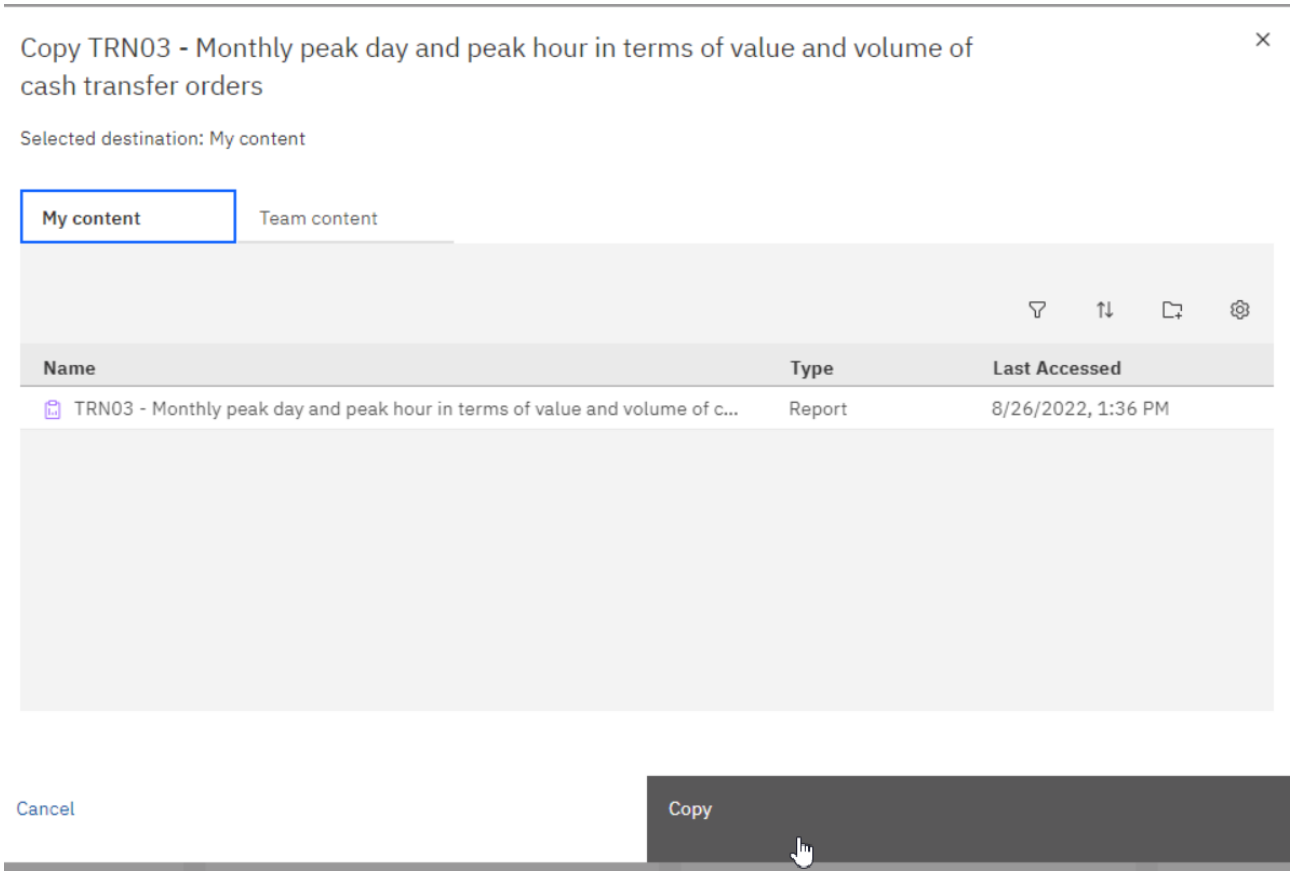


Figure 169 - Scheduling a report with Dynamic prompts - copy to my content folder

From the “My content” folder now click again on the “Action menu” then click on “Properties”

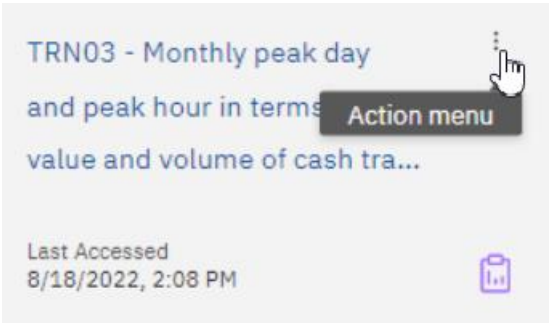


Figure 170 - Scheduling a report with Dynamic prompts - selecting Action menu in copied report

All rights reserved.

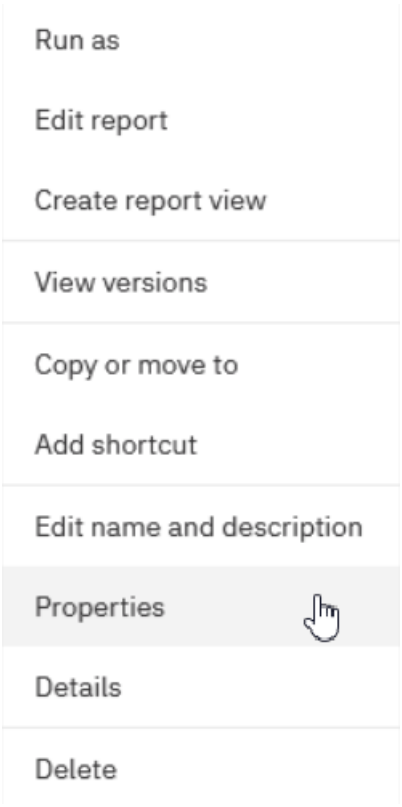


Figure 171 - Scheduling a report with Dynamic prompts - Action menu – properties

Then, the user is shown a menu at the right side.

All rights reserved.

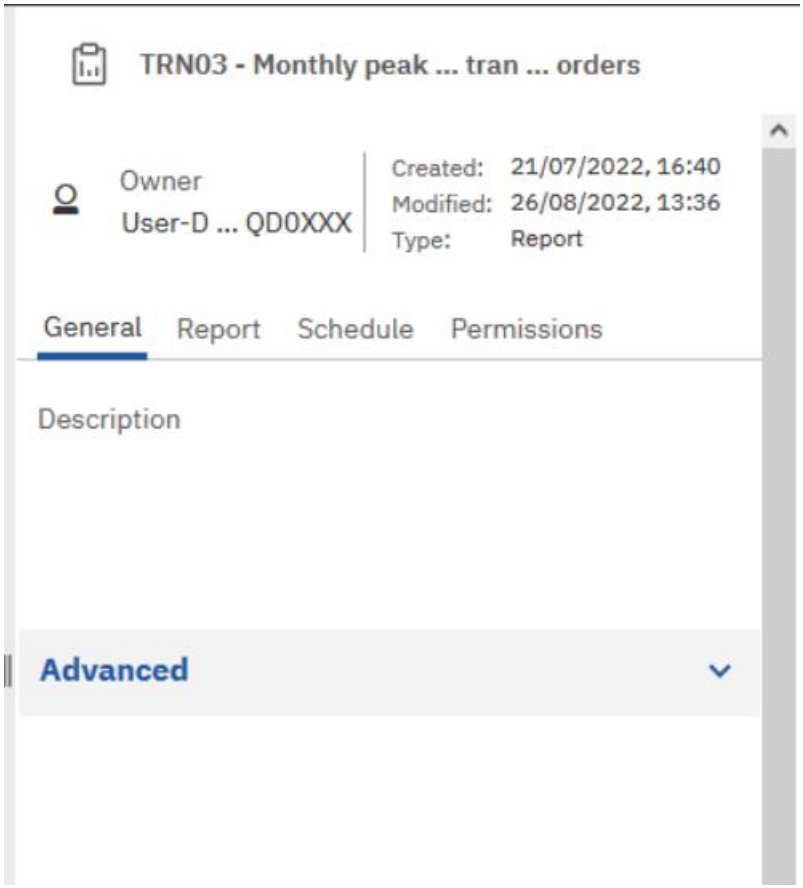


Figure 172 - Scheduling a report with Dynamic prompts - Action menu - properties menu

By clicking on the “Schedule” tab, the user is prompted to create a new schedule:

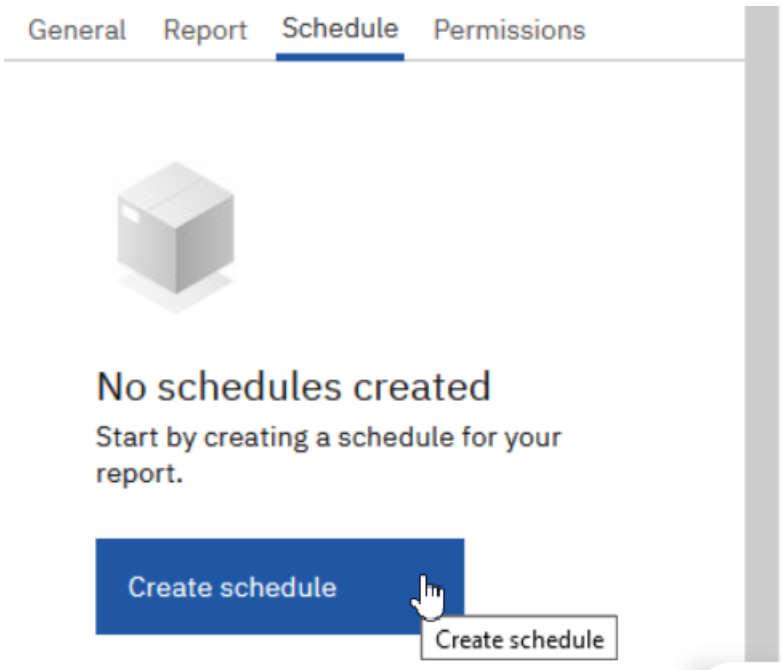


Figure 173 - Scheduling a report with Dynamic prompts - create schedule

All rights reserved.

By clicking on the “Create schedule” button the user is presented with a window having the schedule options:

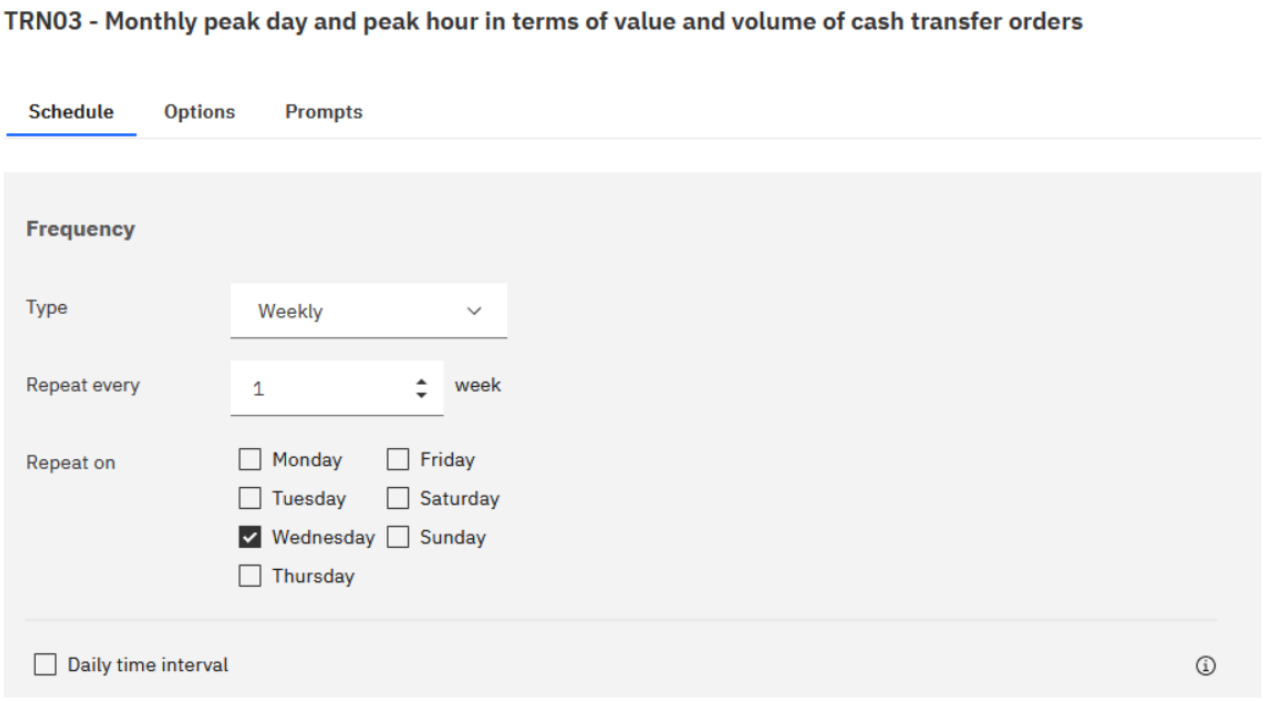


Figure 174 - Scheduling a report with Dynamic prompts - schedule menu - Schedule

Where someone could choose how often the report should be executed. The tab “Options” provides choices regarding the format of the report:

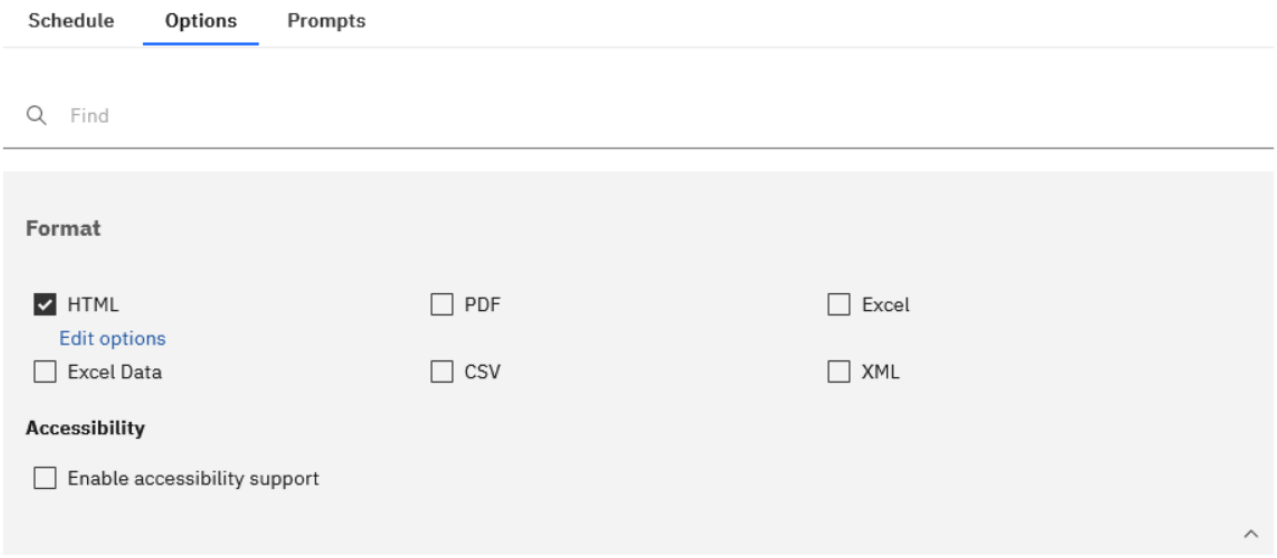


Figure 175 - Scheduling a report with Dynamic prompts - schedule menu - Options

Finally, the tab “Prompts” allows the user to set prompts by clicking on the “Set values” button:

All rights reserved.

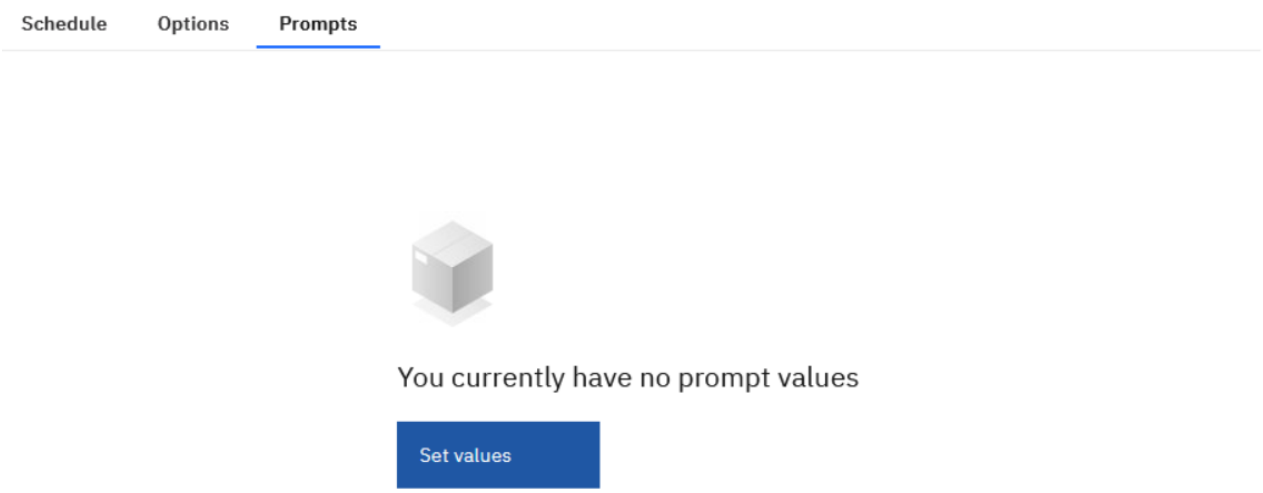


Figure 176 - Scheduling a report with Dynamic prompts - schedule menu - Prompts

At first, the user is shown the existing “static” prompts having manual dates:

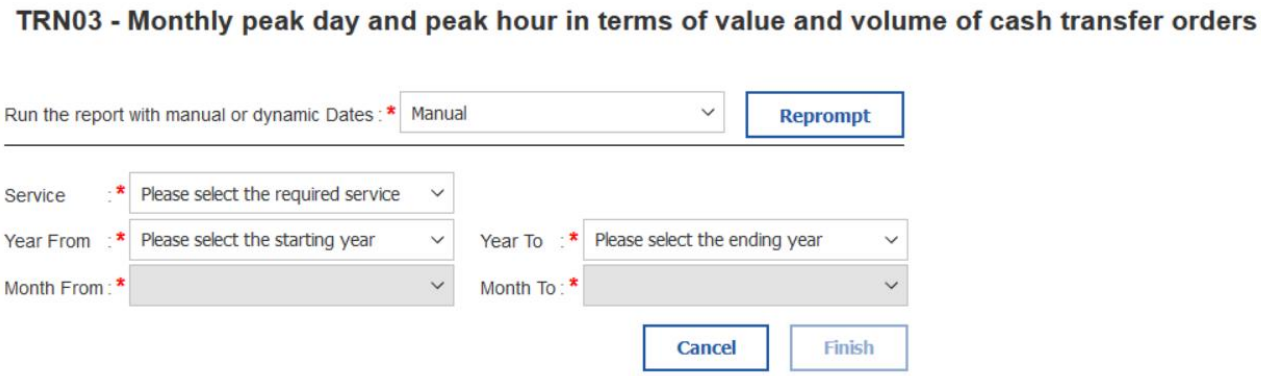


Figure 177 - Scheduling a report with Dynamic prompts - static prompt page

In order to schedule the report using the new “dynamic dates” the user should click on the drop down “Run the report with manual or dynamic Dates:” select “Dynamic” and then click on “Reprompt” button.

All rights reserved.

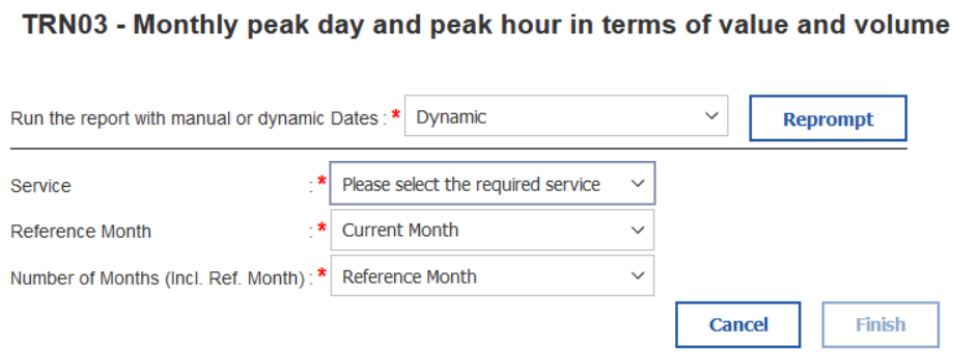


Figure 178 - Scheduling a report with Dynamic prompts - Dynamic prompt page

In that case the user is presented to the dynamic date prompts, where you could select the new available options. In our example, let us use the Service “T2 CLM” and “Current Month” as the Reference Month, and “Year-To-Date” as the “Number of Months (Incl. Ref. Month)”.

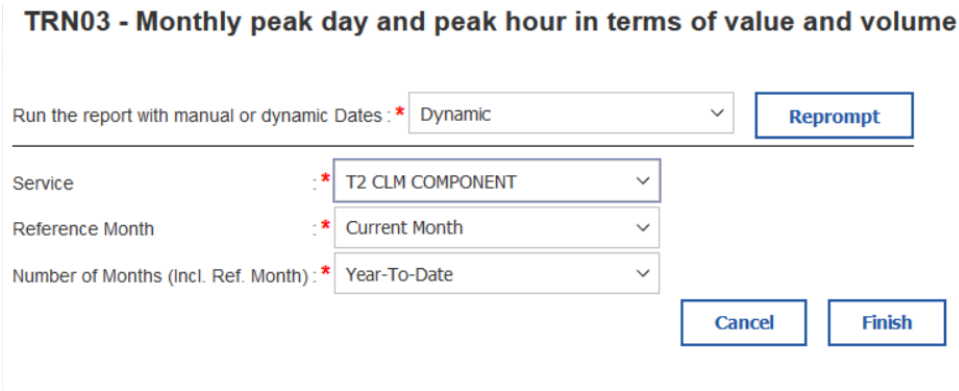


Figure 179 - Scheduling a report with Dynamic prompts - Dynamic prompt page with reference intervals selected

After clicking on “Finish”, the user is shown a window with the choices made:

All rights reserved.

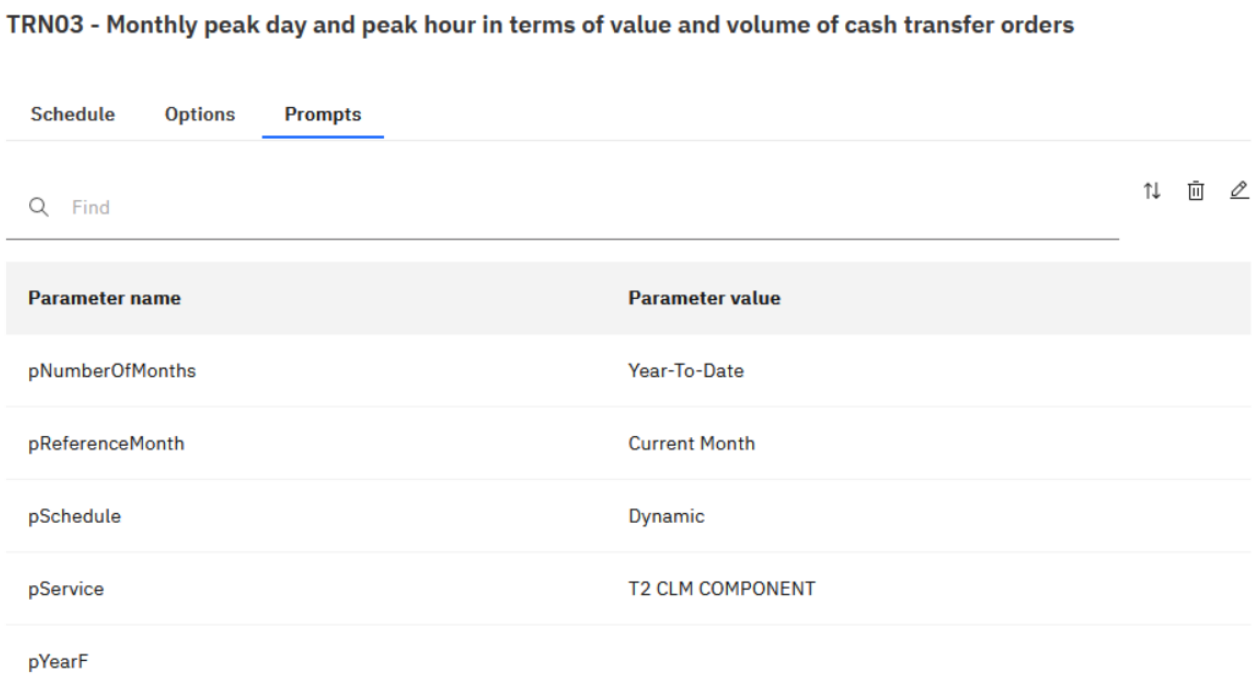


Figure 180 - Scheduling a report with Dynamic prompts - Dynamic prompt page with reference intervals selected

And by clicking on “Save” button

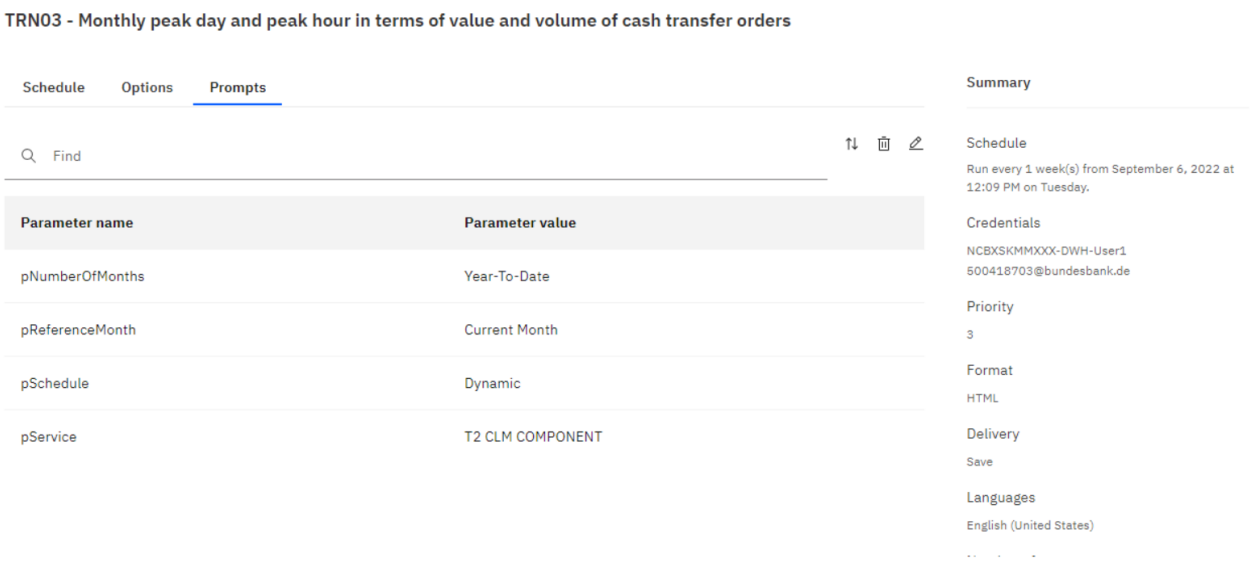


Figure 181 - Scheduling a report with Dynamic prompts - Dynamic prompt page with reference intervals selected

The choices are saved and the Schedule is created:

All rights reserved.

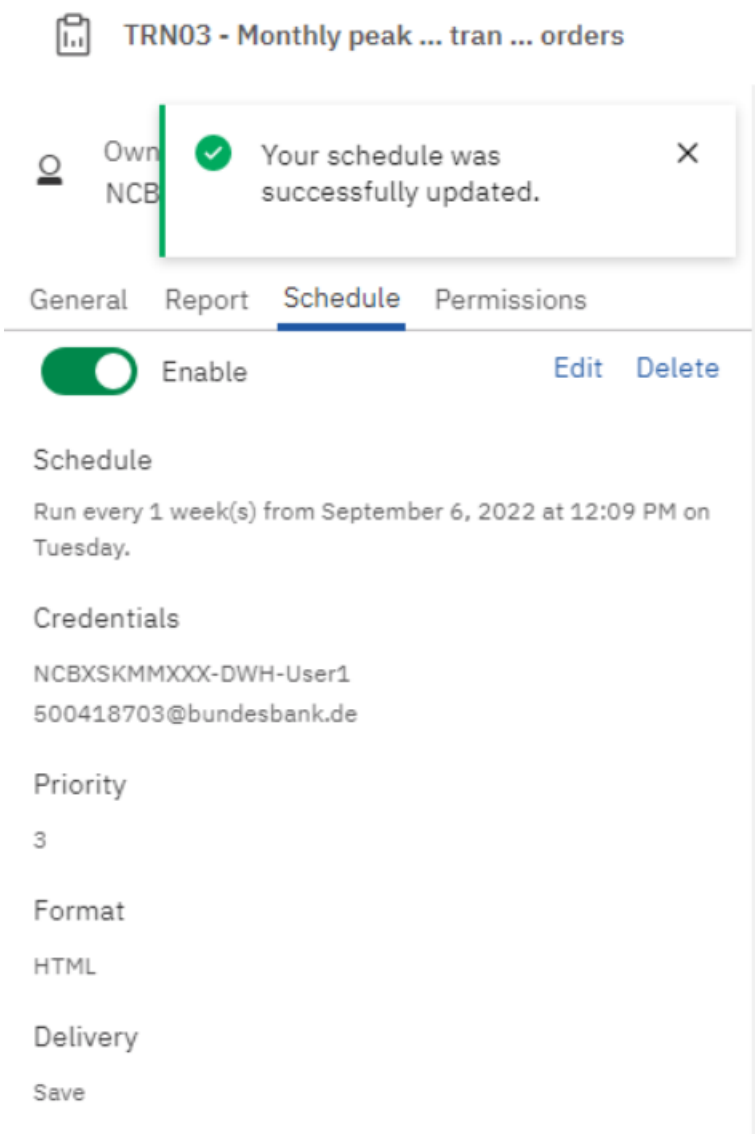


Figure 182 - Scheduling a report with Dynamic prompts - successfully created

5 Predefined reports

5.1 Ancillary systems reports (ANS)

5.1.1 ANS01 – Overview of AS transfer orders

Context of usage

The report ANS01 provides information on the total volume and value of AS transfer orders differentiated by AS name and BIC that were settled (or not settled) on (or within) a given date (range).

CBs can retrieve information for AS belonging to their system entity.

This report can be used by CB and AS users.

Report access

This report can be reached in the following way:

[Team Content] >> [Predefined Reports] >> [ANS – Ancillary System Reports] >> [ANS01]

Screenshot – prompt

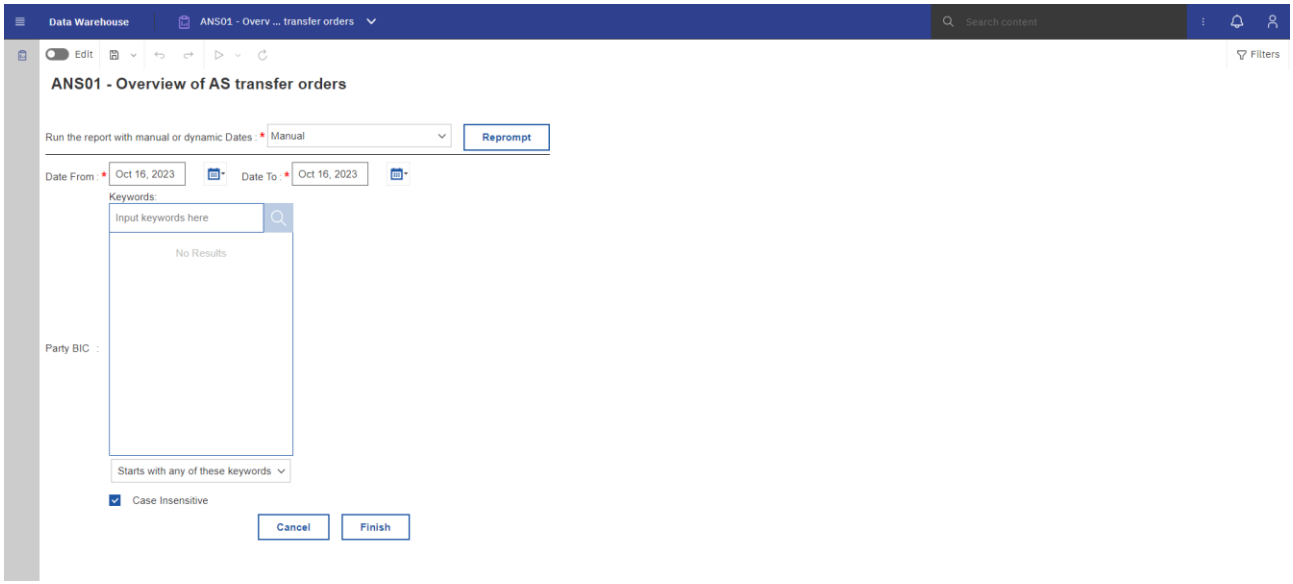


Figure 183 - ANS01 prompt – Manual

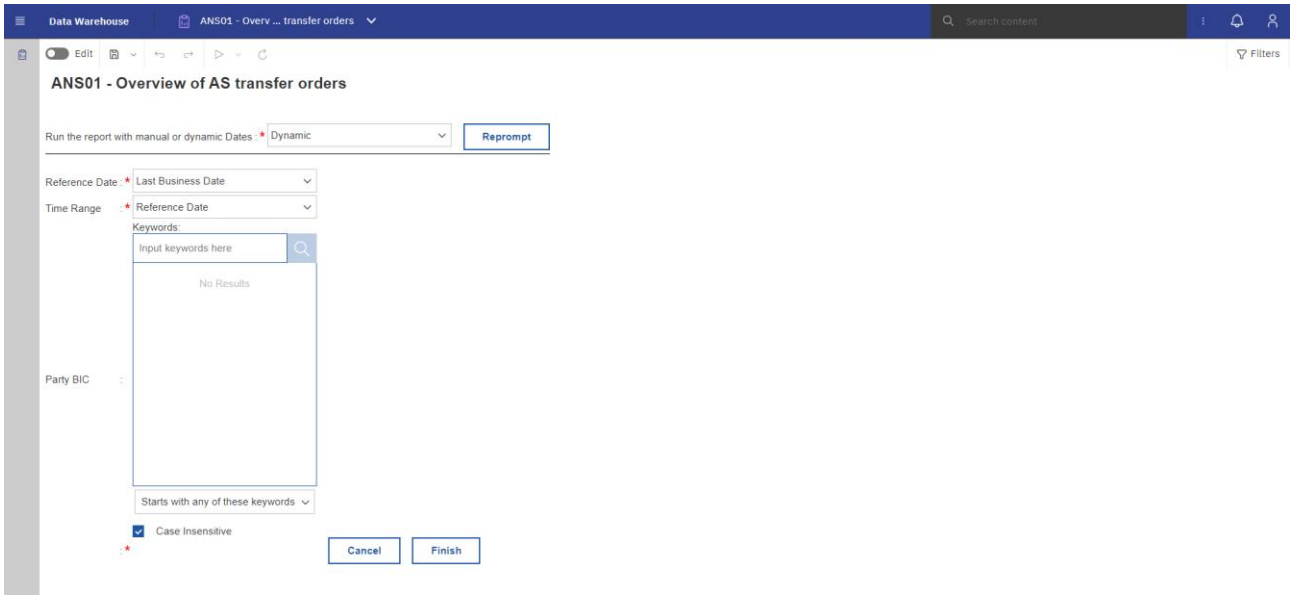


Figure 184 - ANS01 prompt - Dynamic

Prompt description

ANS01 – Report description – prompt screen - Manual	
Field label	**Description**
Date From	You can select the date by clicking on the calendar. This field is mandatory.
Date To	You can select the end date of the period, for which the report should contain the data by clicking on the calendar. For valid report results, the current day cannot be selected. This field is mandatory.
Party BIC	You can use this drop-down field to select the party BIC. This field will show all party BICs within the data scope of the user's party. This field is optional.

Table 1 - ANS01 - Report description - Prompt screen - Manual

ANS01 – Report description – prompt screen - Dynamic	
Field label	**Description**
Reference Date	Indicates the end-point of the date range for which the dynamic report should contain data. Valid values: - Last Business Day - Prior Last Business Day The system will automatically calculate the end of the date range based upon the date at the time of execution.
Time Range	Indicates the start-point of the date range for which the dynamic report should contain data. The system will automatically calculate the start of the date range based upon the date at the time of execution.
Party BIC	You can use this drop-down field to select the party BIC. This field will show all party BICs within the data scope of the user's party. This field is optional.

Table 2 - ANS01 - Report description - Prompt screen - Dynamic

Screenshot - output screen

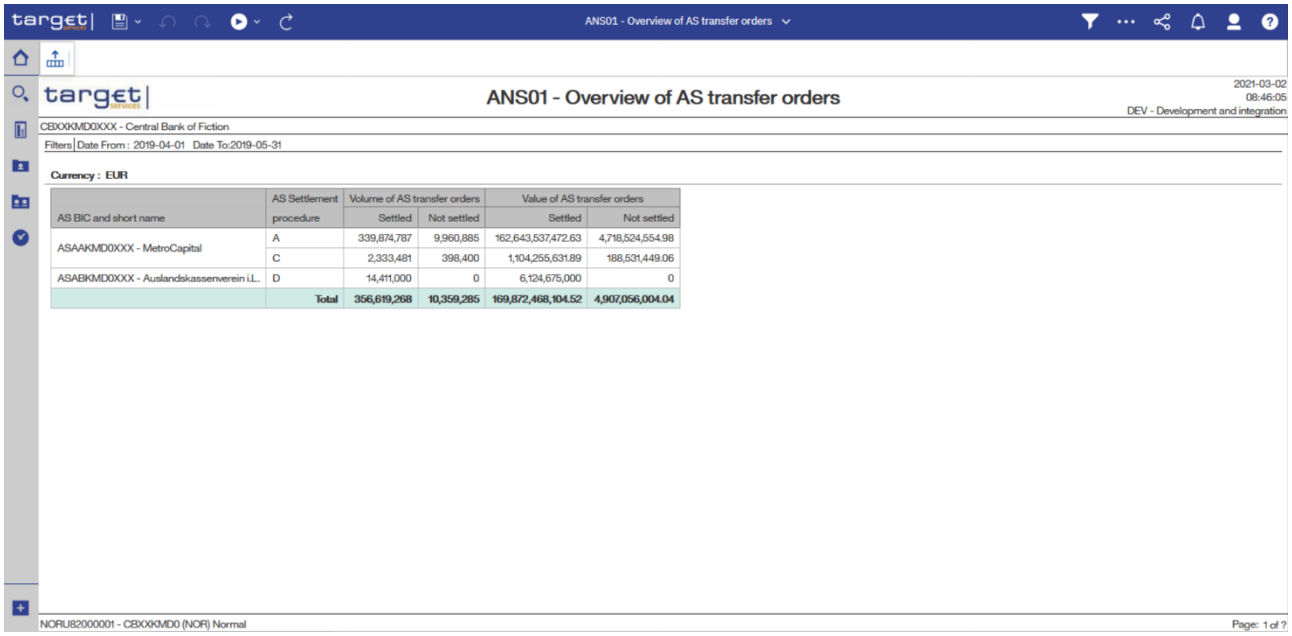


Figure 185 - ANS01 output

Output description

ANS01 – Report description – output screen	
Field label	**Description**
AS BIC and short name	BIC and short name of the AS
AS settlement procedure	AS settlement procedure Possible Values: A, B, C, D, E
Volume of AS transfer orders – Settled	Number of AS transfer orders which were settled or partially settled for the respective AS in the chosen date range is reflected.
Volume of AS transfer orders – Not settled	Number of AS transfer orders which were not settled (i.e. cancelled (revoked) or rejected) for the respective AS in the chosen date range.
Value of AS transfer orders – Settled	Sum of amounts of all AS transfer orders which were settled or partially settled for the respective AS in the chosen date range.
Value of AS transfer orders – Not settled	Sum of amounts of all AS transfer orders which were not settled (i.e. cancelled (revoked) or rejected) for the respective AS in the chosen date range.

Table 3 - ANS01 - Report description - Output screen

5.1.2 ANS02 – Daily average of AS transfers

Context of usage

The report ANS02 provides information on the daily average volume and value of AS transfers settled within a given month (range) and differentiated by system entity/CB.

CBs can retrieve aggregated volume and value information for each system entity/CB.

This report can be used by CB users only.

Report access

This report can be reached in the following way:

[Team Content] >> [Predefined Reports] >> [ANS – Ancillary System Reports] >> [ANS02]

All rights reserved.

Screenshot – prompt

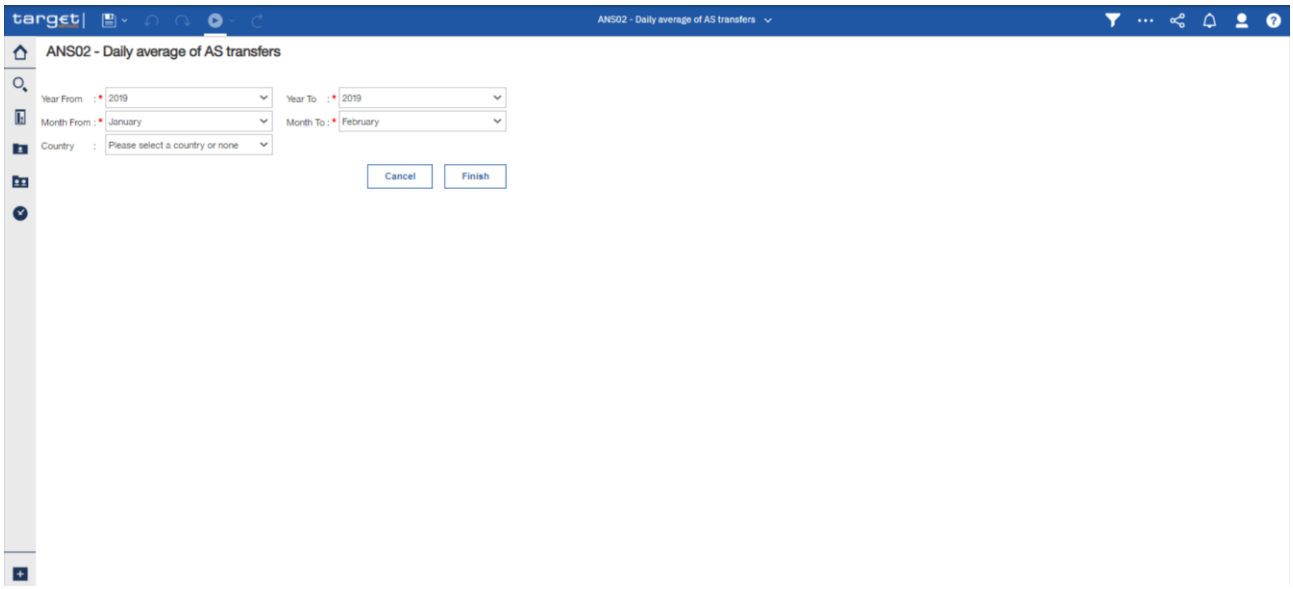


Figure 186 - ANS02 Prompt

Prompt description

ANS02 – Report description – prompt screen	
Field label	**Description**
Year From	You can use this drop-down field to select the year, from which the report should contain the data. This field is mandatory.
Month From	You can use this drop-down field to select the month, from which the report should contain the data. For valid report result, the current month cannot be selected. This field is mandatory.

Year To	You can use this drop-down field to select the end year, for which the report should contain the data. This field is mandatory.
Month To	You can use this drop-down field to select the end month, for which the report should contain the data. For valid report result current month cannot be selected. This field is mandatory.
Country Code	You can select the Country Code of the related Party. This field is optional.

Table 4 - ANS02 - Report description - Prompt screen

Screenshot - output screen

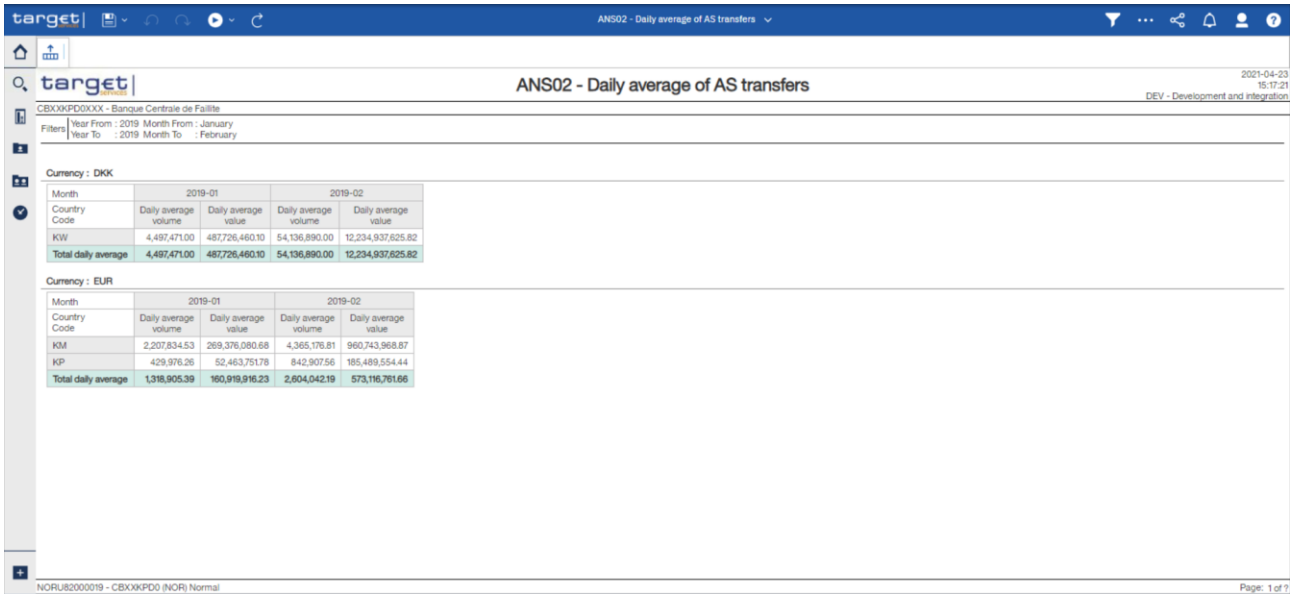


Figure 187 - ANS02 output

Output description

ANS02 – Report description – output screen The output table will be repeated for each currency and for every selected month in the search prompt. It is sorted by country code.	
Field label	**Description**
Month	Month and Year AS transfer orders which were settled or partially settled within the scope of the respective CB during this month are reflected.
Country Code	Country Code for all available CBs or for the one selected in the search prompt.
Daily average volume	Daily average AS transfer volume for this CB in this month.
Daily average value	Daily average AS transfer value for this CB in this month.
Total daily average volume	The total daily average for a month as sum of daily averages for all CBs divided by the number of CBs.
Total daily average value	The total daily average for a month as sum of daily averages for all CBs divided by the number of CBs.

Table 5 - ANS02 - Report description - Output screen

5.2 Business day reports (BDY)

5.2.1 BDY01 – Business Day event/delay information on settlement opening time

Context of usage

This report provides information on the daily timing of business day events and on delays in periods of the business Day for CLM or RTGS.

For each time-based event of a respective business day the report provides information as regards the planned time, the revised time and the effective time. For events that are not time-based the report will only provide an effective time. In case of currency-specific events the event times are provided separate per currency.

Based on the timing of the business Day events, the report calculates the daily opening time for settlement as well as the total number and the duration of delays in CLM or RTGS.

The report is available for a given date (range).

This report can be used by CB, PB and AS users.

All rights reserved.

Report access

This report can be reached in the following way:

[Team Content] >> [Predefined Reports] >> [BDY – Business Day Reports] >> [BDY01]

Screenshot – prompt

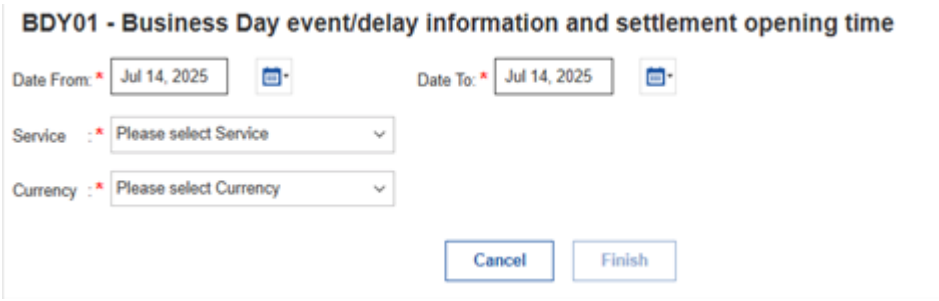


Figure 188 - BDY01 prompt {CR-173}

Prompt description

BDY01 – Report description – prompt screen	
Field label	**Description**
Service	Service for which the data shall be displayed. Possible values: - All - RTGS - CLM This field is mandatory.
Date from	You can select the date by clicking on the calendar. This field is mandatory.
Date to	You can select the end date of the period, for which the report should contain the data by clicking on the calendar. For valid report results, the current day cannot be selected. This field is mandatory.
Currency	Choose the currency, for which you want to generate the report.

Table 6 - BDY01 - Prompt description

All rights reserved.

Screenshot - output screen

Figure 189 - BDY01 Output (1) {CR-173}

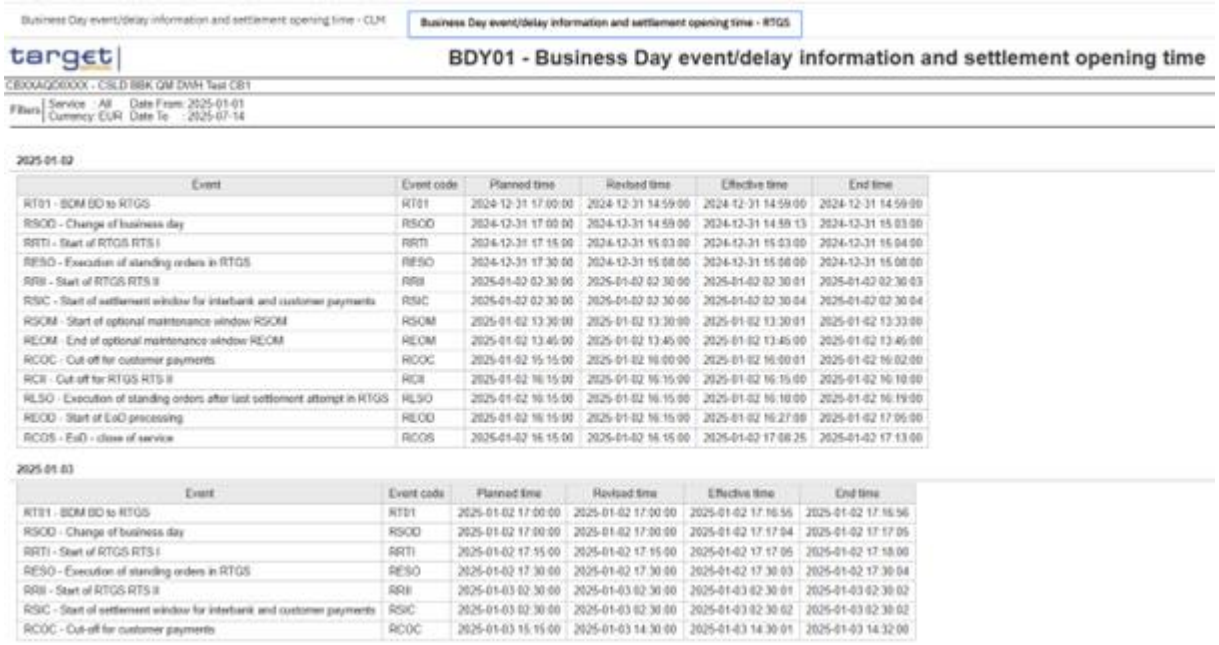


Figure 190 - BDY01 Output (2) {CR-173}

Output description

BDY01 – Report description – output screen	
Field label	**Description**
Event	Description of the business day event.
Event code	The event code as delivered by the CLM or RTGS service. The list of events is not static because the set of events may change. For a list of currently valid events, please see CLM and RTGS UDFS.
Planned time	The planned time corresponds to the standard schedule applied by default. Only for time-based events. For non-time based events this field is empty.
Revised time	The revised time is the foreseen time for the current business day, which usually coincides with the planned time except when a delay has occurred. Only for time-based events. For non-time based events this field is empty.
Effective time	The effective time is the time of the actual occurrence of the event during the current business day. It is the time, when the BDM (Business Day Management) sent the trigger to CLM or RTGS.
End time	The end time is the time, when CLM or RTGS informed the BDM, that the processes for this event have been finished.

Table 7 - BDY01 - Output description

5.3 Billing reports (BIL)

5.3.1 BIL01 – Consumption data

Context of usage

This report provides aggregated information on consumption data for a selected period **per service** and **charged party at the level of service item**. It provides a monthly view on the quantity per service item and the share (in %) compared to the whole system entity's quantity. CBs can retrieve information on the aggregated consumption data of those parties belonging to their system entity.

Additionally, the report provides the sums over all parties per service item and service for the system entity.

This report does not contain any ECMS billing data as ECMS is aggregating the data itself on a monthly basis and afterwards these are delivered to BILL.

All rights reserved.

This report can be used by CB users only.

Report access

This report can be reached in the following way:

[Team Content] >> [Predefined Reports] >> [BIL – Billing Reports] >> [BIL01]

Screenshot – prompt

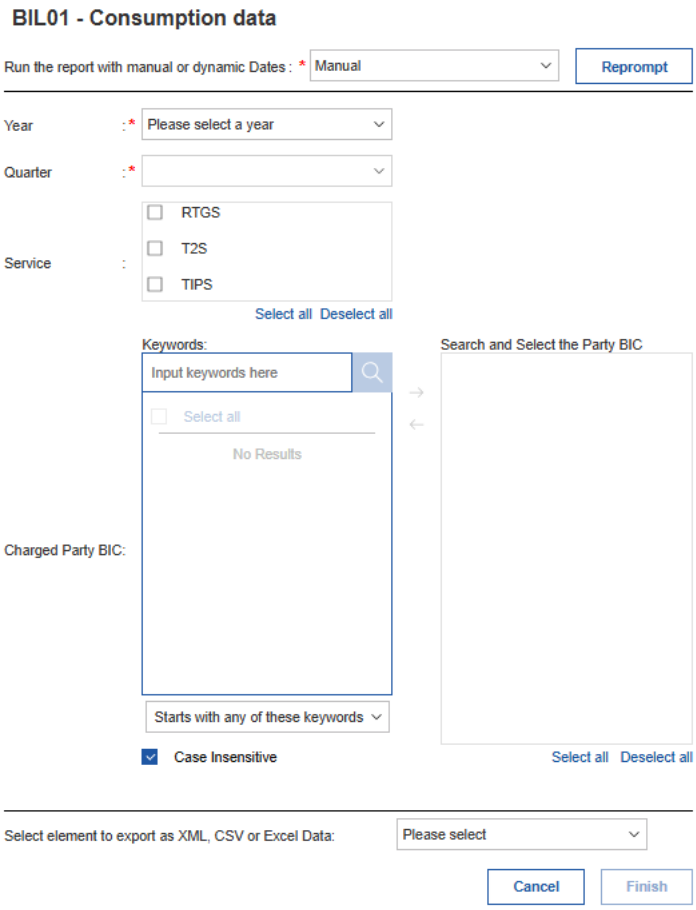


Figure 191 - BIL01 prompt – Manual

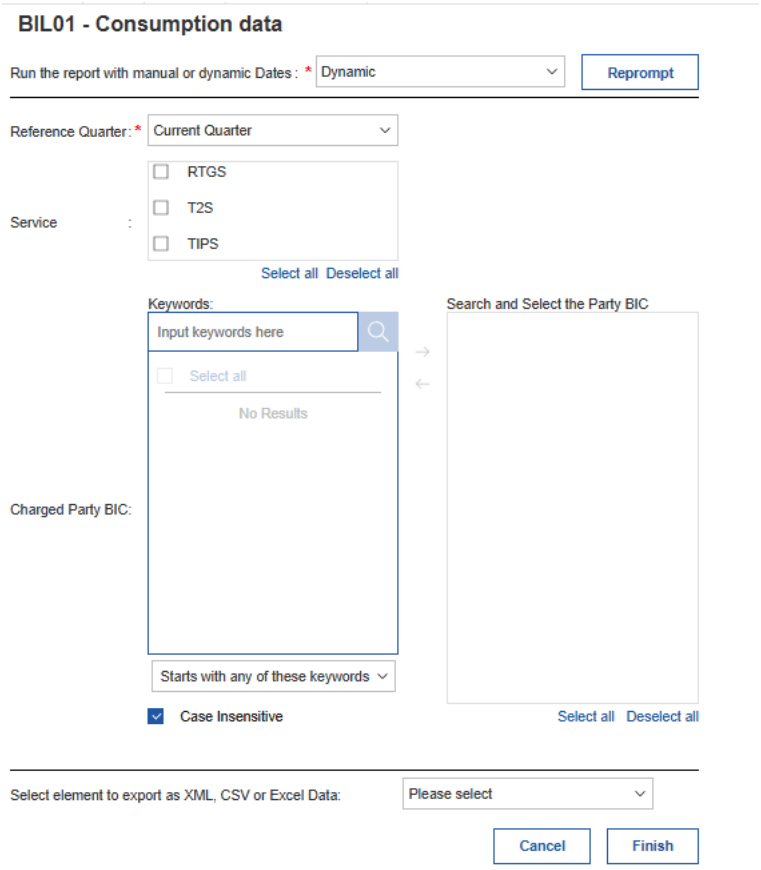


Figure 192 - BIL01 prompt - Dynamic

Prompt description

BIL01 – Report description – prompt screen - Manual	
Field label	**Description**
Year	You can use this drop-down field to select the year, from which the report should contain the data. This field is mandatory.
Quarter	You can use this drop-down field to select the quarter, for which the report should show the data. This field is mandatory

All rights reserved.

Charged party BIC	You can use this search and select prompt to be able to search for the party BIC or short name. One or several parties can be selected. In case the user leaves this field free, all party BICs belonging to the user's data scope are selected. This field is optional.
Service	Service for which the data shall be displayed. Possible values: - RTGS - TIPS - T2S This field is optional
Select element to export as XML, CSV or Excel Data	- Per service - System entity wide sums per service This field is optional.

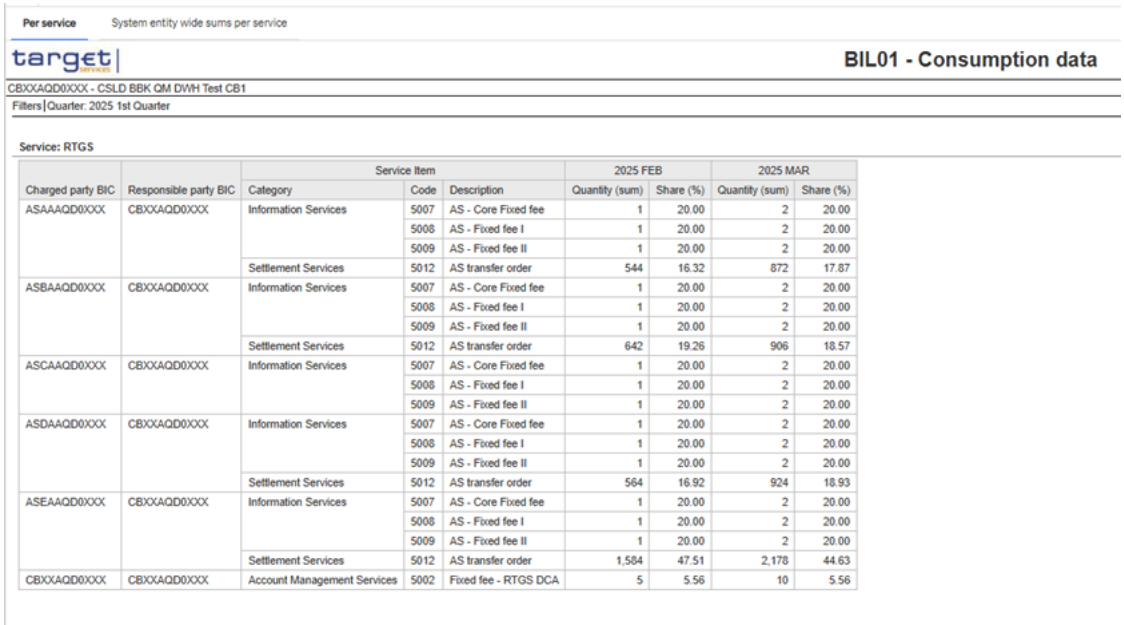
Table 8 - BIL01 - Prompt description - Manual

BIL01 – Report description – prompt screen - Dynamic	
Field label	**Description**
Reference Quarter	Reference Quarter for which the data shall be displayed. Possible values: - Current Quarter - Previous Quarter This field is mandatory.

Charged party BIC	You can use this search and select prompt to be able to search for the party BIC or short name. One or several parties can be selected. In case the user leaves this field free, all party BICs belonging to the user's data scope are selected. This field is optional.
Service	Service for which the data shall be displayed. Possible values: - RTGS - TIPS - T2S This field is optional.
Select element to export as XML, CSV or Excel Data	- Per service - System entity wide sums per service This field is optional.

Table 9 - BIL01 - Prompt description - Dynamic

Screenshot - output screen


Per service System entity wide sums per service

target services BIL01 - Consumption data

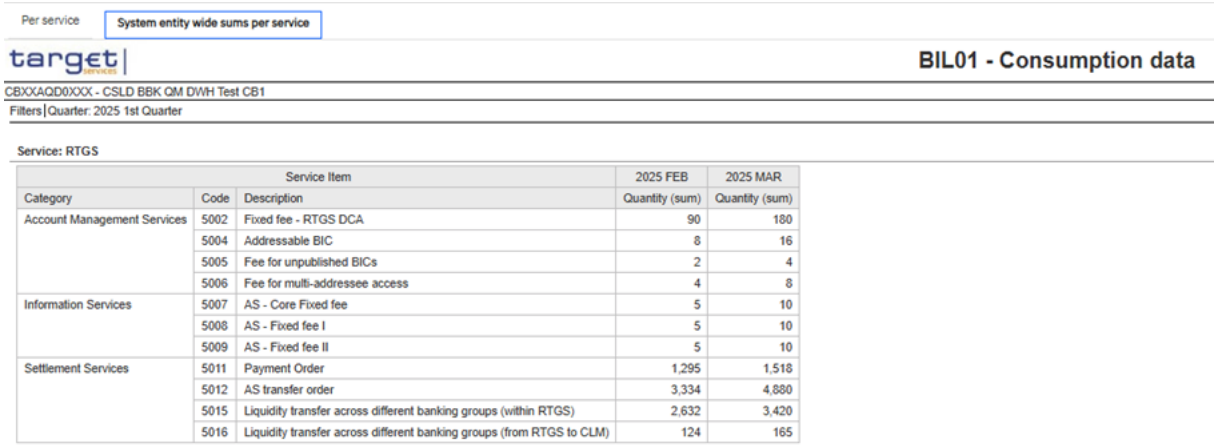
CBXXAQD0XXX - CSLD BBK QM DWH Test CB1

Filters | Quarter: 2025 1st Quarter

Service: RTGS

		Service Item			2025 FEB		2025 MAR	
Charged party BIC	Responsible party BIC	Category	Code	Description	Quantity (sum)	Share (%)	Quantity (sum)	Share (%)
ASAAAQD0XXX	CBXXAQD0XXX	Information Services	5007	AS - Core Fixed fee	1	20.00	2	20.00
			5008	AS - Fixed fee I	1	20.00	2	20.00
			5009	AS - Fixed fee II	1	20.00	2	20.00
		Settlement Services	5012	AS transfer order	544	16.32	872	17.87
ASBAAQD0XXX	CBXXAQD0XXX	Information Services	5007	AS - Core Fixed fee	1	20.00	2	20.00
			5008	AS - Fixed fee I	1	20.00	2	20.00
			5009	AS - Fixed fee II	1	20.00	2	20.00
		Settlement Services	5012	AS transfer order	642	19.26	906	18.57
ASCAAQD0XXX	CBXXAQD0XXX	Information Services	5007	AS - Core Fixed fee	1	20.00	2	20.00
			5008	AS - Fixed fee I	1	20.00	2	20.00
			5009	AS - Fixed fee II	1	20.00	2	20.00
ASDAAQD0XXX	CBXXAQD0XXX	Information Services	5007	AS - Core Fixed fee	1	20.00	2	20.00
			5008	AS - Fixed fee I	1	20.00	2	20.00
			5009	AS - Fixed fee II	1	20.00	2	20.00
		Settlement Services	5012	AS transfer order	564	16.92	924	18.93
ASEAAQD0XXX	CBXXAQD0XXX	Information Services	5007	AS - Core Fixed fee	1	20.00	2	20.00
			5008	AS - Fixed fee I	1	20.00	2	20.00
			5009	AS - Fixed fee II	1	20.00	2	20.00
		Settlement Services	5012	AS transfer order	1,584	47.51	2,178	44.63
CBXXAQD0XXX	CBXXAQD0XXX	Account Management Services	5002	Fixed fee - RTGS DCA	5	5.56	10	5.56

Figure 193 - BIL01 Output ("Per service")



Per service | System entity wide sums per service

target services

BIL01 - Consumption data

CBXXAQD0XXX - CSLD BBK QM DWH Test CB1

Filters | Quarter: 2025 1st Quarter

Service: RTGS

Service Item			2025 FEB	2025 MAR
Category	Code	Description	Quantity (sum)	Quantity (sum)
Account Management Services	5002	Fixed fee - RTGS DCA	90	180
	5004	Addressable BIC	8	16
	5005	Fee for unpublished BICs	2	4
	5006	Fee for multi-addressee access	4	8
Information Services	5007	AS - Core Fixed fee	5	10
	5008	AS - Fixed fee I	5	10
	5009	AS - Fixed fee II	5	10
Settlement Services	5011	Payment Order	1,295	1,518
	5012	AS transfer order	3,334	4,880
	5015	Liquidity transfer across different banking groups (within RTGS)	2,632	3,420
	5016	Liquidity transfer across different banking groups (from RTGS to CLM)	124	165

Figure 194 - BIL01 Output ("System entity wide sums per service")

Output description

BIL01 – Report description – output screen	
Field label	**Description**
Tab "Per service": Shows consumption data per selected service	
Service	Shows which service the following data is displayed for.
Charged party BIC	BIC of the charged party
Responsible party BIC	BIC of the responsible party. Indicates the CB responsible for the party to be charged
Category	Possible values are: - Settlement Services (SETT) - Account Management Services (ACMS) - Information Services (INSV)
Code	Following service item codes are currently available: - See BILL UDFS Annex I
Description	Following service item descriptions are currently available: - See BILL UDFS Annex I
Year, Month	For each month within the chosen quarter, one row will be displayed. If the billing period is not yet closed, then no quantities are shown (empty cells).
Quantity	The number of counts for this service item
Share (%)	The share (in %) for the usage of this service item within the month compared to the total of service items charged.

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Tab "System entity wide sums per service" shows the totals for the system entity per selected service	
Service	Shows which service the following data is displayed for.
Service item	
Category	Possible values are: - Settlement Services - Account Management Services - Information Services
Code	Following service item codes are currently available: - See BILL UDFS Annex I
Description	Following service item descriptions are currently available: - See BILL UDFS Annex I
Year, Month	For each month within the chosen quarter, one row will be displayed. If the billing period is not yet closed, then no quantities are shown (empty cells).
Quantity (sum)	For each service item the sum over all parties belonging to the data scope of the CB.

Table 10 - BIL01 - Output description

5.3.2 BIL02 – Monitoring the invoice activity

Context of usage

This report provides aggregated information on invoicing activity per party, service, billing period and fee type. It shows the item count and value in EUR together with the respective share (in %) compared to the grand total of the system entity.

This report can be used by CB users only.

Report access

This report can be reached in the following way:

[Team Content] >> [Predefined Reports] >> [BIL – Billing Reports] >> [BIL02]

All rights reserved.

Screenshot – prompt

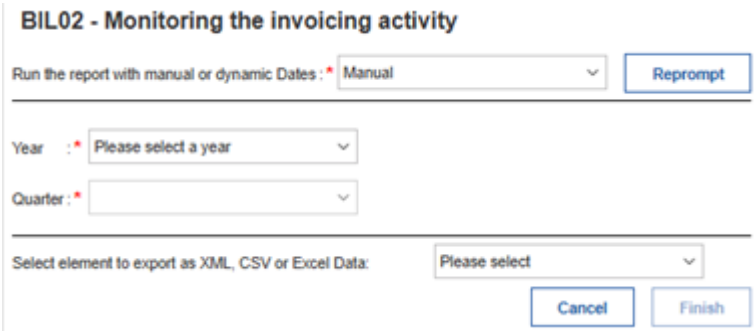


Figure 195 - BIL02 prompt - Manual

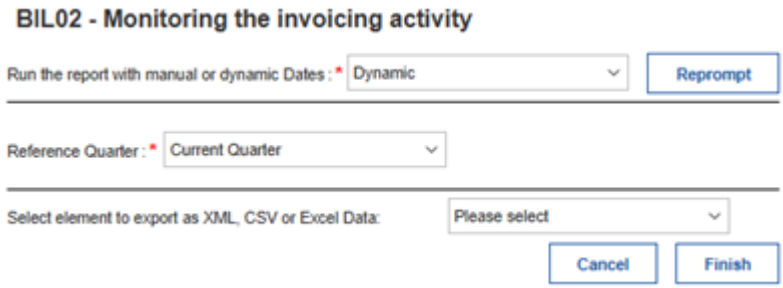


Figure 196 - BIL02 prompt - Dynamic

All rights reserved.

Prompt description

BIL02 – Report description – prompt screen - Manual	
Field label	**Description**
Year	You can use this drop-down field to select the year, from which the report should contain the data. This field is mandatory.
Quarter	You can use this drop-down field to select the quarter, for which the report should show the data. This field is mandatory
Select element to export as XML, CSV or Excel Data	- Monitoring the invoicing activity by party - Monitoring the invoicing activity by service - Monitoring the invoicing activity by billing period - Monitoring the invoicing activity by fee type This field is optional.

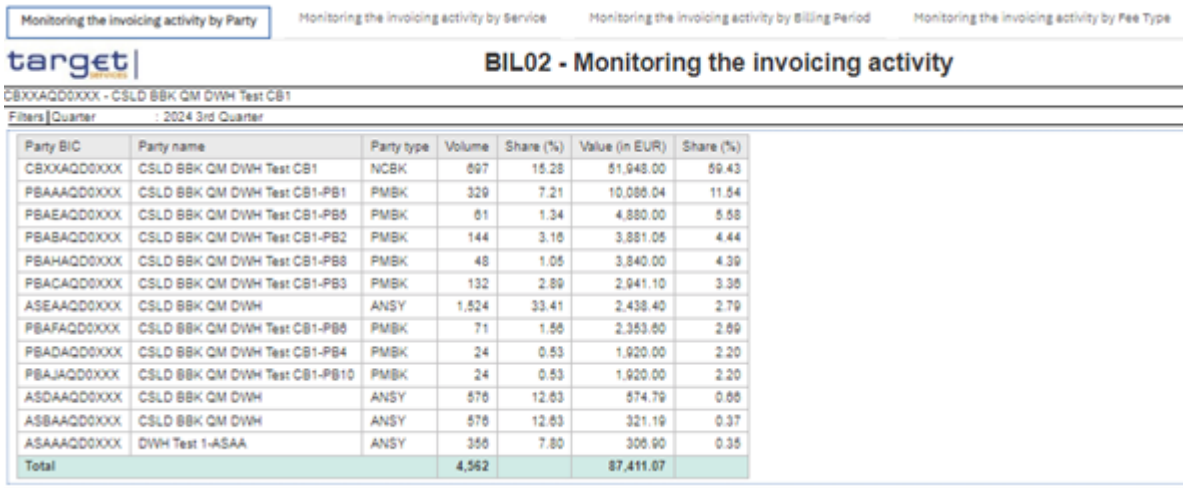
Table 11 - BIL02 – Prompt description - Manual

BIL02 – Report description – prompt screen - Dynamic	
Field label	**Description**
Reference Quarter	Reference Quarter for which the data shall be displayed. Possible values: - Current Quarter - Previous Quarter This field is mandatory.
Select element to export as XML, CSV or Excel Data	- Monitoring the invoicing activity by party - Monitoring the invoicing activity by service - Monitoring the invoicing activity by billing period - Monitoring the invoicing activity by fee type This field is optional.

Table 12 - BIL02 – Prompt description - Dynamic

All rights reserved.

Screenshot - output screen



Monitoring the invoicing activity by Party | Monitoring the invoicing activity by Service | Monitoring the invoicing activity by Billing Period | Monitoring the invoicing activity by Fee Type

target services

BIL02 - Monitoring the invoicing activity

CBXXAQD0XXX - CSLD BBK QM DWH Test CB1

Filters | Quarter : 2024 3rd Quarter

Party BIC	Party name	Party type	Volume	Share (%)	Value (in EUR)	Share (%)
CBXXAQD0XXX	CSLD BBK QM DWH Test CB1	NCBK	697	15.28	51,948.00	59.43
PBAAAQD0XXX	CSLD BBK QM DWH Test CB1-PB1	PMBK	329	7.21	10,086.04	11.54
PBAEAQD0XXX	CSLD BBK QM DWH Test CB1-PB5	PMBK	61	1.34	4,880.00	5.58
PBABAQD0XXX	CSLD BBK QM DWH Test CB1-PB2	PMBK	144	3.16	3,881.05	4.44
PBAHAQD0XXX	CSLD BBK QM DWH Test CB1-PB8	PMBK	48	1.05	3,840.00	4.39
PBACAQD0XXX	CSLD BBK QM DWH Test CB1-PB3	PMBK	132	2.89	2,941.10	3.36
ASEAAQD0XXX	CSLD BBK QM DWH	ANSY	1,524	33.41	2,438.40	2.79
PBAFAQD0XXX	CSLD BBK QM DWH Test CB1-PB6	PMBK	71	1.56	2,353.60	2.69
PBADAQD0XXX	CSLD BBK QM DWH Test CB1-PB4	PMBK	24	0.53	1,920.00	2.20
PBAJAQD0XXX	CSLD BBK QM DWH Test CB1-PB10	PMBK	24	0.53	1,920.00	2.20
ASDAAQD0XXX	CSLD BBK QM DWH	ANSY	576	12.63	574.79	0.66
ASBAAQD0XXX	CSLD BBK QM DWH	ANSY	576	12.63	321.19	0.37
ASAAAQD0XXX	DWH Test 1-ASAA	ANSY	356	7.80	306.90	0.35
Total			4,562		87,411.07	

Figure 197 - BIL02 Output (“Monitor the invoicing activity by party”)

Monitoring the invoicing activity by Party | Monitoring the invoicing activity by Service | Monitoring the invoicing activity by Billing Period | Monitoring the invoicing activity by Fee Type

target services

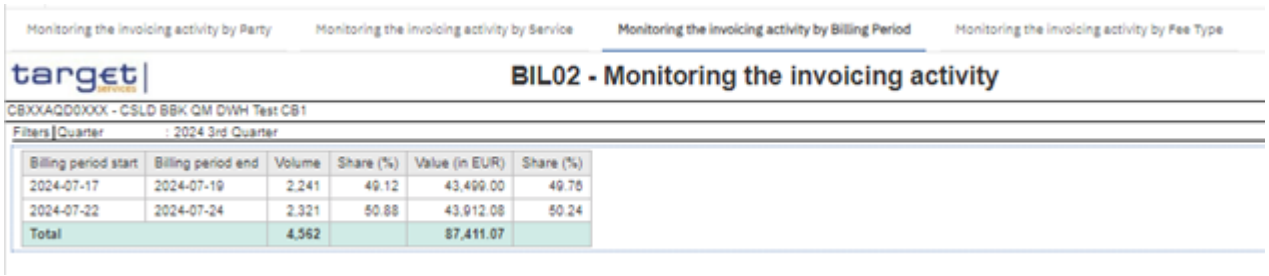
BIL02 - Monitoring the invoicing activity

CBXXAQD0XXX - CSLD BBK QM DWH Test CB1

Filters | Quarter : 2024 3rd Quarter

Service	Volume	Share (%)	Value (in EUR)	Share (%)
RTGS	4,562	100.00	87,411.07	100.00
Total	4,562		87,411.07	

Figure 198 - BIL02 Output (“Monitor the invoicing activity by service”)



Monitoring the invoicing activity by Party | Monitoring the invoicing activity by Service | Monitoring the invoicing activity by Billing Period | Monitoring the invoicing activity by Fee Type

target services

BIL02 - Monitoring the invoicing activity

CBXXAQD0XXX - CSLD BBK QM DWH Test CB1

Filters | Quarter : 2024 3rd Quarter

Billing period start	Billing period end	Volume	Share (%)	Value (in EUR)	Share (%)
2024-07-17	2024-07-19	2,241	49.12	43,499.00	49.76
2024-07-22	2024-07-24	2,321	50.88	43,912.08	50.24
Total		4,562		87,411.07	

Figure 199 - BIL02 Output (“Monitor the invoicing activity by billing period”)

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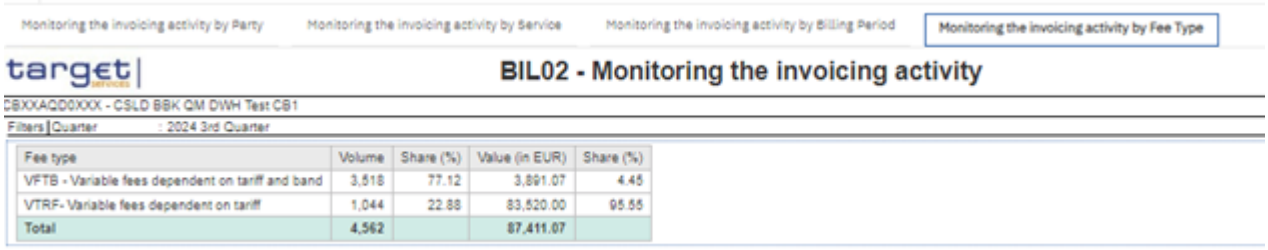

Figure 200 - BIL02 Output ("Monitor the invoicing activity by fee type")

Output description

BIL02 – Report description – output screen	
Field label	**Description**
Tab "Monitor the invoicing activity by party"	
Party BIC	BIC of the charged party
Party name	Name of the charged party
Party type	Type of the charged party
Volume	Number of all charged service items for the party during the selected quarter
Share (%)	Share (in %) of the volume compared to the total of the system entity during the selected quarter
Value (in EUR)	Value of all charged service items for the party during the selected quarter
Share (%)	Share (in %) of the value compared to the total of the system entity during the selected quarter
Total volume	Sum of all volumes of charged service items for the system entity during the selected quarter
Total value (in EUR)	Sum of all values of charged service items for the system entity during the selected quarter
Tab "Monitor the invoicing activity by service"	
Service	Service for which the data is displayed. Possible values: - RTGS - TIPS
Volume	Number of all charged service items for the service during the selected quarter
Share (%)	Share (in %) of the volume compared to the total of the system entity during the selected quarter

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Value (in EUR)	Value of all charged service items for the service during the selected quarter
Share (%)	Share (in %) of the value compared to the total of the system entity during the selected quarter
Total volume	Sum of all volumes of charged service items for the system entity during the selected quarter
Total value (in EUR)	Sum of all values of charged service items for the system entity during the selected quarter
Tab "Monitor the invoicing activity by billing period"	
Billing period start	Start date (Calendar date) of the billing period for which data is shown
Billing period end	End date (Calendar date) of the billing period for which data is shown
Volume	Number of all charged service items for the billing period
Share (%)	Share (in %) of the volume compared to the total of the system entity during the selected quarter
Value (in EUR)	Value of all charged service items for the billing period
Share (%)	Share (in %) of the value compared to the total of the system entity during the selected quarter
Total volume	Sum of all volumes of charged service items for the system entity during the selected quarter
Total value (in EUR)	Sum of all values of charged service items for the system entity during the selected quarter
Tab "Monitor the invoicing activity by fee type"	
Fee type	Fee type
Volume	Number of all charged service items for the fee type during the selected quarter
Share (%)	Share (in %) of the volume compared to the total of the system entity during the selected quarter
Value (in EUR)	Value of all charged service items for the fee type during the selected quarter
Share (%)	Share (in %) of the value compared to the total of the system entity during the selected quarter
Total volume	Sum of all volumes of charged service items for the system entity during the selected quarter
Total value (in EUR)	Sum of all values of charged service items for the system entity during the selected quarter

Table 13 - BIL02 - Output description

5.3.3 BIL03 – Audit of critical billing data

Context of usage

This report provides audit information on changes to data critical for billing (“Critical data”). Sorted by party BIC, the report lists the most recent changes to critical data that were executed during a selected period stating their old and new values and the timestamp of the change.

ECMS provides just total amounts to BILL Common Component to generate invoices. BILL does not calculate anything here with respect to fee bands, tariff etc. Thus by definition there are no data critical for billing ECMS services to be tracked with this report.

This report can be used by CB users only.

Report access

This report can be reached in the following way:

[Team Content] >> [Predefined Reports] >> [BIL – Billing Reports] >> [BIL03]

All rights reserved.

Screenshot – prompt

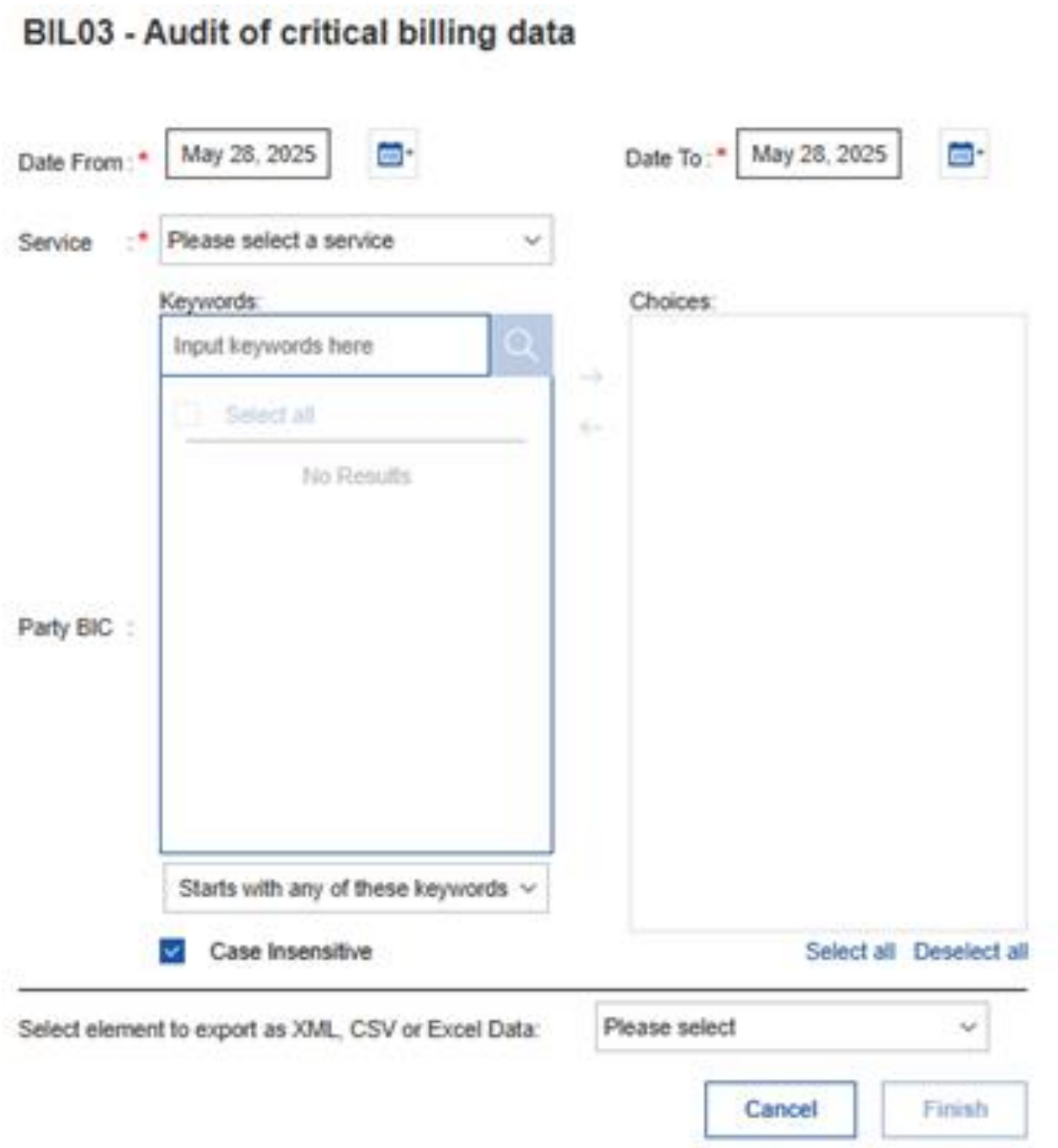


Figure 201 - BIL03 prompt

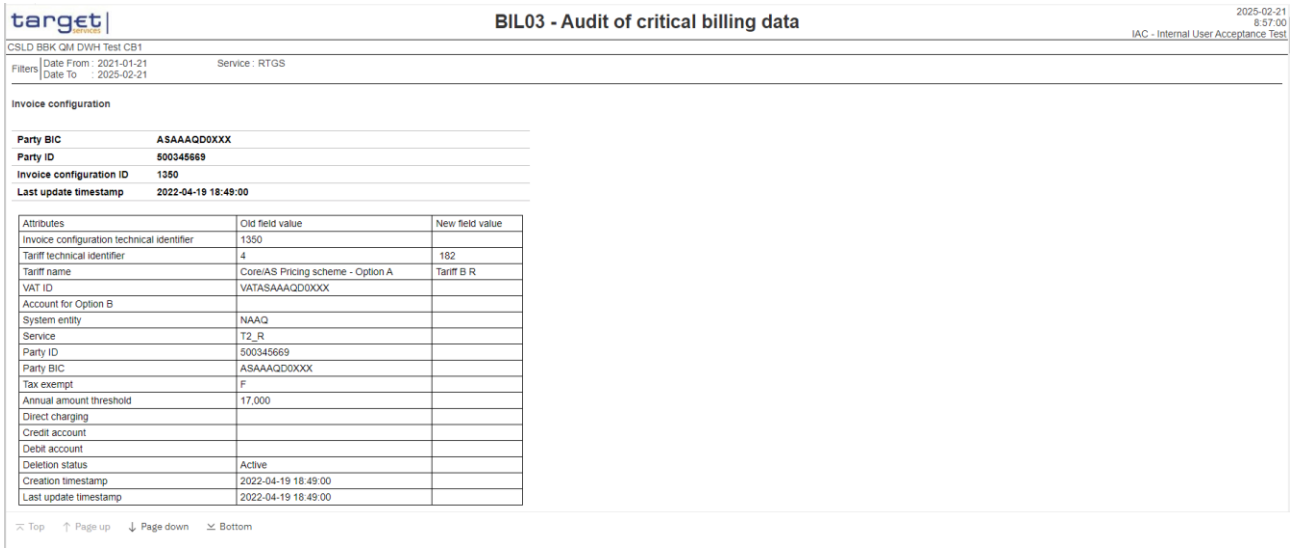
Prompt description

BIL03 – Report description – prompt screen	
Field label	**Description**
Date from	You can select the date by clicking on the calendar.

	This field is mandatory.
Date to	You can select the end date of the period, for which the report should contain the data by clicking on the calendar. For valid report results, the current day cannot be selected. This field is mandatory.
Service	Service for which the data shall be displayed. Possible values: - RTGS - TIPS - T2S - ECMS This field is mandatory.
Party BIC	You can use this search and select prompt to be able to search for the party BIC or short name. One or several parties can be selected. In case the user leaves this field free, all party BICs belonging to the user's data scope are selected. This field is optional.
Select element to export as XML, CSV or Excel Data	- Invoice configuration - Tariff - Service items - Fee schedule - Fee bands - VAT - VAT for service items - Billing groups - Billing group entities This field is optional.

Table 14 - BIL03 - Prompt description

Screenshot - output screen



BIL03 - Audit of critical billing data

2025-02-21
8:57:00
IAC - Internal User Acceptance Test

CSLD BBK QM DWH Test CB1

Filters | Date From : 2021-01-21 | Date To : 2025-02-21 | Service : RTGS

Invoice configuration

Party BIC	**ASAAAQD0XXX**
Party ID	**500345669**
Invoice configuration ID	**1350**
Last update timestamp	**2022-04-19 18:49:00**

Attributes	Old field value	New field value
Invoice configuration technical identifier	1350	
Tariff technical identifier	4	182
Tariff name	Core/AS Pricing scheme - Option A	Tariff B R
VAT ID	VATASAAAQD0XXX	
Account for Option B		
System entity	NAAQ	
Service	T2_R	
Party ID	500345669	
Party BIC	ASAAAQD0XXX	
Tax exempt	F	
Annual amount threshold	17,000	
Direct charging		
Credit account		
Debit account		
Deletion status	Active	
Creation timestamp	2022-04-19 18:49:00	
Last update timestamp	2022-04-19 18:49:00	

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Figure 202 - BIL03 output (1) (“Invoice configuration”)

BIL03 - Audit of critical billing data

Figure 203 - BIL03 output (2) (“Tariff”)

target

BIL03 - Audit of critical billing data

CSLD BBK QM DWH Test CB1

Filters | Date From : 2021-01-01 Date To : 2022-07-08 Service : RTGS

Service items

Service item code	**5002**
Service item technical identifier	**500021003**
Last update timestamp	**2022-06-24 16:00:50**

Attributes	Old field value	New field value
Service item technical identifier	500021003	
Service	T2_R	
System entity	T2SO	
Category	Account Management Services	
Service item code	5002	
Service item name	Fixed fee - RTGS DCA	
Deletion status	Active	
Creation timestamp	2022-06-24 16:00:50	
Last update timestamp	2022-06-24 16:00:50	

Service item code	**5004**
Service item technical identifier	**500021004**
Last update timestamp	**2022-06-24 16:00:50**

Attributes	Old field value	New field value
Service item technical identifier	500021004	
Service	T2_R	
System entity	T2SO	
Category	Account Management Services	
Service item code	5004	
Service item name	Addressable BIC	
Deletion status	Active	
Creation timestamp	2022-06-24 16:00:50	
Last update timestamp	2022-06-24 16:00:50	

Figure 204 - BIL03 output (3) (“Service items”)

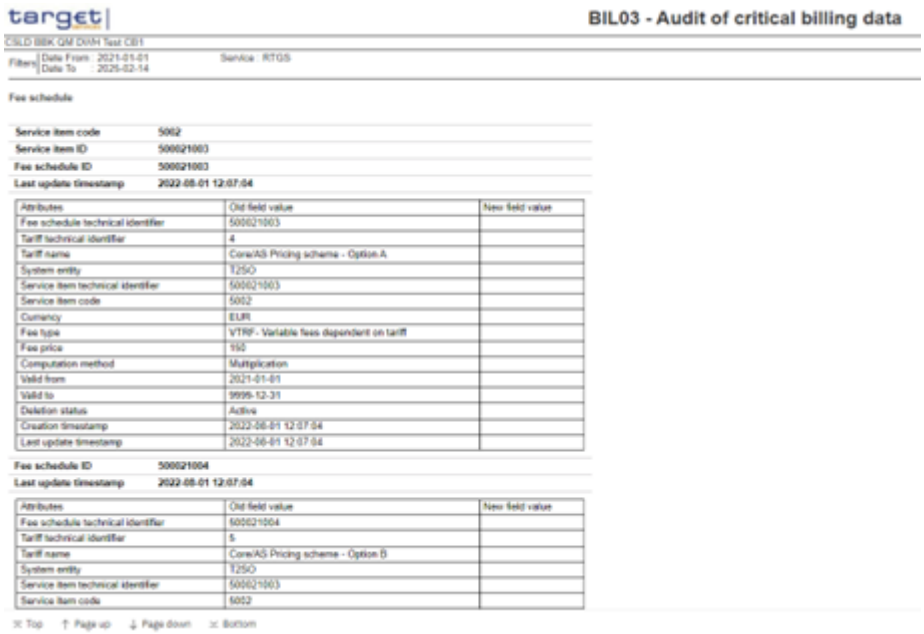
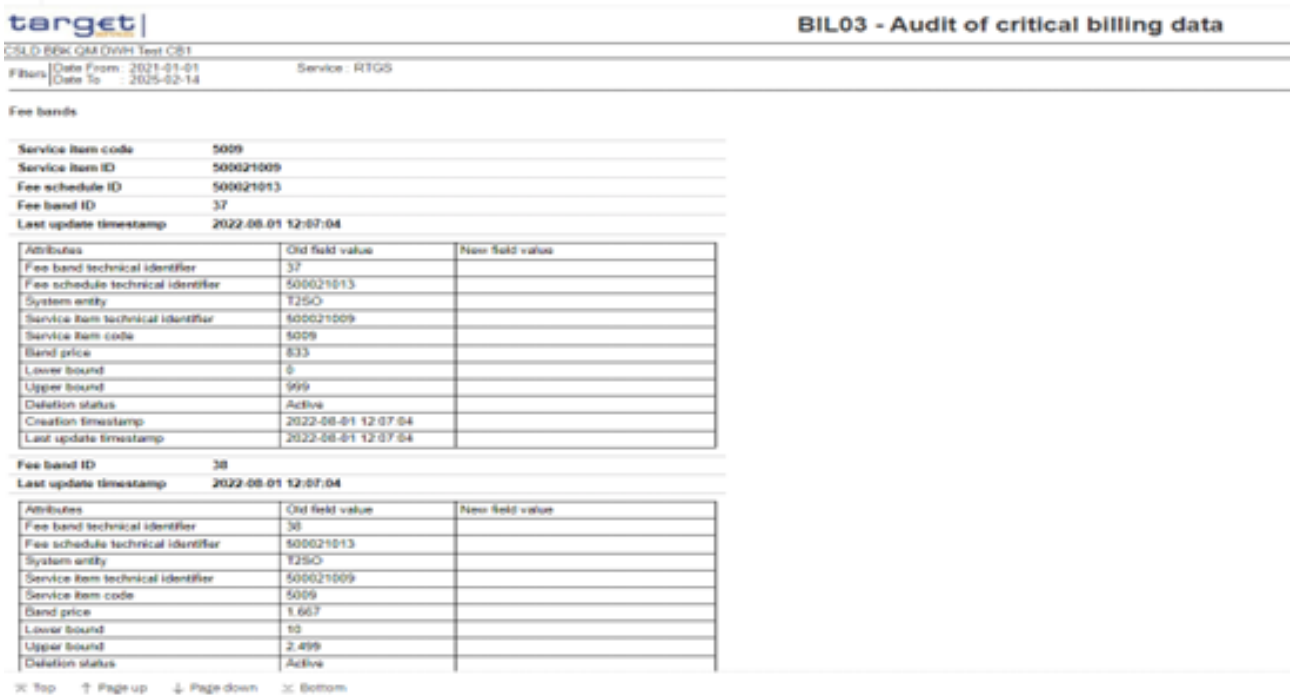


Figure 205 - BIL03 output (4) (“Fee schedule”)

All rights reserved.


BIL03 - Audit of critical billing data

CSLD BBK QM DWH Test CB1

Filters | Date From: 2021-01-01 Date To: 2025-02-14 Service : RTGS

Fee bands

Service item code	5009
Service item ID	500021009
Fee schedule ID	500021013
Fee band ID	37
Last update timestamp	2022-08-01 12:07:04

Attributes	Old field value	New field value
Fee band technical identifier	37	
Fee schedule technical identifier	500021013	
System entity	T2SO	
Service item technical identifier	500021009	
Service item code	5009	
Band price	833	
Lower bound	0	
Upper bound	999	
Deletion status	Active	
Creation timestamp	2022-08-01 12:07:04	
Last update timestamp	2022-08-01 12:07:04	

Fee band ID	38
Last update timestamp	2022-08-01 12:07:04

Attributes	Old field value	New field value
Fee band technical identifier	38	
Fee schedule technical identifier	500021013	
System entity	T2SO	
Service item technical identifier	500021009	
Service item code	5009	
Band price	1.667	
Lower bound	10	
Upper bound	2.499	
Deletion status	Active	

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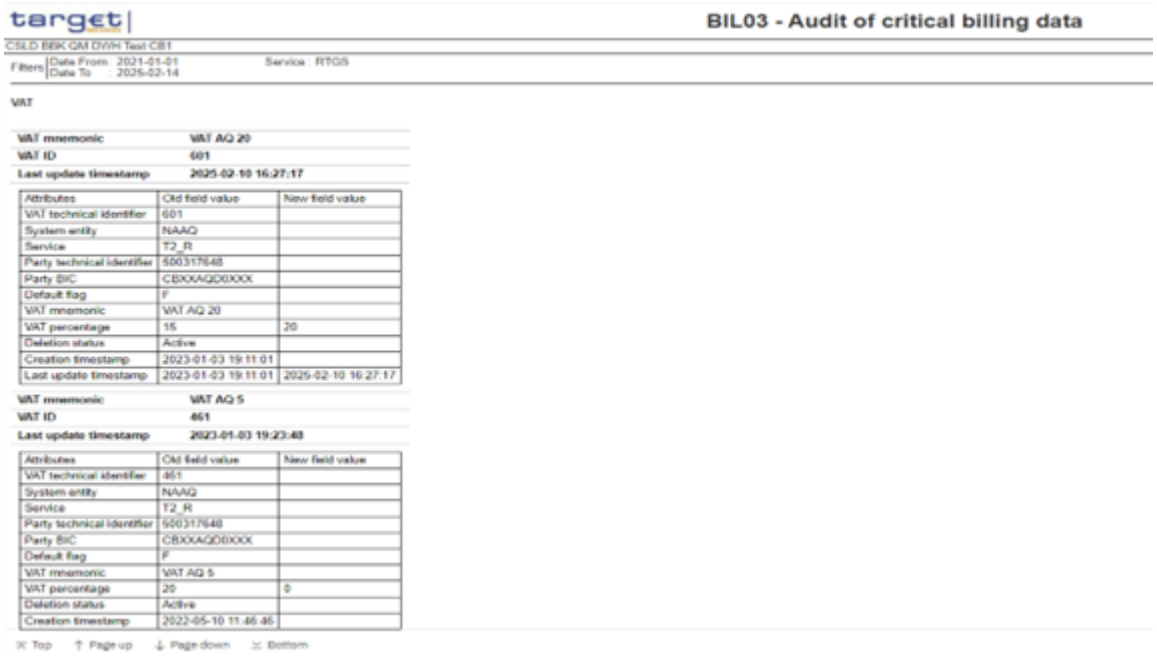
Figure 206 - BIL03 output (5) (“Fee bands”)


BIL03 - Audit of critical billing data

CSLD BBK QM DWH Test CB1

Filters | Date From: 2021-01-01 Date To: 2025-02-14 Service : RTGS

VAT

VAT mnemonic	VAT AQ 20
VAT ID	601
Last update timestamp	2025-02-10 16:27:17

Attributes	Old field value	New field value
VAT technical identifier	601	
System entity	NAAQ	
Service	T2_R	
Party technical identifier	500317648	
Party BIC	CBXXAQD0XXX	
Default flag	F	
VAT mnemonic	VAT AQ 20	
VAT percentage	15	20
Deletion status	Active	
Creation timestamp	2023-01-03 19:11:01	
Last update timestamp	2023-01-03 19:11:01	2025-02-10 16:27:17

VAT mnemonic	VAT AQ 5
VAT ID	461
Last update timestamp	2023-01-03 19:23:48

Attributes	Old field value	New field value
VAT technical identifier	461	
System entity	NAAQ	
Service	T2_R	
Party technical identifier	500317648	
Party BIC	CBXXAQD0XXX	
Default flag	F	
VAT mnemonic	VAT AQ 5	
VAT percentage	20	0
Deletion status	Active	
Creation timestamp	2022-05-10 11:46:46	

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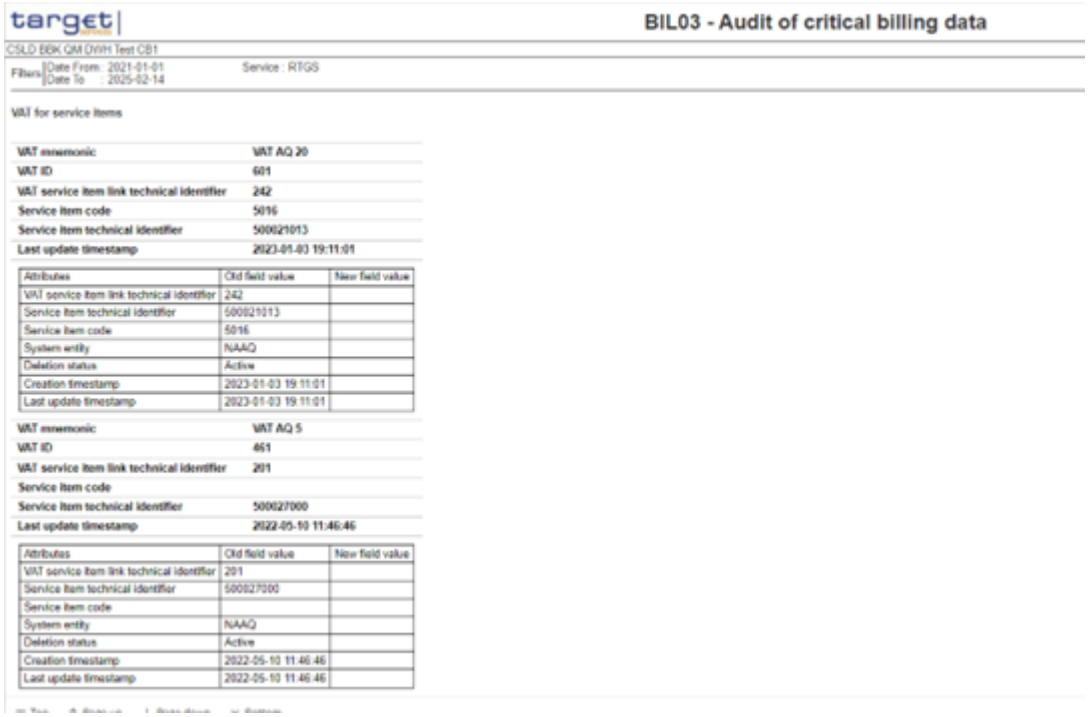
Figure 207 - BIL03 output (6) (“VAT”)

All rights reserved.



target

BIL03 - Audit of critical billing data

CSLD BBK QM DWH Test CB1

Filters | Date From : 2021-01-01 | Date To : 2025-02-14 | Service : RTGS

VAT for service items

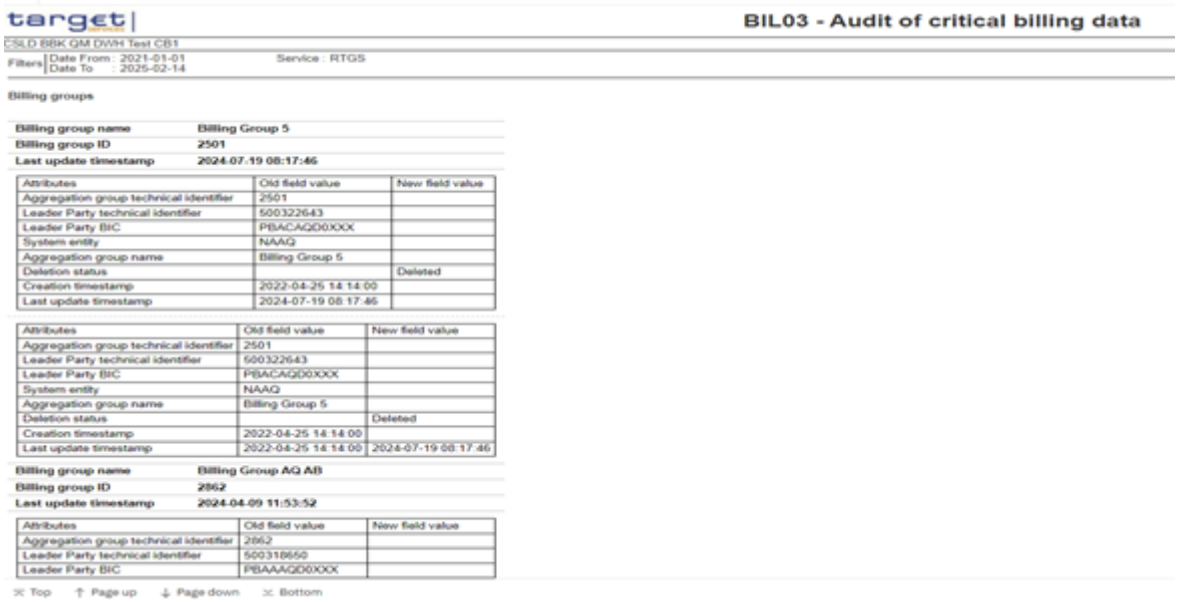
VAT mnemonic	VAT AQ 20
VAT ID	601
VAT service item link technical identifier	242
Service item code	5016
Service item technical identifier	500021013
Last update timestamp	2023-01-03 19:11:01

Attributes	Old field value	New field value
VAT service item link technical identifier	242	
Service item technical identifier	500021013	
Service item code	5016	
System entity	NAAQ	
Deletion status	Active	
Creation timestamp	2023-01-03 19:11:01	
Last update timestamp	2023-01-03 19:11:01	

VAT mnemonic	VAT AQ 5
VAT ID	461
VAT service item link technical identifier	201
Service item code	
Service item technical identifier	500027000
Last update timestamp	2022-05-10 11:46:46

Attributes	Old field value	New field value
VAT service item link technical identifier	201	
Service item technical identifier	500027000	
Service item code		
System entity	NAAQ	
Deletion status	Active	
Creation timestamp	2022-05-10 11:46:46	
Last update timestamp	2022-05-10 11:46:46	

Figure 208 - BIL03 output (7) (“VAT for service items”)



target

BIL03 - Audit of critical billing data

CSLD BBK QM DWH Test CB1

Filters | Date From : 2021-01-01 | Date To : 2025-02-14 | Service : RTGS

Billing groups

Billing group name	Billing Group 5
Billing group ID	2501
Last update timestamp	2024-07-19 08:17:46

Attributes	Old field value	New field value
Aggregation group technical identifier	2501	
Leader Party technical identifier	500322643	
Leader Party BIC	PBACAQD0XXX	
System entity	NAAQ	
Aggregation group name	Billing Group 5	
Deletion status		Deleted
Creation timestamp	2022-04-25 14:14:00	
Last update timestamp	2024-07-19 08:17:46	

Attributes	Old field value	New field value
Aggregation group technical identifier	2501	
Leader Party technical identifier	500322643	
Leader Party BIC	PBACAQD0XXX	
System entity	NAAQ	
Aggregation group name	Billing Group 5	
Deletion status		Deleted
Creation timestamp	2022-04-25 14:14:00	
Last update timestamp	2022-04-25 14:14:00	2024-07-19 08:17:46

Billing group name	Billing Group AQ AB
Billing group ID	2862
Last update timestamp	2024-04-09 11:53:52

Attributes	Old field value	New field value
Aggregation group technical identifier	2862	
Leader Party technical identifier	500318650	
Leader Party BIC	PBAAAQD0XXX	

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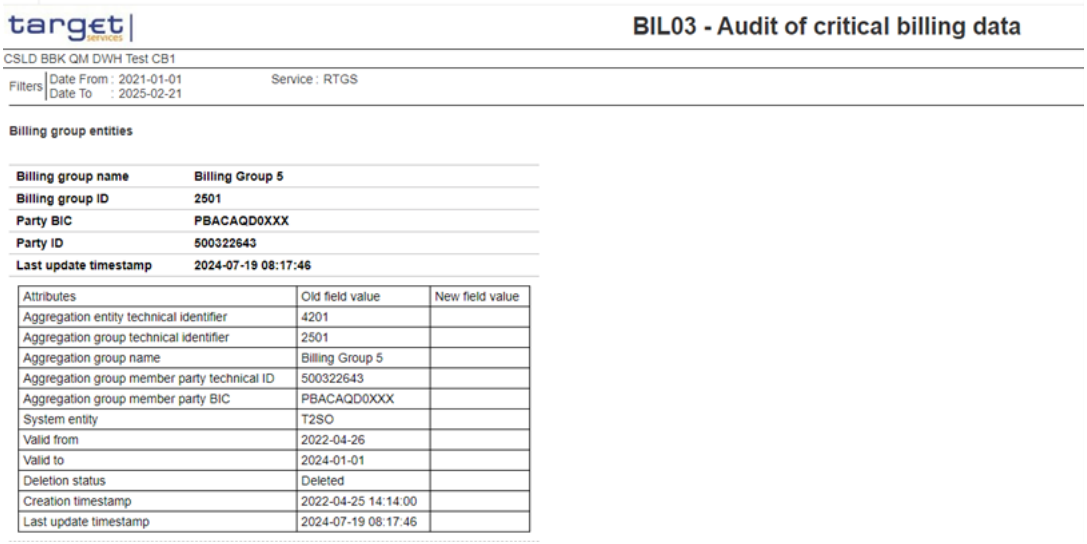
Figure 209 - BIL03 output (8) (“Billing groups”)



target services

BIL03 - Audit of critical billing data

CSLD BBK QM DWH Test CB1

Filters | Date From : 2021-01-01 Date To : 2025-02-21 | Service : RTGS

Billing group entities

Billing group name	**Billing Group 5**
Billing group ID	**2501**
Party BIC	**PBACAQD0XXX**
Party ID	**500322643**
Last update timestamp	**2024-07-19 08:17:46**

Attributes	Old field value	New field value
Aggregation entity technical identifier	4201	
Aggregation group technical identifier	2501	
Aggregation group name	Billing Group 5	
Aggregation group member party technical ID	500322643	
Aggregation group member party BIC	PBACAQD0XXX	
System entity	T2SO	
Valid from	2022-04-26	
Valid to	2024-01-01	
Deletion status	Deleted	
Creation timestamp	2022-04-25 14:14:00	
Last update timestamp	2024-07-19 08:17:46	

Figure 210 - BIL03 output (9) (“Billing group entities”)

Output description

BIL03 – Report description – output screen	
Field label	**Description**
The following information is shown per critical data item (entity – see following list for possible values):	
Entity name	Name of the critical data entity. Possible values: - Invoice configuration - Tariff - Service Items - Fee schedule - Fee bands - VAT - VAT for service items - Billing group - Billing group entities
Invoice configuration	
Party BIC	Shows the Party BIC that the data is displayed for.
Party ID	Shows the Party ID that the data is displayed for.
Invoice configuration ID	Displays the invoice configuration ID of the shown data.
Last update timestamp	Shows the timestamp for when the data was last updated.

All rights reserved.

Tariff	
Tariff name	Displays the name of the tariff for the following data.
Tariff technical identifier	Shows the technical identifier of the tariff.
Last update timestamp	Shows the timestamp for when the data was last updated.
Service items	
Service item code	Shows the code of the service item.
Service item technical identifier	Shows the technical identifier of the service item.
Fee schedule	
Service item code	Shows the code of the service item.
Service item ID	Shows the ID of the service item.
Fee schedule ID	Displays the ID of the fee schedule.
Last update timestamp	Shows the timestamp for when the data was last updated.
Fee bands	
Service item code	Shows the code of the service item.
Service item ID	Shows the ID of the service item.
Fee schedule ID	Displays the ID of the fee schedule.
Fee band ID	Displays the ID of the fee band.
Last update timestamp	Shows the timestamp for when the data was last updated.
VAT	
VAT mnemonic	Shows the name of the corresponding VAT tariff.
VAT ID	Displays the VAT ID.
VAT service item link technical ID	Shows the technical ID of the service item link.
Service item code	Shows the code of the service item.
Service item ID	Shows the ID of the service item.
Last update timestamp	Shows the timestamp for when the data was last updated.
Billing groups	
Billing group name	Displays the name of the billing group.
Billing group ID	Shows the ID of the billing group.
Last update timestamp	Shows the timestamp for when the data was last updated.

All rights reserved.

Billing group entities	
Billing group name	Displays the name of the billing group.
Billing group ID	Shows the ID of the billing group.
Party BIC	Shows the Party BIC that the data is displayed for.
Party ID	Shows the Party ID that the data is displayed for.
Last update timestamp	Shows the timestamp for when the data was last updated.
The following information is shown per attribute of the critical data item (entity – see following list for possible values):	
Attribute name	Name of the attribute
Old field value	Value of the attribute before the change.
New field value	Value of the attribute after the change. Is empty for those attributes that were not changed.

Table 15 - BIL03 - Output description

Critical data fields

BIL03 – List of billing critical data entities and attributes	
Entity	**Attribute**
Invoice configuration	Invoice configuration technical identifier
Invoice configuration	Tariff technical identifier
Invoice configuration	Tariff name
Invoice configuration	VAT ID
Invoice configuration	Account for Option B
Invoice configuration	System entity
Invoice configuration	Service
Invoice configuration	Party ID
Invoice configuration	Party BIC
Invoice configuration	Tax exempt
Invoice configuration	Annual amount threshold
Invoice configuration	Direct charging
Invoice configuration	Credit account
Invoice configuration	Debit account

All rights reserved.

Invoice configuration	Deletion status
Invoice configuration	Creation timestamp
Invoice configuration	Last update timestamp
Tariff	Tariff technical identifier
Tariff	System entity
Tariff	Service
Tariff	Tariff name
Tariff	Deletion status
Tariff	Creation timestamp
Tariff	Last update timestamp
Service items	Service item technical identifier
Service items	Service
Service items	System entity
Service items	Category
Service items	Service item code
Service items	Service item name
Service items	Deletion status
Service items	Creation timestamp
Service items	Last update timestamp
Fee schedule	Fee schedule technical identifier
Fee schedule	Tariff technical identifier
Fee schedule	Tariff name
Fee schedule	System entity
Fee schedule	System item technical identifier
Fee schedule	Service item code
Fee schedule	Currency

All rights reserved.

Fee schedule	Fee type
Fee schedule	Fee price
Fee schedule	Computation method
Fee schedule	Valid from
Fee schedule	Valid to
Fee schedule	Deletion status
Fee schedule	Creation timestamp
Fee schedule	Last update timestamp
Fee bands	Fee band technical identifier
Fee bands	Fee schedule technical identifier
Fee bands	System entity
Fee bands	Service item technical identifier
Fee bands	Service item code
Fee bands	Band price
Fee bands	Lower bound
Fee bands	Upper bound
Fee bands	Deletion status
Fee bands	Creation timestamp
Fee bands	Last update timestamp
VAT	VAT technical identifier
VAT	System entity
VAT	Service
VAT	Party technical identifier
VAT	Party BIC
VAT	Default flag
VAT	VAT mnemonic
VAT	VAT percentage

All rights reserved.

VAT	Deletion status
VAT	Creation timestamp
VAT	Last update timestamp
VAT for service items	VAT service item link technical identifier
VAT for service items	Service item technical identifier
VAT for service items	Service item code
VAT for service items	System entity
VAT for service items	Deletion status
VAT for service items	Creation timestamp
VAT for service items	Last update timestamp
Billing group	Aggregation group technical identifier
Billing group	Leader Party technical identifier
Billing group	Leader Party BIC
Billing group	System entity
Billing group	Aggregation group name
Billing group	Deletion status
Billing group	Creation timestamp
Billing group	Last update timestamp
Billing group entities	Aggregation entity technical identifier
Billing group entities	Aggregation group technical identifier
Billing group entities	Aggregation group name
Billing group entities	Aggregation group member party technical ID
Billing group entities	Aggregation group member party BIC
Billing group entities	System entity
Billing group entities	Valid from
Billing group entities	Valid to

All rights reserved.

Billing group entities	Deletion status
Billing group entities	Creation timestamp
Billing group entities	Last update timestamp

Table 16 - BIL03 - Critical data fields

5.3.4 BIL04 – Detailed consumption

Context of usage

This report provides detailed information on consumption data for a selected period and provides information on the originator and the charged party, the service item category and code and the quantity of each service item per day within the selected period. CBs can retrieve information on the detailed consumption data of those parties belonging to their system entity.

This report does not contain any ECMS billing data as ECMS is aggregating the data itself on a monthly basis and afterwards these are delivered to BILL.

This report can be used by CB users only.

Report access

This report can be reached in the following way:

[Team Content] >> [Predefined Reports] >> [BIL – Billing Reports] >> [BIL04]

Screenshot – prompt

Figure 211 - BIL04 prompt - Manual (1)

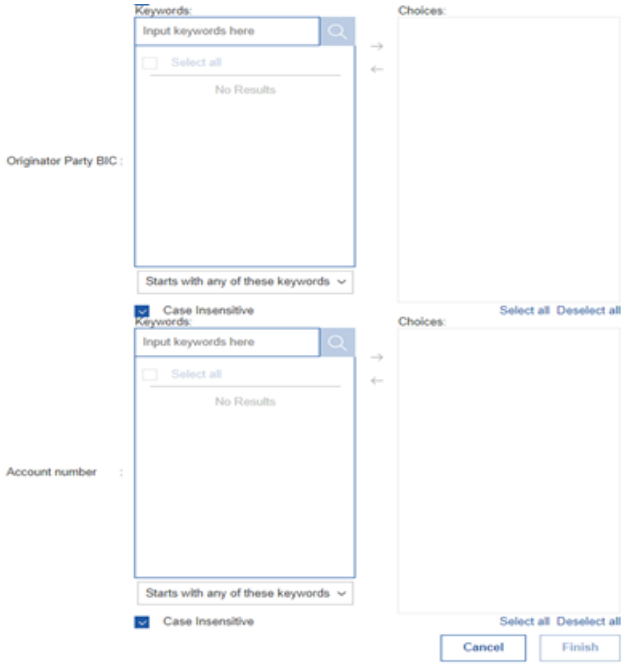


Figure 212 - BIL04 prompt - Manual (2)

Figure 213 - BIL04 prompt - Dynamic (1)

All rights reserved.

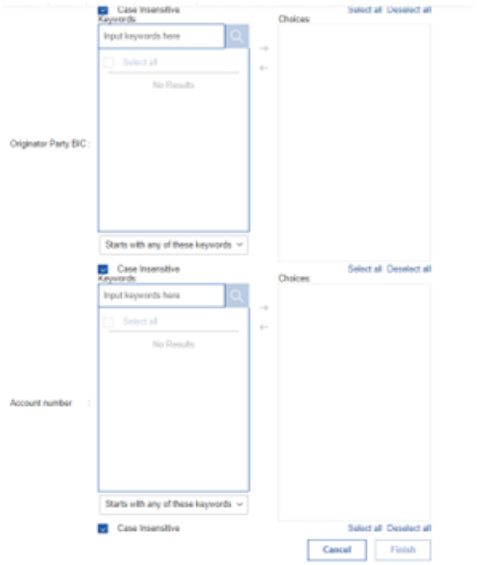


Figure 214 - BIL04 prompt - Dynamic (2)

Prompt description

BIL04 – Report description – prompt screen - Manual	
Field label	**Description**
Date from	You can select the date by clicking on the calendar. This field is mandatory.
Date to	You can select the end date of the period, for which the report should contain the data by clicking on the calendar. For valid report results, the current day cannot be selected. This field is mandatory.
Service	Service for which the data shall be displayed. Possible values: - RTGS - TIPS - T2S This field is mandatory.

Charged party BIC and name	BIC and name of the party to be charged You can use this search and select prompt to be able to search for the charged party BIC or short name. One or several parties can be selected. In case the user leaves this field free, all party BICs belonging to the user's data scope are selected. This field is optional.
Originator party BIC and name	BIC and name of the party originating the charge You can use this search and select prompt to be able to search for the charged party BIC or short name. One or several parties can be selected. In case the user leaves this field free, all party BICs belonging to the user's data scope are selected. This field is optional.
Account number	Account number to which the service item is linked This field is optional.

Table 17 - BIL04 - Prompt description - Manual

Prompt description

BIL04 – Report description – prompt screen - Dynamic	
Field label	**Description**
Reference Date	Indicates the end-point of the date range for which the dynamic report should contain data. Valid values: - Last Business Day - Prior Last Business Day The system will automatically calculate the end of the date range based upon the date at the time of execution.
Time Range	Indicates the start-point of the date range for which the dynamic report should contain data. The system will automatically calculate the start of the date range based upon the date at the time of execution.
Service	Service for which the data shall be displayed.

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	Possible values: - RTGS - TIPS - T2S This field is mandatory.
Charged party BIC and name	BIC and name of the party to be charged You can use this search and select prompt to be able to search for the charged party BIC or short name. One or several parties can be selected. In case the user leaves this field free, all party BICs belonging to the user's data scope are selected. This field is optional.
Originator party BIC and name	BIC and name of the party originating the charge You can use this search and select prompt to be able to search for the charged party BIC or short name. One or several parties can be selected. In case the user leaves this field free, all party BICs belonging to the user's data scope are selected. This field is optional.
Account number	Account number to which the service item is linked This field is optional.

Table 18 - BIL04 - Prompt description - Dynamic

Screenshot - output screen

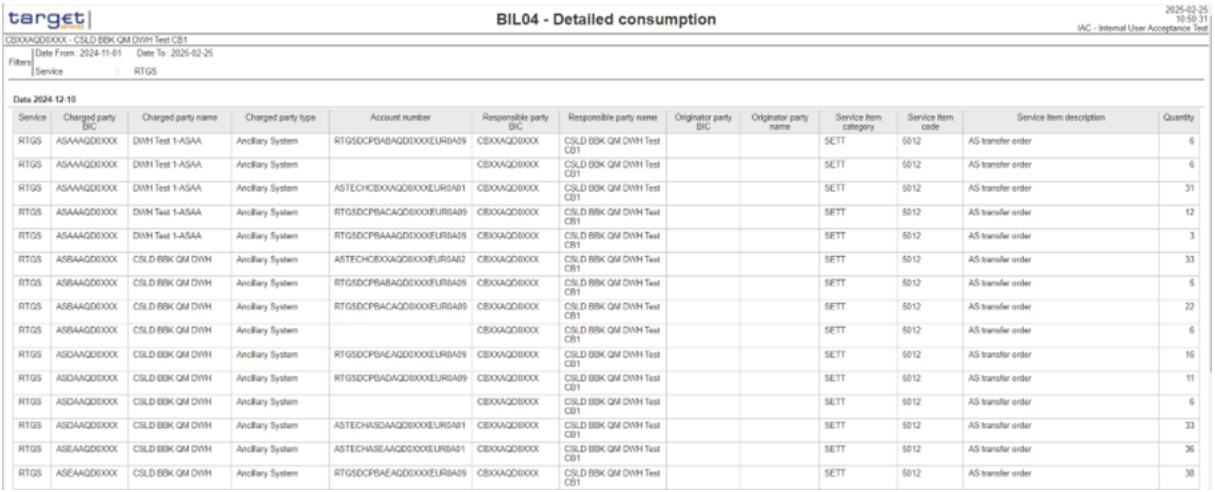

Figure 215 - BIL04 Output

Output description

BIL04 – Report description – output screen	
Field label	**Description**
Date	Date, for which the detailed consumption data is shown.
The following information is shown per date within the chosen date range.	
Service	Service where the detailed consumption data are shown. Possible values: - RTGS - TIPS - T2S
Charged party BIC	Party that is charged for the service items
Charged party name	Name of the charged party
Charged party type	Party type of the charged party.
Account number	Account number, to which the service item is linked (only filled in case of service item category “Settlement services” or “Account management services”. Otherwise empty)
Responsible party BIC	Party BIC of CB responsible for the charged party
Responsible party name	Name of the CB responsible for the charged party
Originator party BIC	BIC of the party that originated the service item
Originator party name	Name of the party that originated the service item

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Service Item category	Possible values are: - Settlement Services (SETT) - Account Management Services (ACMS) - Information Services (INSV)
Service item code	Following service item codes are currently available: - See BILL UDFS Annex I
Service item description	Following service item descriptions are currently available: - See BILL UDFS Annex I
Quantity	Number of the service items counted

Table 19 - BIL04 - Output description

5.3.5 BIL05 – Detailed participation

Context of usage

This report provides detailed information about charged parties per consumption of service item categories of each service for a given date range. CBs can retrieve information on the detailed participation data of those parties belonging to their system entity.

This report does not contain any ECMS billing data as ECMS is aggregating the data itself on a monthly basis and afterwards these are delivered to BILL.

This report can be used by CB users only.

Report access

This report can be reached in the following way:

[Team Content] >> [Predefined Reports] >> [BIL – Billing Reports] >> [BIL05]

All rights reserved.

Screenshot – prompt

Figure 216 - BIL05 prompt - Manual

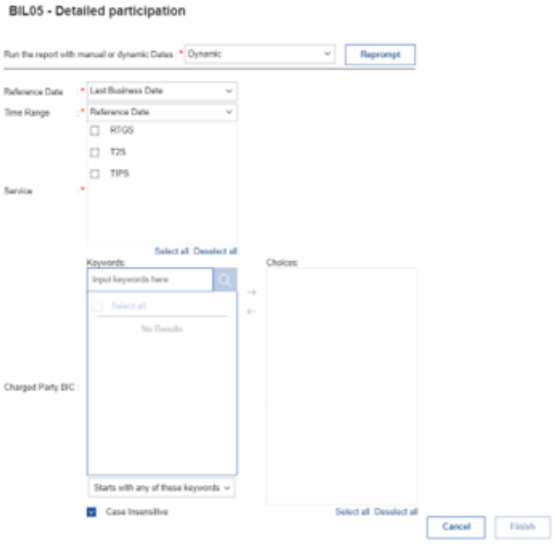

Figure 217 - BIL05 prompt - Dynamic

Prompt description

BIL05 – Report description – prompt screen - Manual	
Field label	**Description**
Date from	You can select the date by clicking on the calendar.

	This field is mandatory.
Date to	You can select the end date of the period, for which the report should contain the data by clicking on the calendar. For valid report results, the current day cannot be selected. This field is mandatory.
Service	Service for which the data shall be displayed. Possible values: - RTGS - TIPS - T2S This field is mandatory.
Charged party BIC and name	BIC and name of the party to be charged You can use this search and select prompt to be able to search for the charged party BIC or short name. One or several parties can be selected. In case the user leaves this field free, all party BICs belonging to the user's data scope are selected. This field is optional.

Table 20 - BIL05 - Prompt description - Manual

BIL05 – Report description – prompt screen - Dynamic	
Field label	**Description**
Reference Date	Indicates the end-point of the date range for which the dynamic report should contain data. Valid values: - Last Business Day - Prior Last Business Day The system will automatically calculate the end of the date range based upon the date at the time of execution.

Time Range	Indicates the start-point of the date range for which the dynamic report should contain data. The system will automatically calculate the start of the date range based upon the date at the time of execution.
Service	Service for which the data shall be displayed. Possible values: - RTGS - TIPS - T2S This field is mandatory.
Charged party BIC and name	BIC and name of the party to be charged You can use this search and select prompt to be able to search for the charged party BIC or short name. One or several parties can be selected. In case the user leaves this field free, all party BICs belonging to the user's data scope are selected. This field is optional.

Table 21 - BIL05 - Prompt description - Dynamic

Screenshot - output screen

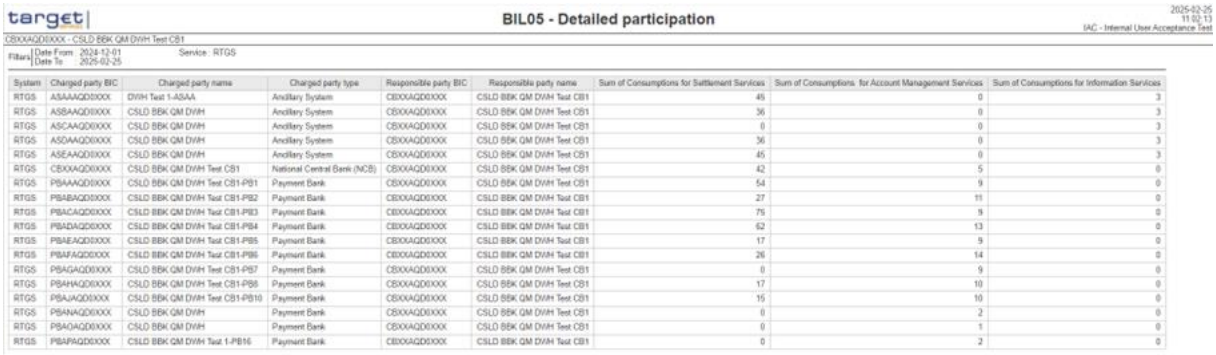

Figure 218 - BIL05 Output

Output description

BIL05 – Report description – output screen	
Field label	**Description**
Service	Service where the detailed consumption data are shown. Possible values:

	• RTGS • TIPS • T2S
Charged party BIC	Party that is charged for the service items
Charged party name	Name of the charged party
Charged party type	Party type of the charged party.
Responsible party BIC	Party BIC of CB responsible for the charged party
Responsible party name	Name of the CB responsible for the charged party
Sum of consumptions for settlement services	Number of consumptions of settlement services by the charged party during the given date range
Sum of consumptions for account management services	Number of consumptions of account management services by the charged party during the given date range
Sum of consumptions for information services	Number of consumptions of Information services by the charged party during the given date range
Quantity	Number of the service items counted

Table 22 - BIL05 - Output description

5.3.6 BIL06 – PDF invoice list

Context of usage

This report provides access to the PDF invoices created by the BILL module. The user will be provided with a list of invoices accessible to him where he can select a single invoice which is then shown either directly on the screen or downloaded to a dedicated directory (depending on the settings of the user's browser concerning handling of PDF documents).

This report can be used by CB users only.

Report access

This report can be reached in the following way:

[Team Content] >> [Predefined Reports] >> [BIL – Billing Reports] >> [BIL06]

All rights reserved.

Screenshot – prompt

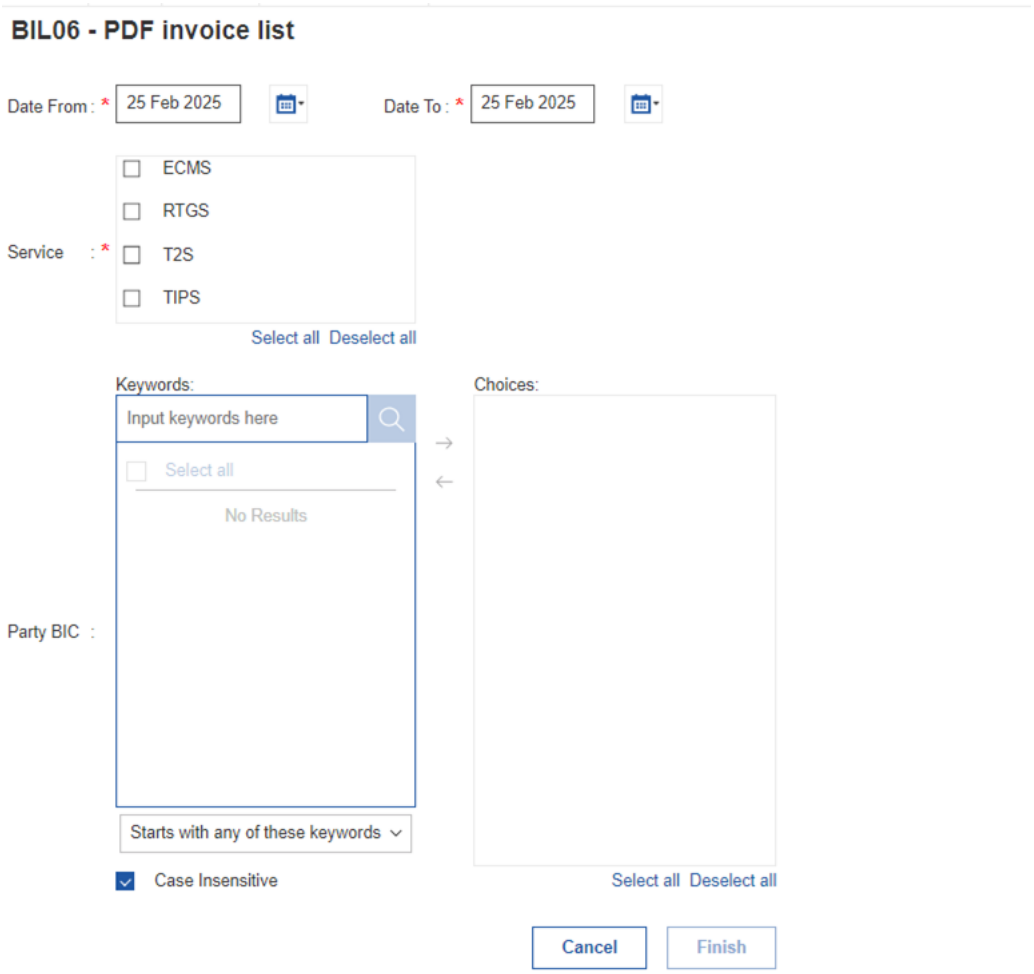

Figure 219 - BIL06 - Prompt

Prompt description

BIL06 – Report description – prompt screen	
Field label	**Description**
Date from	You can select the date by clicking on the calendar. This field is mandatory.

Date to	You can select the end date of the period, for which the report should contain the data by clicking on the calendar. For valid report results, the current day cannot be selected. This field is mandatory.
Service	Service for which the available PDF invoices shall be displayed. Possible values: - RTGS - TIPS - T2S - ECMS This field is mandatory.
Party BIC	BIC of the party, for which PDF invoices should be shown You can use this search and select prompt to be able to search for the party BIC or short name. One or several parties can be selected. In case the user leaves this field free, all party BICs belonging to the user's data scope are selected. This field is optional.

Table 23 - BIL06 - Prompt description

Screenshot - output screen

Figure 220 - BIL06 - Output

Output description

BIL06 – Report description – output screen	
Field label	**Description**
Service	Service for which the invoice was generated. Possible values: - RTGS - TIPS - T2S - ECMS
Invoice date	Business date of the invoice
Party BIC	BIC of the CB for which the invoice was created
Link to PDF invoice	URL to webserver address, where the PDF document can be accessed

Table 24 - BIL06 - Output description

5.4 Business transaction pattern monitoring (BPM)

5.4.1 BPM01 – Business transaction pattern monitoring - Submission time on T2 opening days

Context of usage

This report is part of a set of six reports which shall provide central banks with a possibility to observe significant deviations from RTGS DCA/CB Account normal behaviour in relation to several behaviour traits. Such behaviour might be an indication of fraudulent activities and central banks could act accordingly informing the RTGS DCA holders with which they have a business relationship.

This report provides alerts by RTGS DCA/RTGS CB Account, business day and time intervals of one hour if set thresholds are exceeded in terms of value and/or volume of the RTGS DCA/RTGS CB Account-interval under analysis.

The underlying data for this report are customer payments data, i.e. pacs.008 payment orders.

The report is based on the default reference period which spans two years going backwards starting from the business day prior to the business day under investigation, but it is possible to choose another period (which is input as optional report parameter).

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If the value corresponding to a certain RTGS DCA/RTGS CB Account–interval on the investigation day exceeds the threshold then an alert will be triggered

Note: In case of a new RTGS DCA/RTGS CB Account, the monitoring starts as of 3 months after its creation.

This report can be used by CBs only.

Report access

This report can be reached in the following way:

[Team Content] >> [Predefined Reports] >> [BPM – Business transaction pattern monitoring] >> [BPM01]

Screenshot – prompt

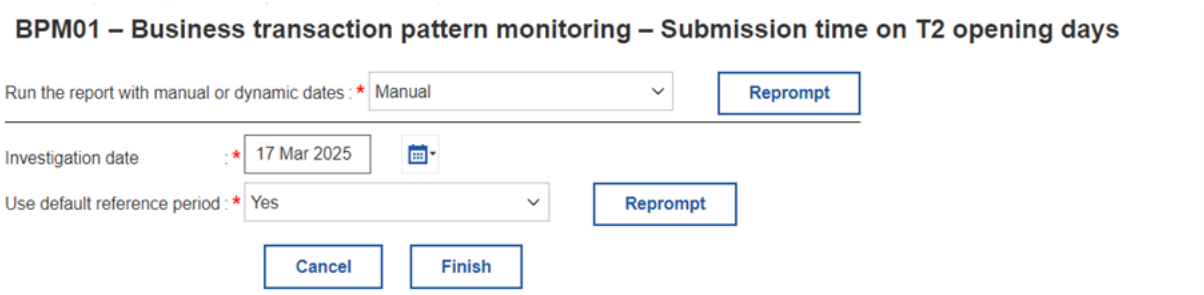


Figure 221 - BPM01 - Prompt screen "Yes" - Manual

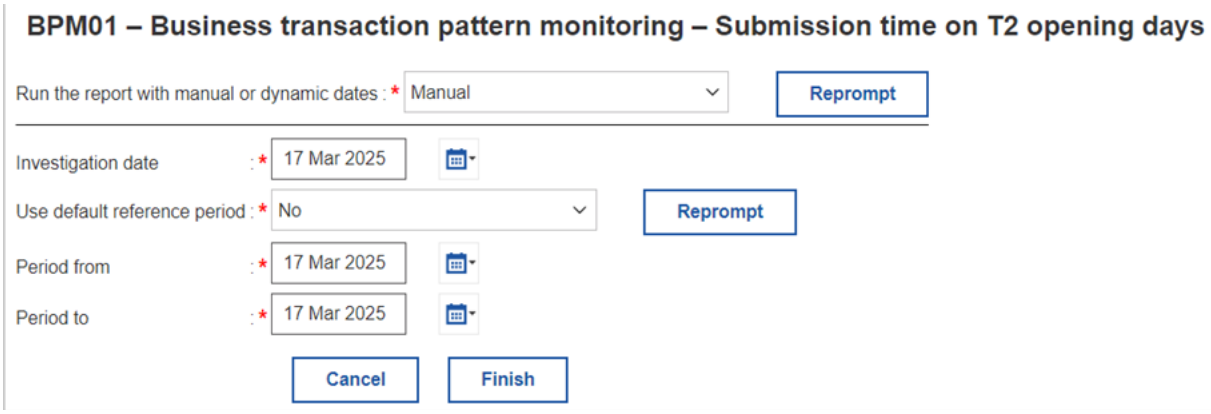


Figure 222 - BPM01 - Prompt screen "No" - Manual

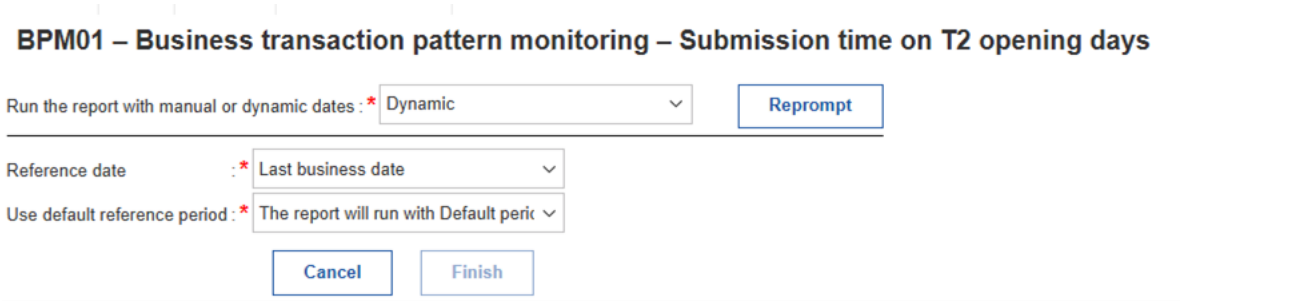


Figure 223 - BPM01 - Prompt screen – Dynamic

Prompt description

BPM01 – Report description – prompt screen - Manual	
Field label	**Description**
Investigation date:	The date chosen can be the date of the last available data load or any date within the last 10 years. This field is mandatory.

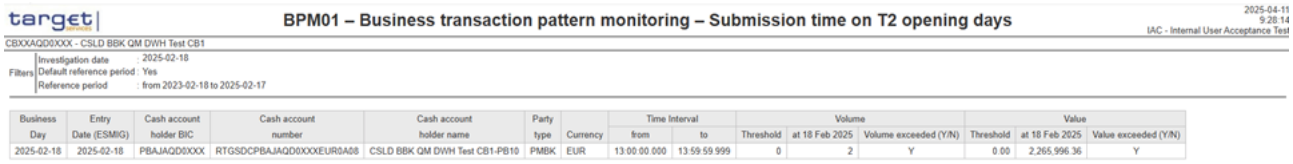
Use default reference period	The default reference period spans 2 years in the past calculated from the day prior to the investigation date. If any other period should be the basis for the analysis, the value “No” has to be chosen and a user-defined period has to be selected in the prompt fields “Period from” and “Period to”. Possible values: l Yes (default) l No This field is mandatory.
Period from	When “Use default reference period” is “No”: Date picker to select the start of the user-defined reference period. (Must be earlier than the date selected in “Period to”) Hidden if “Use default period” = Yes. This field is mandatory.
Period to	When “Use default reference period” is “No”: Date picker to select the end of the user-defined reference period. (Must be earlier than the date selected in “Period to”) Hidden if “Use default period” = Yes. This field is mandatory.

Table 25 - BPM01 – Prompt description - Manual

All rights reserved.

BPM01 – Report description – prompt screen - Dynamic	
Field label	**Description**
Reference date	Indicates the end-point of the date range for which the dynamic report should contain data. Valid values: - Last Business Day - Prior Last Business Day The system will automatically calculate the end of the date range based upon the date at the time of execution. This field is mandatory.
Use default reference period	The default reference period spans 2 years in the past calculated from the last business date or the day prior to the last business date. Selectable values: - Yes (default) This field is mandatory.

Table 26 - BPM01 – Prompt description - Dynamic


BPM01 – Business transaction pattern monitoring – Submission time on T2 opening days

CBXXAQD0XXX - CSLD BBK QM DWH Test CB1

Filters: Investigation date : 2025-02-18; Default reference period : Yes; Reference period : from 2023-02-18 to 2025-02-17

Business Day	Entry Date (ESMIG)	Cash account holder BIC	Cash account number	Cash account holder name	Party type	Currency	Time Interval from	Time Interval to	Volume Threshold	Volume at 18 Feb 2025	Volume exceeded (Y/N)	Value Threshold	Value at 18 Feb 2025	Value exceeded (Y/N)
2025-02-18	2025-02-18	PBAJAQD0XXX	RTGSDCPBAJAQD0XXXEUR0A08	CSLD BBK QM DWH Test CB1-PB10	PMBK	EUR	13:00:00.000	13:59:59.999	0	2	Y	0.00	2,265,996.36	Y

Figure 224 - BPM01 Output

Output description

BPM01 – Report description – output	
Field label	**Description**
Business day	The business day on which the business transaction was settled.
Entry Date (ESMIG)	The date at which the transaction was received by ESMIG.
Cash account holder BIC	BIC-11 of the cash account holder
Cash account number	Number of the RTGS DCA or RTGS CB account
Cash account holder name	Short name of the account holder
Party type	Party type of the account owner.

All rights reserved.

	Possible values: - NCBK - PMBK - ANSY
Currency	Currency of the cash account
“Time interval”	
From	Start time of the hour interval
To	Start time of the hour interval
“Volume”	
Threshold	Threshold calculated as 99th percentile of all the non-zero values corresponding to the cash account and the particular time interval over the reference period. In case there are less than 5 non-zero values, the threshold is set to 0 (zero).
at <investigation date>	Volume of instructions settled on the cash account
Volume exceeded (Y/N)	In case of “Y”, volume exceeds the threshold, else “N”
“Value”	
Threshold	Threshold calculated as 99th percentile of all the non-zero values corresponding to the cash account and the particular time interval over the reference period. In case there are less than 5 non-zero values, the threshold is set to 0 (zero).
at <investigation date>	Value of instructions settled on the cash account
Value exceeded (Y/N)	In case of “Y”, value exceeds the threshold, else “N”

Table 27 - BPM01 – Output description

5.4.2 BPM02 – Business transaction pattern monitoring - Submission time on T2 closing days

Context of usage

This report is part of a set of six reports which shall provide central banks with a possibility to observe significant deviations from RTGS DCA/CB Account normal behaviour in relation to several behaviour traits. Such behaviour might be an indication of fraudulent activities and central banks could act accordingly informing the RTGS DCA holders with which they have a business relationship.

All rights reserved.

This report provides alerts by RTGS DCA/RTGS CB Account, business day and time intervals of one hour if set thresholds are exceeded in terms of value and/or volume of the RTGS DCA/RTGS CB Account-interval under analysis.

It is the same as report BPM01 but focussing on pacs.008 messages received during closing days (while BPM01 relates to business days)

The underlying data for this report are customer payments data, i.e. pacs.008 payment orders.

The report is based on the default reference period which spans two years going backwards starting from the business day prior to the business day under investigation, but it is possible to choose another period (which is input as optional report parameter).

If the value corresponding to a certain RTGS DCA/RTGS CB Account–interval on the investigation day exceeds the threshold then an alert will be triggered

Note: In case of a new RTGS DCA/RTGS CB Account, the monitoring starts as of 3 months after its creation.

This report can be used by CBs only.

Report access

This report can be reached in the following way:

[Team Content] >> [Predefined Reports] >> [BPM – Business transaction pattern monitoring] >> [BPM02]

Screenshot – prompt

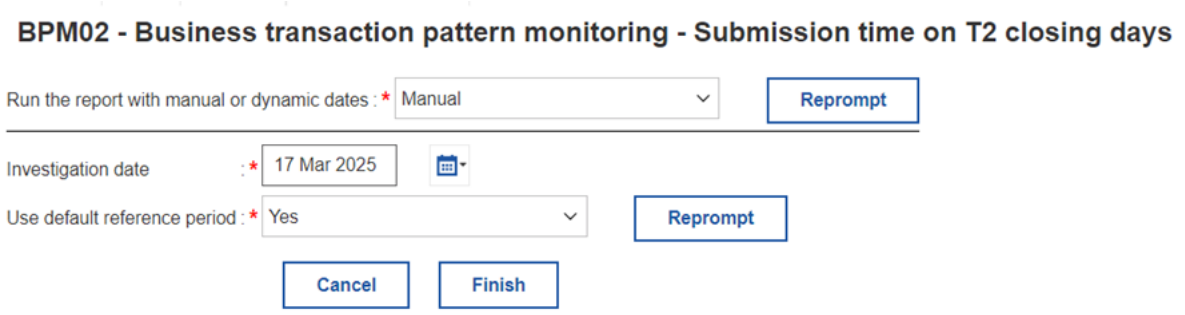


Figure 225 - BPM02 Prompt screen “Yes” - Manual

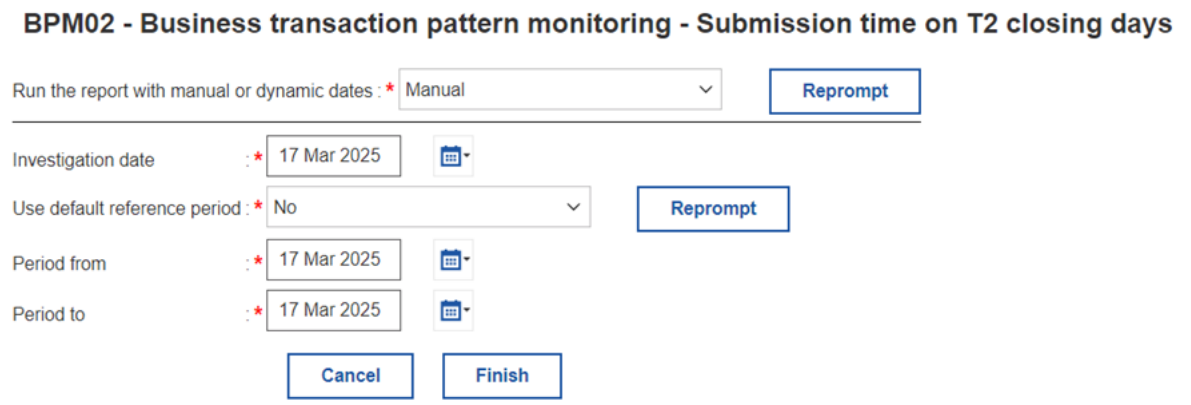


Figure 226 - BPM02 Prompt screen "No" - Manual

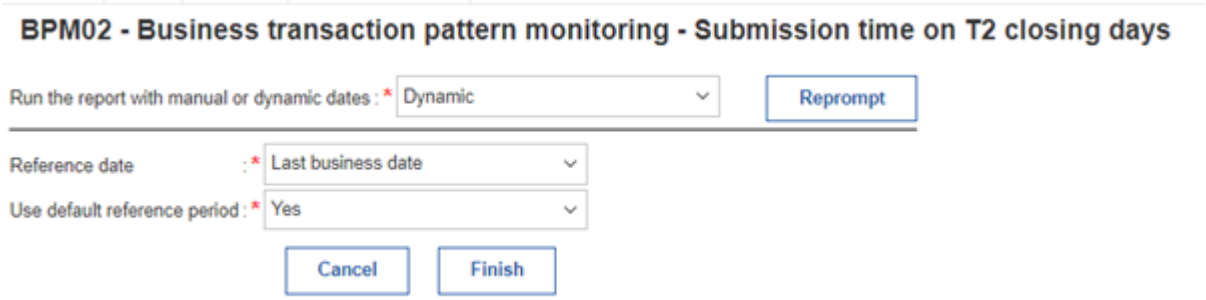


Figure 227 - BPM02 Prompt screen – Dynamic

Prompt description

BPM02 – Report description – prompt	
Field label	**Description**
Investigation date:	The date chosen can be the date of the last available data load or any date within the last 10 years. This field is mandatory.

Use default reference period	The default reference period spans 2 years in the past calculated from the day prior to the investigation date. If any other period should be the basis for the analysis, the value “No” has to be chosen and a user-defined period has to be selected in the prompt fields “Period from” and “Period to”. Possible values: - Yes (default) - No This field is mandatory.
Period from	When “Use default reference period” is “No”: Date picker to select the start of the user-defined reference period. (Must be earlier than the date selected in “Period to”) Hidden if “Use default period” = Yes. This field is mandatory.
Period to	When “Use default reference period” is “No”: Date picker to select the end of the user-defined reference period. (Must be earlier than the date selected in “Period to”) Hidden if “Use default period” = Yes. This field is mandatory.

Table 28 - BPM02 - Prompt description

BPM02 – Report description – prompt screen - Dynamic	
Field label	**Description**
Reference date	Indicates the end-point of the date range for which the dynamic report should contain data. Valid values: - Last Business Day - Prior Last Business Day The system will automatically calculate the end of the date range based upon the date at the time of execution. This field is mandatory.
Use default reference period	The default reference period spans 2 years in the past calculated from the last business date or the day prior to the last business date. Selectable values: - Yes (default) This field is mandatory.

Table 29 - BPM02 - Prompt description – prompt screen - Dynamic

Screenshot - output screen

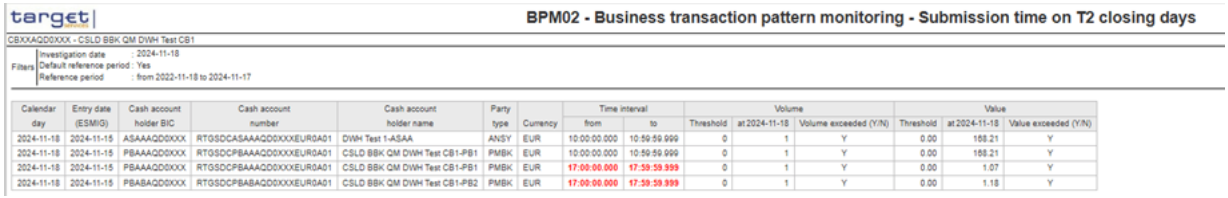


Figure 228 - BPM02 Output

Output description

BPM02 – Report description – output screen	
Field label	**Description**
Calendar day	The business day on which the business transaction was settled.
Entry Date ESMIG	The date at which the transaction was received by ESMIG.
Cash account holder BIC	BIC-11 of the cash account holder

Cash account number	Number of the RTGS DCA or RTGS CB account
Cash account holder name	Short name of the account holder
Party type	Party type of the account owner. Possible values: - NCBK - PMBK - ANSY
Currency	Currency of the cash account
“Time interval”	
From	Start time of the hour interval
To	End time of the hour interval
“Volume”	
Threshold	Threshold calculated as 99th percentile of all the non-zero values corresponding to the cash account and the particular time interval over the reference period. In case there are less than 5 non-zero values, the threshold is set to 0 (zero).
At <investigation date>	Volume of instructions settled on the cash account
Volume exceeded (Y/N)	In case of “Y”, volume exceeds the threshold, else “N”
“Value”	
Threshold	Threshold calculated as 99th percentile of all the non-zero values corresponding to the cash account and the particular time interval over the reference period. In case there are less than 5 non-zero values, the threshold is set to 0 (zero).
At <investigation date>	Value of instructions settled on the cash account
Value exceeded (Y/N)	In case of “Y”, value exceeds the threshold, else “N”

Table 30 - BPM02 – Output description

5.4.3 BPM03 – Business transaction pattern monitoring - New parties

Context of usage

This report is part of a set of six reports which shall provide central banks with a possibility to observe significant deviations from RTGS DCA/CB Account normal behaviour in relation to several behaviour traits. Such

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behaviour might be an indication of fraudulent activities and central banks could act accordingly informing the RTGS DCA holders with which they have a business relationship.

This report retrieves transaction level information of transactions that address parties (in any of the pacs.008 “party fields”) who appear for the first time in RTGS transactions relative to the reference period and who during the day of investigation are addressed in transactions debited from only one RTGS DCA/RTGS CB Account. The reference period spans two years going backwards starting from the business day prior to the business day under investigation.

The underlying data for this report are customer payments data, i.e. pacs.008 payment orders.

This report can be used by CBs only.

Report access

This report can be reached in the following way:

[Team Content] >> [Predefined Reports] >> [BPM – Business transaction pattern monitoring] >> [BPM03]

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Screenshot – prompt

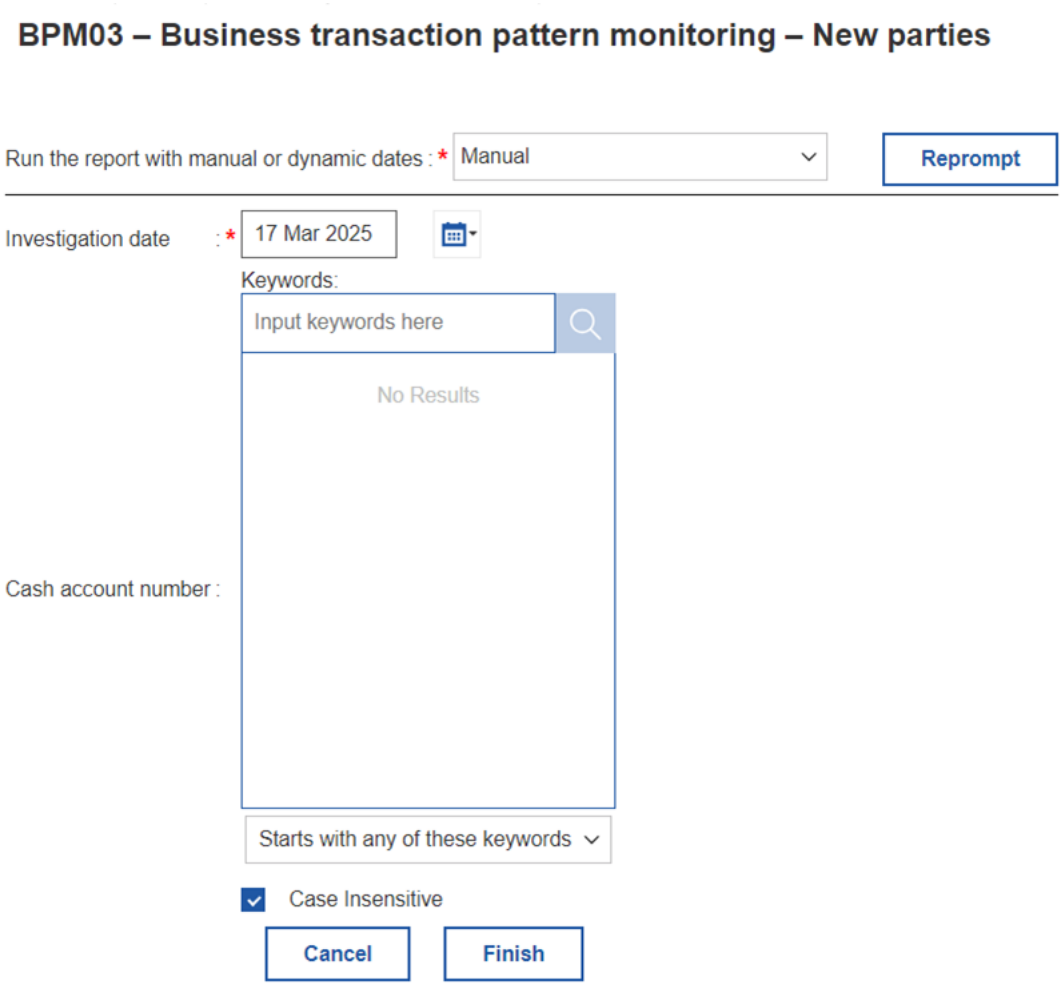

Figure 229 - BPM03 Prompt screen - Manual

Prompt description

BPM03 – Report description – prompt screen – Manual	
Field label	**Description**
Investigation date:	Date picker to select an investigation date. The date chosen can be the date of the last available data load or any date within the last 10 years. This field is mandatory.
Cash account number	Number of the RTGS DCA or RTGS CB account for which the user intends to run the report This field is optional.

Table 31 - BPM03 – Prompt description – Manual

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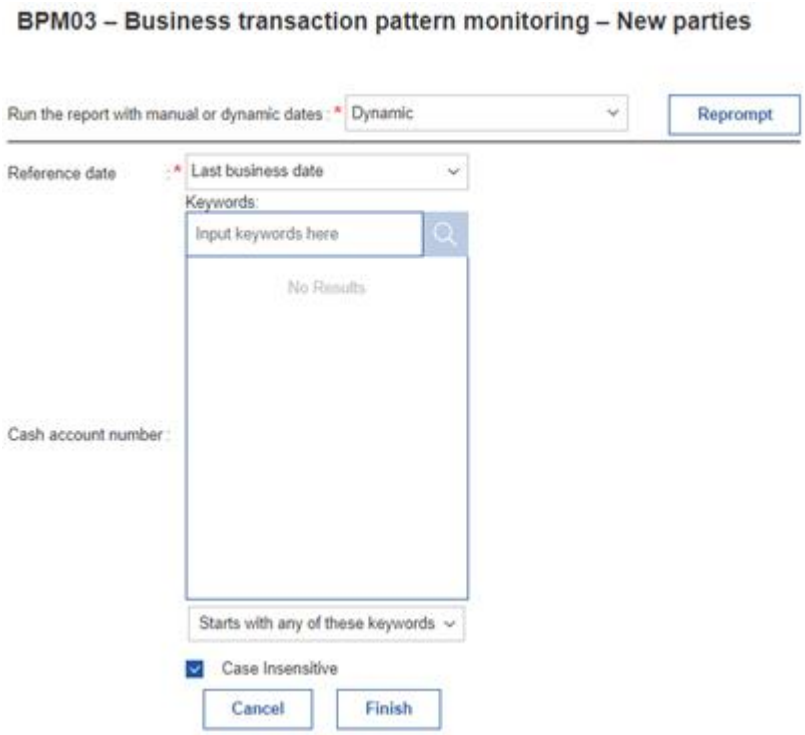

Figure 230 - BPM03 Prompt screen – Dynamic

BPM03 – Report description – prompt screen – Dynamic	
Field label	**Description**
Reference date	Indicates the end-point of the date range for which the dynamic report should contain data. Valid values: l Last Business Day l Prior Last Business Day The system will automatically calculate the end of the date range based upon the date at the time of execution. This field is mandatory.
Cash account number	Number of the RTGS DCA or RTGS CB account for which the user intends to run the report

Table 32 - BPM03 – Prompt description – Dynamic

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Screenshot - output screen

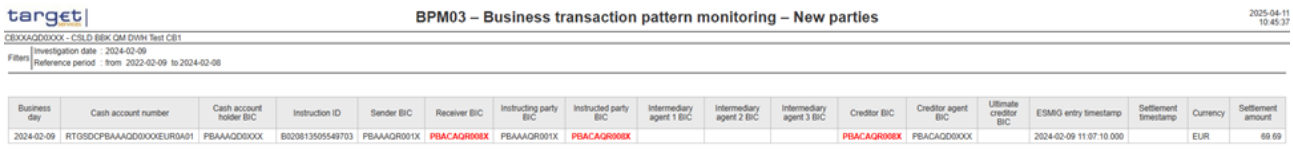

Figure 231 - BPM03 Output screen

Output description

BPM03 – Report description – output screen	
Field label	**Description**
Business day	The business day on which the business transaction was settled.
Cash account number	Number of the RTGS DCA or RTGS CB account
Cash account holder BIC	BIC-11 of the cash account owner
Instruction ID	Identifier of the instruction
Sender BIC	BIC-11 of the sender as stated in the instruction
Receiver BIC	BIC-11 of the receiver as stated in the instruction
Instructing party BIC	BIC-11 of the instructing party as stated in the instruction
Instructed party BIC	BIC-11 of the instructed party as stated in the instruction
Intermediary agent 1 BIC	BIC-11 of the intermediary agent 1 as stated in the instruction
Intermediary agent 2 BIC	BIC-11 of the intermediary agent 2 as stated in the instruction
Intermediary agent 3 BIC	BIC-11 of the intermediary agent 3 as stated in the instruction
Creditor BIC	BIC-11 of the creditor as stated in the instruction
Creditor agent BIC	BIC-11 of the creditor agent as stated in the instruction
Ultimate creditor BIC	BIC-11 of the ultimate creditor as stated in the instruction
ESMIG entry timestamp	ESMIG timestamp of the entry of the pacs.008 message
Settlement timestamp	Settlement timestamp of the instruction
Currency	Currency of the instruction
Settlement amount	Amount of the instruction

Table 33 - BPM03 - Output description

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5.4.4 BPM04 – Business transaction pattern monitoring – Failed transactions

Context of usage

This report is part of a set of six reports which shall provide central banks with a possibility to observe significant deviations from RTGS DCA/CB Account normal behaviour in relation to several behaviour traits. Such behaviour might be an indication of fraudulent activities and central banks could act accordingly informing the RTGS DCA holders with which they have a business relationship.

This report should retrieve a list of RTGS DCAs/RTGS CB Accounts for which the number/value of failed transactions is above a certain threshold which is built based on the activity during the reference period. The reference period spans two years going backwards starting from the business day prior to the business day under investigation. More precisely this period consists of d-1 to d-730[d-731] calendar days. The threshold is calculated using a coefficient defined by the CB in the prompt screen.

This report has the following two categories of instructions as input:

1. Messages that failed technical or business validation
2. Cash transfers that did not settle due to lack of liquidity

This report can be used by CBs only.

Report access

This report can be reached in the following way:

[Team Content] >> [Predefined Reports] >> [BPM – Business transaction pattern monitoring] >> [BPM04]

Screenshot – prompt

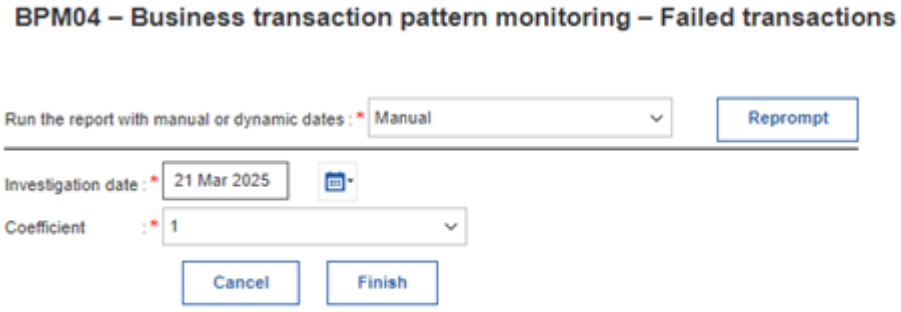

Figure 232 - BPM04 prompt - Manual

Prompt description

BPM04 – Report description – prompt screen - Manual	
Field label	**Description**
Investigation date	Date picker to select an investigation date. This field is mandatory.
Coefficient	Pull down list showing the exhaustive list of following values: - 1 (default) - 2 - 3 This field is mandatory

Table 34 - BPM04 - Prompt description - Manual

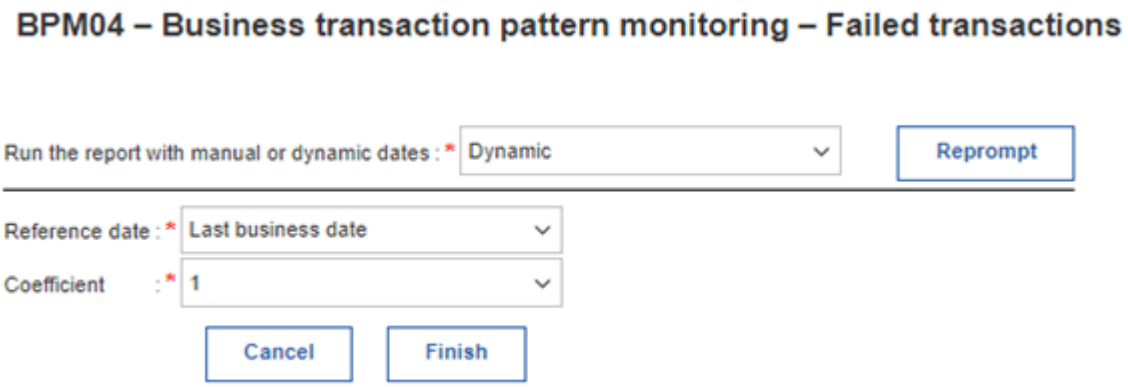

Figure 233 - BPM04 Prompt screen – Dynamic

BPM04 – Report description – prompt screen - Dynamic	
Field label	**Description**
Reference date	Indicates the date for which the dynamic report should contain data. Valid values: - Last business date - Prior last business date The system will automatically calculate the date based upon the date at the time of execution. This field is mandatory.
Coefficient	Pull down list showing the exhaustive list of following values: - 1 (default) - 2 - 3 This field is mandatory

Table 35 - BPM04 - Prompt description - Dynamic

Screenshot - output screen

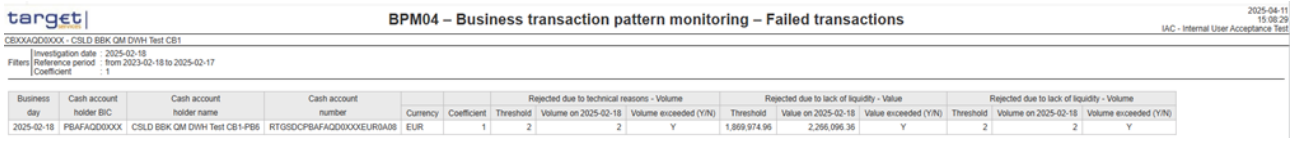

Figure 234 - BPM04 output

Output description

BPM04 – Report description – output screen	
Field label	**Description**
Business day	The business day on which the business transaction was settled.
Cash account holder BIC	BIC-11 of the cash account holder
Cash account holder name	Short name of the cash account holder
Cash account number	Number of the cash account
Currency	Currency of the cash account
Coefficient	Taken from prompt; the coefficient is used to calculate thresholds

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Rejected due to technical reasons – Volume	
Threshold	Threshold calculated from average, standard deviation and coefficient
Volume on <investigation date>	Insert investigation date in placeholder
Volume exceeded (Y/N)	In case of “Y”, volume exceeds the threshold, else “N”
Rejected due to lack of liquidity – Value	
Threshold	Threshold calculated from average, standard deviation and coefficient
Value on <investigation date>	Insert investigation date in placeholder
Value exceeded (Y/N)	In case of “Y”, value exceeds the threshold, else “N”
Rejected due to lack of liquidity – Volume	
Threshold	Threshold calculated from average, standard deviation and coefficient
Volume on <investigation date>	Insert investigation date in placeholder
Volume exceeded (Y/N)	In case of “Y”, volume exceeds the threshold, else “N”

Table 36 - BPM04 - Output description

5.4.5 BPM05 – Business transaction pattern monitoring - Daily volumes and value

Context of usage

This report is part of a set of six reports which shall provide central banks with a possibility to observe significant deviations from RTGS DCA/CB Account normal behaviour in relation to several behaviour traits. Such behaviour might be an indication of fraudulent activities and central banks could act accordingly informing the RTGS DCA holders with which they have a business relationship.

This report retrieves a list of RTGS DCAs/RTGS CB Accounts for which the number/value of final transactions (excluding revoked, cancelled and warehoused payments and those sent to T2 on a closing day) is above a certain threshold which is built based on the activity during the reference period. The reference period spans two years going backwards starting from the business day prior to the business day under investigation. The threshold is calculated using a coefficient defined by the CB in the prompt screen.

This report can be used by CBs only.

Report access

This report can be reached in the following way:

[Team Content] >> [Predefined Reports] >> [BPM – Business transaction pattern monitoring] >> [BPM05]

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Screenshot – prompt

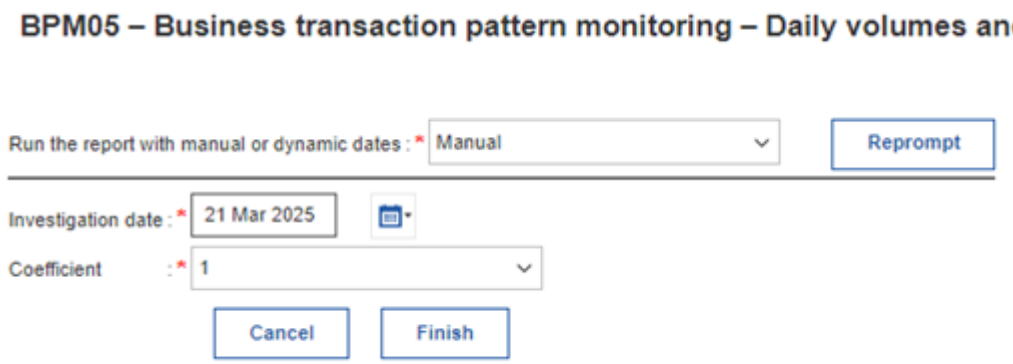

Figure 235 - BPM05 - prompt screen - Manual

Prompt description

BPM05 – Report description – prompt screen - Manual	
Field label	**Description**
Investigation date:	The date chosen can be the date of the last available data load or any date within the last 10 years. This field is mandatory.
Coefficient	The coefficient can be changed and directly affects the threshold which decides whether an alarm is raised or not. - 1 (default) - 2 - 3 This field is mandatory

Table 37 - BPM05 - Prompt description - Manual

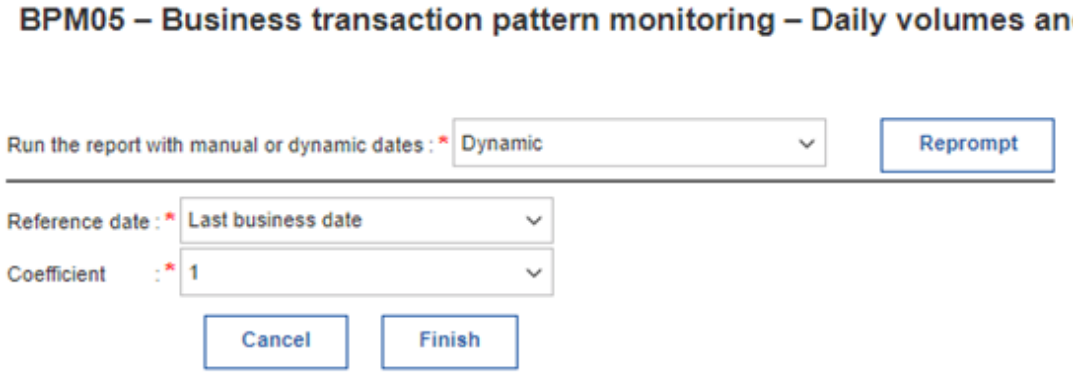

Figure 236 - BPM05 Prompt screen – Dynamic

All rights reserved.

BPM05 – Report description – prompt screen - Dynamic	
Field label	**Description**
Reference date	Indicates the date for which the dynamic report should contain data. Valid values: - Last business date - Prior last business date The system will automatically calculate the date based upon the date at the time of execution. This field is mandatory.
Coefficient	Pull down list showing the exhaustive list of following values: - 1 (default) - 2 - 3 This field is mandatory

Table 38 - BPM05 - Prompt description - Dynamic

Screenshot - output screen

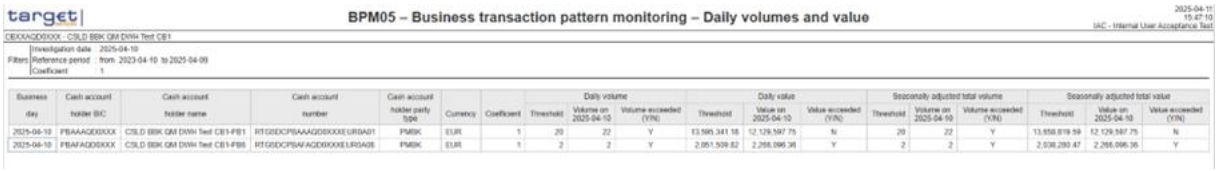

Figure 237 - BPM05 - Output

Output description

BPM05 – Report description – output screen	
Field label	**Description**
Business day	Business day on which the transactions used in the analysis were settled.
Cash account holder BIC	BIC-11 of the cash account holder.
Cash account holder name	Short name of the cash account holder.

Cash account number	Number of the cash account
Cash account holder party type	Party type of the cash account holder. Possible values: - NCBK - PMBK - ANSY
Cash account number	Number of the cash account
Currency	Currency of the cash account
Coefficient	As selected in the respective prompt field.
“Daily volume”	
Threshold	Threshold calculated from average, standard deviation and coefficient
Volume on <investigation date>	Volume of final instructions settled on the cash account
Volume exceeded (Y/N)	In case of “Y”, the volume exceeds the threshold, else “N”
“Daily value”	
Threshold	Threshold calculated from average, standard deviation and coefficient
Value on <investigation date>	Value of final instructions settled on the cash account
Value exceeded (Y/N)	In case of “Y”, the value exceeds the threshold, else “N”
“Seasonally adjusted total volume”	
Threshold	Threshold calculated from average, standard deviation and coefficient
Volume on <investigation date>	Seasonally adjusted total volume of final instructions settled on the cash account.
Volume exceeded (Y/N)	In case of “Y”, the volume exceeds the threshold, else “N”
“Seasonally adjusted total value”	
Threshold	Threshold calculated from average, standard deviation and coefficient
Value on <investigation date>	Seasonally adjusted total value of final instructions settled on the cash account.
Volume exceeded (Y/N)	In case of “Y”, the volume exceeds the threshold, else “N”

Table 39 - BPM05 - Output description

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5.4.6 BPM06 – Business transaction pattern monitoring – Overview of alerts triggered

Context of usage

This report is part of a set of six reports, which shall provide central banks with a possibility to observe significant deviations from RTGS DCA/CB Account normal behaviour in relation to several behaviour traits. Such behaviour might be an indication of fraudulent activities and central banks could act accordingly informing the RTGS DCA holders with which they have a business relationship.

This report retrieves a list of RTGS DCAs/RTGS CB Accounts for which at least one alert was triggered by the indicators below.

1. Submission time opening days – value
2. Submission time opening days– volume
3. Submission time closing days – value
4. Submission time closing days – volume
5. New party
6. Failed transactions rejected due to technical reasons – volume
7. Failed transactions rejected due to lack of liquidity – volume
8. Failed transactions rejected due to lack of liquidity – value
9. Total daily value
10. Total daily volume
11. Total daily value seasonally adjusted
12. Total daily volume seasonally adjusted

An alert occurs when the volume/value of an indicator is above a certain threshold during the reference period. The reference period spans two years going backwards starting from the business day prior to the business day under investigation. For some indicators the threshold is calculated using a coefficient defined by the CB in the prompt screen.

This report can be used by CBs only.

Report access

This report can be reached in the following way:

[Team Content] >> [Predefined Reports] >> [BPM – Business transaction pattern monitoring] >> [BPM06]

All rights reserved.

Screenshot – prompt

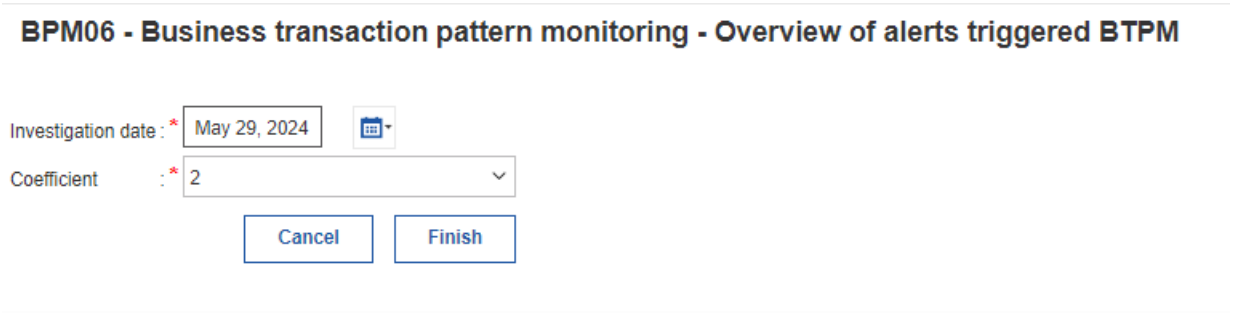

Figure 238 - BPM06 - prompt screen - Manual

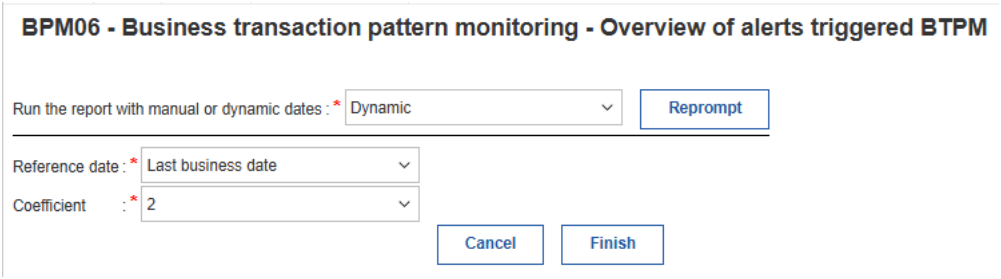

Figure 239 - BPM06 - prompt screen – Dynamic

Prompt description

BPM06 – Report description – prompt screen - Manual	
Field label	**Description**
Investigation date:	The date chosen can be the date of the last available data load or any date within the last 10 years. This field is mandatory.
Coefficient	The coefficient can be changed and directly affects the threshold which decides whether an alarm is raised or not. - 1 - 2 (default) - 3 This field is mandatory.

Table 40 - BPM06 - Prompt description - Manual

All rights reserved.

BPM06 – Report description – prompt screen – Dynamic	
Field label	**Description**
Reference date	Indicates the date for which the dynamic report should contain data. Valid values: - Last business date - Prior last business date The system will automatically calculate the date based upon the date at the time of execution. This field is mandatory.
Coefficient	Pull down list showing the exhaustive list of following values: - 1 (default) - 2 - 3 This field is mandatory.

Table 41 - BPM06 - Prompt description – Dynamic

Screenshot - output screen

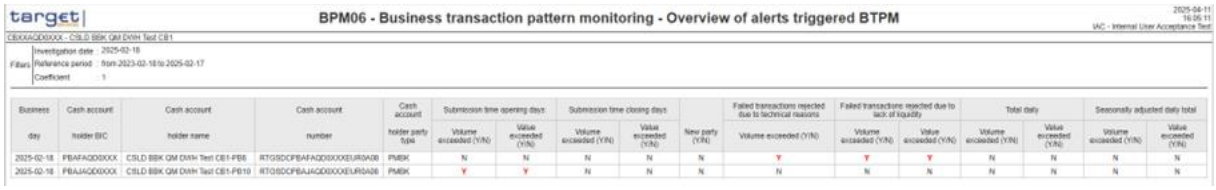

Figure 240 - BPM06 - Output

Output description

BPM06 – Report description – output screen	
Field label	**Description**
Business day	The business day on which the instructions were settled on which the report is based.
Cash account holder BIC	BIC-11 of the cash account holder.
Cash account holder name	Short name of the cash account holder.
Cash account number	Number of the cash account.

Cash account holder party type	Party type of the cash account holder. Possible values: - NCBK - PMBK - ANSY
Submission time opening days	
Volume exceeded (Y/N)	In case of “Y”, volume of instructions settled on the cah account exceeds the threshold, else “N”
Value exceeded (Y/N)	In case of “Y”, value of instructions settled on the cah account exceeds the threshold, else “N”
Submission time closing days	
Volume exceeded (Y/N)	In case of “Y”, volume of instructions settled on the cah account exceeds the threshold, else “N”
Value exceeded (Y/N)	In case of “Y”, value of instructions settled on the cah account exceeds the threshold, else “N”
New party (Y/N)	In case of “Y”, a new party involved in an instruction settld on the cash account raised an alarm, else “N”
Failed transactions rejected due to technical reasons	
Volume exceeded (Y/N)	In case of “Y”, volume of instructions rejected due to technical reasons exceeds the threshold, else “N”
Failed transactions rejected due to lack of liquidity	
Volume exceeded (Y/N)	In case of “Y”, volume of instructions rejected due lack of liquidity exceeds the threshold, else “N”
Value exceeded (Y/N)	In case of “Y”, value of instructions rejected due lack of liquidity exceeds the threshold, else “N”
Total daily	
Volume exceeded (Y/N)	In case of “Y”, total daily volume exceeds the threshold, else “N”
Value exceeded (Y/N)	In case of “Y”, total daily value exceeds the threshold, else “N”

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Seasonally adjusted daily total	
Volume exceeded (Y/N)	In case of “Y”, seasonally adjusted daily total volume exceeds the threshold, else “N”
Value exceeded (Y/N)	In case of “Y”, seasonally adjusted daily total value exceeds the threshold, else “N”

Table 42 - BPM06 - Output description

5.5 Contingency reports (CON)

5.5.1 CON01 – Cash transfers settled during contingency processing and final contingency account balances

Context of usage

This report provides information on the cash transfers settled on accounts in the Contingency Services during a contingency procedure. For each party/contingency account (with at least one cash transfer within a contingency processing) all cash transfers within the contingency processing as well as the final account balance on the contingency account at the time of the closure of the contingency processing are provided.

For each cash transfer the report provides the account number in the Contingency Services, the account number of the cash transfer counterparty in the Contingency Services, the settlement timestamp and the credit or debit amount. Cash transfers on the same account are sorted in chronological order of their settlement timestamp.

In case that several contingency processing sessions occurred within the same business day, the sessions are reported separate.

CBs can retrieve information for parties belonging to their system entity.

This report can be used by CB users only.

Report access

This report can be reached in the following way:

[Team Content] >> [Predefined Reports] >> [CON – Contingency Reports] >> [CON01]

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Screenshot – prompt

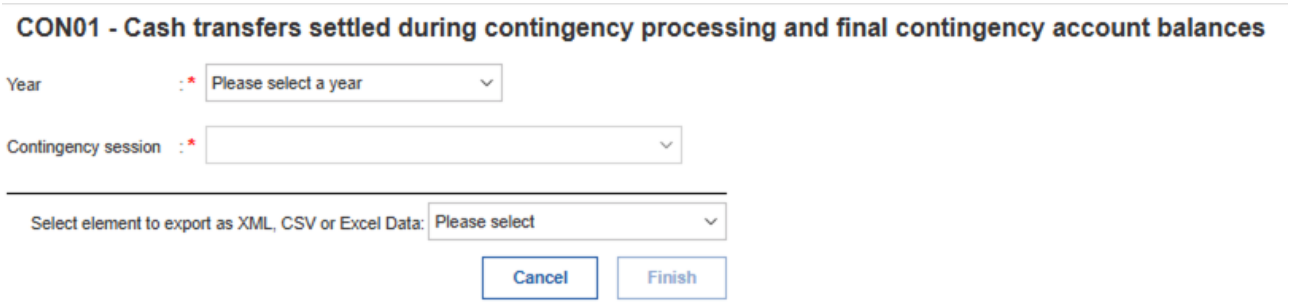

Figure 241 - CON01 prompt

Prompt description

CON01 – Report description – prompt screen	
Field label	**Description**
Year	You can use this drop-down field to select the year, from which the report should contain the data. This field is mandatory.
Contingency session	You can select the contingency session, for which the report should contain the data, depending on the chosen year. This field is mandatory.
Select element to export as XML, CSV or Excel Data	- Synthesis of contingency accounts settlements during the contingency procedure and final balances - Details on contingency cash transfers settled This field is optional.

Table 43 - CON01 - Prompt description

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Screenshot - output screen

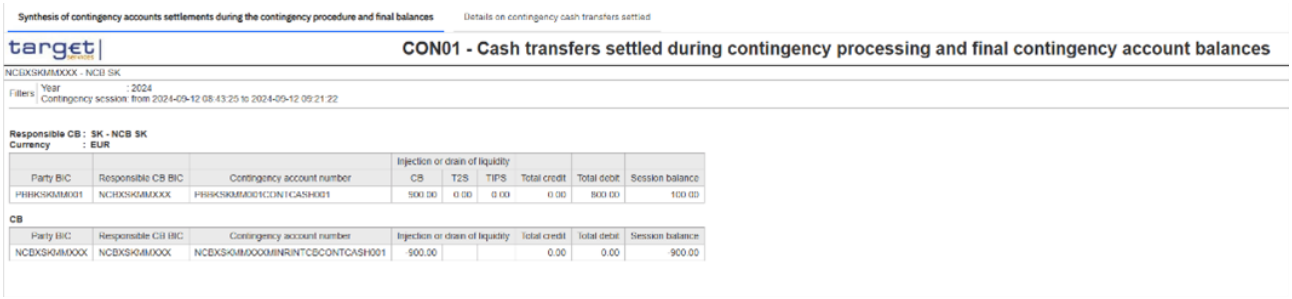

Figure 242 - CON01 output (1) (“Synthesis of contingency accounts settlements during the contingency procedure and final balances”)

Figure 243 - CON01 output (2) (“Details on contingency cash transfers settled”)

Output description

CON01 – Report description – output screen	
Field label	**Description**
Tab - Synthesis of contingency accounts settlements during the contingency procedure and final balances	
Responsible CB	ISO-country code and short name of the current CB user.
Currency	Currency of the user’s party (current CB).
Party BIC	BIC of the party whose details are listed in the following fields
Responsible CB BIC	The party BIC of the responsible CB is shown.
Parent party BIC	The party BIC of the responsible CB in case the Party BIC belongs to a PB or AS. In case the party BIC belongs to a CB, this field is empty.
Contingency account number	The account number of the contingency account of a PB and/or an AS
Injection or drain of liquidity	
CB	Sum of credited (injected) - Sum of debited (drained) amount of liquidity transfers on the current partys

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	contingency account when the counterparty of the liquidity transfer is the CB contingency account.
T2S	Sum of credited (injected) - Sum of debited (drained) amount of liquidity transfers on the current partys account when the counterparty of the liquidity transfer is the T2S contingency transit account.
TIPS	Sum of credited (injected) - Sum of debited (drained) amount of liquidity transfers on the current partys account when the counterparty of the liquidity transfer is the TIPS contingency transit account
Total credit	Sum of credited cash transfers i.e. payment orders and liquidity transfers between the current partys account and any other contingency account (excluding the CB/T2S/TIPS injections or drains) during the session.
Total debit	Sum of debited cash transfers i.e. payment orders and liquidity transfers between the current partys account and any other contingency account (excluding the CB/T2S/TIPS injections or drains) during the session.
Session balance	The available cash balance for the current partys contingency account by the end of the contingency session.
One row for the « CB » with the following data for the selected contingency session	
Party BIC	BIC of the CB
Responsible CB BIC	The party BIC of the responsible CB is shown.
Contingency account number	The contingency account number of the CB
Injection or drain of liquidity	
Injection or drain of liquidity - CB	Sum of credited (drained) - Sum of debited (injected) amount of liquidity transfers on the CBs contingency account when the counterparty of the liquidity transfer is the contingency account of a party within the data scope of the CB
Total credit	Sum of credited payment orders and liquidity transfers between the CBs contingency account and any other contingency account (excluding the liquidity transfers on the counterparty accounts within the data scope of the CB, i.e. without CB liquidity drains) during the session.

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Total debit	Sum of debited payment orders and liquidity transfers between the CBs contingency account and any other contingency account (excluding the liquidity transfers on the counterparty accounts within the data scope of the CB, i.e. without CB liquidity injections) during the session.
Session balance	The available cash balance for the CB contingency account by the end of the contingency session
Tab - Details on contingency cash transfers settled	
Field label	**Description**
Responsible CB	ISO-country code and short name of the current CB user.
Currency	Currency of the user's party (current CB).
Party BIC	BIC of the party whose details are listed in the following fields
Parent party BIC	The party BIC of the responsible CB in case the Party BIC belongs to a PB or AS
Responsible CB BIC	The party BIC of the responsible CB is shown.
Contingency account number	The contingency account number of the party
Settlement timestamp	The timestamp at which the cash transfer was settled
Counterparty contingency account number	The contingency account number of the counterparty of the cash transfer.
Counterparty CB	The country code of the CB of the counterparty of the cash transfer.
Credit	Credited value of the cash transfer
Debit	Debited value of the cash transfer

Table 44 - CON01 - Output description

5.5.2 CON02 – Contingency processing – end of procedure account balances per CB

Context of usage

This report provides the aggregated balance over all its CB contingency accounts at the end of a contingency procedure for each CB. In addition, the sum of debits and credits during a contingency procedure for each CB contingency account are reported.

This report can be used by CB users only.

All rights reserved.

Report access

This report can be reached in the following way:

[Team Content] >> [Predefined Reports] >> [CON – Contingency Reports] >> [CON02]

Screenshot – prompt

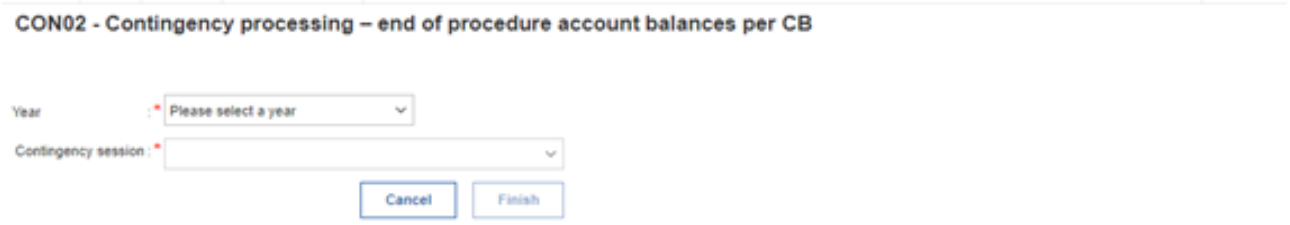

Figure 244 - CON02 prompt

Prompt description

CON02 – Report description – prompt screen	
Field label	**Description**
Year	You can use this drop-down field to select the year, from which the report should contain the data. This field is mandatory.
Contingency session	You can select the contingency session, for which the report should contain the data, depending on the chosen year. This field is mandatory.

Table 45 - CON02 - Prompt description

Screenshot - output screen

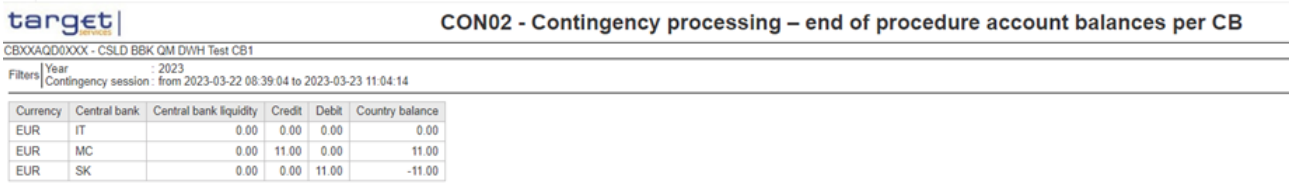

Figure 245 - CON02 output

Output description

CON02 – Report description – output screen	
Field label	**Description**
Currency	ISO currency code
Central Bank	Filled with the country code of the CB and the name of the country
Central bank liquidity	Central bank liquidity = Sum of CB liquidity drains – Sum of CB liquidity injections against the parties contingency accounts within the CBs data scope + Sum of all contingency transactions crediting any of the CB contingency accounts owned by the CB - Sum of all contingency transactions debiting any of the CB contingency accounts owned by the CB.
Credit	Sum over credited amounts of the cash transfers of the PB/As contingency accounts without CB liquidity injections
Debit	Sum over debited amounts of the cash transfers of the PB/AS contingency accounts without CB liquidity drains
Country balance	Country balance = CB liquidity + Credit – Debit

Table 46 - CON02 - Output description

5.6 Data extraction reports (DXE)

5.6.1 DXE01 – Data extraction reports: Party reference data

Context of usage

This report belongs to a group of six reports (DXE01 – DXE06) that give the users the possibility to extract static and transactional data from the DWH data store and have it sent to them as CSV files in order to feed f.ex. a local data warehouse.

The report DXE01 allows extraction of party static data which is limited to a set of party service link types to prevent the delivery of parties not being T2 parties or not being involved in the clearing and settlement of cash and liquidity transfer orders.

This report is not limited by any data scope restrictions – all parties will receive all party static data available in CRDM for T2 belonging to the following party service link types:

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- RCAH (RTGS CB Account Holder)
- RTRH (RTGS Transit Account Holder)
- RACH (RTGS Account Holder)
- ANSY (Ancillary System)
- CCAH (CLM CB Account Holder)
- CTEH (CLM CB Technical Account Holder)
- CTRH (CLM Transit Account Holder)
- CACH (CLM Account Holder)
- IMMR (Institution managing minimum reserve without account in CLM.

This report can be used by CB users only.

Report access

This report can be reached in the following way:

[Team Content] >> [Predefined Reports] >> [DXE – Data Extraction Reports] >> [DXE01]

Screenshot - output screen

No output screen available – report result is only provided via CSV files.

Output description

The report output sent via A2A consists of one file described in detail in chapter DXE01 – party reference data file specification [759].

5.6.2 DXE02 – Data extraction reports: Cash account reference data

Context of usage

This report belongs to a group of six reports (DXE01 – DXE06) that give the users the possibility to extract static and transactional data from the DWH data store and have it sent to them as CSV files in order to feed f.ex. a local data warehouse.

The report DXE02 allows extraction of cash account static data belonging to the data scope of the party of the report scheduling user, meaning those cash accounts where the user's party is the account owning or account servicing party.

This report can be used by CB users only.

All rights reserved.

Report access

This report can be reached in the following way:

[Team Content] >> [Predefined Reports] >> [DXE – Data Extraction Reports] >> [DXE02]

Screenshot - output screen

No output screen available – report result is only provided via CSV file.

Output description

The report output sent via A2A consists of one file described in detail in chapter DXE02 – Cash account reference data file specification [▸ 761].

5.6.3 DXE03 – Data extraction reports: Cash account aggregation group

Context of usage

This report belongs to a group of six reports (DXE01 – DXE06) that give the users the possibility to extract static and transactional data from the DWH data store and have it sent to them as CSV files in order to feed f.ex. a local data warehouse.

The report DXE03 allows extraction of cash account or party aggregation data referring to the cash accounts belonging to the data scope of the party of the report scheduling user, meaning aggregations to those cash accounts where the user's party is the account owning or account servicing party, or to the party itself. The following aggregation types exist:

Cash Account:

- Account monitoring group (ACCM]
- Liquidity transfer group (LQTR)
- Settlement bank account group (SETL)

Party:

- Banking group (BANK)

This report can be used by CB users only.

Data scope

The report DXE03 provides only CB-relevant aggregations, where

- For cash account aggregations: the CB is either account owning or account servicing party of the linked cash account – in other words, where the cash account owning party belongs to the data scope of the CB.

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- For party aggregations:
  The party belongs to the data scope of the CB.
- For all:
  The aggregation leader party belongs to the data scope of the CB.

To fulfil the data scope requirements, it is sufficient that one of the three clauses are true. This means, that if the aggregation leader party belongs to the data scope of the CB running the report, the extract will contain all members of the aggregation group irrespective whether they themselves belong to the data scope of the CB or not. If the aggregation leader party does not belong to the data scope of the CB then only those members of the aggregation are extracted, that belong to the data scope of the CB.

Since liquidity transfer groups do not have an aggregation leader, only those members are extracted per default, that belong to the data scope of the CB.

Report access

This report can be reached in the following way:

[Team Content] >> [Predefined Reports] >> [DXE – Data Extraction Reports] >> [DXE03]

Screenshot - output screen

No output screen available – report result is only provided via CSV files.

Output description

The report output sent via A2A consists of one file described in detail in chapter DXE03 – Cash account aggregation group file specification [▶ 764].

5.6.4 DXE04 – Data extraction reports: Cash account balance and liquidity

Context of usage

This report belongs to a group of six reports (DXE01 – DXE06) that give the users the possibility to extract static and transactional data from the DWH data store and have it sent to them as CSV files in order to feed f.ex. a local data warehouse.

The report DXE04 allows extraction of data concerning the liquidity of cash accounts belonging to the data scope of the party of the report scheduling user, meaning liquidity data of those cash accounts where the user's party is the account owning or account servicing party. This report can be used by CB users only.

The report can be used by CBs only.

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Report access

This report can be reached in the following way:

[Team Content] >> [Predefined Reports] >> [DXE – Data Extraction Reports] >> [DXE04]

Screenshot – prompt

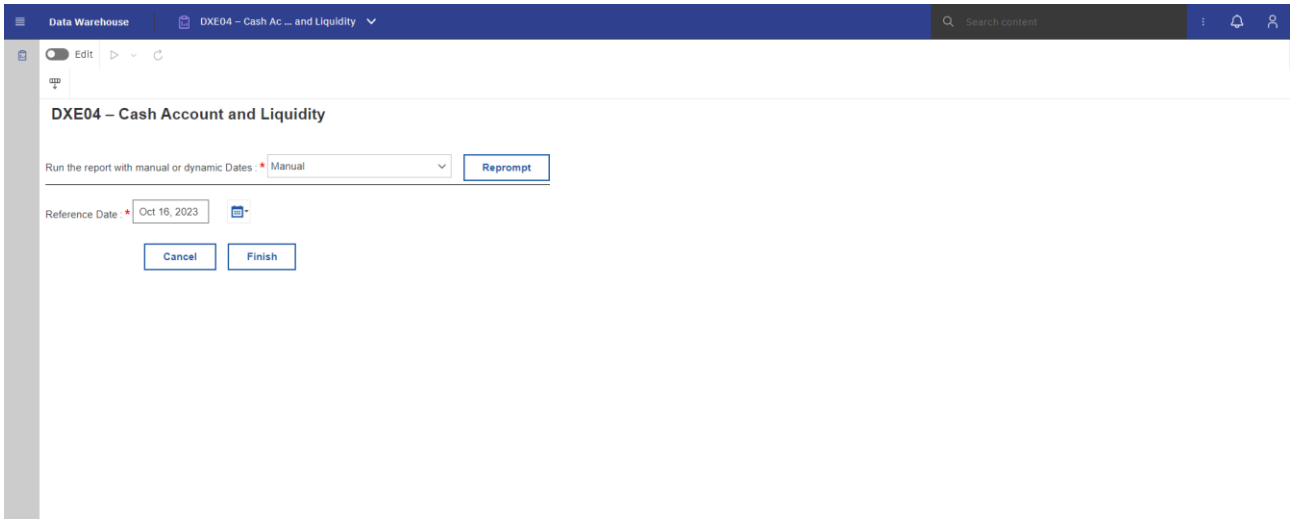

Figure 246 - DXE04 prompt - Manual

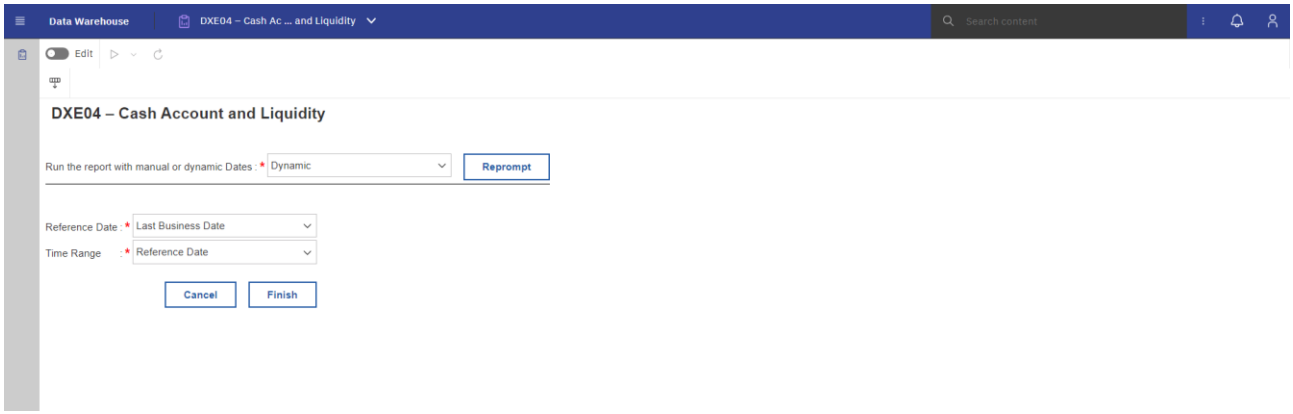

Figure 247 - DXE04 prompt - Dynamic

All rights reserved.

Prompt description

DXE04 – Report description – prompt screen - Manual	
Field label	**Description**
Reference Date	Indicates the end-point of the date range for which the dynamic report should contain data. Valid values: “Last Business Date” “Prior Last Business Date” The system will automatically calculate the end of the date range based upon the date at the time of execution.
Date Range	Indicates the start-point of the date range for which the dynamic report should contain data. Valid values: “Month-to-Date” “Week-to-Date” “Reference Date” The system will automatically calculate the start of the date range based upon the date at the time of execution.

Table 47 - DXE04 - Prompt description - Manual

DXE04 – Report description – prompt screen - Dynamic	
Field label	**Description**
Reference Date	Indicates the end-point of the date range for which the dynamic report should contain data. Valid values: - Last Business Day - Prior Last Business Day The system will automatically calculate the end of the date range based upon the date at the time of execution.
Time Range	Indicates the start-point of the date range for which the dynamic report should contain data. The system will automatically calculate the start of the date range based upon the date at the time of execution.

Table 48 - DXE04 - Prompt description – Dynamic

All rights reserved.

Screenshot – output screen

No output screen available – report result is only provided via CSV files.

Output description

The report output sent via A2A consists of one file described in detail in chapter DXE04 – Cash account balance and liquidity file specification [▶ 766].

5.6.5 DXE05 – Data extraction reports: Cash transfer orders

Context of usage

This report belongs to a group of six reports (DXE01 – DXE06) that give the users the possibility to extract static and transactional data from the DWH data store and have it sent to them as CSV files in order to feed f.ex. a local data warehouse.

The report DXE05 allows extraction of transactional data of cash accounts belonging to the data scope of the party of the report scheduling user, meaning cash transfer orders impacting those cash accounts where the user's party is the account owning or account servicing party.

The report can be used by CBs only.

Report access

This report can be reached in the following way:

[Team Content] >> [Predefined Reports] >> [DXE – Data Extraction Reports] >> [DXE05]

Screenshot – prompt

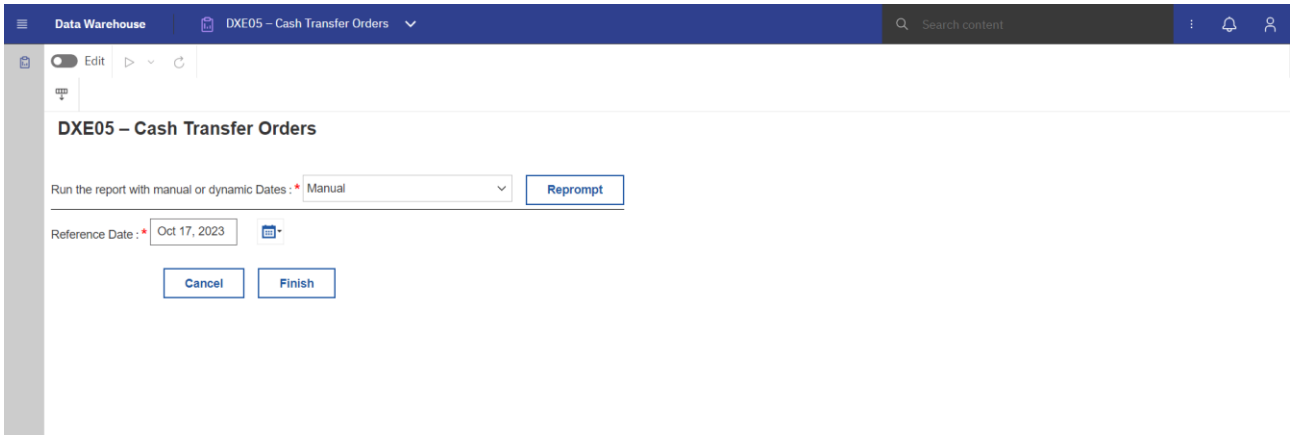

Figure 248 - DXE05 prompt - Manual

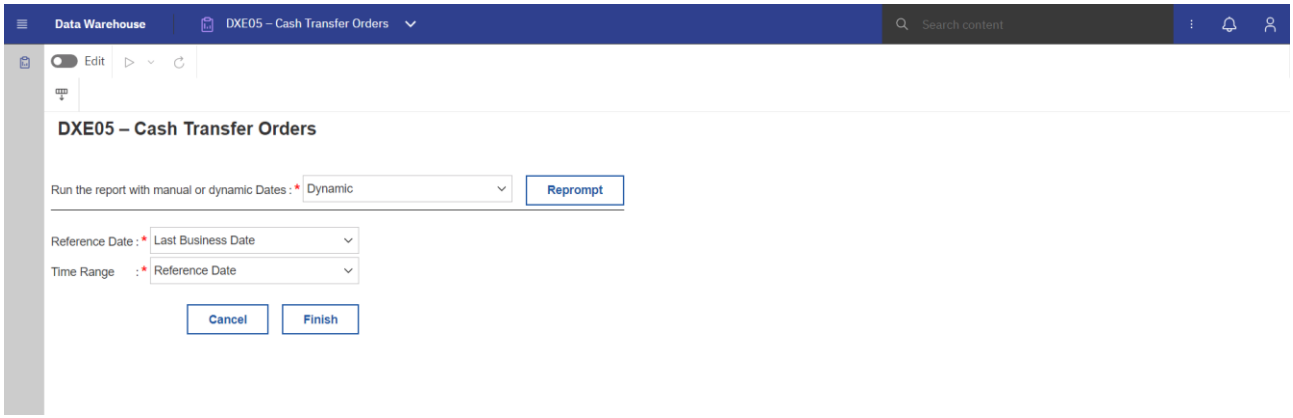

Figure 249 - DXE05 prompt - Dynamic

Prompt description

DXE05 – Report description – prompt screen - Manual	
Field label	**Description**
Reference Date	This field is mandatory.
Date Range	Indicates the start-point of the date range for which the dynamic report should contain data. Valid values: “Month-to-Date” “Week-to-Date” “Reference Date” The system will automatically calculate the start of the date range based upon the date at the time of execution.

Table 49 - DXE05 - Prompt description - Manual

DXE05 – Report description – prompt screen - Dynamic	
Field label	**Description**
Reference Date	Indicates the end-point of the date range for which the dynamic report should contain data. Valid values: - Last Business Day - Prior Last Business Day The system will automatically calculate the end of the date range based upon the date at the time of execution.
Time Range	Indicates the start-point of the date range for which the dynamic report should contain data. The system will automatically calculate the start of the date range based upon the date at the time of execution.

Table 50 - DXE05 - Prompt description – Dynamic

Screenshot – output screen

No output screen available – report result is only provided via CSV files.

Output description

The report output sent via A2A consists of one file described DXE05 – Cash transfers orders/cash transfer file specification [▸ 770].

5.6.6 DXE06 – Data extraction reports: Business day event

Context of usage

This report belongs to a group of six reports (DXE01 – DXE06) that give the users the possibility to extract static and transactional data from the DWH data store and have it sent to them as CSV files in order to feed f.ex. a local data warehouse.

The report DXE06 allows extraction of business day data along with the events and the scheduled and actual timestamps.

The report can be used by CBs only.

Report access

This report can be reached in the following way:

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[Team Content] >> [Predefined Reports] >> [DXE – Data Extraction Reports] >> [DXE06]

Screenshot – prompt

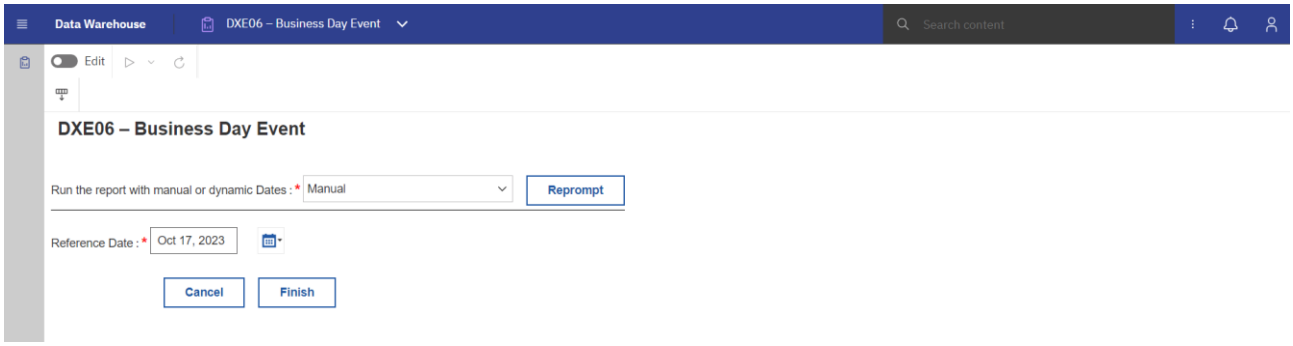

Figure 250 - DXE06 prompt - Manual

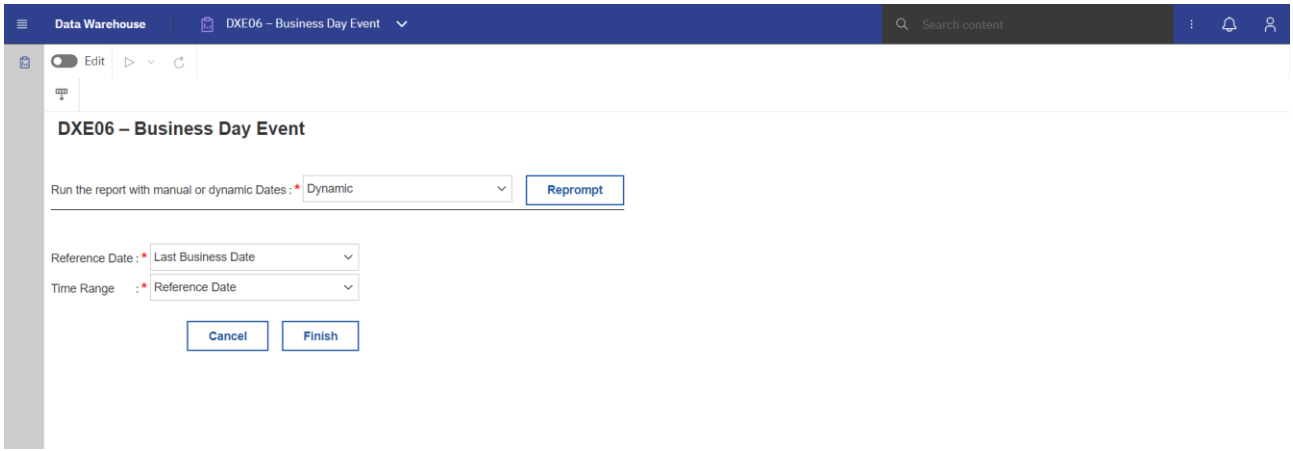

Figure 251 - DXE06 prompt - Dynamic

All rights reserved.

Prompt description

DXE06 – Report description – prompt screen - Manual	
Field label	**Description**
Reference Date	Indicates the end-point of the date range for which the dynamic report should contain data. Valid values: “Last Business Date” “Prior Last Business Date” The system will automatically calculate the end of the date range based upon the date at the time of execution.
Date Range	Indicates the start-point of the date range for which the dynamic report should contain data. Valid values: “Month-to-Date” “Week-to-Date” “Reference Date” The system will automatically calculate the start of the date range based upon the date at the time of execution.

Table 51 - DXE06 - Prompt description - Manual

DXE06 – Report description – prompt screen - Dynamic	
Field label	**Description**
Reference Date	Indicates the end-point of the date range for which the dynamic report should contain data. Valid values: - Last Business Day - Prior Last Business Day The system will automatically calculate the end of the date range based upon the date at the time of execution.
Time Range	Indicates the start-point of the date range for which the dynamic report should contain data. The system will automatically calculate the start of the date range based upon the date at the time of execution.

Table 52 - DXE06 - Prompt description – Dynamic

All rights reserved.

Screenshot - output screen

No output screen available – report result is only provided via CSV files.

Output description

The report output sent via A2A consists of one file described DXE06 – Business day file specification [▸ 782].

5.7 Intraday credit reports (IDC)

5.7.1 IDC01 – Daily Intraday credit (IDC) community indicators

Context of usage

This report provides a set of community indicators related to the use of credit lines and IDC. The indicators focus on those default main cash accounts (MCAs) belonging to the system entity of each CB and having at least once within the respective business day a credit line > 0.

For the respective business day the number of default MCAs with a credit line > 0 and the number of those with a negative intraday balance (IDC used) is reported. In addition, the report provides calculations (lowest community value, highest community value and time weighted average value) for the aggregated credit line amounts, IDC use and queued cash transfer orders.

This report can be used by CB users only.

Report access

This report can be reached in the following way:

[Team Content] >> [Predefined Reports] >> [IDC – Intraday Credit Reports] >> [IDC01]

Screenshot – prompt

Figure 252 - IDC01 prompt - Manual

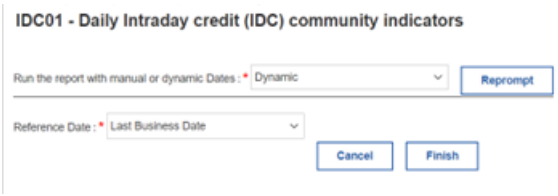

Figure 253 - IDC01 prompt - Dynamic

Prompt description

IDC01 – Report description – prompt screen - Manual	
Field label	**Description**
Date	You can select the date by clicking on the calendar. For valid report results, the current day cannot be selected. This field is mandatory.

Table 53 - IDC01 - Prompt description - Manual

IDC01 – Report description – prompt screen - Dynamic	
Field label	**Description**
Reference Date	Reference Date for which the data shall be displayed. Possible values: - Last Business Date - Prior Last Business Date This field is mandatory.

Table 54 - IDC01 - Prompt description - Dynamic

Screenshot - output screen

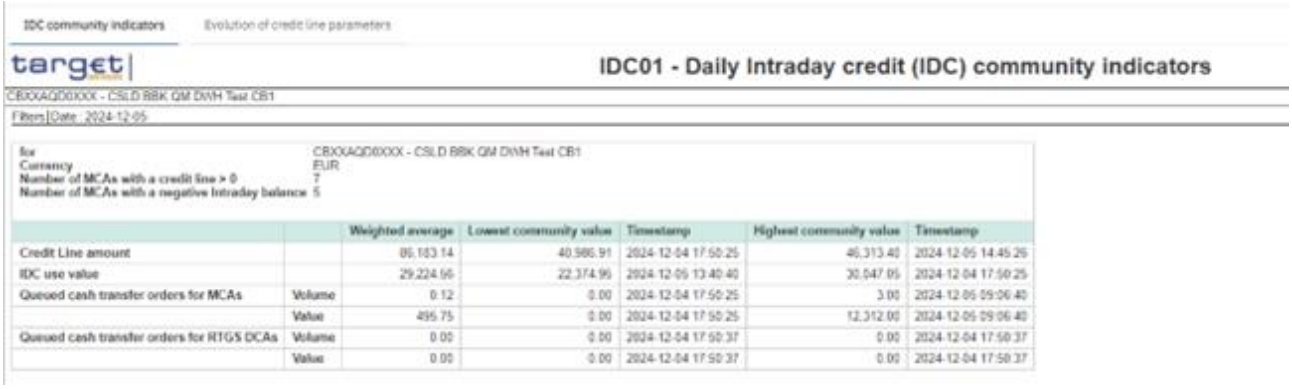

Figure 254 - IDC01 Output (1) - IDC community indicators

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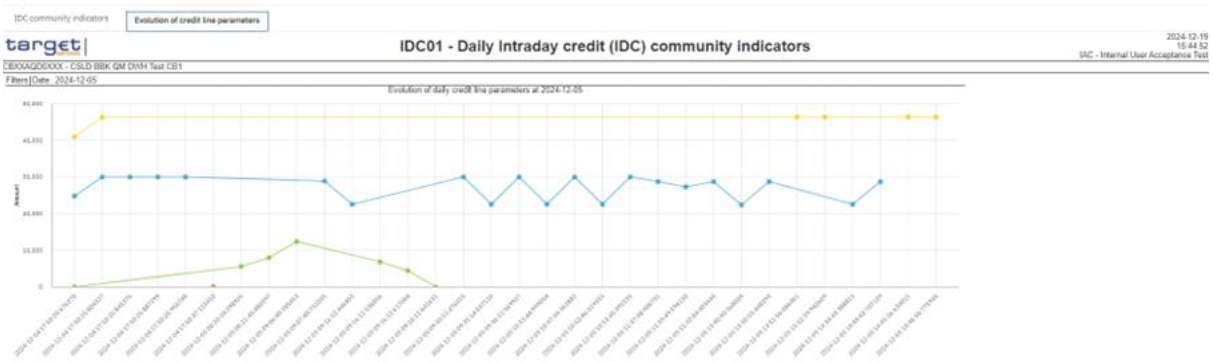

Figure 255 - IDC01 Output (2) - Evolution of credit line parameters

Output description

IDC01 – Report description – output screen	
Field label	**Description**
For	Shows the BIC for which the report displays the data.
Currency	Shows the ISO currency code of the CB.
Number of MCAs with a credit line > 0	Number of all MCAs, which had a credit line > 0 at least once during the selected date.
Number of MCAs with a negative intraday balance	Number of those MCAs that had a negative account balance at least once during the selected date.
Credit line amount	Amount of credit line
Weighted average	Weighted average of the credit line amount (Time based on a minute-level excluding the maintenance times during the business day)
Lowest community value	Lowest community value of the credit line amount
Timestamp	For lowest community level, this is the timestamps, when the community-wide values for the Credit line amount, the IDC use etc. reached their minimum.
Highest community value	Highest community value of the credit line amount
Timestamp	For highest community level, this is the timestamps, when the community-wide values for the Credit line amount, the IDC use etc. reached their maximum.
IDC use value	Total amount of intraday credit use
Weighted average	Weighted average of the IDC use value (Time based on a minute-level excluding the maintenance times during the business day).
Lowest community value	Lowest community value of the IDC use
Timestamp	For lowest community level

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Highest community value	Highest community level of the IDC used
Timestamp	For highest community level
Queued cash transfer orders for MCAs volume / value	Queued cash transfer orders for the default MCAs
Weighted average volume / value	Weighted average volume/value of queued cash transfer orders for the default MCAs in CLM
Lowest community volume / value	Lowest community volume/value of queued cash transfer orders for the default MCAs in CLM
Timestamp	For lowest community level
Highest community volume / value	Highest community volume/value of queued cash transfer orders for the default MCAs in CLM
Timestamp	For highest community level
Queued cash transfer orders for RTGS DCAs volume / value	Queued cash transfer orders for the RTGS DCAs that are linked to a default MCA which had a credit line > 0 at least once a day
Weighted average volume / value	Weighted average volume/value of queued cash transfer orders for the RTGS DCAs that are linked to a default MCA which had a credit line > 0 at least once a day.
Lowest community volume / value	Lowest community volume/value of queued cash transfer orders for the RTGS DCAs that are linked to a default MCA which had a credit line > 0 at least once a day.
Timestamp	For lowest community level
Highest community volume / value	Highest community volume/value of queued cash transfer orders for the RTGS DCAs that are linked to a default MCA which had a credit line > 0 at least once a day.
Timestamp	For highest community level
Evolution of credit line parameters	
Graph 1	Evolution of daily credit line indicators Cartesian coordinate system, y-axis representing the amount, x-axis representing the time (hours of the business day)

Table 55 - IDC01 - Output description

All rights reserved.

5.7.2 IDC02 – Credit line/IDC daily reporting

Context of usage

The report IDC02 provides information related to the amount of credit line, the use of IDC and queued cash transfer orders on a given business day for a selected holder of a default MCA.

CBs can retrieve information on default MCAs of those parties belonging to their system entity.

This report can be used by CB users only.

Report access

This report can be reached in the following way:

[Team Content] >> [Predefined Reports] >> [IDC – Intraday Credit Reports] >> [IDC02]

Screenshot – prompt

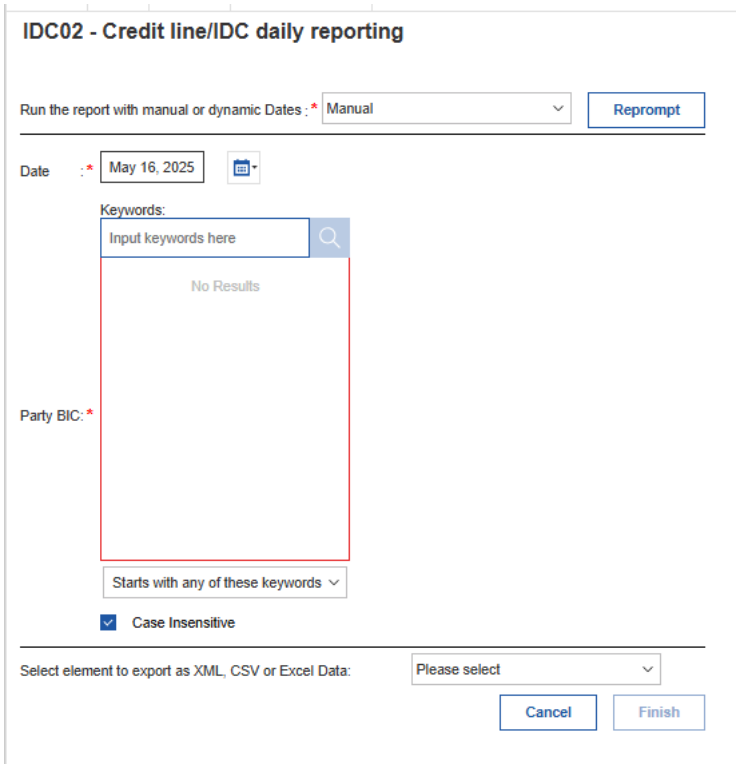


Figure 256 - IDC02 prompt - Manual

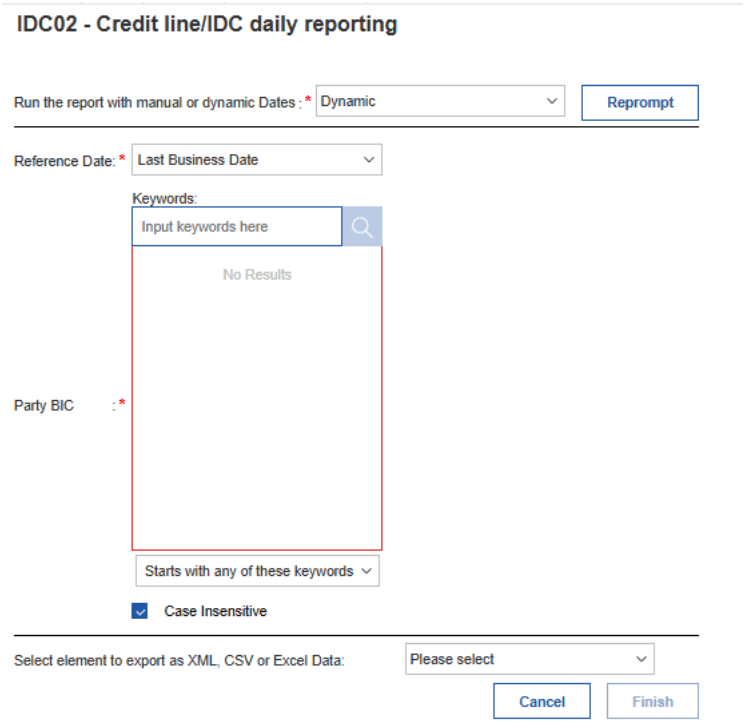


Figure 257 - IDC02 prompt - Dynamic

Prompt description

IDC02 – Report description – prompt screen - Manual	
Field label	**Description**
Date	You can select the date by clicking on the calendar. For valid report results, the current day cannot be selected. This field is mandatory.
Party BIC	You can use this drop-down field to select the Party BIC. This field will show all related BIC´s, which belong to the party. This field is mandatory.
Select element to export as XML, CSV or Excel Data	- Amount of credit line - Amount of IDC used - Queued cash transfer orders This field is optional.

Table 56 - IDC02 - Prompt description - Manual

IDC02 – Report description – prompt screen - Dynamic	
Field label	**Description**
Reference Date	Reference Date for which the data shall be displayed. Possible values: - Last Business Date - Prior Last Business Date This field is mandatory.
Party BIC	You can use this drop-down field to select the Party BIC. This field will show all related BIC´s, which belong to the party. This field is mandatory.
Select element to export as XML, CSV or Excel Data	- Amount of credit line - Amount of IDC used - Queued cash transfer orders This field is optional.

Table 57 - IDC02 - Prompt description - Dynamic

Screenshot - output screen

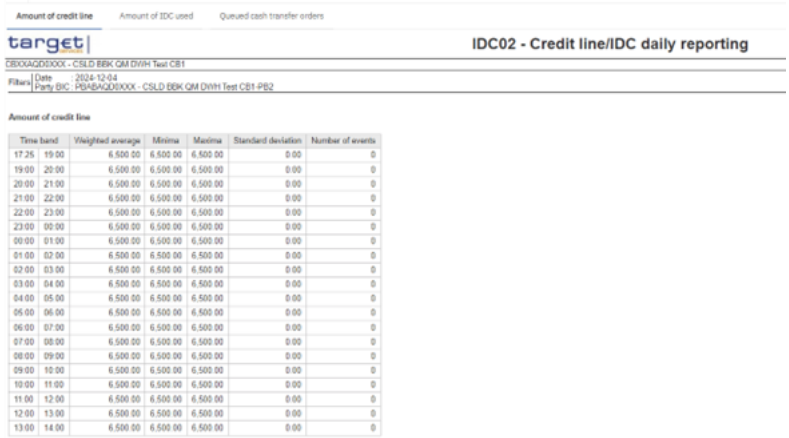
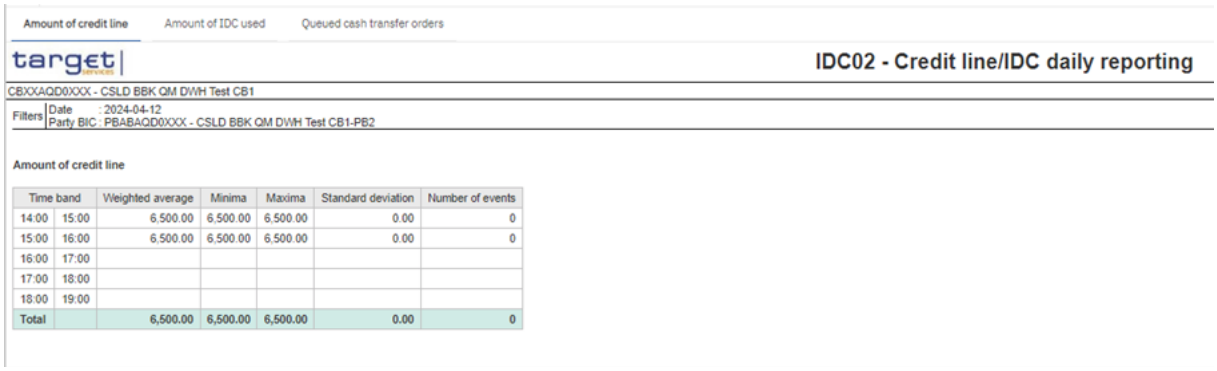


Figure 258 - IDC02 output (1) - Amount of credit line (1)



Amount of credit line | Amount of IDC used | Queued cash transfer orders

target services

IDC02 - Credit line/IDC daily reporting

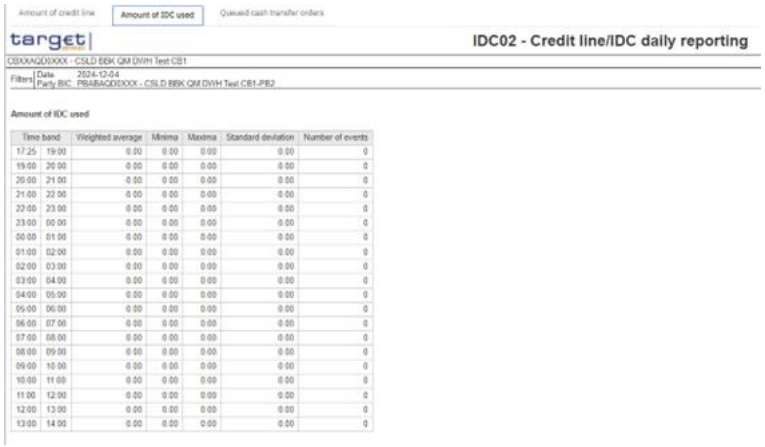
CBXXAQD0XXX - CSLD BBK QM DWH Test CB1

Filters | Date : 2024-04-12
Party BIC : PBABAQD0XXX - CSLD BBK QM DWH Test CB1-PB2

Amount of credit line

Time band		Weighted average	Minima	Maxima	Standard deviation	Number of events
14:00	15:00	6,500.00	6,500.00	6,500.00	0.00	0
15:00	16:00	6,500.00	6,500.00	6,500.00	0.00	0
16:00	17:00					
17:00	18:00					
18:00	19:00					
Total		6,500.00	6,500.00	6,500.00	0.00	0

Figure 259 - IDC02 output (1) - Amount of credit line (2)



Amount of credit line | Amount of IDC used | Queued cash transfer orders

target services

IDC02 - Credit line/IDC daily reporting

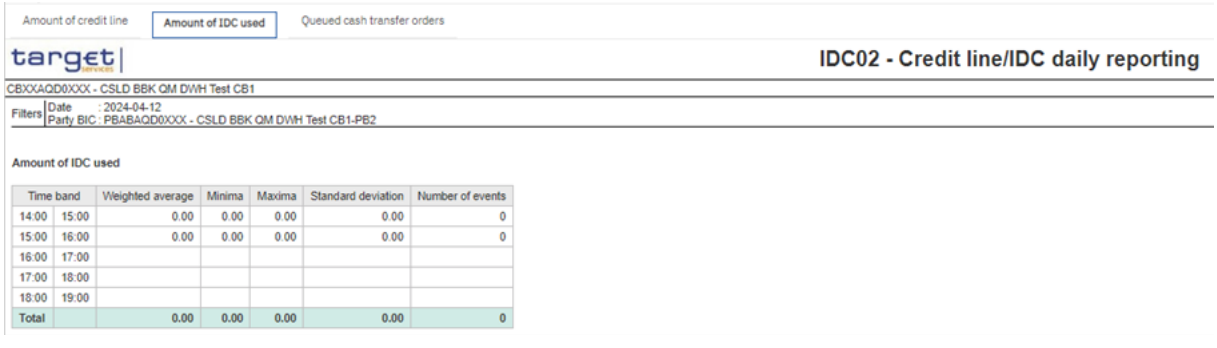
CBXXAQD0XXX - CSLD BBK QM DWH Test CB1

Filters | Date : 2024-12-04
Party BIC : PBABAQD0XXX - CSLD BBK QM DWH Test CB1-PB2

Amount of IDC used

Time band		Weighted average	Minima	Maxima	Standard deviation	Number of events
17:25	19:00	0.00	0.00	0.00	0.00	0
19:00	20:00	0.00	0.00	0.00	0.00	0
20:00	21:00	0.00	0.00	0.00	0.00	0
21:00	22:00	0.00	0.00	0.00	0.00	0
22:00	23:00	0.00	0.00	0.00	0.00	0
23:00	00:00	0.00	0.00	0.00	0.00	0
00:00	01:00	0.00	0.00	0.00	0.00	0
01:00	02:00	0.00	0.00	0.00	0.00	0
02:00	03:00	0.00	0.00	0.00	0.00	0
03:00	04:00	0.00	0.00	0.00	0.00	0
04:00	05:00	0.00	0.00	0.00	0.00	0
05:00	06:00	0.00	0.00	0.00	0.00	0
06:00	07:00	0.00	0.00	0.00	0.00	0
07:00	08:00	0.00	0.00	0.00	0.00	0
08:00	09:00	0.00	0.00	0.00	0.00	0
09:00	10:00	0.00	0.00	0.00	0.00	0
10:00	11:00	0.00	0.00	0.00	0.00	0
11:00	12:00	0.00	0.00	0.00	0.00	0
12:00	13:00	0.00	0.00	0.00	0.00	0
13:00	14:00	0.00	0.00	0.00	0.00	0

Figure 260 - IDC02 output (2) - Amount of IDC used (1)



Amount of credit line | Amount of IDC used | Queued cash transfer orders

target services

IDC02 - Credit line/IDC daily reporting

CBXXAQD0XXX - CSLD BBK QM DWH Test CB1

Filters | Date : 2024-04-12
Party BIC : PBABAQD0XXX - CSLD BBK QM DWH Test CB1-PB2

Amount of IDC used

Time band		Weighted average	Minima	Maxima	Standard deviation	Number of events
14:00	15:00	0.00	0.00	0.00	0.00	0
15:00	16:00	0.00	0.00	0.00	0.00	0
16:00	17:00					
17:00	18:00					
18:00	19:00					
Total		0.00	0.00	0.00	0.00	0

Figure 261 - IDC02 output (2) - Amount of IDC used (2)

All rights reserved.

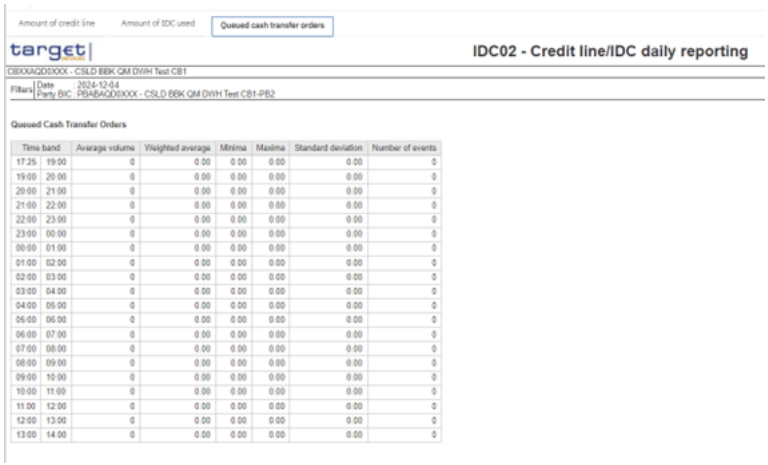
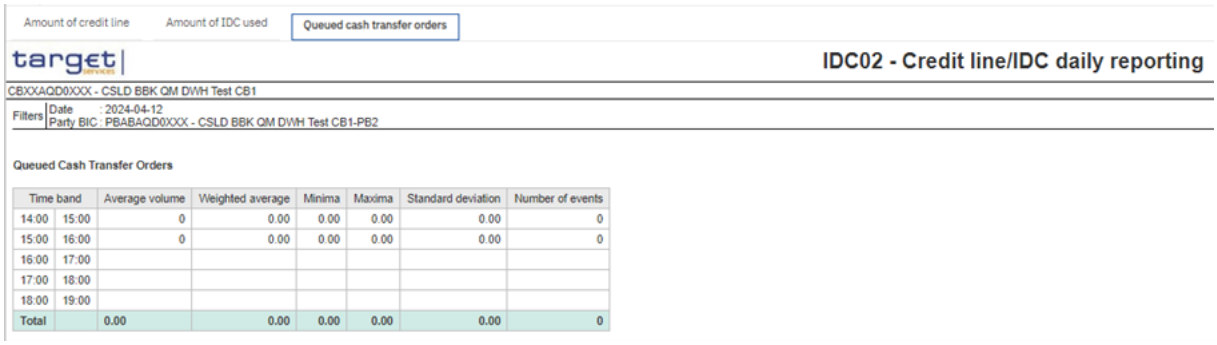


Figure 262 - IDC02 output (3) - Queued cash transfer orders (1)



Time band		Average volume	Weighted average	Minima	Maxima	Standard deviation	Number of events
14:00	15:00	0	0.00	0.00	0.00	0.00	0
15:00	16:00	0	0.00	0.00	0.00	0.00	0
16:00	17:00						
17:00	18:00						
18:00	19:00						
Total		0.00	0.00	0.00	0.00	0.00	0

Figure 263 - IDC02 output (3) - Queued cash transfer orders (2)

Output description

IDC02 – Report description – output screen	
Field label	**Description**
Following details are available in separate tables for: Amount of credit line/ Amount of IDC used/ Queued Cash Transfer Orders	
Time band	Time band in one hour interval.
Average volume	For “Queued cash transfer orders” table only: Average number of queued cash transfer orders in the timeframe 19:00:00 – 18:00:00
Weighted average	Weighted average of - the credit line amount - the amount of IDC used - the sum of values of queued cash transfer orders

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	- for the time band
Minima	Minimum of - the credit line amount - the amount of IDC used - the sum of values of queued cash transfer orders - for the time band
Maxima	Maximum of - the credit line amount - the amount of IDC used - the sum of values of queued cash transfer orders - for the time band
Standard deviation	Standard deviation of - the credit line amount values - the amounts of IDC used - the sum of values of queued cash transfer orders - during the time band
Number of events	The number of - changes to the credit line - changes to the account balance influencing the IDC use - Queued cash transfers - during the time band

Table 58 - IDC02 - Output description

5.7.3 IDC03 – Credit line/IDC averages and maxima (account level)

Context of usage

This report provides information related to the credit line and IDC development during a given date range for a selected holder of a default MCA. For each business day within the given date range the weighted average and maximum amount of credit line amount and IDC use are reported.

CBs can retrieve information on default MCAs of those parties belonging to their system entity.

This report can be used by CB, PB and AS users.

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Report access

This report can be reached in the following way:

[Team Content] >> [Predefined Reports] >> [IDC – Intraday Credit Reports] >> [IDC03]

Screenshot – prompt

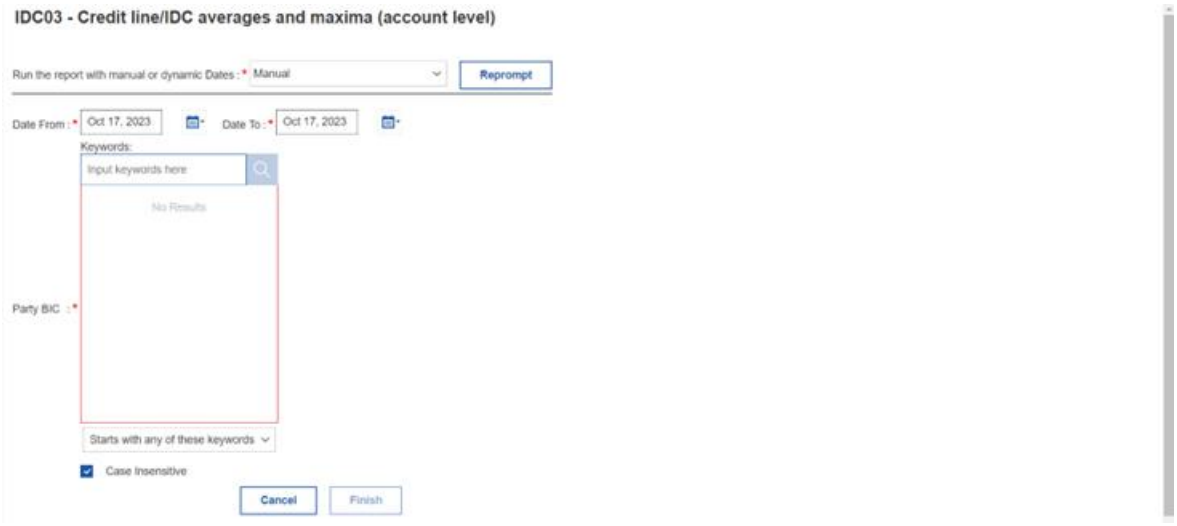


Figure 264 - IDC03 prompt - Manual

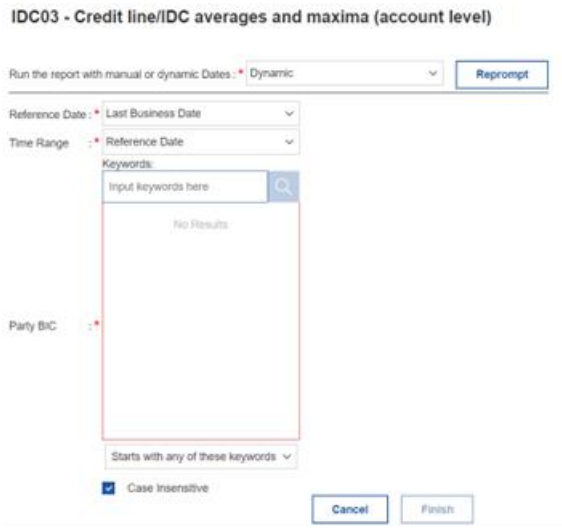


Figure 265 - IDC03 prompt - Dynamic

All rights reserved.

Prompt description

IDC03 – Report description –prompt screen - Manual	
Field label	**Description**
Date From	You can select the date by clicking on the calendar. This field is mandatory.
Date To	You can select the end date of the period, for which the report should contain the data by clicking on the calendar. For valid report results, the current day cannot be selected. This field is mandatory.
Party BIC	You can use this drop-down field to select the party BIC. This field will show all related BIC´s, which belong to the party. This field is mandatory.

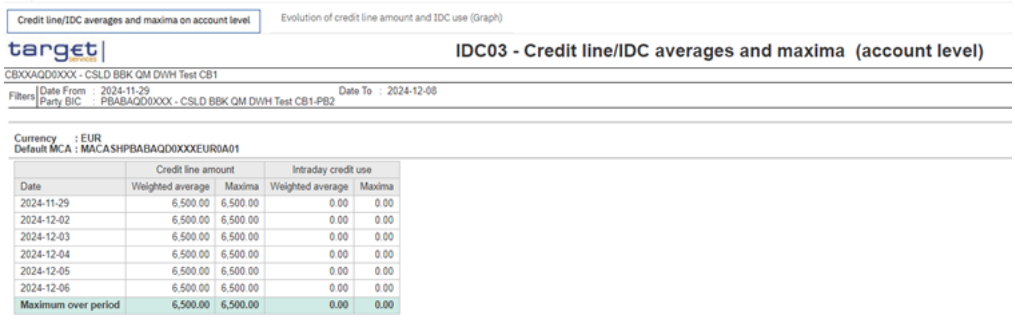
Table 59 - IDC03 - Prompt description - Manual

IDC03 – Report description –prompt screen - Dynamic	
Field label	**Description**
Reference Date	Indicates the end-point of the date range for which the dynamic report should contain data. Valid values: - Last Business Day - Prior Last Business Day The system will automatically calculate the end of the date range based upon the date at the time of execution.
Time Range	Indicates the start-point of the date range for which the dynamic report should contain data. The system will automatically calculate the start of the date range based upon the date at the time of execution.
Party BIC	You can use this drop-down field to select the party BIC. This field will show all related BIC´s, which belong to the party. This field is mandatory.

Table 60 - IDC03 - Prompt description - Dynamic

All rights reserved.

Screenshot - output screen



	Credit line amount		Intraday credit use	
Date	Weighted average	Maxima	Weighted average	Maxima
2024-11-29	6,500.00	6,500.00	0.00	0.00
2024-12-02	6,500.00	6,500.00	0.00	0.00
2024-12-03	6,500.00	6,500.00	0.00	0.00
2024-12-04	6,500.00	6,500.00	0.00	0.00
2024-12-05	6,500.00	6,500.00	0.00	0.00
2024-12-06	6,500.00	6,500.00	0.00	0.00
Maximum over period	6,500.00	6,500.00	0.00	0.00

Figure 266 - IDC03 output (1) - Credit line/ IDC averages and maxima on account level

Output Description

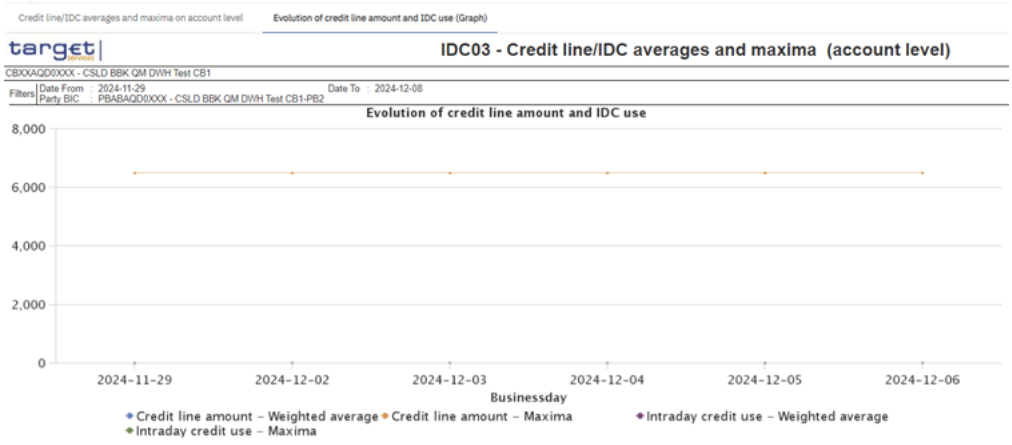


Figure 267 - IDC03 output (2) – Amount of credit line amount and IDC use (Graph)

Output description

IDC03 – Report description – output screen	
Field label	**Description**
Currency	Shows the ISO-currency code of the account.
Default MCA	Account number of the default MCA of the chosen party.
Date	One line per business date within the chosen date range, sorted by date.
Credit line amount	
Weighted average	Weighted average of the credit line amount of that day.
Maxima	Maximum of the credit line amount at that day.
Intraday credit use	
Weighted average	Weighted average of the intraday credit line use of that day.

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Maxima	Maximum of the intraday credit line use at that day.
Maximum over period	Highest amount of the respective column.
Graph 1	Evolution of credit line amount and IDC use Cartesian coordinate system, y-axis representing the amount, x-axis representing the date. Show four lines in different colours representing the values in the table on previous page.

Table 61 - IDC03 - Output description

5.7.4 IDC04 – Credit line/IDC averages and maxima (community level)

Context of usage

This report provides aggregated information related to the credit line and IDC development during a given date range at community level. For each business day within the given date range the weighted average and maximum amount of credit line amount and IDC use (aggregated Figures at community level) are reported.

CBs can retrieve aggregated information on parties belonging to their system entity.

This report can be used by CB users only.

Report access

This report can be reached in the following way:

[Team Content] >> [Predefined Reports] >> [IDC – Intraday Credit Reports] >> [IDC04]

Screenshot – prompt

Figure 268 - IDC04 prompt - Manual

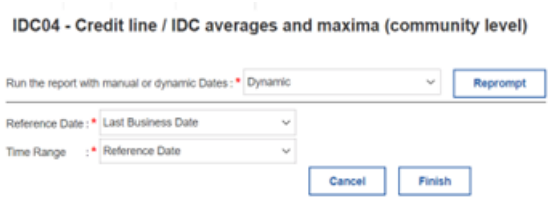


Figure 269 - IDC04 prompt - Dynamic

Prompt description

IDC04 – Report description – prompt screen - Manual	
Field label	**Description**
Date From	You can select the date by clicking on the calendar. This field is mandatory.
Date To	You can select the end date of the period, for which the report should contain the data by clicking on the calendar. For valid report results, the current day cannot be selected. This field is mandatory.

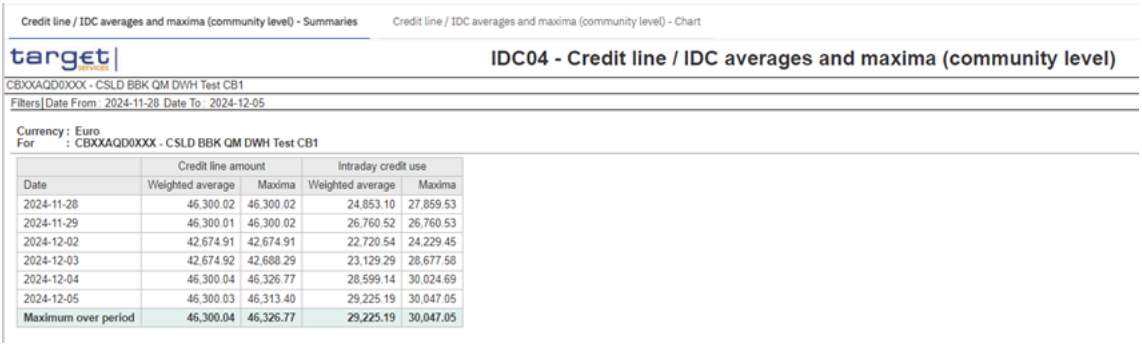
Table 62 - IDC04 - Prompt description - Manual

IDC04 – Report description – prompt screen - Dynamic	
Field label	**Description**
Reference Date	Indicates the end-point of the date range for which the dynamic report should contain data. Valid values: - Last Business Day - Prior Last Business Day The system will automatically calculate the end of the date range based upon the date at the time of execution.
Time Range	Indicates the start-point of the date range for which the dynamic report should contain data. The system will automatically calculate the start of the date range based upon the date at the time of execution.

Table 63 - IDC04 - Prompt description - Dynamic

All rights reserved.

Screenshot - output screen



Credit line / IDC averages and maxima (community level) - Summaries | Credit line / IDC averages and maxima (community level) - Chart

IDC04 - Credit line / IDC averages and maxima (community level)

CBXXAQD0XXX - CSLD BBK QM DWH Test CB1

Filters | Date From : 2024-11-28 Date To : 2024-12-05

Currency : Euro
For : CBXXAQD0XXX - CSLD BBK QM DWH Test CB1

	Credit line amount		Intraday credit use	
Date	Weighted average	Maxima	Weighted average	Maxima
2024-11-28	46,300.02	46,300.02	24,853.10	27,859.53
2024-11-29	46,300.01	46,300.02	26,760.52	26,760.53
2024-12-02	42,674.91	42,674.91	22,720.54	24,229.45
2024-12-03	42,674.92	42,688.29	23,129.29	28,677.58
2024-12-04	46,300.04	46,326.77	28,599.14	30,024.69
2024-12-05	46,300.03	46,313.40	29,225.19	30,047.05
Maximum over period	46,300.04	46,326.77	29,225.19	30,047.05

Figure 270 - IDC04 output (1) - Credit line/ IDC averages and maxima (community level) - Summaries

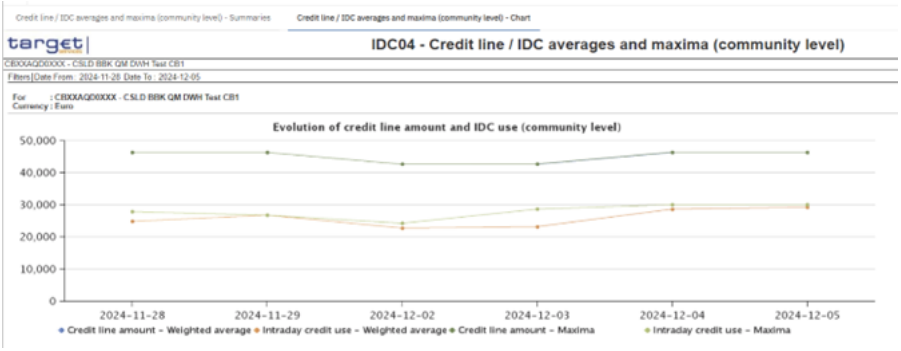


Figure 271 - IDC04 output (2) - Credit line/ IDC averages and maxima (community level) - Chart

Output description

IDC04 – Report description – output screen	
Field label	**Description**
Currency	Shows the currency for the Party BIC of the CB.
For	Displays the Party BIC of the CB and the short name.
Date	One line per business date within the chosen date range, sorted by date.
Credit line amount	
Weighted average	Weighted average of the credit line amount of that day and Weighted average of the intraday credit line use of that day.
Maxima	Maximum of the credit line amount at that day and

	Maximum of the intraday credit line use at that day.
Intraday credit use	
Weighted average	Weighted average of the intraday credit line use of that day.
Maxima	Maximum of the intraday credit line use at that day.
Maximum over period	Highest amount of the respective column.
Graph 1	"Evolution of credit line amount and IDC use (community level)" Cartesian coordinate system, y-axis representing the amount, x-axis representing the date. Show four lines in different colours representing the values in the table on previous page.

Table 64 - IDC04 - Output description

5.7.5 IDC05 – Maximum of credit line used

Context of usage

This report provides credit line and balance information for the SoD and EoD of a selected parties' default MCA on a given business day. Moreover, the peak IDC use for the selected default MCA on that business day is reported together with the corresponding amount of credit line at that point in time.

CBs can retrieve information on default MCAs of those parties belonging to their system entity.

This report can be used by CB, PB and AS users. **{CR-173}**

Report access

This report can be reached in the following way:

[Team Content] >> [Predefined Reports] >> [IDC – Intraday Credit Reports] >> [IDC05]

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Screenshot – prompt

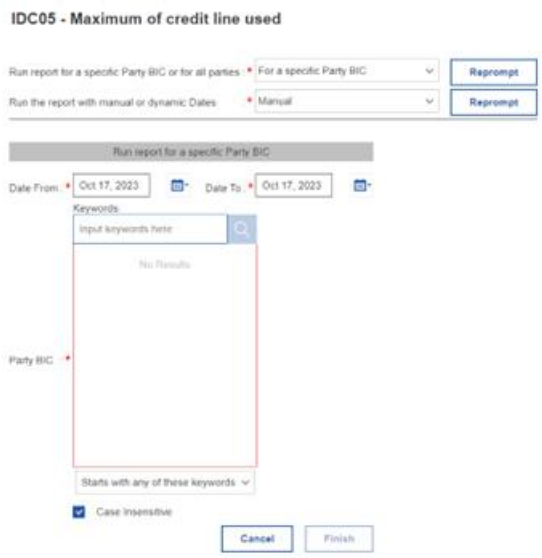


Figure 272 - IDC05 prompt (1) – For a specific party BIC – Manual

Figure 273 - IDC05 prompt (2) – For a specific party BIC – Dynamic

Figure 274 - IDC05 prompt (3) – For all parties – Manual

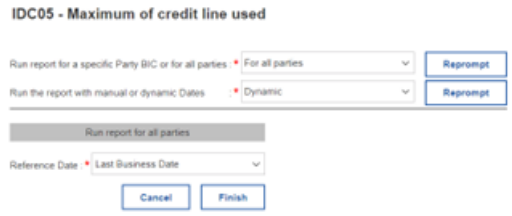


Figure 275 - IDC05 prompt (4) – For all parties - Dynamic

Prompt description

IDC05 – Report description –prompt screen - Manual	
Field label	**Description**
Date From	You can select the date by clicking on the calendar. This field is mandatory.
Date To	You can select the end date of the period, for which the report should contain the data by clicking on the calendar. For valid report results, the current day cannot be selected. This field is mandatory.
Party BIC	You can use this drop-down field to select the party BIC. This field will show all related BICs, which belong to the party. In case the party BIC is not selected, the report only shows results for one date (the date selected under “Date from”). This field is optional.

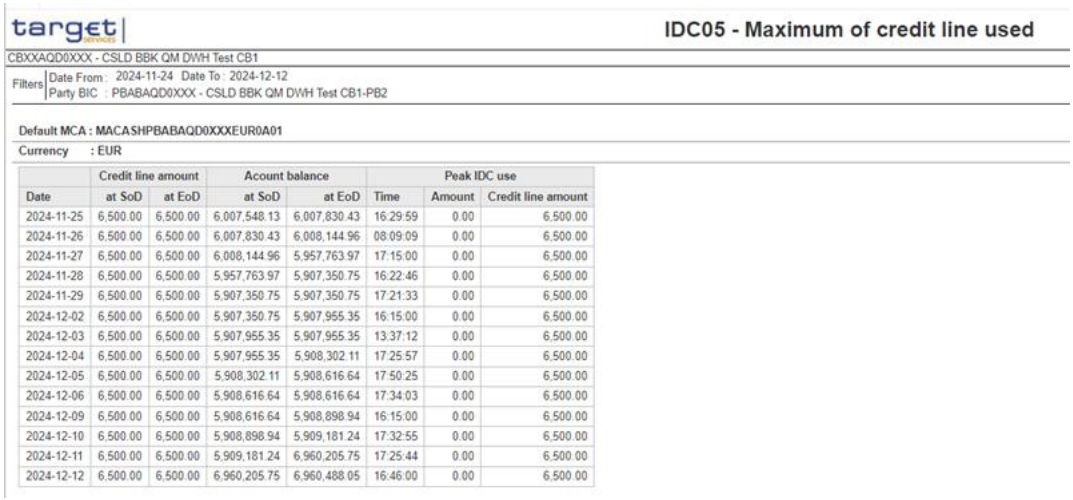
Table 65 - IDC05 - Prompt description - Manual

All rights reserved.

IDC05 – Report description –prompt screen - Dynamic	
Field label	**Description**
Reference Date	Indicates the end-point of the date range for which the dynamic report should contain data. Valid values: - Last Business Day - Prior Last Business Day The system will automatically calculate the end of the date range based upon the date at the time of execution.
Time Range	Indicates the start-point of the date range for which the dynamic report should contain data. The system will automatically calculate the start of the date range based upon the date at the time of execution.
Party BIC	You can use this drop-down field to select the party BIC. This field will show all related BICs, which belong to the party. In case the party BIC is not selected, the report only shows results for one date (the date selected under “Date from”). This field is optional.

Table 66 - IDC05 - Prompt description - Dynamic

Screenshot - output screen



IDC05 - Maximum of credit line used

CBXXAQD0XXX - CSLD BBK QM DWH Test CB1

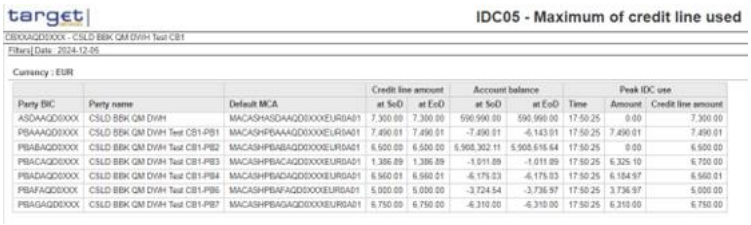
Filters | Date From : 2024-11-24 Date To : 2024-12-12
Party BIC : PBABAQD0XXX - CSLD BBK QM DWH Test CB1-PB2

Default MCA : MACASHPBABAQD0XXXEUR0A01
Currency : EUR

	Credit line amount		Acount balance		Peak IDC use		
Date	at SoD	at EoD	at SoD	at EoD	Time	Amount	Credit line amount
2024-11-25	6,500.00	6,500.00	6,007,548.13	6,007,830.43	16:29:59	0.00	6,500.00
2024-11-26	6,500.00	6,500.00	6,007,830.43	6,008,144.96	08:09:09	0.00	6,500.00
2024-11-27	6,500.00	6,500.00	6,008,144.96	5,957,763.97	17:15:00	0.00	6,500.00
2024-11-28	6,500.00	6,500.00	5,957,763.97	5,907,350.75	16:22:46	0.00	6,500.00
2024-11-29	6,500.00	6,500.00	5,907,350.75	5,907,350.75	17:21:33	0.00	6,500.00
2024-12-02	6,500.00	6,500.00	5,907,350.75	5,907,955.35	16:15:00	0.00	6,500.00
2024-12-03	6,500.00	6,500.00	5,907,955.35	5,907,955.35	13:37:12	0.00	6,500.00
2024-12-04	6,500.00	6,500.00	5,907,955.35	5,908,302.11	17:25:57	0.00	6,500.00
2024-12-05	6,500.00	6,500.00	5,908,302.11	5,908,616.64	17:50:25	0.00	6,500.00
2024-12-06	6,500.00	6,500.00	5,908,616.64	5,908,616.64	17:34:03	0.00	6,500.00
2024-12-09	6,500.00	6,500.00	5,908,616.64	5,908,898.94	16:15:00	0.00	6,500.00
2024-12-10	6,500.00	6,500.00	5,908,898.94	5,909,181.24	17:32:55	0.00	6,500.00
2024-12-11	6,500.00	6,500.00	5,909,181.24	6,960,205.75	17:25:44	0.00	6,500.00
2024-12-12	6,500.00	6,500.00	6,960,205.75	6,960,488.05	16:46:00	0.00	6,500.00

Figure 276 - IDC05 output (1) – For a specific party BIC

All rights reserved.



target

IDC05 - Maximum of credit line used

CBIXXAQDIXXX - CSLD BBK QM DWH Test CB1

Filters [Date : 2024-12-05

Currency : EUR

Party BIC	Party name	Default MCA	Credit line amount		Account balance		Peak IDC use		
			at SoD	at EoD	at SoD	at EoD	Time	Amount	Credit line amount
ASDAAQDIXXX	CSLD BBK QM DWH	MACASHASDAAQDIXXXEUR0A01	7,300.00	7,300.00	590,990.00	590,990.00	17:50:25	0.00	7,300.00
PBAAAQDIXXX	CSLD BBK QM DWH Test CB1-PB1	MACASHPBAAAQDIXXXEUR0A01	7,490.01	7,490.01	-7,490.01	-6,143.01	17:50:25	7,490.01	7,490.01
PBABAQDIXXX	CSLD BBK QM DWH Test CB1-PB2	MACASHPBABAQDIXXXEUR0A01	6,500.00	6,500.00	6,908,302.11	5,908,616.64	17:50:25	0.00	6,500.00
PBACAQDIXXX	CSLD BBK QM DWH Test CB1-PB3	MACASHPBACAQDIXXXEUR0A01	1,386.89	1,386.89	-1,011.89	-1,011.89	17:50:25	6,325.10	6,700.00
PBADAQDIXXX	CSLD BBK QM DWH Test CB1-PB4	MACASHPBADAQDIXXXEUR0A01	6,560.01	6,560.01	-6,175.03	-6,175.03	17:50:25	6,184.97	6,560.01
PBAFAQDIXXX	CSLD BBK QM DWH Test CB1-PB6	MACASHPBAFAQDIXXXEUR0A01	5,000.00	5,000.00	-3,724.54	-3,736.97	17:50:25	3,736.97	5,000.00
PBAGAQDIXXX	CSLD BBK QM DWH Test CB1-PB7	MACASHPBAGAQDIXXXEUR0A01	6,750.00	6,750.00	-6,310.00	-6,310.00	17:50:25	6,310.00	6,750.00

Figure 277 - IDC05 output (2) – For all parties

Output description

IDC05 – Report description – output screen – For a specific party BIC	
Field label	**Description**
Default MCA	Account number of the default MCA of the chosen party ISO-currency code.
Currency	Shows the ISO currency code.
Credit line amount / Account balance	
Date	One line per business date within the chosen date range, sorted by date
At SoD	Credit line amount at SoD and Account balance of the MCA at SoD
At EoD	Credit line amount at EoD and Account balance of the MCA at EoD
Peak IDC use	
Date	One line per business date within the chosen date range
Time	Time of the peak IDC use (HH:MM:SS); Marked with “—” in case the account balance remained positive throughout the day
Amount	IDC amount used at that time; Marked with “—” in case the account balance remained positive throughout the day
Credit line amount	Credit line amount at that time; Marked with “—” in case the account balance remained positive throughout the day
IDC05 – Report description – output – For all parties	
Field label	**Description**
Currency	Shows the ISO currency code.
Party BIC	BIC of the party for which the default MCA is regarded.

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Party name	Party short name according to party BIC
Default MCA number	Account number of the default MCA of the party
Credit line amount /Account balance	
At SoD	Credit line amount at SoD and Account balance of the MCA at SoD
At EoD	Credit line amount at EoD and Account balance of the MCA at EoD
Peak IDC use	
Time	Time of the peak IDC use (HH:MM:SS); Marked with "—" in case the account balance remained positive throughout the day.
Amount	IDC amount used at that time; Marked with "—" in case the account balance remained positive throughout the day.
Credit line amount	Credit line amount at that time; Marked with "—" in case the account balance remained positive throughout the day.

Table 67 - IDC05 - Output description

5.7.6 IDC06 – Credit line and IDC use at system level

Context of usage

This report provides system-wide aggregated information on the overall amount of credit line and IDC use for a given date (range). For both objects the weighted average for each business day within the given date range is reported.

CBs can retrieve aggregated information including credit line and IDC data from all system entities in a respective currency.

This report can be used by CB users only.

Report access

This report can be reached in the following way:

[Team Content] >> [Predefined Reports] >> [IDC – Intraday Credit Reports] >> [IDC06]

Screenshot – prompt

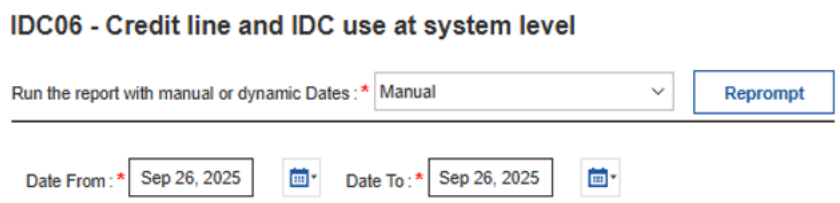

Figure 278 - IDC06 prompt – Manual {CR-173}

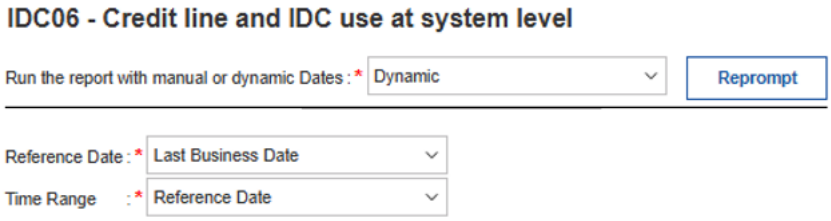

Figure 279 - IDC06 prompt – Dynamic {CR-173}

Prompt description

IDC06 – Report description – prompt screen – Manual {CR-173}	
Field label	**Description**
Run the report with manual or dynamic dates	You can select the date by clicking on the calendar. This field is mandatory. **{CR-173}**
Date From	You can select the date by clicking on the calendar. This field is mandatory.
Date To	You can select the end date of the period, for which the report should contain the data by clicking on the calendar. For valid report results, the current day cannot be selected. This field is mandatory

Table 68 - IDC06 - Prompt description manual {CR-173}

IDC06 – Report description –prompt screen - Dynamic	
Field label	**Description**
Run the report with manual or dynamic dates	You can select the date by clicking on the calendar. This field is mandatory. (SDD-CN 0139)
Reference Date	Indicates the end-point of the date range for which the dynamic report should contain data. Valid values: - Last Business Day - Prior Last Business Day The system will automatically calculate the end of the date range based upon the date at the time of execution.
Time Range	Indicates the start-point of the date range for which the dynamic report should contain data. The system will automatically calculate the start of the date range based upon the date at the time of execution. **{CR-173}**

Table 69 - IDC06 - Prompt description dynamic {CR-173}

Screenshot - output screen

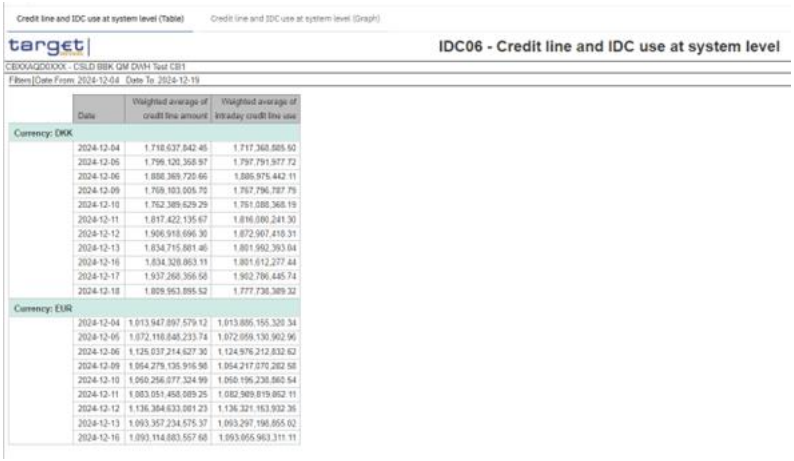

Figure 280 - IDC06 output (1) – Credit line and IDC use at system level (Table)

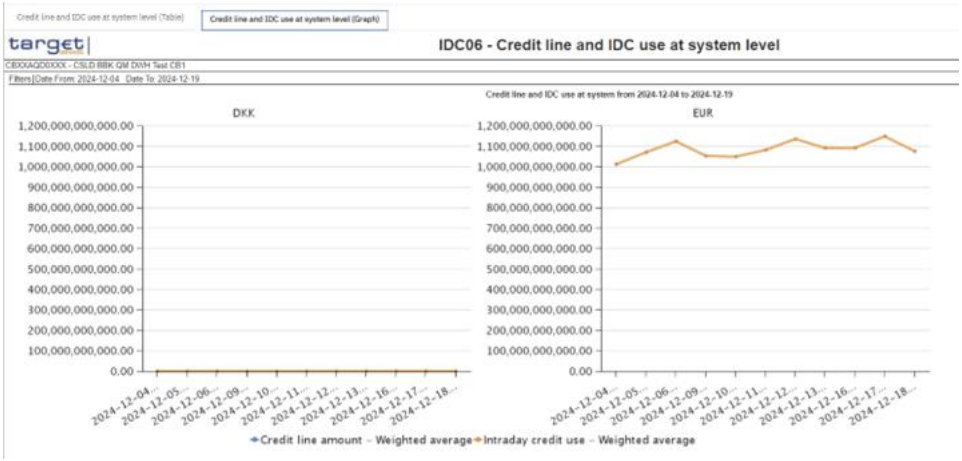

Figure 281 - IDC06 output (2) – Credit line and IDC use at system level (Graph)

Output description

IDC06 – Report description – output screen	
Field label	**Description**
Currency	ISO currency code
Date	Business day as chosen in prompt screen. One line per business day within the date range.
Weighted average of credit line amount	The weighted average of credit line amounts for all parties within the system entity at the business day.
Weighted average of intraday credit line use	The weighted average of the intraday credit line use for parties within the system entity at the business day.
Graph 1	Credit line and IDC use at system level Cartesian coordinate system, y-axis representing the amount (value), x-axis representing the date (each business day within the selected date range) Shows two lines in different colours representing the evolution of the values in the table on previous page per business day within the selected date range (between from and to date).

Table 70 - IDC06 - Output description

5.8 Invoice Data (INV)

5.8.1 INV01 – Reporting revenues

Context of usage

This report provides information on the volumes and values of fees/revenues for each month within a given quarter. Within the selected service, absolute volumes and values are reported for each service item. In addition, the fee category (e.g. “Account Management”) and the fee type (e.g. “Fixed Independent”) are provided for each service item. For each month the total amount of fees/revenues is reported.

CBs can retrieve aggregated information on the fees/revenues of parties belonging to their system entity.

This report can be used by CB users only.

Report access

This report can be reached in the following way:

[Team Content] >> [Predefined Reports] >> [INV – Invoice Data Reports] >> [INV01]

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Screenshot – prompt

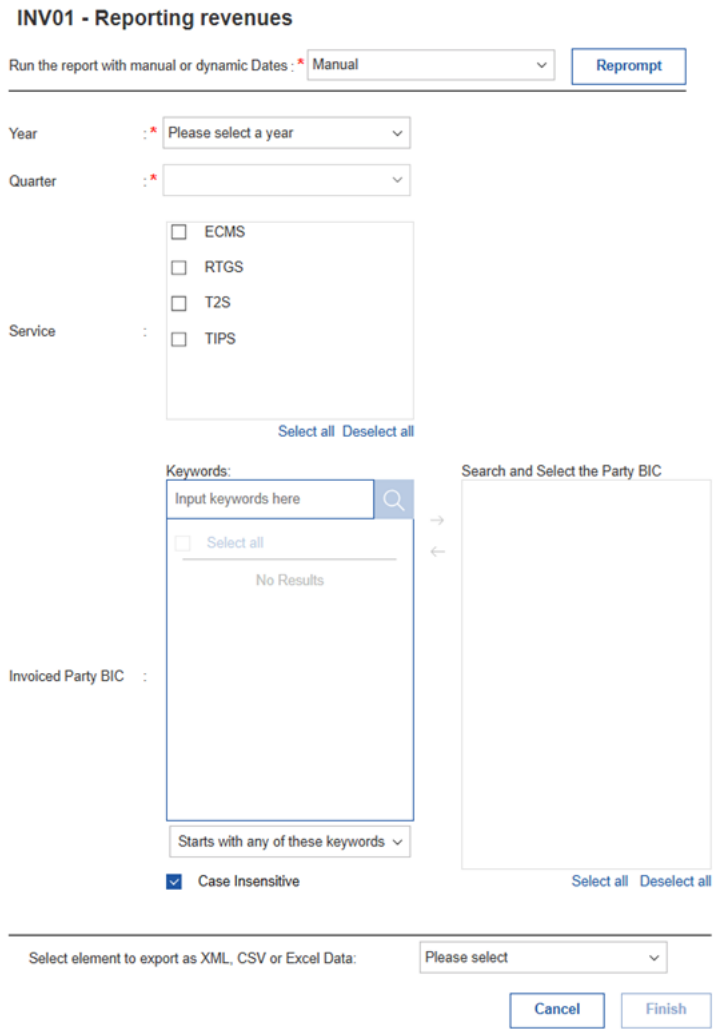

Figure 282 - INV01 prompt - Manual

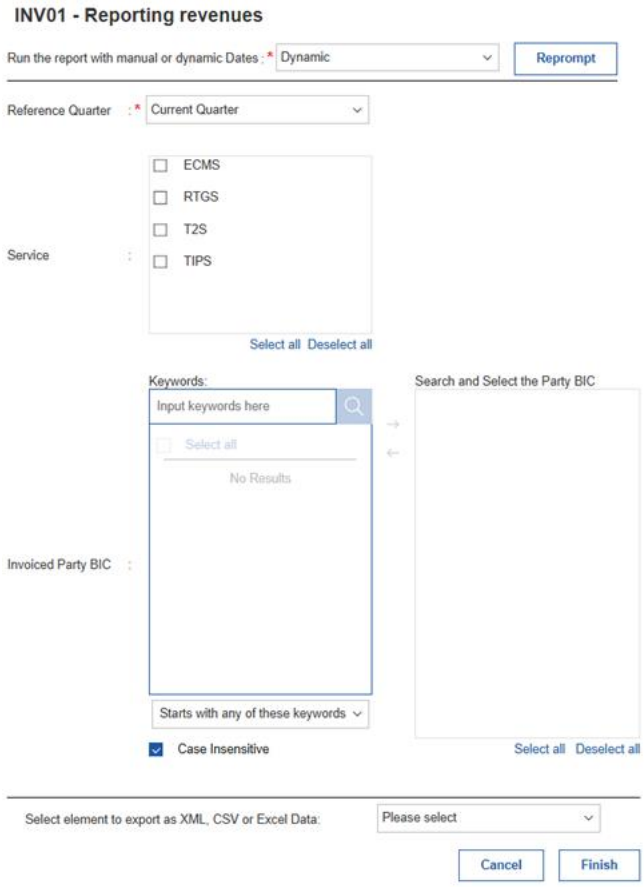

Figure 283 - INV01 prompt - Dynamic

Prompt description

INV01 – Report description – prompt screen - Manual	
Field label	**Description**
Year	You can use this drop-down field to select the year, from which the report should contain the data. This field is mandatory.
Quarter	You can use this drop-down field to select the quarter, for which the report should show the data. This field is mandatory

Service	Service for which the data shall be displayed. Possible values: - RTGS - TIPS - T2S - ECMS This field is optional
Invoiced party BIC	You can use this search and select prompt to be able to search for the party BIC or short name. One or several parties can be selected. In case the user leaves this field free, all party BICs belonging to the user's data scope are selected. This field is optional.
Select element to export as XML, CSV or Excel Data	- Per service - Overall total This field is optional.

Table 71 - INV01 - Prompt description - Manual

INV01 – Report description – prompt screen - Dynamic	
Field label	**Description**
Reference Quarter	Reference Quarter for which the data shall be displayed. Possible values: - Current Quarter - Previous Quarter This field is mandatory.

Service	Service for which the data shall be displayed. Possible values: - RTGS - TIPS - T2S - ECMS This field is optional.
Invoiced party BIC	You can use this search and select prompt to be able to search for the party BIC or short name. One or several parties can be selected. In case the user leaves this field free, all party BICs belonging to the user's data scope are selected. This field is optional.
Select element to export as XML, CSV or Excel Data	- Per service - Overall total This field is optional.

Table 72 - INV01 - Prompt description - Dynamic

Screenshot - output screen

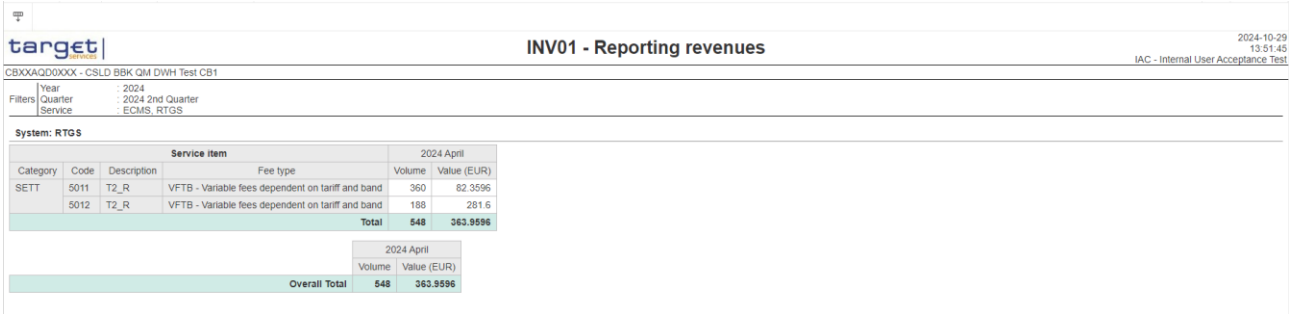

Figure 284 - INV01 Output

Output description

INV01 – Report description – output screen	
Field label	**Description**
Year, Quarter	Year and quarter as chosen in input screen
The following block is repeated for every service chosen in the prompt screen	
Service	The service, for which invoice data are displayed Possible values:

	- RTGS - TIPS - T2S - ECMS
Year/Month	Calendar month and year of the billing period, for which the invoice data are shown. All three months of the selected quarter are displayed. In case the billing period of one month is still running, no data will be shown for that month.
Service item category	Service item category
Service item code	Following service item codes are currently available: - See BILL UDFS Annex I
Service item description	Following service item descriptions are currently available: - See BILL UDFS Annex I
Fee type	Fee type
Volume	The quantity of the billable items for the service item having this fee type If there is no fee for this fee type, then 0 is displayed.
Value (EUR)	The sum of amounts of the billable items for the service item having this fee type (VAT not included) The invoices are always in EUR. If there is no fee for this fee type, then 0 is displayed.
Total (Volume/Value (EUR))	Sum of the volumes/values within the month over all fee types
Overall total (Volume/Value(EUR))	Overall sum of the volumes/values within the month over all fee types and services

Table 73 - INV01 - Output description

5.9 Minimum reserve reports (MIR)

5.9.1 MIR01 – Minimum reserve information

Context of usage

This report provides periodic information on the minimum reserve requirements, the fulfilment of the aforementioned and the associated (accrued/pro rata) interests. In addition to the party BIC/name, entities are reported with their respective MFI code. The report provides information on payment banks being subject to

minimum reserves on the level of the respective leading CLM Account Holder. The report is available for each reserve maintenance period.

CBs can retrieve minimum reserve information on those parties belonging to their system entity.

Note: As the report is required to display accrued interests (interests will be shown pro rata within an ongoing reserve maintenance period), the interest amounts shown are derived from calculations (and not from interest payments). The final (calculated) interest amounts are displayed as soon as all data for a respective reserve maintenance period is available in the DWH.

This report can be used by CB and PB users.

Report access

This report can be reached in the following way:

[Team Content] >> [Predefined Reports] >> [MIR – Minimum Reserve Reports] >> [MIR01]

Screenshot – prompt

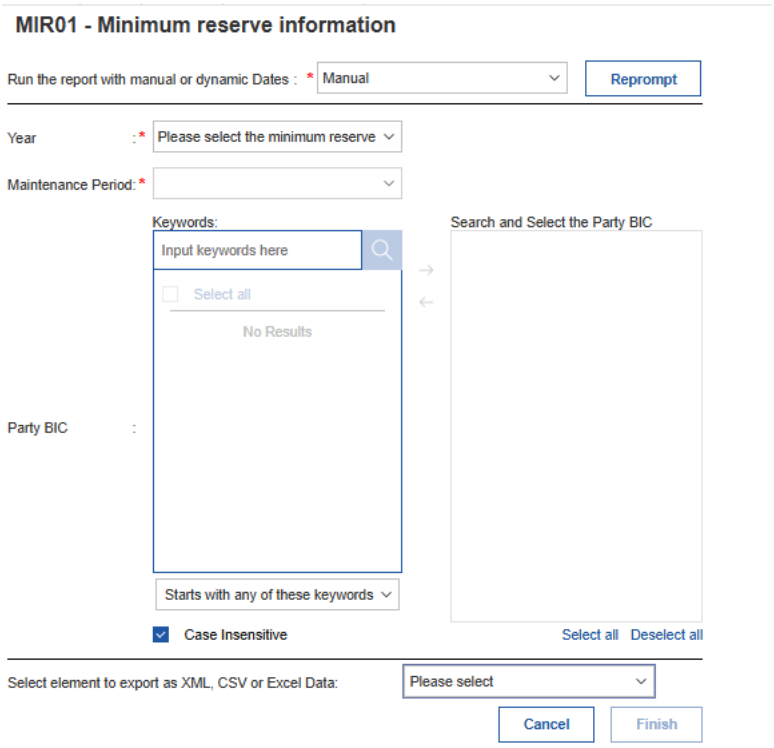

Figure 285 - MIR01 prompt - Manual

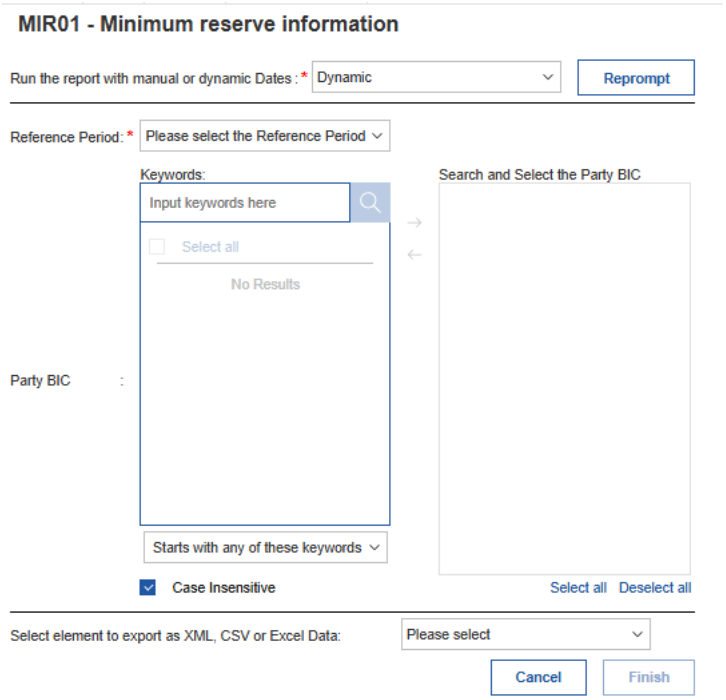

Figure 286 - MIR01 prompt - Dynamic

Prompt description

MIR01 – Report description – prompt screen - Manual	
Field label	**Description**
Year	You can use this drop-down field to select the year, from which the report should contain the data. This field is mandatory.

Maintenance period	You can select the required maintenance period in this drop-down field. This field contains “validity start date” to “validity end date” of maintenance periods and consists of all maintenance periods that start in the chosen year This field is mandatory.
Party BIC	You can use this drop-down field to select the party BIC. This field will show all related BICs, which belong to the party. This field is optional.
Select element to export as XML, CSV or Excel Data	- Minimum reserve information – Current maintenance period - Minimum reserve information – Past maintenance period - List of interest and penalty rates This field is optional.

Table 74 - MIR01 - Prompt description - Manual

MIR01 – Report description – prompt screen - Dynamic	
Field label	**Description**
Reference Period	Reference Period for which the data shall be displayed. Possible values: - Current Maintenance Period - Last Maintenance Period This field is mandatory.
Party BIC	You can use this drop-down field to select the party BIC. This field will show all related BICs, which belong to the party. This field is optional.
Select element to export as XML, CSV or Excel Data	- Minimum reserve information – Current maintenance period - Minimum reserve information – Past maintenance period - List of interest and penalty rates This field is optional.

Table 75 - MIR01 - Prompt description - Dynamic

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Screenshot - output screen

Figure 287 - MIR01 – output ~~(1)~~ - Minimum reserve information – Past maintenance periods {CR-173}

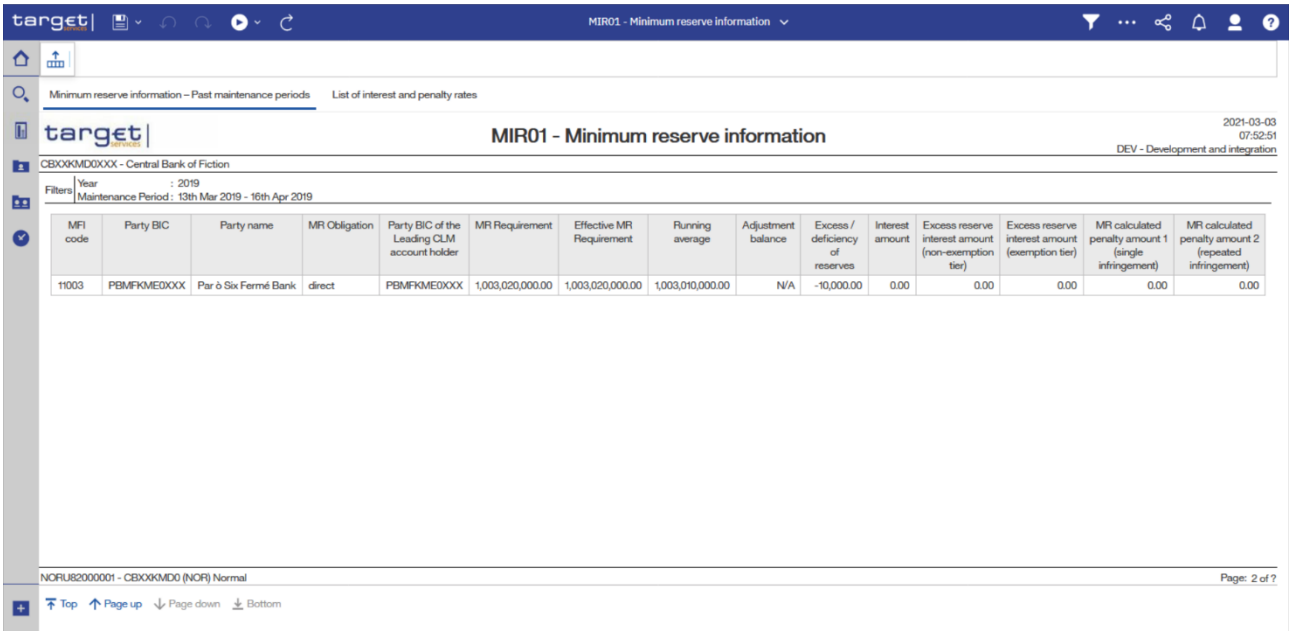

Figure 288 - ~~MIR01 output (2)~~ {CR-173}

Figure 289 - MIR01 – Output - ~~(~~List of interest and penalty rates~~)~~ {CR-173}

Output description

MIR01 – Report description – output screen – table minimum reserve information	
Field label	**Description**
~~Sorted by party BIC:~~ **{CR-173}**	
MFI code	MFI code of the party
Party BIC	BIC of the party
Party name	Name of the party
MR ~~O~~obligation	Minimum reserve obligation. Possible Values: - Direct - Indirect - Pool
Party BIC of the ~~L~~leading CLM ~~A~~account ~~H~~holder	BIC of the party that holds the leading CLM account
MR ~~R~~requirement	Amount of minimum reserve to be held at the end of each day of the maintenance period.
~~Effective~~ Accumulated MR requirement **{CR-173}**	Amount of minimum reserve to be held effectively at the end of each day of the maintenance period. For Leading CLM Account Holders offering to maintain the MR requirements for other parties (i.e. for those with MR obligation = “Indirect”) this is the sum of the requirement for the Leading CLM Account Holder itself as well as of the MR requirements from the other parties. For parties with MR obligation “Indirect”, the value is always 0 (zero) For all other parties the value is identical to the MR requirement.
Running average	This is the arithmetic mean of the accumulated balances from the first calendar day of the current maintenance period until the last day of the maintenance period, i.e sum of daily balances from beginning of the maintenance period till the end of the maintenance period / total number of days in the maintenance period (for ongoing maintenance periods: sum of daily balances from beginning of the maintenance period till the day for which MR data is available in the DWH / total number of days in the maintenance period that have already been passed).

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	As soon as a Maintenance Period is over, this amount corresponds to the Minimum Reserve fulfilment.
Adjustment balance	The adjustment balance is the amount that would be needed at the end of each business day from the current day until the end of the maintenance period, in order to precisely fulfil the minimum reserve requirement. It corresponds to the daily average that the party would have to hold on its cash accounts for the remaining business days in the maintenance period to fulfil its minimum reserve requirement. In case that the minimum reserve requirement for an ongoing maintenance period is already fulfilled the adjustment balance is 0 (zero). This field is only filled in case the chosen maintenance period is the currently running. For past maintenance periods, this field is empty.
Excess / deficiency of reserve	This is the difference between the running average and the minimum reserve requirements.
MR Interest amount **{CR-173}**	The amount of MR interest for the displayed maintenance period. In case the chosen maintenance period is the currently running, the accrued interest is displayed, calculated from the start of the MP until the end of the day preceding the day of report generation. Please note, that accrued MR interest calculations are based on MR fulfilment data delivered by CLM.
Excess reserve interest amount (non-exemption tier)	Amount of interest to be paid for excess reserves within the non-exemption tier. In case the chosen maintenance period is the currently running, the accrued interest is calculated from the start of the MP until the end of the day preceding the day of report generation. Please note, that accrued excess reserve interest calculations are based on MR fulfilment data delivered by CLM.

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Excess reserve interest amount (exemption tier)	Amount of interest to be paid for excess reserves within the exemption tier. In case the chosen maintenance period is the currently running, the accrued interest is calculated from the start of the MP until the end of the day preceding the day of report generation. Please note, that accrued excess reserve interest calculations are based on MR fulfilment data delivered by CLM.
MR calculated penalty amount 1 (single infringement)	Penalty to be debited for balances not meeting the MR requirements. The value is calculated by CLM at the end of the MP. It is up to the responsible CB to decide, whether penalties are debited and which of the two. This field is only filled for a past maintenance period. For the current maintenance period, this field is empty.
MR calculated penalty amount 2 (repeated infringement)	Penalty to be debited for balances not meeting the MR requirements. The value is calculated by CLM at the end of the MP. It is up to the responsible CB to decide, whether penalties are debited and which of the two. This field is only filled for a past maintenance. For the current maintenance period, this field is empty.

Table 76 - MIR01 - Output description - table minimum reserve information

MIR01 – Report description – output screen – table list of interest and penalty rates	
Field label	~~Field label~~ **Description**
Currency	Shows the ISO currency code.
Country code	Displays the country code of the BIC which the data is shown for. **{CR-173}**
Calculation includes data until <Date>	The calculation includes data until the given date. For past maintenance periods it is always the last day of the MP, for running MP it is the date of the last data load in the DWH.
Number of calendar days in the MP	Number of days within the maintenance period; For current MP, the days are counted from the start of the MP until the date in the previous line.
Minimum reserve interest rate	Rate (in %) which is used to calculate the interest amount on MR
Excess reserve interest rate 1 (exempt tier)	Rate (in %) which is used to calculate the interest amount for excess reserves (exempt tier).
Excess reserve interest rate 2 (non-exempt tier) **{CR-173}**	Rate (in %) which is used to calculate the interest amount for excess reserves (non-exempt tier).

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Excess reserve exemption factor	Factor for the calculation of the excess reserve exemption amount
Penalty rate 1 (single infringement)	Rate (in %) which is used to calculate the interest amount on MR balances which did not meet the MR requirement (for a single infringement).
Penalty rate 2 (repeated infringement)	Rate (in %) which is used to calculate the interest amount on MR balances which did not meet the MR requirement (for a repeated infringement)

Table 77 - MIR01 - Output description - table list of interest and penalty rates

5.9.2 MIR02 – Minimum reserve requirements per country

Context of usage

This report provides information on the aggregated amount of minimum reserve requirements for a given reserve maintenance period and the five preceding reserve maintenance periods. For each reserve maintenance period the aggregated amount of minimum reserve requirements at country level is reported.

CBs can retrieve aggregated minimum reserve information of parties belonging to their system entity.

This report can be used by CB users only.

Report access

This report can be reached in the following way:

[Team Content] >> [Predefined Reports] >> [MIR – Minimum Reserve Reports] >> [MIR02]

Screenshot – prompt

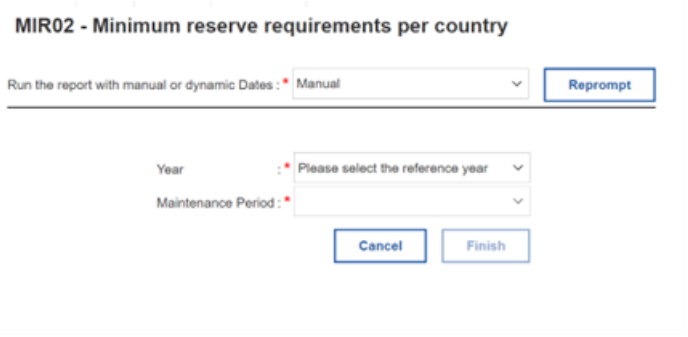


Figure 290 - MIR02 prompt - Manual

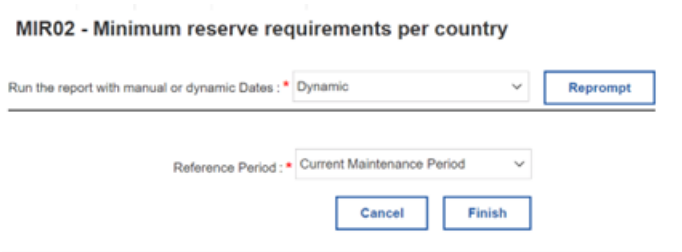


Figure 291 - MIR02 prompt - Dynamic

Prompt description

MIR02 – Report description – prompt screen - Manual	
Field label	**Description**
Year	You can use this drop-down field to select the year, from which the report should contain the data. This field is mandatory.
Maintenance period	You can select the required maintenance period in this drop-down field. This field contains “validity start date” to “validity end date” of maintenance periods and consists of all maintenance periods that start in the chosen year This field is mandatory.

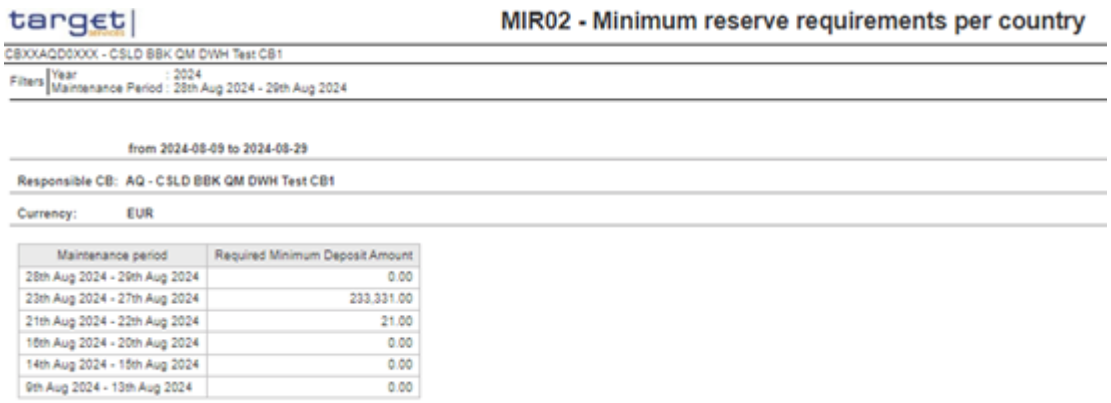
Table 78 - MIR02 - Prompt description - Manual

MIR02 – Report description – prompt screen - Dynamic	
Field label	**Description**
Reference Period	Reference Period for which the data shall be displayed. Possible values: - Current Maintenance Period - Last Maintenance Period This field is mandatory.

Table 79 - MIR02 - Prompt description - Dynamic

All rights reserved.

Screenshot - output screen



target services

MIR02 - Minimum reserve requirements per country

CBXXAQD0XXX - CSLD BBK QM DWH Test CB1

Filters | Year : 2024
Maintenance Period : 28th Aug 2024 - 29th Aug 2024

from 2024-08-09 to 2024-08-29

Responsible CB: AQ - CSLD BBK QM DWH Test CB1

Currency: EUR

Maintenance period	Required Minimum Deposit Amount
28th Aug 2024 - 29th Aug 2024	0.00
23th Aug 2024 - 27th Aug 2024	233,331.00
21th Aug 2024 - 22th Aug 2024	21.00
16th Aug 2024 - 20th Aug 2024	0.00
14th Aug 2024 - 15th Aug 2024	0.00
9th Aug 2024 - 13th Aug 2024	0.00

Figure 292 - MIR02 output

Output description

MIR02 – Report description – output screen	
Field label	**Description**
From / To	Displays the first day of the first maintenance period to the last day of the last maintenance period.
Responsible CB	Shows the responsible party BIC for the maintenance period.
Currency	Shows the currency in which the minimum reserve requirements are kept.
For the chosen maintenance period and the five preceding periods:	
Maintenance period	Shows the validity start date until validity end date of the maintenance period
Required minimum deposit amount	Aggregated amount of the minimum reserve requirements during the respective period at the country level: Within the data scope of the CB the minimum reserve requirements of all parties subject to minimum reserve requirements (minimum reserve obligation = direct, indirect or pool) for the respective maintenance period are summed up.

Table 80 - MIR02 - Output description

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5.10 TARGET Multilateral Balances (MLB)

5.10.1 MLB01 – TARGET Multilateral Balances

Context of usage

The MLB01 report allows all Central Banks having a CB ECB Account to have access to daily EoD balances of all CB ECB Accounts in the data warehouse.

This report is set up with search prompts for date range and the possibility of dynamic date scheduling.

When running the report the system will check whether the CB (identified by the user running the report) is owning a CB ECB Account. If not, the report will be empty otherwise a result will be shown.

For every CB owning a CB ECB Account in T2 the report result contains:

- Party BIC of the CB owning the CB ECB Account
- Business Day (one line for every business day within the selected date range)
- EoD Balances of all CB ECB Accounts of this business day

This report will only be available for CB users.

Report access

This report can be reached in the following way:

[Team Content] >> [Predefined Reports] >> [MLB –Target Multilateral Balances] >> [MLB01] Screenshot – prompt

Screenshot-prompt

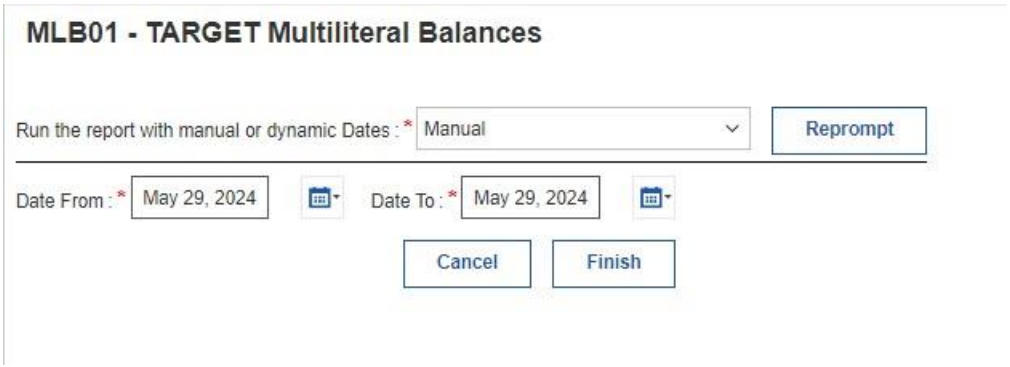

Figure 293 - Prompt – manual

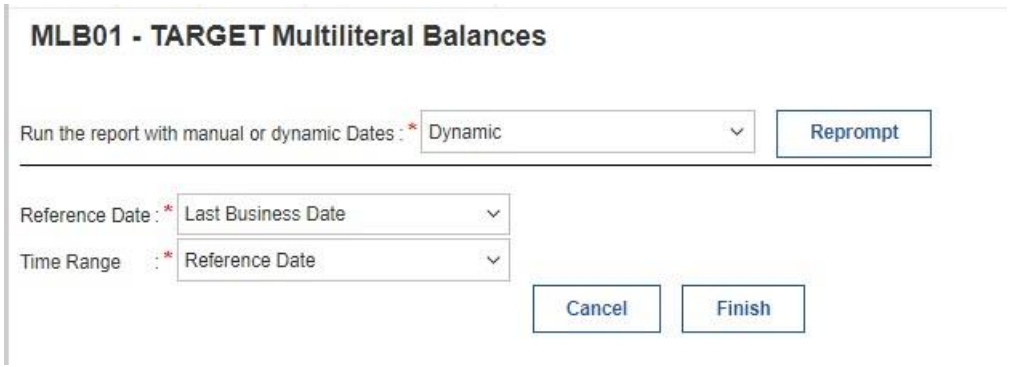

Figure 294 - Prompt – dynamic

Prompt description - manuel

MLB01 – Report description – prompt screen - manual	
Field label	**Description**
Date from	You can use this field to select the Date from which the report should contain the data. This field is mandatory.
Date to	You can select the end date of the period, for which the report should contain the data. This field is mandatory.

Table 81 - MLB01 - Prompt description - manual

Prompt description - dynamic

MLB01 – Report description – prompt screen - dynamic	
Field label	**Description**
Reference date	Indicates the end-point of the date range for which the dynamic report should contain data. This field is mandatory.
Time range	Indicates the start-point of the date range for which the dynamic report should contain data. The system will automatically calculate the start of the date range based upon the date at the time of execution. This field is mandatory

Table 82 - MLB01 - Prompt description - dynamic

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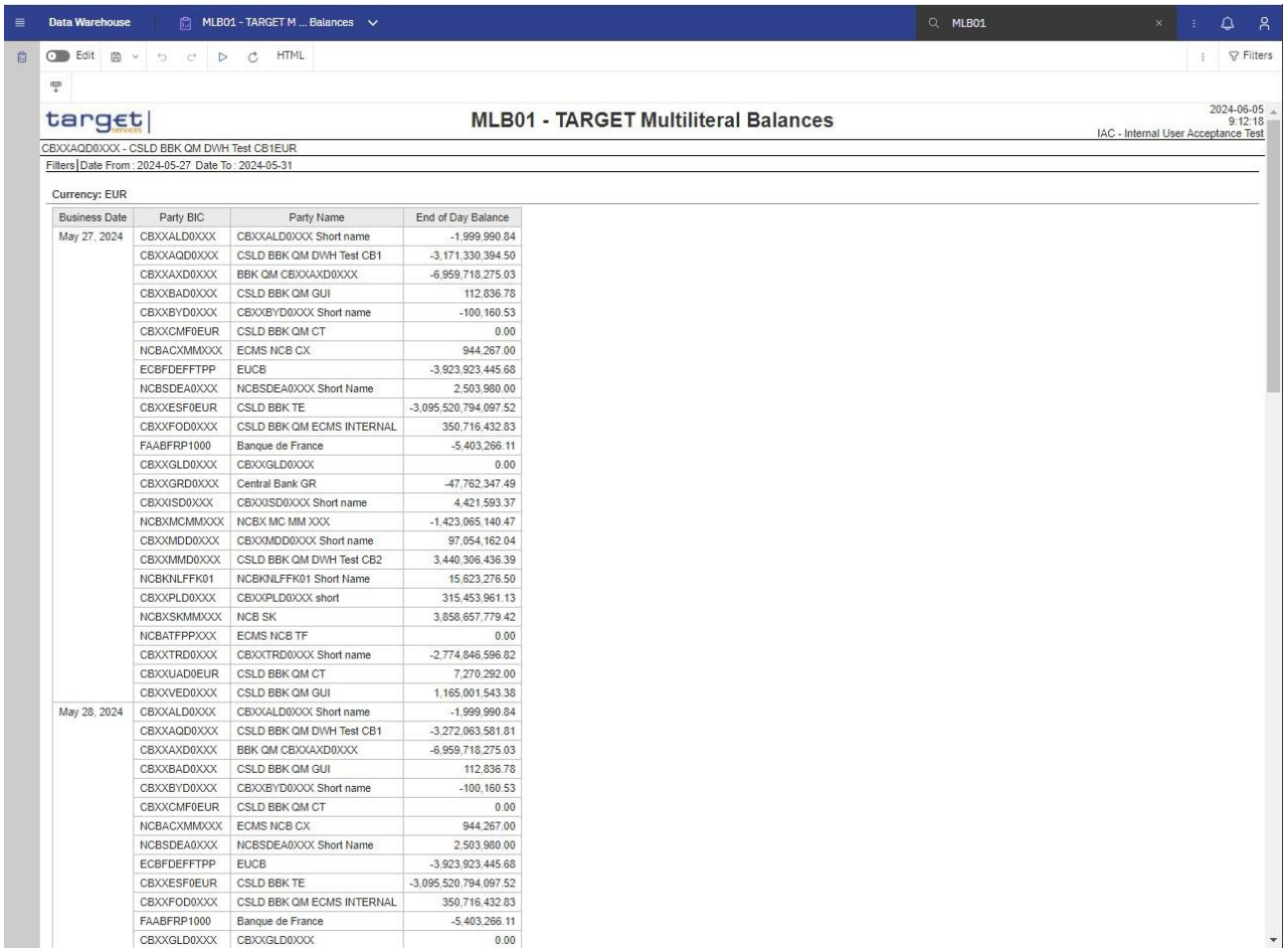
Screenshot – output



Business Date	Party BIC	Party Name	End of Day Balance
May 27, 2024	CBXXALD0XXX	CBXXALD0XXX Short name	-1,999,990.84
	CBXXAQD0XXX	CSLD BBK QM DWH Test CB1	-3,171,330,394.50
	CBXXAXD0XXX	BBK QM CBXXAXD0XXX	-6,959,718,275.03
	CBXXBAD0XXX	CSLD BBK QM GUI	112,836.78
	CBXXBYD0XXX	CBXXBYD0XXX Short name	-100,160.53
	CBXXCMF0EUR	CSLD BBK QM CT	0.00
	NCBACXMMXXX	ECMS NCB CX	944,267.00
	ECBFDEFFTPP	EUCB	-3,923,923,445.68
	NCBSDEA0XXX	NCBSDEA0XXX Short Name	2,503,980.00
	CBXXESF0EUR	CSLD BBK TE	-3,095,520,794,097.52
	CBXXFOD0XXX	CSLD BBK QM ECMS INTERNAL	350,716,432.83
	FAABFRP1000	Banque de France	-5,403,266.11
	CBXXGLD0XXX	CBXXGLD0XXX	0.00
	CBXXGRD0XXX	Central Bank GR	-47,762,347.49
	CBXXISD0XXX	CBXXISD0XXX Short name	4,421,593.37
	NCBXMCMMXXX	NCBX MC MM XXX	-1,423,065,140.47
	CBXXMDD0XXX	CBXXMDD0XXX Short name	97,054,162.04
	CBXXMMD0XXX	CSLD BBK QM DWH Test CB2	3,440,306,436.39
	NCBKNLFFK01	NCBKNLFFK01 Short Name	15,623,276.50
	CBXXPLD0XXX	CBXXPLD0XXX short	315,453,961.13
	NCBXSKMMXXX	NCB SK	3,858,657,779.42
	NCBATFPPXXX	ECMS NCB TF	0.00
	CBXXTRD0XXX	CBXXTRD0XXX Short name	-2,774,846,596.82
	CBXXUAD0EUR	CSLD BBK QM CT	7,270,292.00
	CBXXVED0XXX	CSLD BBK QM GUI	1,165,001,543.38
May 28, 2024	CBXXALD0XXX	CBXXALD0XXX Short name	-1,999,990.84
	CBXXAQD0XXX	CSLD BBK QM DWH Test CB1	-3,272,063,581.81
	CBXXAXD0XXX	BBK QM CBXXAXD0XXX	-6,959,718,275.03
	CBXXBAD0XXX	CSLD BBK QM GUI	112,836.78
	CBXXBYD0XXX	CBXXBYD0XXX Short name	-100,160.53
	CBXXCMF0EUR	CSLD BBK QM CT	0.00
	NCBACXMMXXX	ECMS NCB CX	944,267.00
	NCBSDEA0XXX	NCBSDEA0XXX Short Name	2,503,980.00
	ECBFDEFFTPP	EUCB	-3,923,923,445.68
	CBXXESF0EUR	CSLD BBK TE	-3,095,520,794,097.52
	CBXXFOD0XXX	CSLD BBK QM ECMS INTERNAL	350,716,432.83
	FAABFRP1000	Banque de France	-5,403,266.11
	CBXXGLD0XXX	CBXXGLD0XXX	0.00

Figure 295 - MLB01 –OUTPUT

Output description

MLB01 – Report description – output screen	
Field label	**Description**
Business day	One line per business day and CB Party BIC
Party BIC	Party BIC of the CB owning the CB ECB Account – sorted by 5th and 6th character of the BIC
Party name	Name of the party owning the CB ECB account
EoD balance	EoD balance of the CB ECB Account

Table 83 - MLB01 - Output description

All rights reserved.

5.11 Participation reports (PAR)

5.11.1 PAR01 – Critical participants

Context of usage

This report aims to identify critical participants in RTGS. For the chosen quarter, the report provides information on the daily average volume and value of payments and AS transfers on RTGS dedicated cash accounts (DCAs). Payments and AS transfers are counted once on the debit side of each RTGS DCA and reported by account number, party BIC and party name. Volumes and values for payments and AS transfers are reported as aggregated daily averages for the chosen quarter. By standard, the report result is sorted decreasing by the aggregated daily average value of payments and AS transfers.

In a second report table the report provides the daily average volume and value of payments and AS transfers on all RTGS DCAs within the given quarter. In addition, the value corresponding to one percent of the reported value is displayed.

CBs can retrieve information for those parties belonging to their system entity.

This report can be used by CB users only.

Report access

This report can be reached in the following way:

[Team Content] >> [Predefined Reports] >> [PAR – Participation Reports] >> [PAR01]

Screenshot – prompt

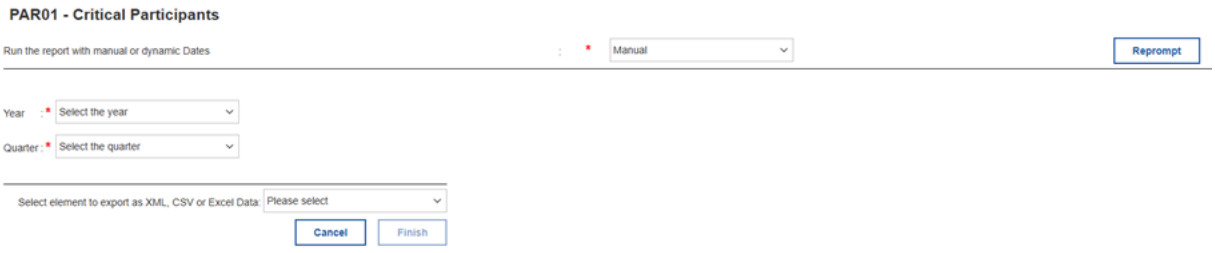


Figure 296 - PAR01 prompt - Manual

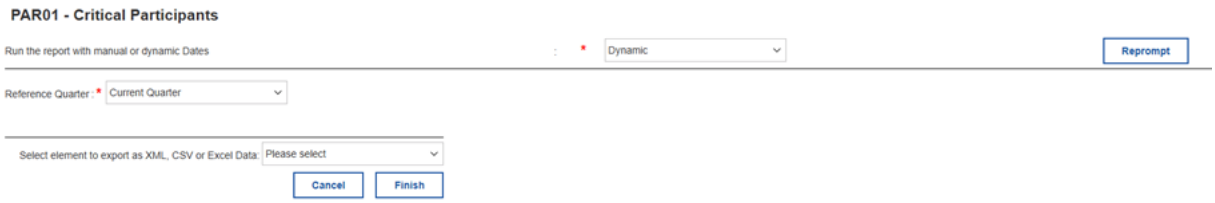


Figure 297 - PAR01 prompt - Dynamic

Prompt description

PAR01 – Report description – prompt screen - Manual	
Field label	**Description**
Year	You can use this drop-down field to select the year, from which the report should contain the data. This field is mandatory
Quarter	You can use this drop-down field to select the quarter, from which the report should contain the data. This field is mandatory
Select element to export as XML, CSV or Excel Data	- Critical participants - Critical participants summary This field is optional.

Table 84 - PAR01 - Prompt description - Manual

PAR01 – Report description – prompt screen - Dynamic	
Field label	**Description**
Reference Quarter	Reference Quarter for which the data shall be displayed. Possible values: - Current Quarter - Previous Quarter This field is mandatory.
Select element to export as XML, CSV or Excel Data	- Critical participants - Critical participants summary This field is optional.

Table 85 - PAR01 - Prompt description - Dynamic

All rights reserved.

Screenshot - output screen

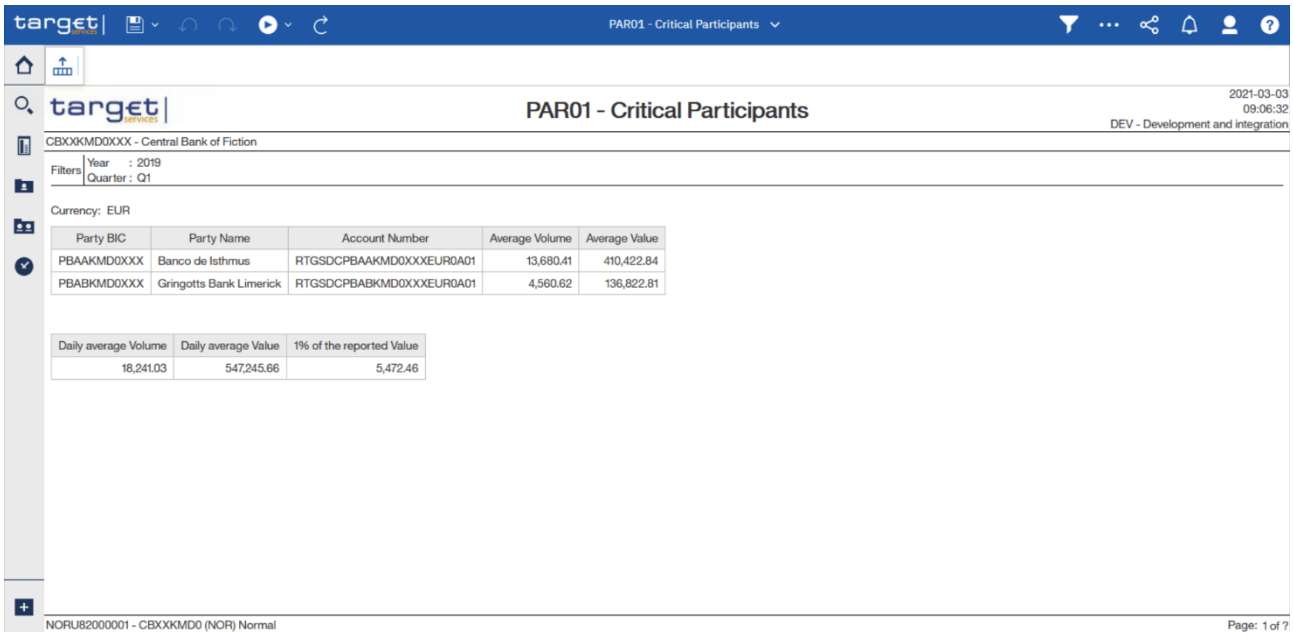


Figure 298 - PAR01 output (1)

Output description

PAR01 – Report description – output screen	
Field label	**Description**
List by RTGS DCA and party. It is sorted by average value decreasing, then average volume decreasing, then party BIC decreasing	
Party	BIC and short name of the party
Cash Account Number	RTGS dedicated cash account number
Daily Average Volume	Average volume of the debit side of payments and AS transfers on the specified RTGS DCA.
Daily Average Value	Average value of the debit side of payments and AS transfers on the specified RTGS DCA.
Overall	
Daily average Volume	Daily average volume for all RTGS DCAs in the first list.
Daily average Value	Daily average value for all RTGS DCAs in the first list.
1 % of the reported Value	1 % of the daily average value for all RTGS DCAs in the first list.

Table 86 - PAR01 - Output description

All rights reserved.

5.11.2 PAR02 – List of active Direct and Indirect Participants according to RTGS Directory

Context of usage

This report provides information on those entities being a Direct or an Indirect Participant (Participation Type = 01 – Direct or 02 – Indirect) according to the RTGS Directory on a given date.

For each Direct and Indirect Participant the following information from the RTGS Directory are provided: BIC, Institution Name, Valid from, National Sorting Code, Participation Type. In addition, the overall number of Direct and Indirect Participants is reported.

In case of Indirect Participation, the report provides the country code (ISO 3166 Alpha-2) from the BIC of the corresponding Direct Participant.

The report is provided in several sorting options, including an option where the Indirect Participants are reported under their corresponding Direct Participant/addressee.

Note: Independent from the participation type, unpublished BICs and entries with a "Valid from" in the future are not considered for the purpose of this report:

This report can be used by CB, PB and AS users.

Report access

This report can be reached in the following way:

[Team Content] >> [Predefined Reports] >> [PAR – Participation Reports] >> [PAR02]

Screenshot – prompt

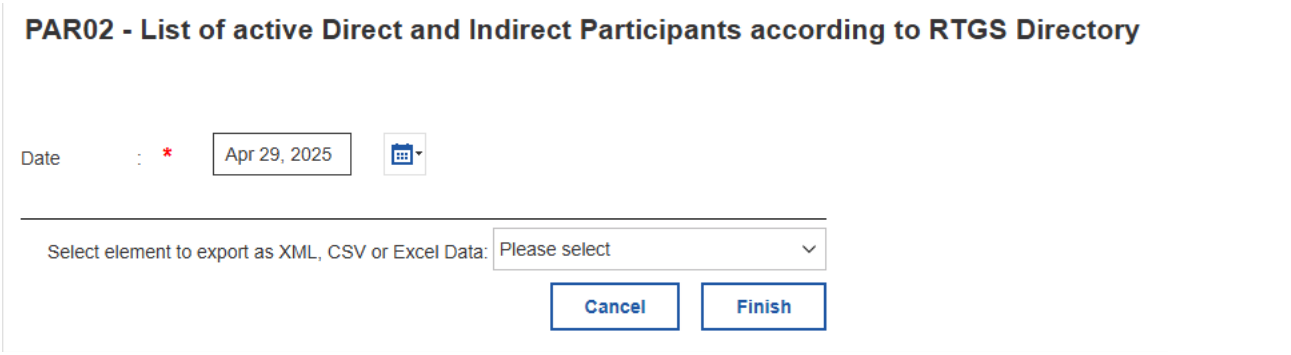


Figure 299 - PAR02 prompt

Prompt description

PAR02 – Report description – prompt screen	
Field label	**Description**
Date	You can select the date by clicking on the calendar. For valid report results, the current day cannot be selected. This field is mandatory.
Select element to export as XML, CSV or Excel Data	- Direct participant view - Indirect participant view - Total number of participants This field is optional.

Table 87 - PAR02 - Prompt description

Screenshot - output screen

Output description

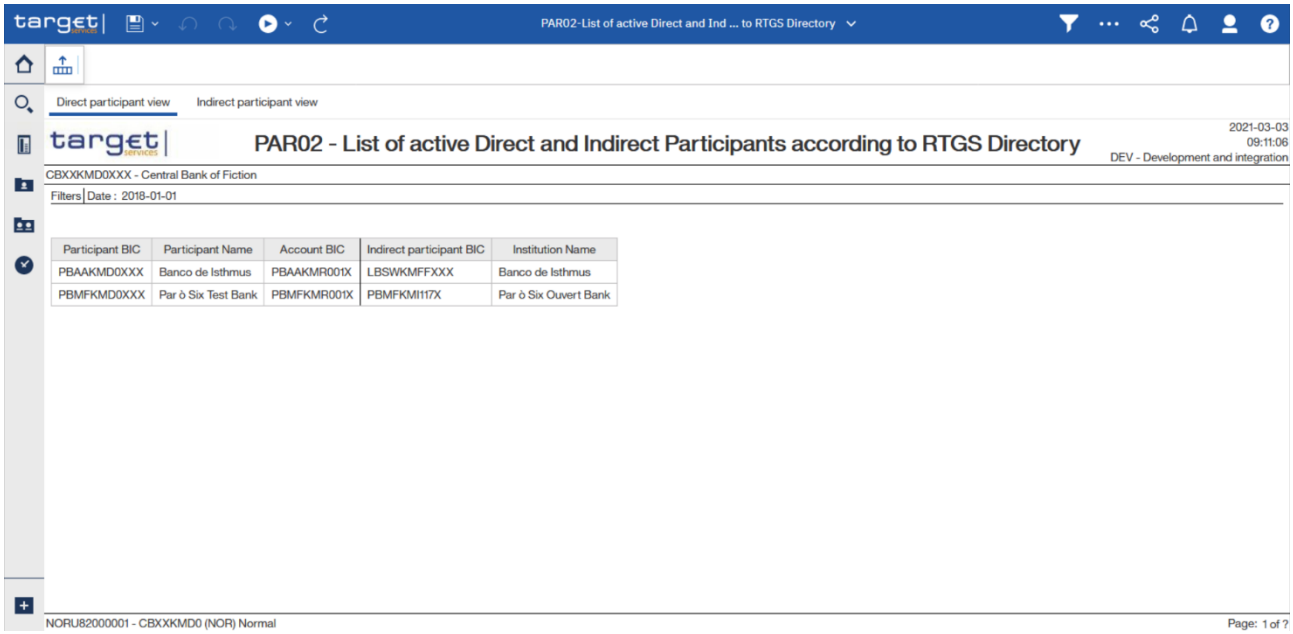


Figure 300 - PAR02 output (1)

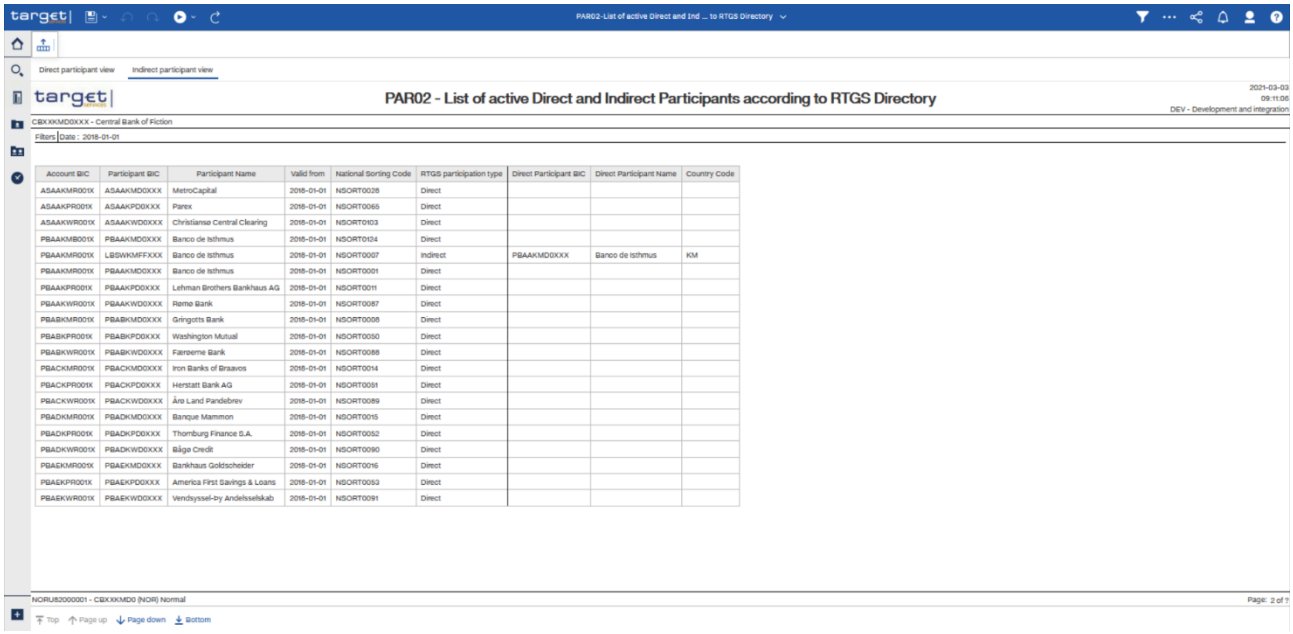


Figure 301 - PAR02 output (2)

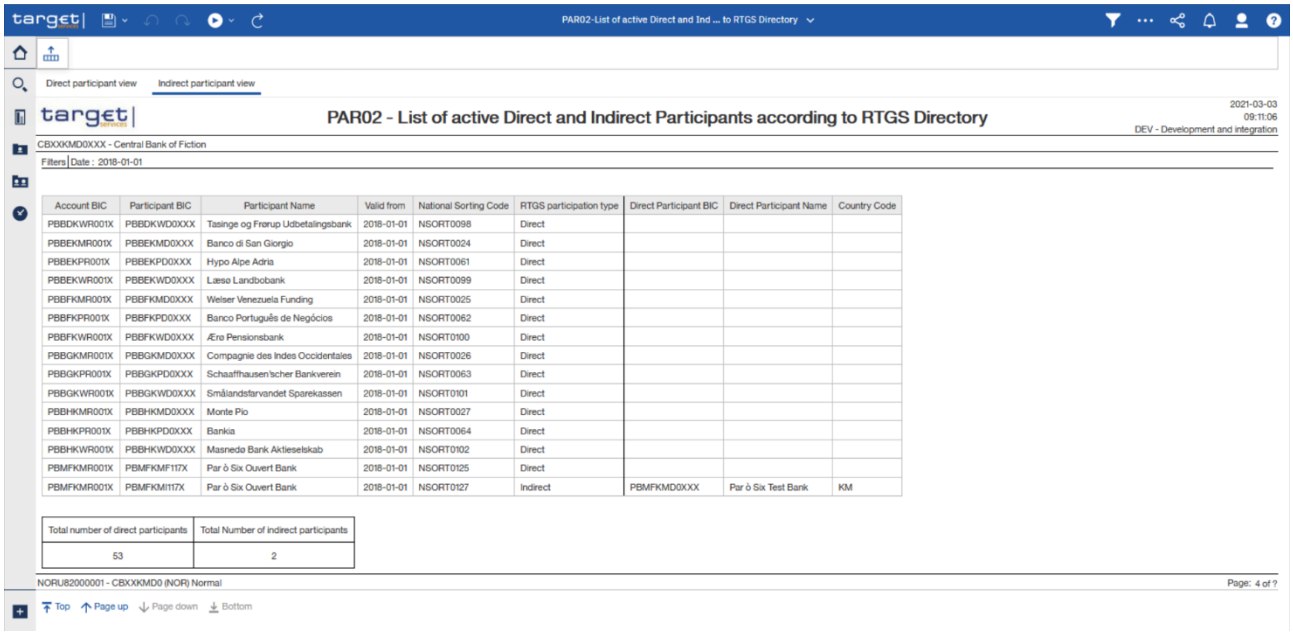


Figure 302 - PAR02 output (3)

PAR02 – Report description – output screen – table Direct Participant view	
Field label	**Description**
Per active party in RTGS, sorted by participant BIC, then by account BIC.	
Participant BIC	The participant BIC

Participant name	Short name of the participant
Account BIC	RTGS DCA account BIC of the Direct Participant, where at least one Indirect Participant is linked to.
Indirect Participant BIC	BIC of the Indirect Participant linked to the account BIC
Institution name	Institution name of the Indirect Participant

PAR02 – Report description – output screen – table Indirect Participant view

Field label	**Description**
Per active party in RTGS, sorted by account BIC.	
Account BIC	RTGS DCA Account BIC of the Direct Participant.
Participant BIC	BIC of the Direct or Indirect Participant.
Participant Name	Short name of the Direct or Indirect Participant.
Valid from	Date, from which the Direct or Indirect Participant became valid.
National Sorting Code	National sorting code of the Direct or Indirect Participant
RTGS participation type	RTGS participation type. Possible values: - Direct - Indirect
Direct Participant BIC	The Participant BIC of the related participant.
Direct Participant Name	The Direct Participant Name of the related participant.
Country code	The Country code of the related participant.
Total number of Direct Participants	Only displayed for participation type = direct
Total number of Indirect Participant	Only displayed for participation type = indirect

Table 88 - PAR02 - Output description

5.11.3 PAR03 – Parties subject and not subject to minimum reserve

Context of usage

This report provides information on whether or not parties are subject to minimum reserves according to the CLM configuration reference data attribute Minimum Reserve Obligation on a given date.

Separate lists are provided for parties holding their minimum reserves direct, indirect, in a pool of accounts (pool) and those not being subject to minimum reserves.

Each party is reported with its respective MFI code in addition to its party BIC and name.

For parties holding their minimum reserves indirect, BIC and name of the party maintaining reserves for this party are reported.

CBs can retrieve data of those parties belonging to their system entity.

This report can be used by CB users.

Report access

This report can be reached in the following way:

[Team Content] >> [Predefined Reports] >> [PAR – Participation Reports] >> [PAR03]

Screenshot – prompt

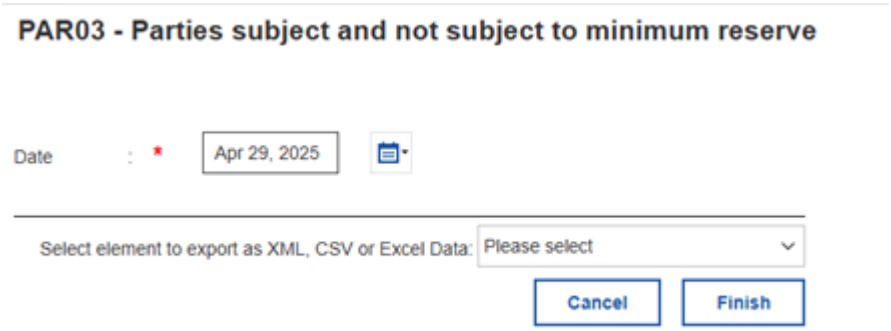


Figure 303 - PAR03 prompt

Prompt description

PAR03 – Report description – prompt screen	
Field label	**Description**
Date	You can select the date by clicking on the calendar. This field is mandatory.
Select element to export as XML, CSV or Excel Data	- Parties subject to minimum reserve - Parties not subject to minimum reserve This field is optional.

Table 89 - PAR03 - Prompt description

All rights reserved.

Screenshot - output screen

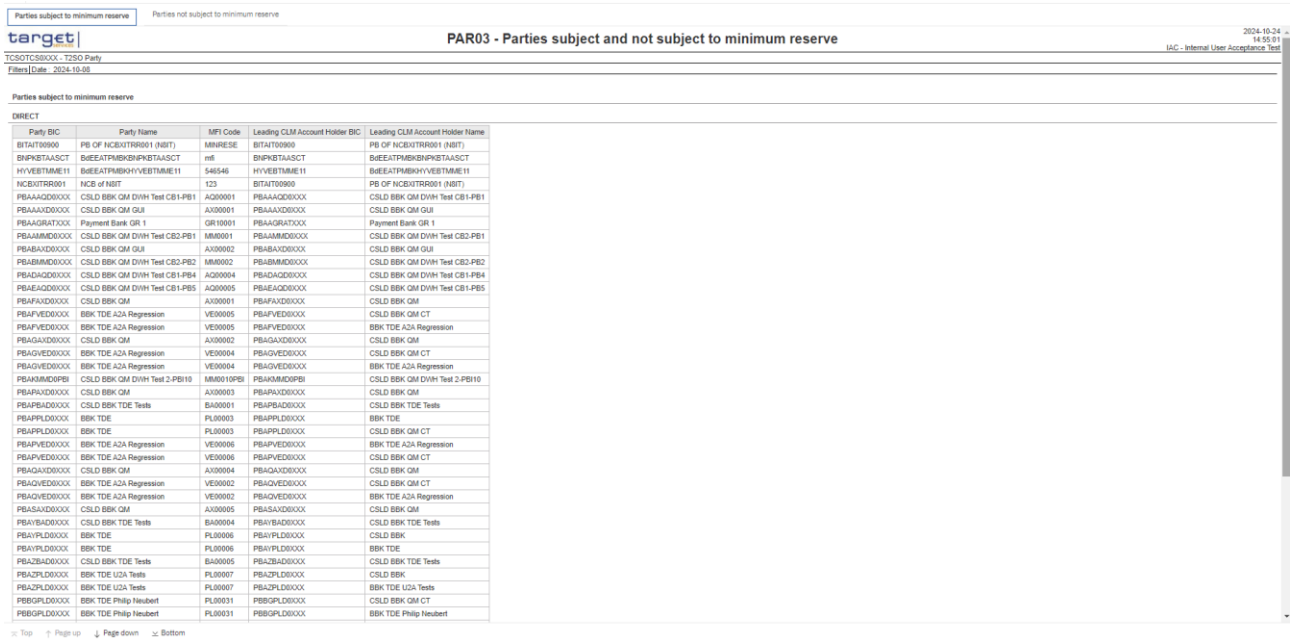


Figure 304 - PAR03 output (1)

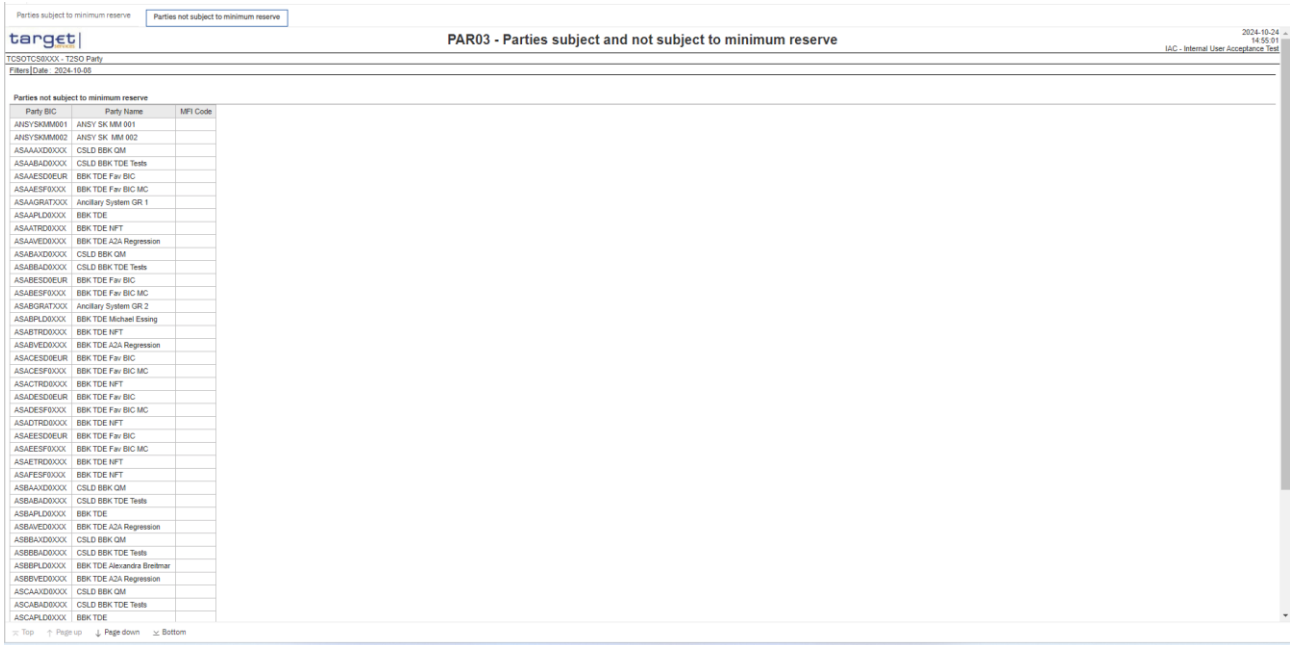


Figure 305 - PAR03 output (2)

Output description

PAR03 – Report description – output screen – table parties subject to minimum reserve	
Field label	**Description**
Direct – List is sorted by party BIC	
Party BIC	Party BIC
Party Name	Party short name
MFI Code	MFI code of the party
Leading CLM Account Holder BIC	BIC of the Leading CLM Account Holder
Leading CLM Account Holder Name	Short name of the Leading CLM Account Holder
Indirect – List sorted by party BIC	
Party BIC	Party BIC
Party Name	Party short name
MFI Code	MFI code of the party
Leading CLM Account Holder BIC	BIC of the Leading CLM Account Holder
Leading CLM Account Holder Name	Short name of the Leading CLM Account Holder
Pool	
Party BIC	Party BIC
Party Name	Party short name
MFI Code	MFI code of the party
Leading CLM Account Holder BIC	BIC of the Leading CLM Account Holder
Leading CLM Account Holder Name	Short name of the Leading CLM Account Holder

Table 90 - PAR03 - Output description - table parties subject to minimum reserve

PAR03 – Report description – output screen - table parties not subject to minimum reserve	
Field label	**Description**
Party BIC	Party BIC
Party Name	Party short name
MFI Code	MFI-Code of the party (can be empty)

Table 91 - PAR03 - Output description - table parties not subject to minimum reserve

All rights reserved.

5.11.4 PAR04 – List of ancillary systems

Context of usage

This report provides information on those parties classified as ancillary system according to the party reference data attribute Party Type on a given date.

For each ancillary system, the party name and BIC and the corresponding accounts of the ancillary system, or linked through a settlement bank account group, in RTGS are reported.

For each account the account number and the ancillary system procedure (where applicable) is provided.

CBs can retrieve data of those ancillary systems belonging to their system entity.

This report can be used by CB users only .

Report access

This report can be reached in the following way:

[Team Content] >> [Predefined Reports] >> [PAR – Participation Reports] >> [PAR04]

Screenshot – prompt

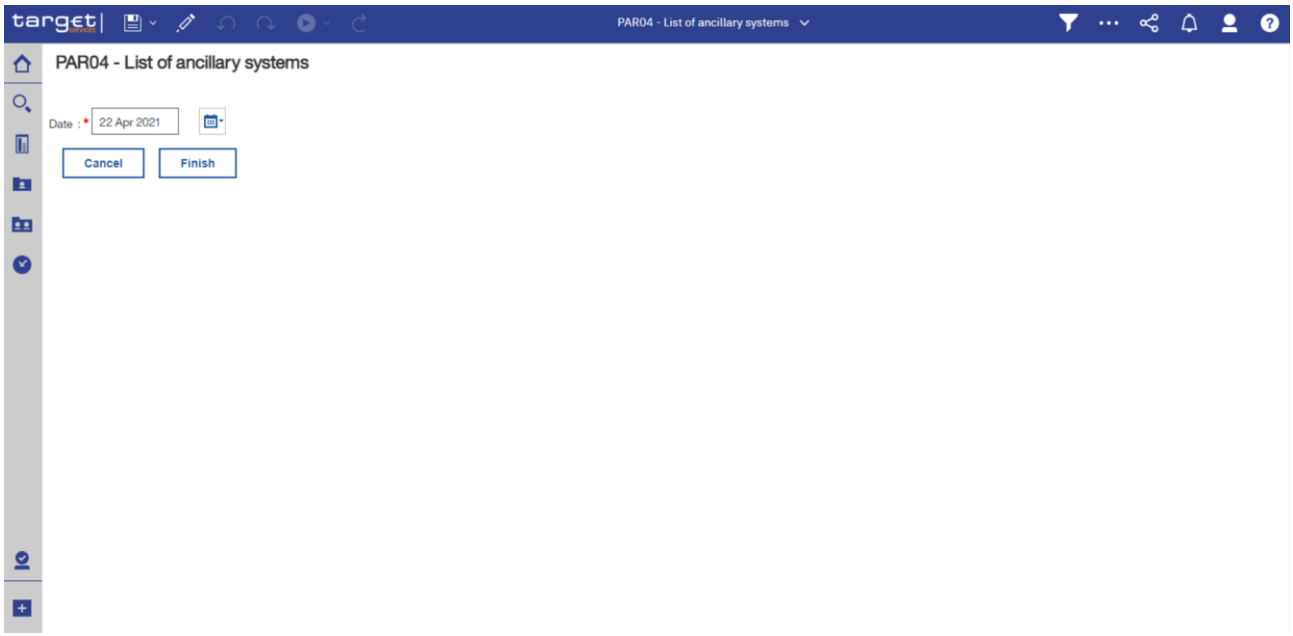


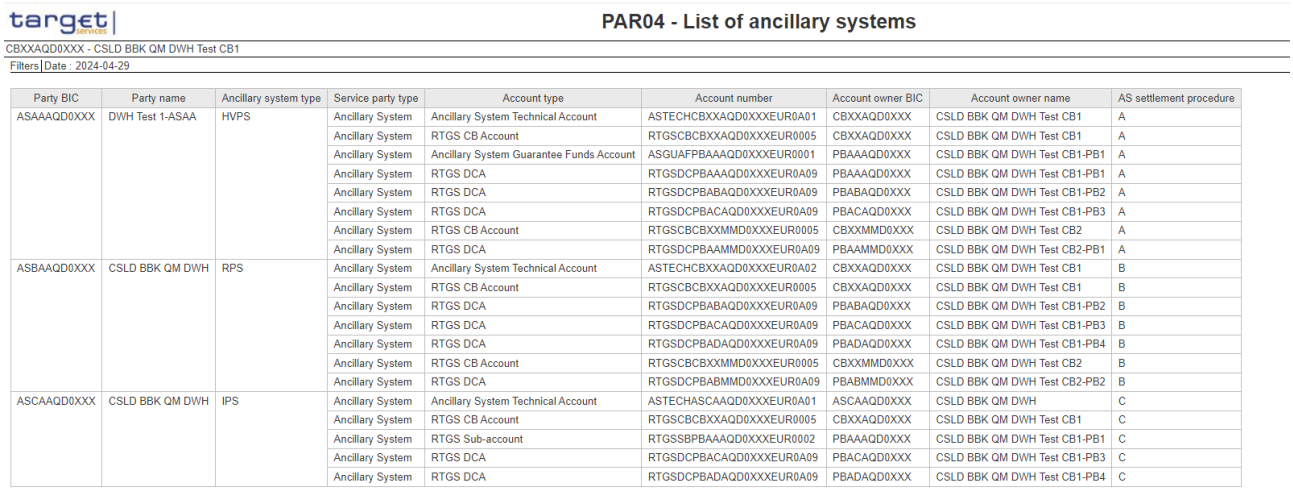
Figure 306 - PAR04 prompt

Prompt description

PAR04 – Report description – prompt screen	
Field label	**Description**
Date	You can select the date by clicking on the calendar. For valid report results, the current day cannot be selected. This field is mandatory.

Table 92 - PAR04 - Prompt description

Screenshot - output screen



PAR04 - List of ancillary systems

CBXXAQD0XXX - CSLD BBK QM DWH Test CB1

Filters | Date : 2024-04-29

Party BIC	Party name	Ancillary system type	Service party type	Account type	Account number	Account owner BIC	Account owner name	AS settlement procedure
ASAAAQD0XXX	DWH Test 1-ASAA	HVPS	Ancillary System	Ancillary System Technical Account	ASTECHCBXXAQD0XXXEUR0A01	CBXXAQD0XXX	CSLD BBK QM DWH Test CB1	A
			Ancillary System	RTGS CB Account	RTGSCBCBXXAQD0XXXEUR0005	CBXXAQD0XXX	CSLD BBK QM DWH Test CB1	A
			Ancillary System	Ancillary System Guarantee Funds Account	ASGUAFPBAAAQD0XXXEUR0001	PBAAAQD0XXX	CSLD BBK QM DWH Test CB1-PB1	A
			Ancillary System	RTGS DCA	RTGSDCPBAAAQD0XXXEUR0A09	PBAAAQD0XXX	CSLD BBK QM DWH Test CB1-PB1	A
			Ancillary System	RTGS DCA	RTGSDCPBABAQD0XXXEUR0A09	PBABAQD0XXX	CSLD BBK QM DWH Test CB1-PB2	A
			Ancillary System	RTGS DCA	RTGSDCPBACAQD0XXXEUR0A09	PBACAQD0XXX	CSLD BBK QM DWH Test CB1-PB3	A
			Ancillary System	RTGS CB Account	RTGSCBCBXXMMD0XXXEUR0005	CBXXMMD0XXX	CSLD BBK QM DWH Test CB2	A
			Ancillary System	RTGS DCA	RTGSDCPBAAMMD0XXXEUR0A09	PBAAMMD0XXX	CSLD BBK QM DWH Test CB2-PB1	A
ASBAAQD0XXX	CSLD BBK QM DWH	RPS	Ancillary System	Ancillary System Technical Account	ASTECHCBXXAQD0XXXEUR0A02	CBXXAQD0XXX	CSLD BBK QM DWH Test CB1	B
			Ancillary System	RTGS CB Account	RTGSCBCBXXAQD0XXXEUR0005	CBXXAQD0XXX	CSLD BBK QM DWH Test CB1	B
			Ancillary System	RTGS DCA	RTGSDCPBABAQD0XXXEUR0A09	PBABAQD0XXX	CSLD BBK QM DWH Test CB1-PB2	B
			Ancillary System	RTGS DCA	RTGSDCPBACAQD0XXXEUR0A09	PBACAQD0XXX	CSLD BBK QM DWH Test CB1-PB3	B
			Ancillary System	RTGS DCA	RTGSDCPBADAQD0XXXEUR0A09	PBADAQD0XXX	CSLD BBK QM DWH Test CB1-PB4	B
			Ancillary System	RTGS CB Account	RTGSCBCBXXMMD0XXXEUR0005	CBXXMMD0XXX	CSLD BBK QM DWH Test CB2	B
			Ancillary System	RTGS DCA	RTGSDCPBABMMD0XXXEUR0A09	PBABMMD0XXX	CSLD BBK QM DWH Test CB2-PB2	B
ASCAAQD0XXX	CSLD BBK QM DWH	IPS	Ancillary System	Ancillary System Technical Account	ASTECHASCAAQD0XXXEUR0A01	ASCAAQD0XXX	CSLD BBK QM DWH	C
			Ancillary System	RTGS CB Account	RTGSCBCBXXAQD0XXXEUR0005	CBXXAQD0XXX	CSLD BBK QM DWH Test CB1	C
			Ancillary System	RTGS Sub-account	RTGSSBPBAAAQD0XXXEUR0002	PBAAAQD0XXX	CSLD BBK QM DWH Test CB1-PB1	C
			Ancillary System	RTGS DCA	RTGSDCPBACAQD0XXXEUR0A09	PBACAQD0XXX	CSLD BBK QM DWH Test CB1-PB3	C
			Ancillary System	RTGS DCA	RTGSDCPBADAQD0XXXEUR0A09	PBADAQD0XXX	CSLD BBK QM DWH Test CB1-PB4	C

Figure 307 - PAR04 output

Output description

PAR04 – Report description – output screen	
Field Label	**Description**
Party BIC	Party BIC of the ancillary system
Party Name	Party short name of the ancillary system
Ancillary System Type	Ancillary System Type. Possible values: - High-Value-Payment- Systems (HVPS) - Retail-Payment-Systems (RPS) - Instant-Payment-Systems (IPS) - Security-Settlement-Systems (SSS) - Foreign-Exchange-Settlement-Systems

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	- Money-Market-Settlement-Systems (MMS) - Central Counterparties (CCP) - Other
Service Party Type	Service Party Type linked to the party. Possible values: - Ancillary system - RTGS Account holder
Account Type	Account Type. Possible values: - RTGS CB account - RTGS DCA - RTGS sub-account - AS guarantee funds account - AS technical account
Account Number	Account Number, where the party (AS) is owner as well as those, that are linked to this party (AS) via its Settlement Bank Account Group.
Account Owner BIC	BIC of the party owning the account. This can either be the AS itself or (in case the account is linked to the AS via the Settlement Bank Account Group) the AS settlement bank
Account Owner Name	Name of the party owning the account
AS Settlement Procedure	Optional criteria; Possible Values: A, B, C, D, E If not applicable, field is filled with "—"

Table 93 - PAR04 - Output description

5.11.5 PAR05 – Aggregations list

This report provides information on the aggregation groups that users have configured in Common Reference Data Management (CRDM) at a specific point time.

- Banking Group (BG)
  A Banking Group is an optional group of parties that CLM uses to provide a collective view over the liquidity of the involved parties of a central bank. A Banking Group is used for liquidity monitoring purposes of central banks.

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- Account Monitoring Group (AMG)
  An Account Monitoring Group is an optional group of accounts (MCAs, DCAs and TIPS Accounts) that CLM uses in order to provide a collective view over the liquidity of the involved accounts to payment banks. An Account Monitoring Group is used for liquidity monitoring purposes of payment banks. The leader party of the Account Monitoring Group can see the liquidity of all included accounts while the other participants of the Account Monitoring Group can only see the liquidity of their accounts.
- Liquidity Transfer Group (LTG)
  A Liquidity Transfer Group is an optional group of MCAs that CBs can configure to allow intra-CLM liquidity transfers between them (not for liquidity monitoring purposes). Intra-service liquidity transfers between two MCAs can only take place between accounts belonging to the same Liquidity Transfer Group.
- Settlement Bank Account Group (SBAG)
  A Settlement Bank Account Group is a group of cash accounts used in ancillary system settlement.

Depending on the aggregation group, the report provides output based on cash accounts (liquidity transfer group, settlement bank account group and account monitoring group) and based on party (banking group).

This report is available to central bank (all groups) as well as to payment banks and ancillary systems (only for SBAG: leader party, AMG: leader party, LTG account owned by payment bank/ancillary system).

Report access

This report can be reached in the following way:

[Team Content] >> [Predefined Reports] >> [PAR – Participation Reports] >> [PAR05]

Screenshot – prompt

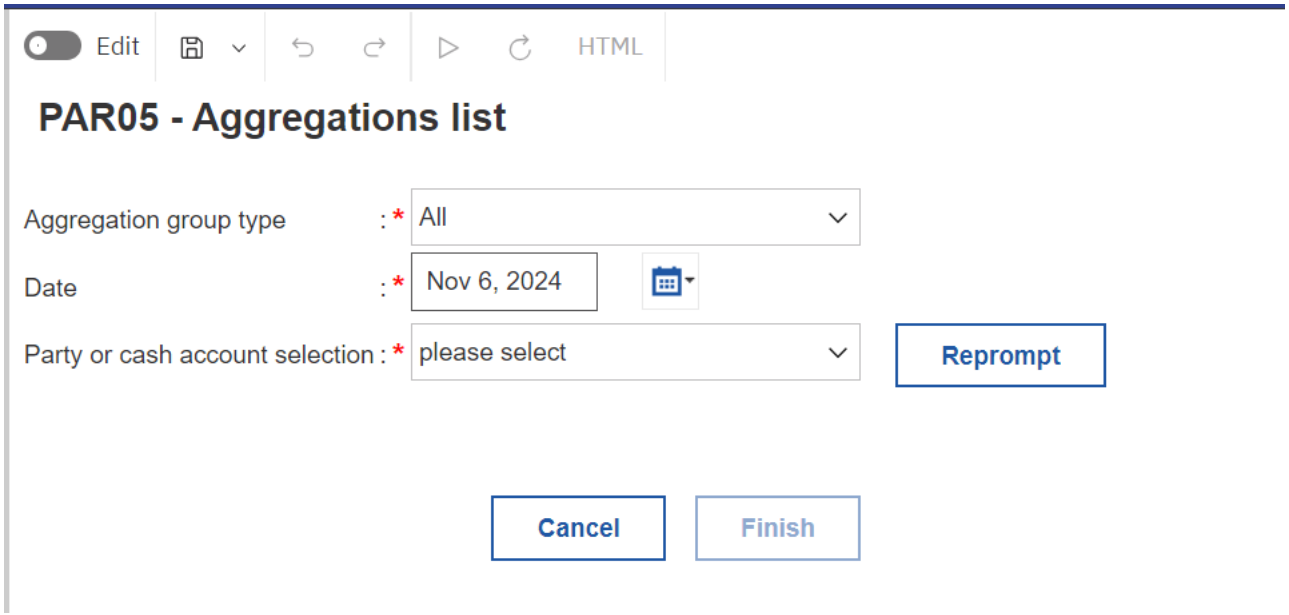

Figure 308 - PAR05 prompt

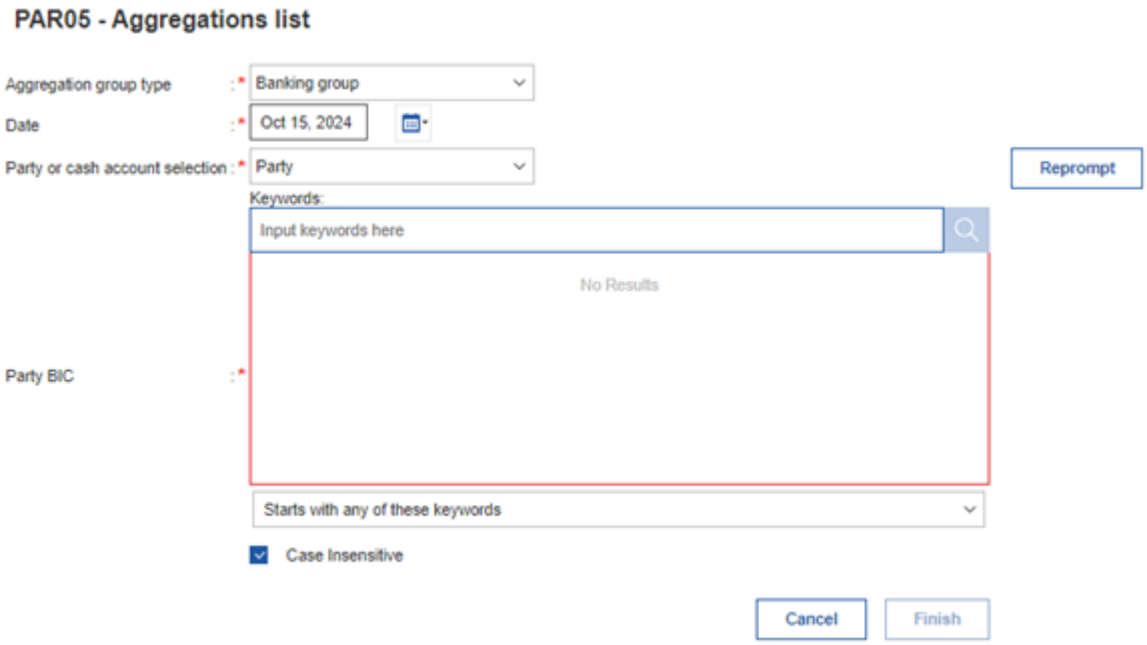

Figure 309 - PAR05 - Aggregations list

Prompt description

PAR05 – Report description – prompt screen	
Field label	**Description**
Aggregation group type	You can use this drop-down field to select the type of aggregation group for which Cognos is to generate the report. Possible values: - BANK: Banking group - ACCM: Account monitoring group - LQTR: Liquidity transfer group - SETL: Settlement bank account group - All The field is mandatory.
Date	The composition of aggregation groups may change over time. You can use this date picker to select the date as of which Cognos is to select the state of the selected aggregation groups. This field is mandatory

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Party or cash account selection	This field provides you with the option to select whether you wish to select an aggregation group that includes a specific party or cash account. If a value other than “None” is selected, also Party or Cash account needs to be filled. The field is mandatory.
Party BIC	BIC and short name of the party The field is mandatory when the user select “Party”.
Cash Account Number	The cash account number for which the report output is created. The field is mandatory when the user select “Cash Account”.

Table 94 - PAR05 - Prompt description

Screenshot - output screen

Figure 310 - PAR05 output (1) – Banking Group

Output description

PAR05 –Report description – output screen	
Field label	**Description**
Aggregation group type	This field provides the code that determines whether the aggregation group is for a banking group, settlement bank account group, liquidity transfer group or an account monitoring group.
Aggregation group name	This field provides the name of the aggregation group that the user assigned
Depending on what was selected in the prompt screen, the following fields may be filled or empty.	
Aggregation Leader	
Party BIC	This field provides the BIC of the party that is a member of the banking group.
Party name	This field provides the name of the party that is a member of the banking group.
Aggregation group members	
Party BIC	This field provides the BIC of the party that is a member of the banking group.

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Party name	This field provides the name of the party that is a member of the banking group.
Cash account number	This field provides the number of the cash account that is a member of the liquidity transfer group or the account monitoring group.
Cash account BIC	This field provides the BIC of the cash account that is a member of the liquidity transfer group or the account monitoring group.

Table 95 - PAR05 - Output description

Screenshot – output screen

Figure 311 - PAR05 output (2) – Account Monitoring Group, Settlement Bank Account Group, All

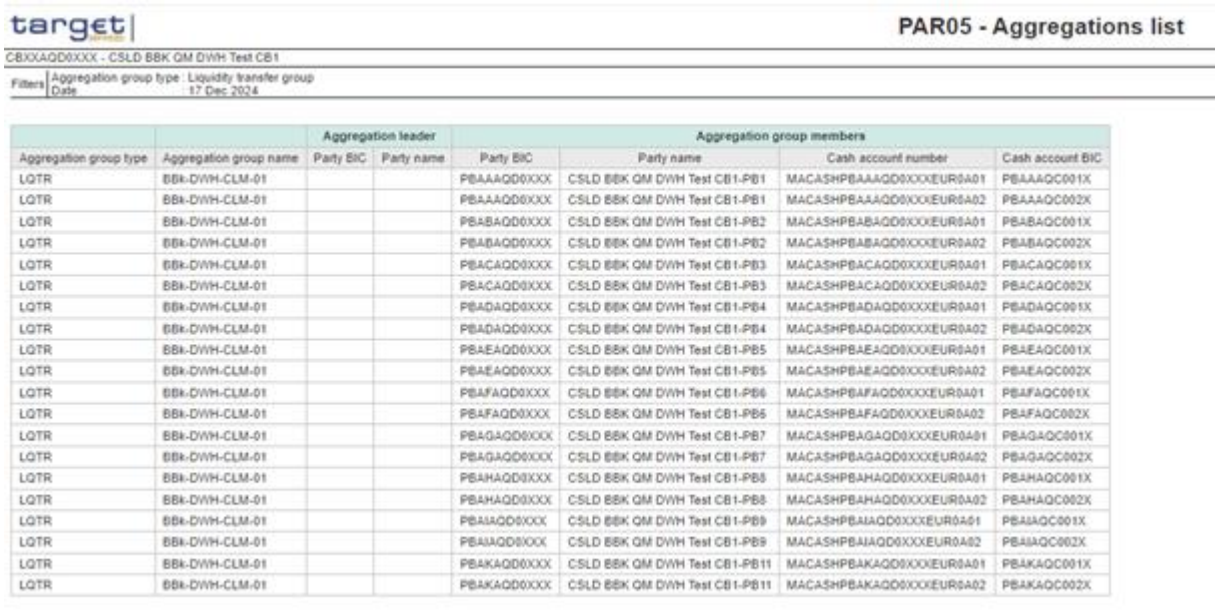

Figure 312 - PAR05 output (3) – Liquidity Transfer Group

5.11.6 PAR06 – Number of participants per CB

Context of usage

This report provides information on the number of participants per participation type according to RTGS Directory on a given date.

For each participation type in RTGS Directory, the number (total and per CB) of participants on the given date is reported. In addition, the number of unpublished RTGS DCAs belonging to payment banks and the number of Direct Participants (payment banks) having a different BIC8 is provided in the same manner. Furthermore, the report provides information on the number (total and per CB) of ancillary system parties (according to the party reference data attribute PARTY Type).

CBs can retrieve aggregated numbers (overall and per CB) for all CBs/system entities.

This report can be used by CB users only.

Report access

This report can be reached in the following way:

[Team Content] >> [Predefined Reports] >> [PAR – Participation Reports] >> [PAR06]

Screenshot – prompt

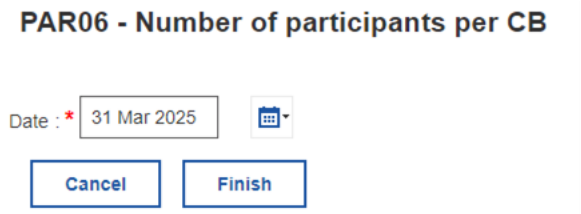

Figure 313 - PAR06 prompt

Prompt description

PAR06 – Report description – prompt screen	
Field label	**Description**
Date	You can select the date by clicking on the calendar. For valid report results, the current day cannot be selected. This field is mandatory

Table 96 - PAR06 - Prompt description

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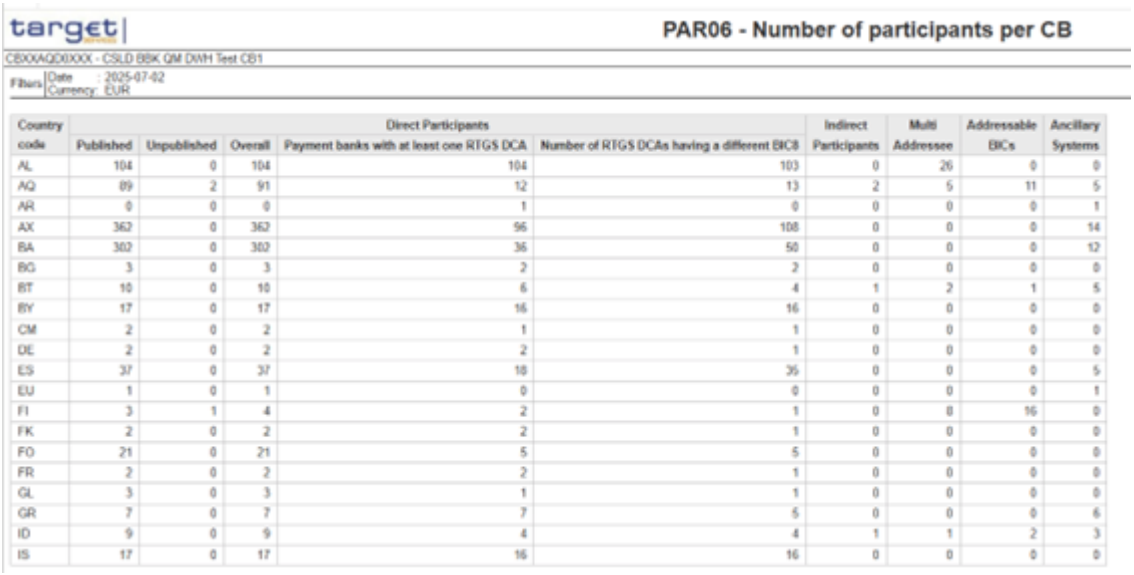
Screenshot - output screen



target

PAR06 - Number of participants per CB

CB00XAQD0XXX - CSLD BBK QM DWH Test CB1

Filters: Date: 2025-07-02; Currency: EUR

Country code	Direct Participants					Indirect Participants	Multi Addressee	Addressable BICs	Ancillary Systems
	Published	Unpublished	Overall	Payment banks with at least one RTGS DCA	Number of RTGS DCAs having a different BIC8				
AL	104	0	104	104	103	0	26	0	0
AQ	89	2	91	12	13	2	5	11	5
AR	0	0	0	1	0	0	0	0	1
AX	362	0	362	96	108	0	0	0	14
BA	302	0	302	36	50	0	0	0	12
BG	3	0	3	2	2	0	0	0	0
BT	10	0	10	6	4	1	2	1	5
BY	17	0	17	16	16	0	0	0	0
CM	2	0	2	1	1	0	0	0	0
DE	2	0	2	2	1	0	0	0	0
ES	37	0	37	18	35	0	0	0	5
EU	1	0	1	0	0	0	0	0	1
FI	3	1	4	2	1	0	0	16	0
FK	2	0	2	2	1	0	0	0	0
FO	21	0	21	5	5	0	0	0	0
FR	2	0	2	2	1	0	0	0	0
GL	3	0	3	1	1	0	0	0	0
GR	7	0	7	7	5	0	0	0	6
ID	9	0	9	4	4	1	1	2	3
IS	17	0	17	16	16	0	0	0	0

Figure 314 - PAR06 output {CR-173}

Output description

PAR06 – Report description – output screen	
Field label	**Description**
Country code	ISO country code
Direct participants	
Published	Number of published RTGS Account BICs according to the RTGS Directory.
Unpublished	Number of unpublished RTGS Account BICs according to the RTGS Directory.
Overall	Number of published + unpublished RTGS Account BICs
Payment banks with at least one RTGS DCA	Distinct number of payment banks having at least one RTGS DCA
Number of RTGS DCAs having a different BIC8	Distinct number of RTGS DCA Account BICs for each CB on BIC8-Level (without the last 3 positions of BIC11) Every BIC needs to have 11 characters, but in this column all accounts are summed up, that have the same first 8 characters in their account BIC (the trailing three are disregarded)
Indirect participants	Number of Indirect Participants
Multi addressee	Number of all types of Multi addressees

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Addressable BICs	Number of all types of Addressable BICs
Ancillary systems	Number of parties with party type = ancillary system
Overall - Total	Sums for each of the columns

Table 97 - PAR06 - Output description

5.12 Standing facilities reports (STF)

5.12.1 STF01 – Standing facility information

Context of usage

This report provides daily information on the use of standing facilities within a given data range. In addition to the party BIC/name, entities are reported with their respective MFI code. The report provides information on payment banks with access to monetary policy operations and is split in two parts: Marginal lending and overnight deposit.

For each facility and day the set-up amount, the refund amount and the interest amount is reported. For the marginal lending facility, the reported amounts include both, the use of marginal lending on request and the use of automated marginal lending.

CBs can retrieve information on the use of standing facilities of those parties belonging to their system entity.

Note: After the launch of Eurosystem Collateral Management System (ECMS) this report will only provide information on the use of the overnight deposit facility as major parts of the marginal lending facility will be no more handled by CLM, but by ECMS. Further information can be found in CLM UDFS chapters “Marginal lending on request” and “Automatic marginal lending”.

This report can be used by CB and PB users.

Report access

This report can be reached in the following way:

[Team Content] >> [Predefined Reports] >> [STF – Standing Facilities Reports] >> [STF01]

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Screenshot – prompt

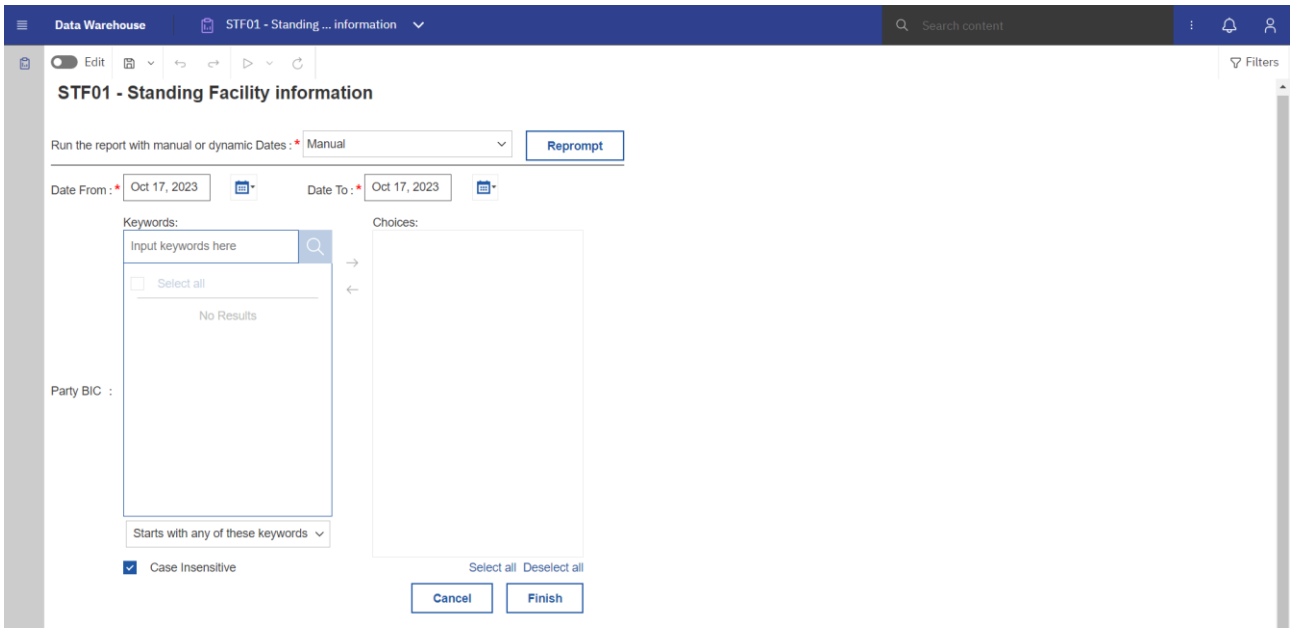

Figure 315 - STF01 prompt - Manual

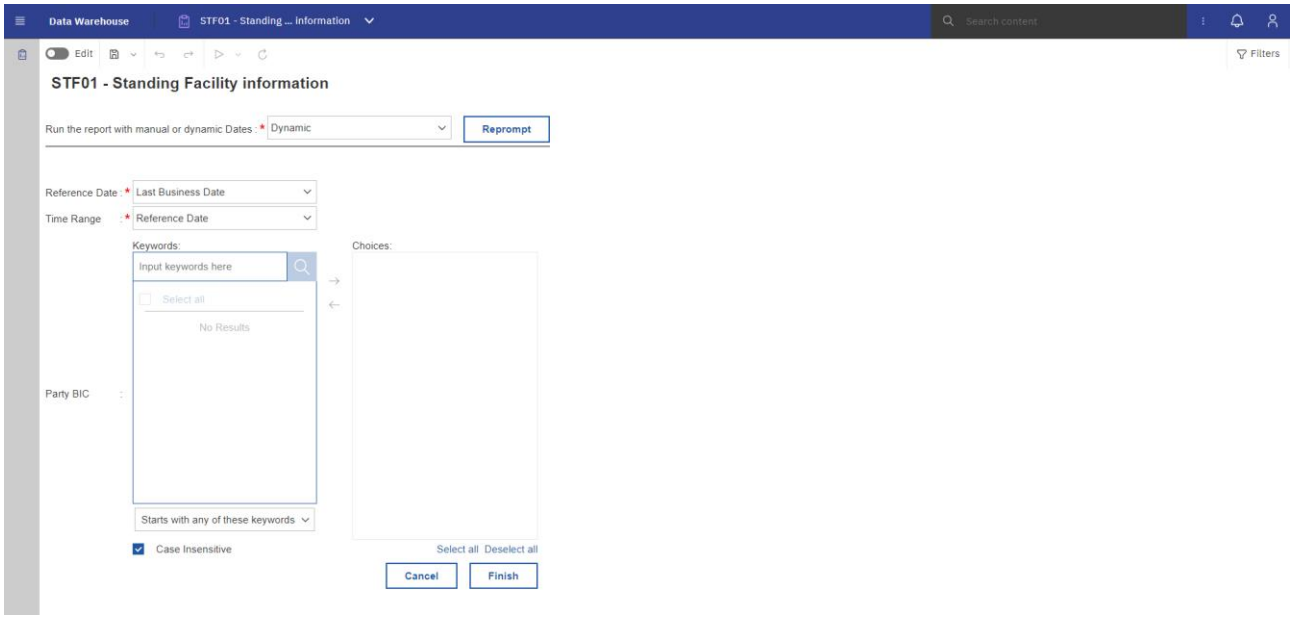

Figure 316 - STF01 prompt - Dynamic

Prompt description

STF01 – Report description –prompt screen - Manual	
Field label	**Description**
Date From	You can select the date by clicking on the calendar. This field is mandatory.
Date To	You can select the end date of the period, for which the report should contain the data by clicking on the calendar. For valid report result, the current day cannot be selected. This field is mandatory.
Party BIC	You can use this search and select prompt to search for the party BIC or short name. One, several or all parties can be selected. This field is optional.

Table 98 - STF01 - Prompt description - Manual

STF01 – Report description –prompt screen - Dynamic	
Field label	**Description**
Reference Date	Indicates the end-point of the date range for which the dynamic report should contain data. Valid values: - Last Business Day - Prior Last Business Day The system will automatically calculate the end of the date range based upon the date at the time of execution.
Time Range	Indicates the start-point of the date range for which the dynamic report should contain data. The system will automatically calculate the start of the date range based upon the date at the time of execution.
Party BIC	You can use this search and select prompt to search for the party BIC or short name. One, several or all parties can be selected. This field is optional.

Table 99 - STF01 - Prompt description - Dynamic

All rights reserved.

Screenshot - output screen

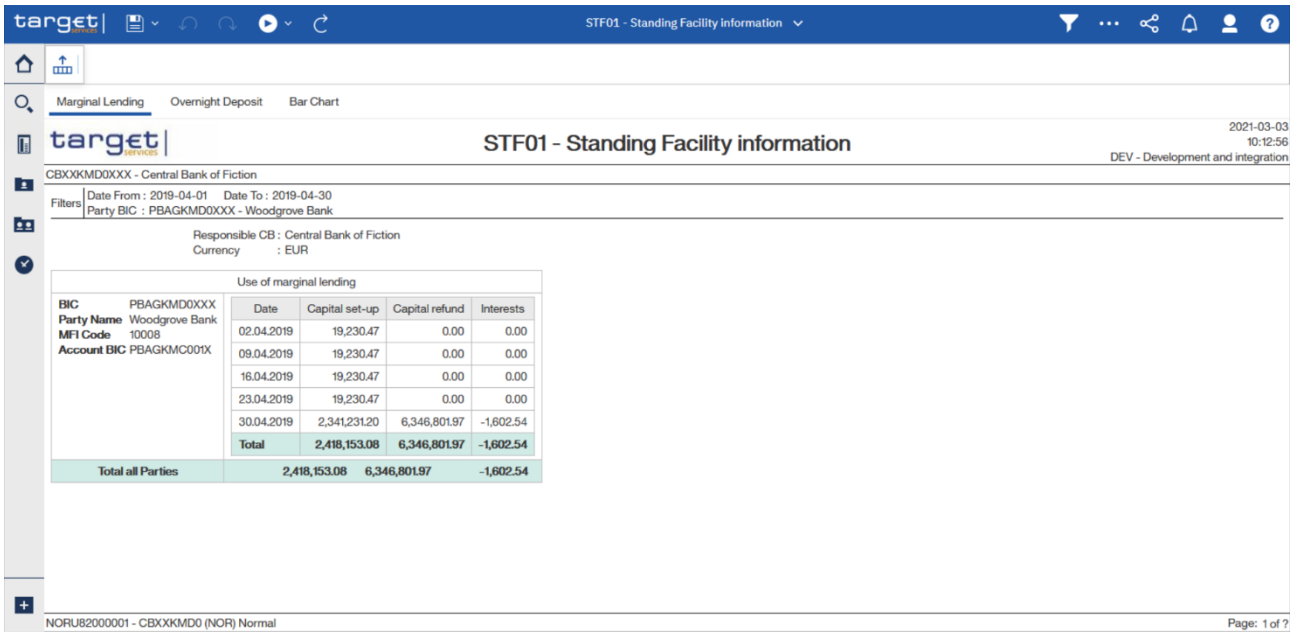

Figure 317 - STF01 output (1)

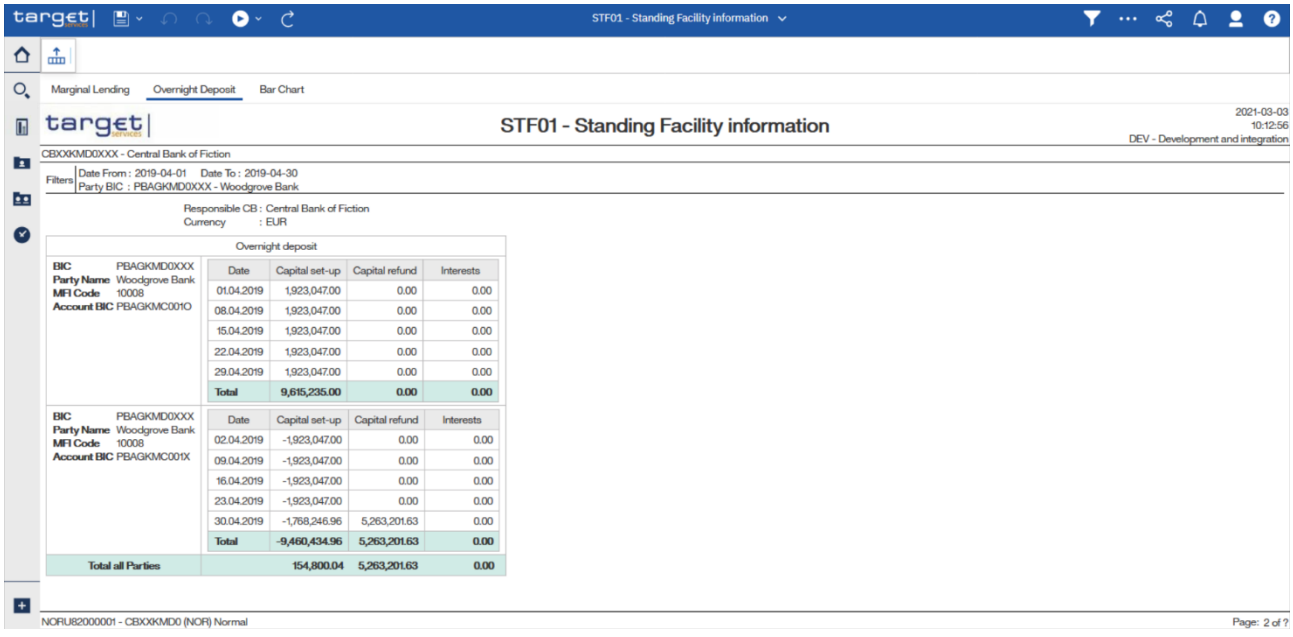

Figure 318 - STF01 output (2)

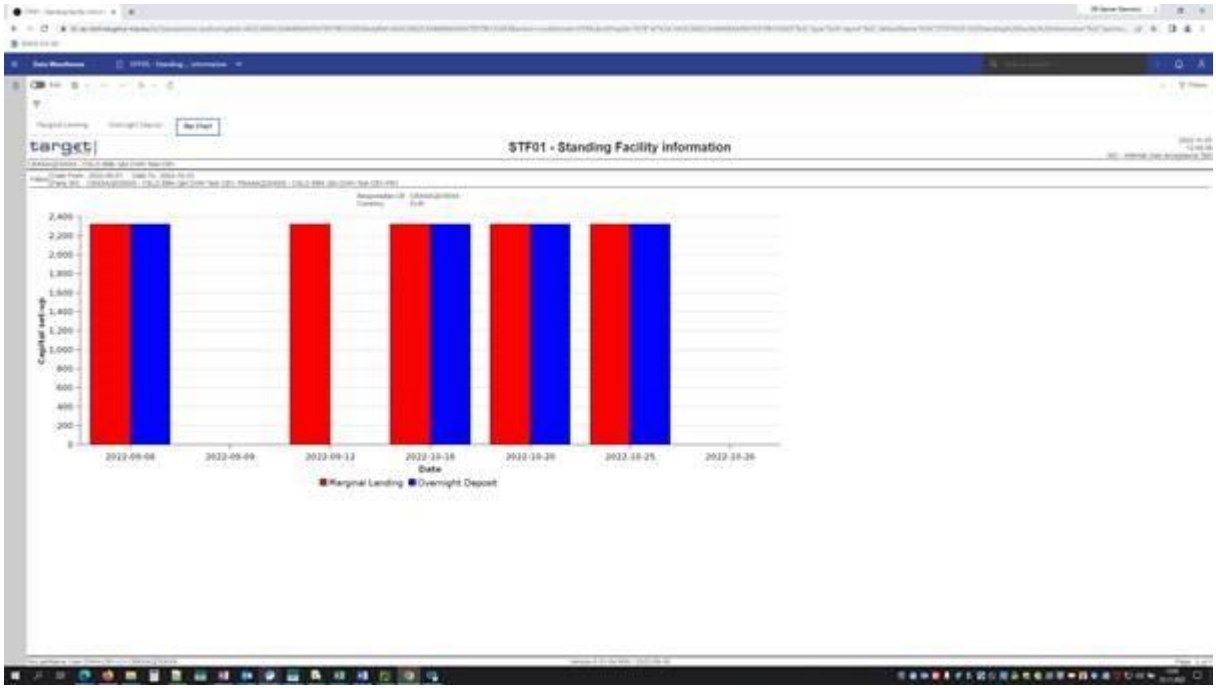

Figure 319 - STF01 output (3)

Output description

STF01 – Report description – output screen – table use of marginal lending	
Field label	**Description**
The table contains the following details for each selected party (sorted by party BIC):	
BIC	BIC of the party holding the default MCA
Party name	Short name of the party holding the default MCA
Account BIC	Account BIC of the default MCA
MFI Code	MFI code of the party holding the default MCA
Date	Date of the chosen Date range in the search prompt. The following details will be repeated for each business day (sorted by date).
Capital set-up	Total value of liquidity granted to the party minus the on-demand reverse operation between default MCA of the party and its dedicated ML account. This value considers automatic and on-demand marginal lending.
Capital refund	Total value of liquidity reimbursed by the party on a daily basis.

Interest	Total value of interests paid by the party. In case of multiple marginal lending operations, automatic and on request, for the same CLM account holder, the interest is calculated on the basis of the aggregated marginal lending amount by CLM.
"Total" per party for capital set-up capital refund interests	For all business days for each party
"Total all Parties" for capital set-up capital refund interests	For all business days and all parties

Table 100 - STF01 - Output description - Table use of marginal lending

STF01 – Report description – output screen – table overnight deposit	
Field label	**Description**
The table contains the following details for each selected party (sorted by party BIC)	
BIC	BIC of the party holding the default MCA
Party name	Short name of the party holding the default MCA
Account BIC	Account BIC of the default MCA
MFI Code	MFI code of the party holding the default MCA
Date	Date of the chosen date range in the search prompt. The following details will be repeated for each business day (sorted by date).
Capital set-up	The overnight deposit capital set-up amount. This amount equals the (positive) end of day balance on the dedicated overnight deposit account (owned by the responsible CB) per default MCA holder. The balance is the result of liquidity transfers of a party to its dedicated overnight deposit account minus possible overnight deposit reverse transactions on a given business day.
Capital refund	Total value of liquidity reimbursed to the party on a daily basis.

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Interest	Amount of overnight deposit interests received by the party on a daily basis. Note: Depending on the interest rate for overnight deposit in CRDM, interest amounts are displayed positive (positive interest rate) or negative (negative interest rate).
Total per party for capital set-up capital refund interests	For all business days for each party
Total all Parties for capital set-up capital refund interests	For all business days and all parties

Table 101 - STF01 - Output description - Table overnight deposit

STF01 – Report description – output screen - bar chart for marginal lending and overnight deposit	
Field label	**Description**
x-axis: Date y-axis: - The amount of marginal lending capital set-up	Bar chart: Each business day within the given date range has an entry on the x-axis- The amounts of each facility for each business day is calculated as: sum over all capital set-ups (per facility) of all parties (for each business day) Marginal lending and overnight deposit are separately shown for each business day and are differentiated by separate colours.

Table 102 - STF01 - Output description - Bar chart for marginal lending and overnight deposit

5.13 Statement reports (STA)

5.13.1 STA01 – Statement of account (single account)

Context of usage

This report provides information on all cash transfers debited or credited on an account in CLM or RTGS for a given date (range).

For each business day the account balance at the beginning and the end of the day is reported. In between, the report lists all cash transfers in the order of their CLM/RTGS settlement timestamp. For each cash transfer an ID, the currency of the instructed amount, the party BIC of the counterparty, the service/component where the account of the counterparty is located and the debit/credit settlement value are provided. Each cash transfer is reported with the respective account balance after its settlement.

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For each business day the volume and value (separate for debits and credits) of cash transfers are calculated.

CBs can retrieve account statement information for those parties belonging to their system entity.

Note: No information is provided for RTGS sub-accounts and accounts in the Contingency Services.

This report can be used by CB, PB and AS users.

Report access

This report can be reached in the following way:

[Team Content] >> [Predefined Reports] >> [STA – Statement Reports] >> [STA01]

Screenshot – prompt

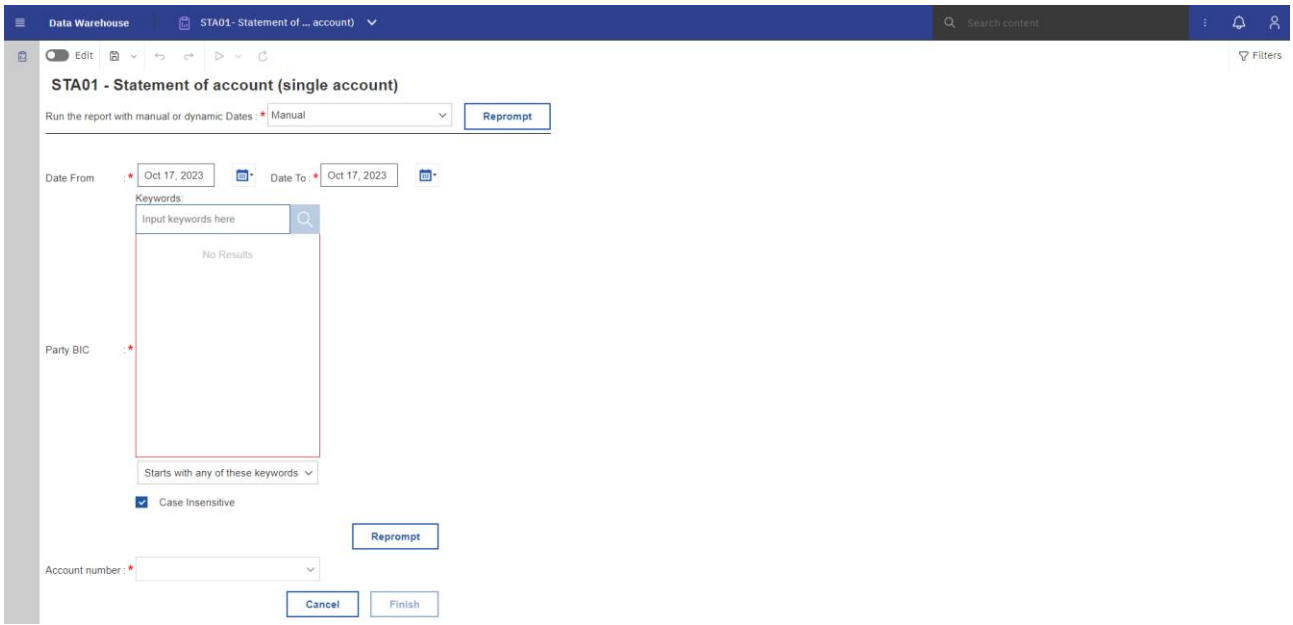

Figure 320 - STA01 prompt – Manual

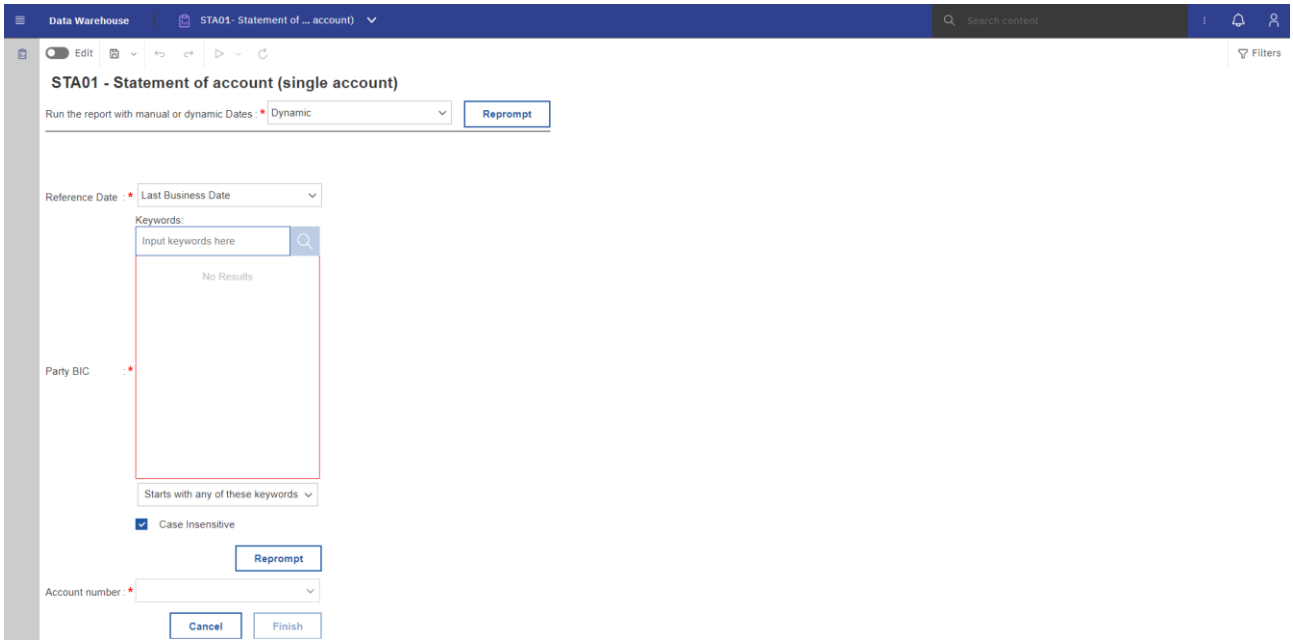

Figure 321 - STA01 prompt - Dynamic

Prompt description

STA01 – Report description – prompt screen - Manual	
Field label	**Description**
Date from	You can select the date by clicking on the calendar. This field is mandatory.
Date to	You can select the end date of the period, for which the report should contain the data by clicking on the calendar. For valid report results, the current day cannot be selected. This field is mandatory.
Party BIC	You can use this search and select prompt to be able to search for the party BIC or short name. This field is mandatory.
Account number	You can choose here the cash account number for which the account statement should be generated. Only account numbers under the selected party BIC can be selected (either CLM or RTGS accounts). RTGS sub-accounts and accounts in the contingency services are excluded in this report. This field is mandatory.

Table 103 - STA01 - Prompt description - Manual

STA01 – Report description – prompt screen - Dynamic	
Field label	**Description**
Reference Date	Indicates the end-point of the date range for which the dynamic report should contain data. Valid values: - Last Business Day - Prior Last Business Day The system will automatically calculate the end of the date range based upon the date at the time of execution.
Party BIC	You can use this search and select prompt to be able to search for the party BIC or short name. This field is mandatory.
Account number	You can choose here the cash account number for which the account statement should be generated. Only account numbers under the selected party BIC can be selected (either CLM or RTGS accounts). RTGS sub-accounts and accounts in the contingency services are excluded in this report. This field is mandatory.

Table 104 - STA01 - Prompt description – Dynamic

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Screenshot - output screen

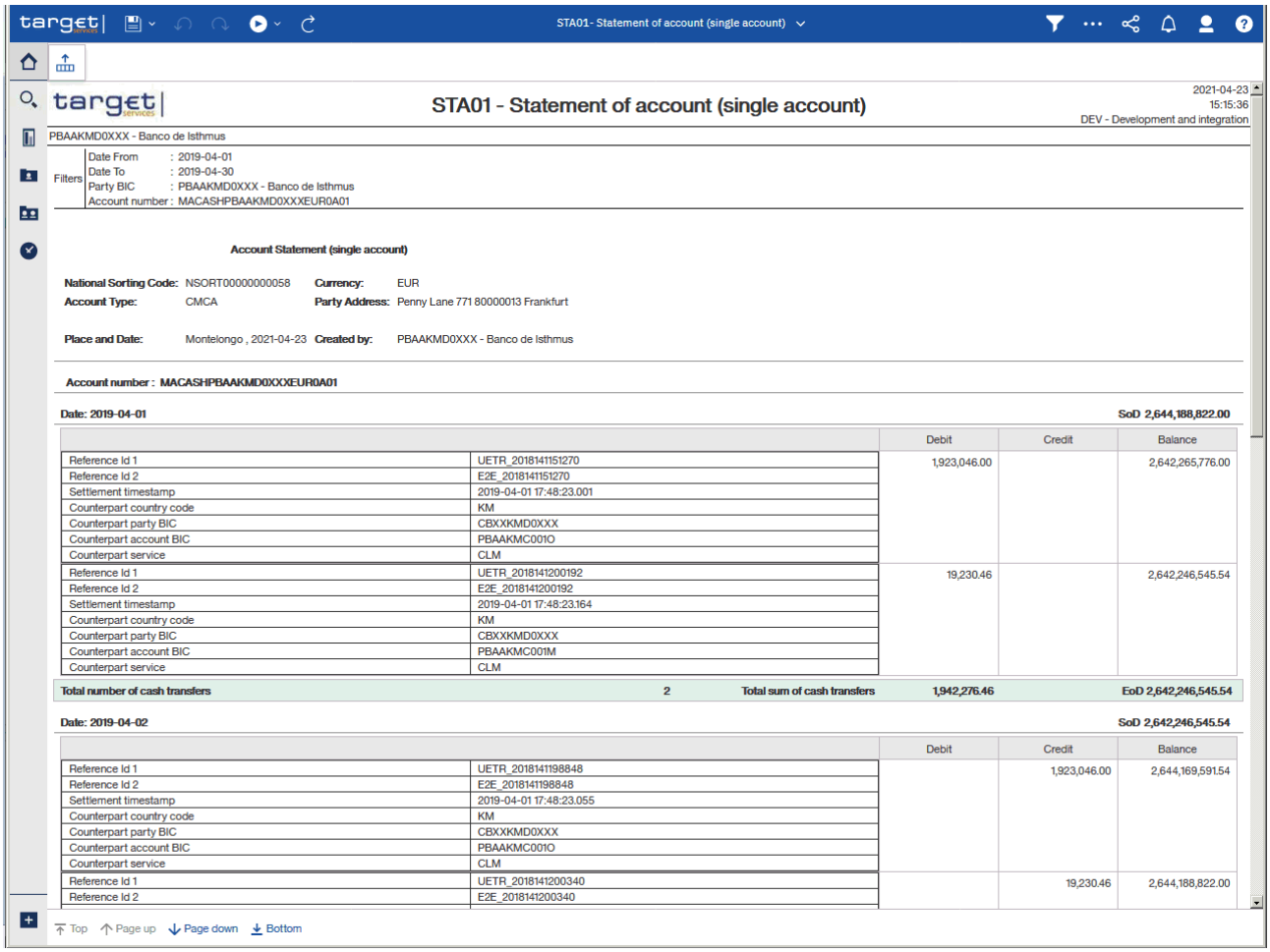

Figure 322 - STA01 output (1)

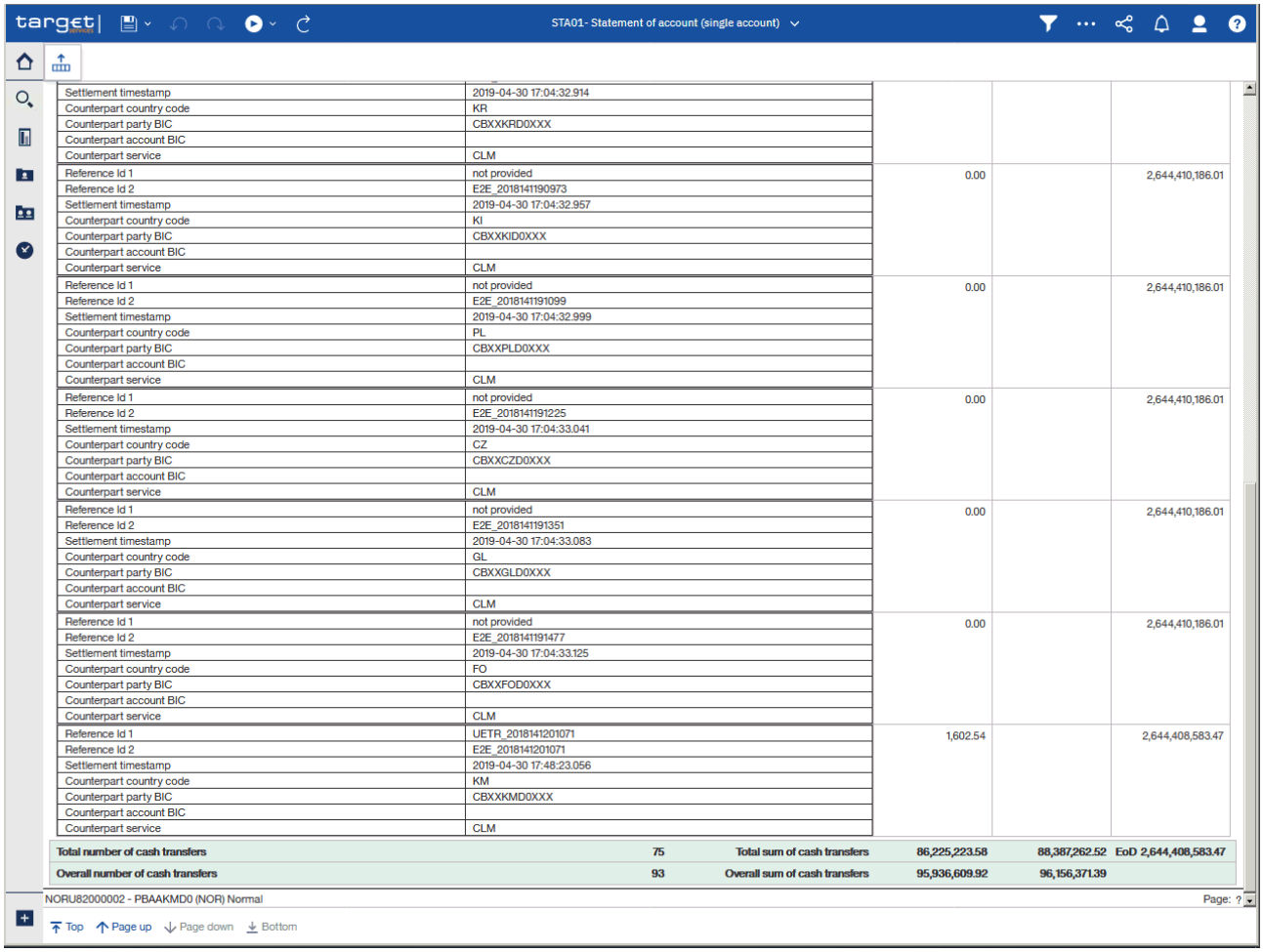

Figure 323 - STA01 output (2)

Output description

STA01 – Report description – output screen	
Field label	**Description**
Party Address	Street, house number, postal code and city of the selected Party
National Sorting Code	NSC of the selected Party
Currency	Currency of the selected Party
“Place and date” + City + date	City of the user’s party + current date. Used as place and date of creation of the report
“Created by” + Party BIC + Party short name	The user’s party. Used for information about the executor of the report in line “created by”
Account Type	Account type of selected account number
Date	Business day

Balance of account (SoD)	Balance of account (SoD) is always shown, even if there is no cash transfer during the business day.
Reference 1	Depending on the message that caused the cash transfer, the following reference type is listed: - camt.050: Message ID (from BAH) - pacs.004: original UETR - pacs.008: UETR - pacs.009: UETR - pacs.010: UETR - pain.998 ASTI: None[2] If no reference can be found, this field is left empty.
Reference 2	End To End ID If no reference can be found, this field is left empty. For AS cash transfer orders delivered via pain.998 ASTI message, the End-to-End ID is never available.[3]
Settlement timestamp	Settlement timestamp of the cash transfer
Counterpart country code	ISO country code of the counterpart
Counterpart party BIC	Party BIC of the counterpart
Counterpart account BIC	Account BIC of the counterpart; If no account BIC exists (e.g. for marginal lending accounts), the value "-" is filled in
Counterpart service	Service of the counterpart
Debit	Debited value of the cash transfer- If the settlement was debited
Credit	Credited value of the cash transfer - If the settlement was credited
Balance	Calculated balance of the account after the settlement of the cash transfer
Volume (number of cash transfers)	Volume of cash transfers during the business day
Value (sum of cash transfers debited)	Value of debited cash transfers during the business day
Value (sum of cash transfers credited)	Value of credited cash transfers during the business day
Balance of Account (EoD)	Balance of the account at the end of the business days Balance of account (EoD) is always shown, even if there is no cash transfer during the business day.

2 For cash transfer orders delivered via pain.998, the source system does not provide any business identifiers of the single transactions.

3 For cash transfer orders delivered via pain.998, the source system does not provide any business identifiers of the single transactions.

Total Volume (number of cash transfers)	Total volume over all business days within the selected date range
Total Value (of all cash transfers) debited	Total value of debited cash transfers over all business days within the selected date range
Total Value (of all cash transfers) credited	Total value of credited cash transfers over all business days within the selected date range
Balance	EoD balance at the end of the date range

Table 105 - STA01 - Output description

5.13.2 STA02 – Statement of account (co-managed accounts)

Context of usage

This report provides information on all cash transfers debited or credited on one or several co-managed MCAs in CLM for a given date (range).

Apart from that, the content of the report is congruent to STA01.

Co-managers can retrieve account statement information on single or all of their co-managed accounts.

CBs can retrieve account statement for those parties belonging to their system entity.

This report can be used by CB and PB users.

Report access

This report can be reached in the following way:

[Team Content] >> [Predefined Reports] >> [STA – Statement Reports] >> [STA02]

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Screenshot – prompt

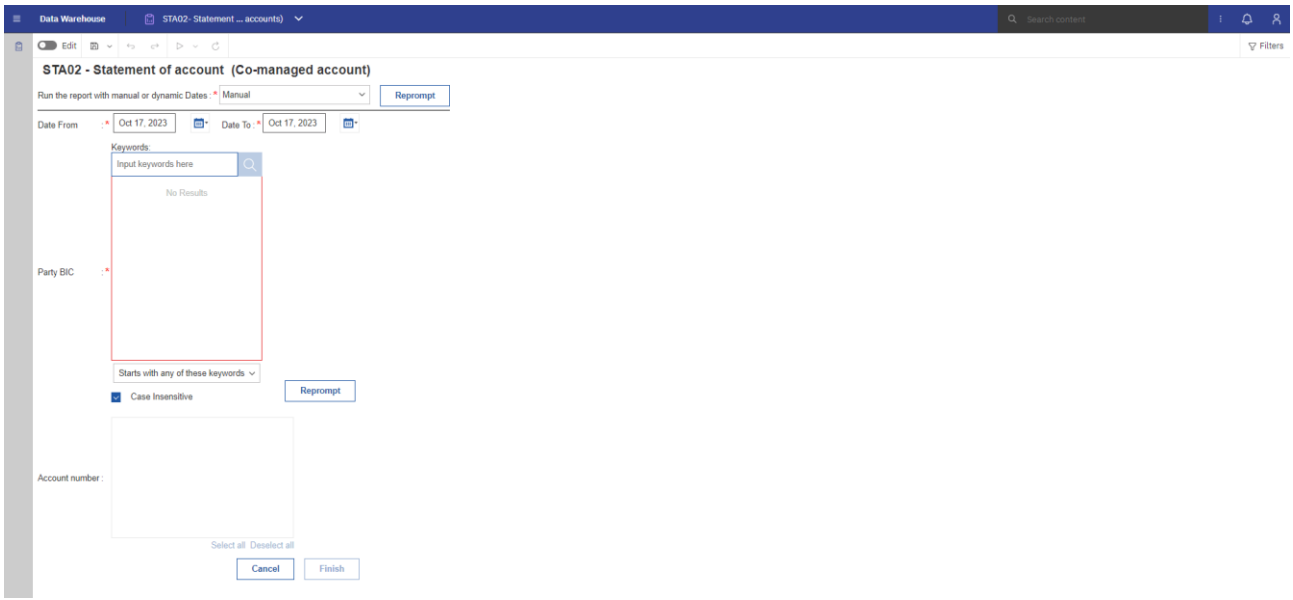

Figure 324 - STA02 prompt - Manual

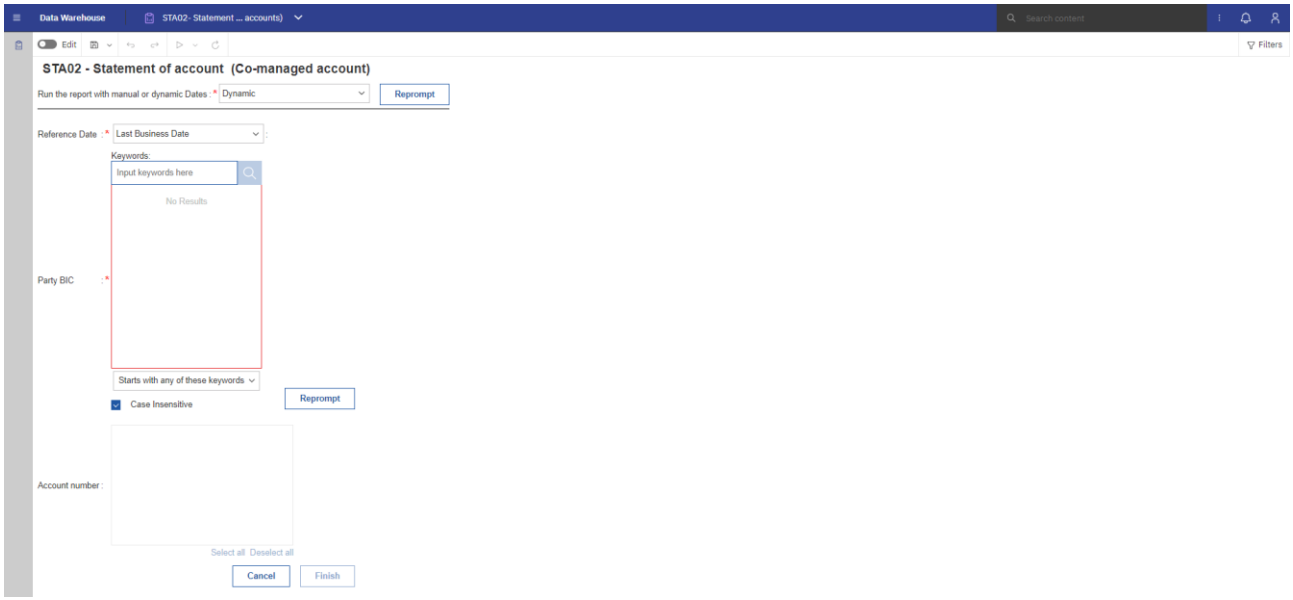

Figure 325 - STA02 prompt - Dynamic

Prompt description

STA02 – Report description – prompt screen - Manual	
Field label	**Description**
Date From	You can select the date by clicking on the calendar.

	This field is mandatory.
Date To	You can select the end date of the period, for which the report should contain the data by clicking on the calendar. For valid report results, the current day cannot be selected. This field is mandatory
Party BIC	You can use this search and select prompt to search for the party BIC or short name This field is mandatory
Account number	You can select here the cash account number for which the account statement should be generated. Only MCA numbers under the selected party BIC can be selected This field is optional.

Table 106 - STA02 - Prompt description - Manual

STA02 – Report description – prompt screen - Dynamic	
Field label	**Description**
Reference Date	Indicates the end-point of the date range for which the dynamic report should contain data. Valid values: - Last Business Day - Prior Last Business Day The system will automatically calculate the end of the date range based upon the date at the time of execution.
Party BIC	You can use this search and select prompt to search for the party BIC or short name This field is mandatory.
Account number	You can select here the cash account number for which the account statement should be generated. Only MCA numbers under the selected party BIC can be selected This field is optional.

Table 107 - STA02 - Prompt description – Dynamic

Screenshot - output screen

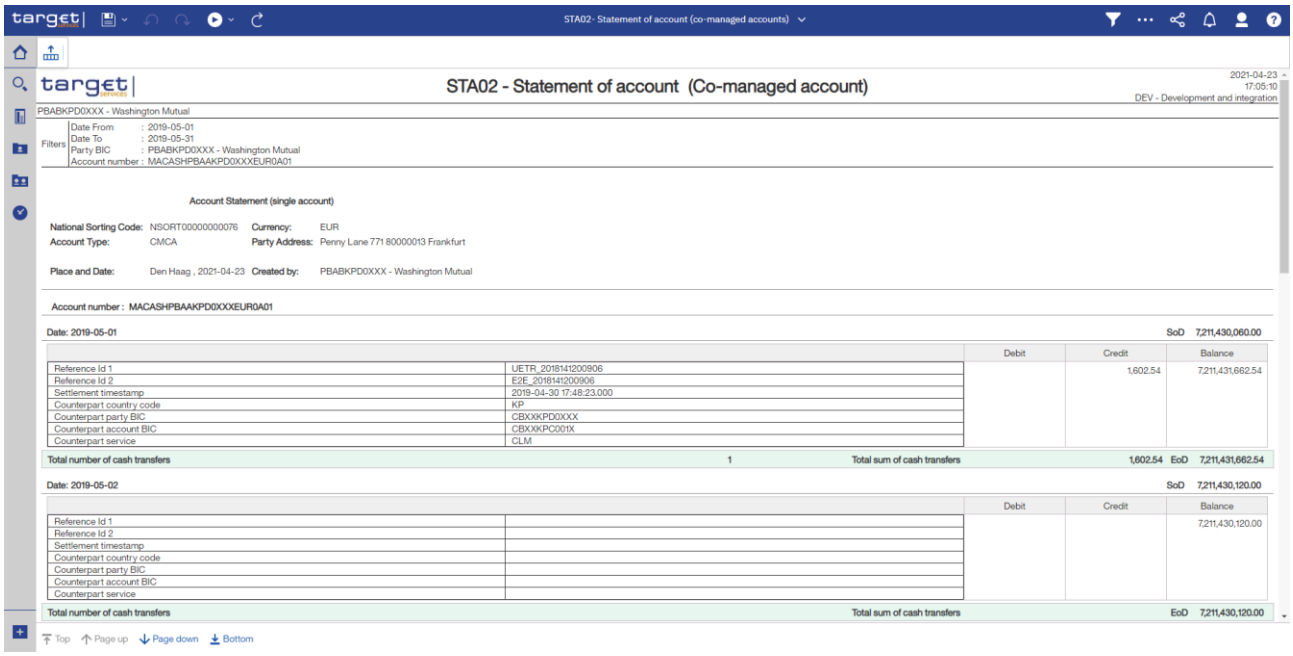

Figure 326 - STA02 output (1)

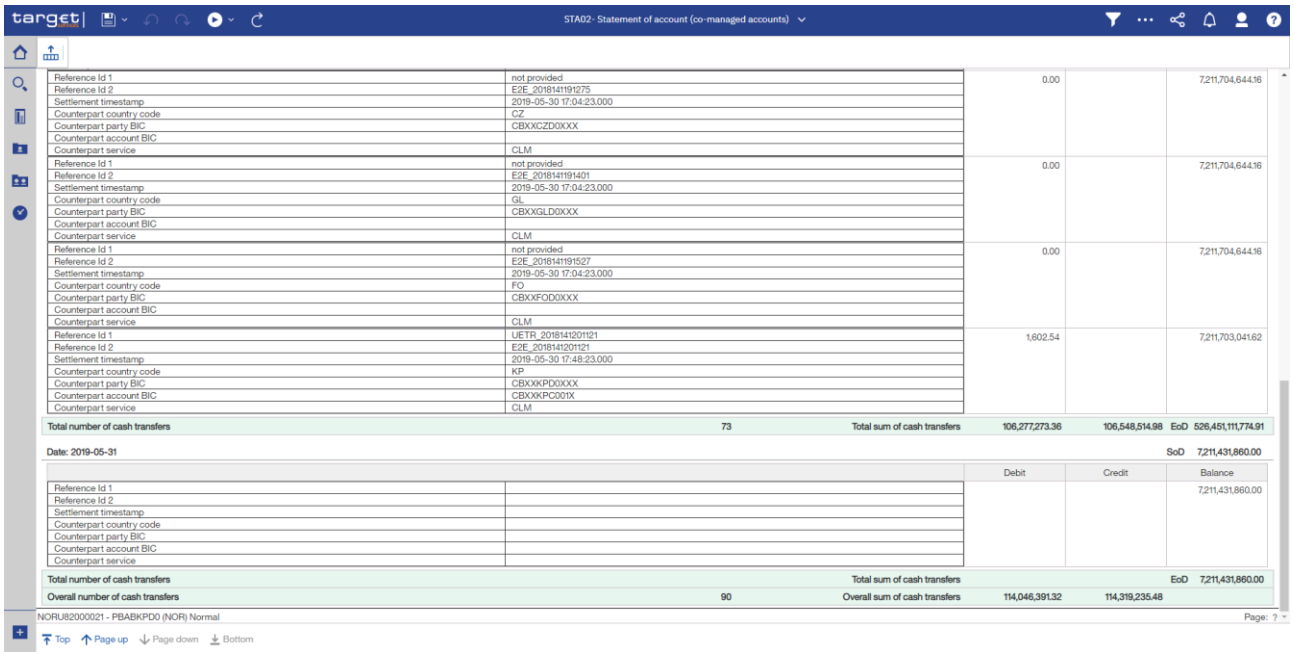

Figure 327 - STA02 output (2)

Output description

STA02 – Report description – output screen	
Field label	**Description**
Party Address	Street, house number, postal code and city of the selected co-manager
National Sorting Code	National sorting code of the selected Party
Currency	ISO currency code of the selected party
“Place and date” + City + date	City of the user’s party + current date. Used as place and date of creation of the report
“Created by” + Party BIC + Party short name	The user’s party. Used for information about the executor of the report in line “created by”
Account number	The following details are repeated per co-managed MCA (sorted by account number).
Date	Date of the Business day The following details are repeated per business day in the date range (sorted by date).
Balance of account (SoD)	Balance of account (SoD) is always shown, even if there is no cash transfer during the business day.
Reference Id 1	Depending on the message that caused the cash transfer, the following reference type is listed: - camt.050: Message ID (from BAH) - pacs.009: UETR - pacs.010: UETR - pain.998 ASTI: none[4] If no reference can be found, this field is left empty.
Reference Id 2	End To End ID If no reference can be found, this field is left empty. For AS cash transfer orders delivered via pain.998 ASTI message, the End-to-End ID is never available.[5]
Settlement timestamp	Settlement timestamp of the cash transfer
Counterparty country code	ISO country code of the counterparty
Counterparty party BIC	Party BIC of the counterparty
Counterparty account BIC	Account BIC of the counterparty; If no account BIC exists (e.g. for marginal lending accounts), the value “-“ is filled in

4 For cash transfer orders delivered via pain.998, the source system does not provide any business identifiers of the single transactions.

5 For cash transfer orders delivered via pain.998, the source system does not provide any business identifiers of the single transactions.

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Counterparty service	Service of the counterparty
Debit	Debited value of the cash transfer- If the settlement was debited
Credit	Credited value of the cash transfer - If the settlement was credited
Balance	Calculated balance of the account after the settlement of the cash transfer
Balance EoD	Balance of the account at the end of the business days Balance of account (EoD) is always shown, even if there is no cash transfer during the business day.
Total number of cash transfers	Total volume of cash transfers per business day
Total sum of cash transfers	Total value of cash transfers per business day
Overall number of cash transfers	Total volume over all business days within the selected date range
Overall sum of cash transfers	Total value over all business days within the selected date range
Balance EoD	EoD balance at the end of the date range

Table 108 - STA02 - Output description

5.14 Transaction reports (TRN)

5.14.1 TRN01 – Cash transfer (order) search and details

Context of usage

The report TRN01 offers the possibility to search for cash transfer orders/cash transfers using a set of (optional) filter criteria (including e.g. the UETR). For the resulting cash transfers/cash transfer orders it is possible to display the respective message and settlement details.

For CBs access to those cash transfers/cash transfer orders is granted where one of its parties is involved on the credit and/or the debit side.

From a prompt of the selection criteria screen the user either opts for the selection by reference or selection by business related criteria.

This report can be used by CB, PB and AS users.

Report access

This report can be reached in the following way:

[Team Content] >> [Predefined Reports] >> [TRN – Transaction Report] >> [TRN01]

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Screenshot – prompt

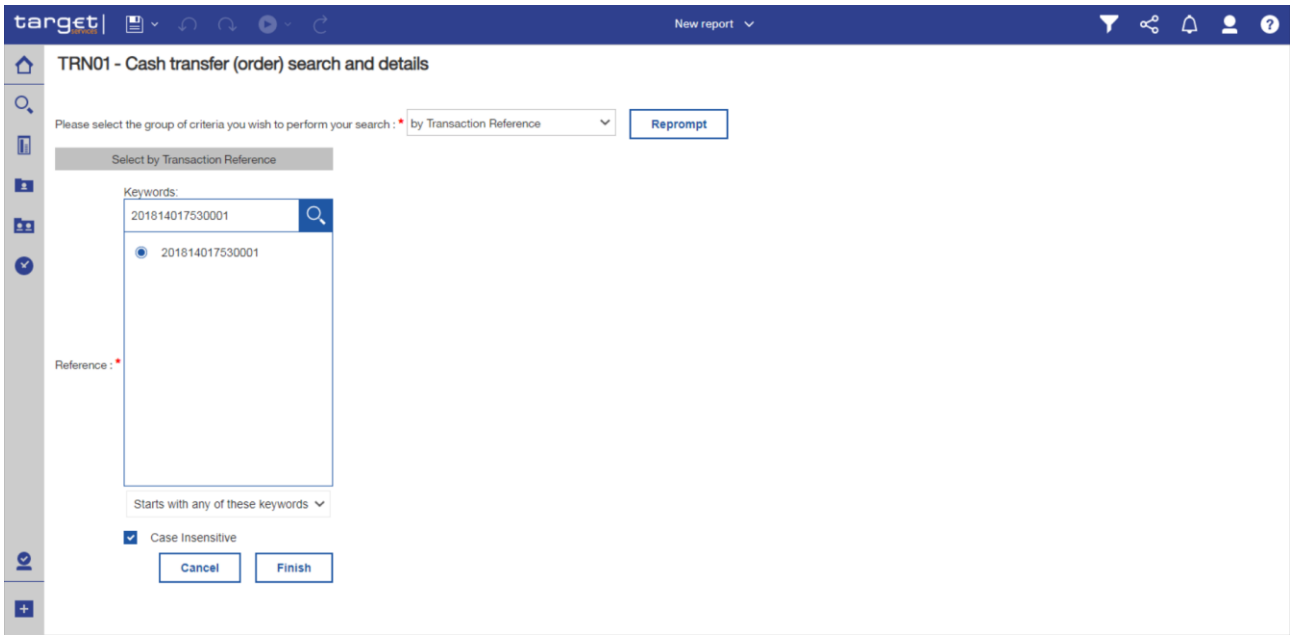

Figure 328 - TRN01 prompt (1) – by transaction reference

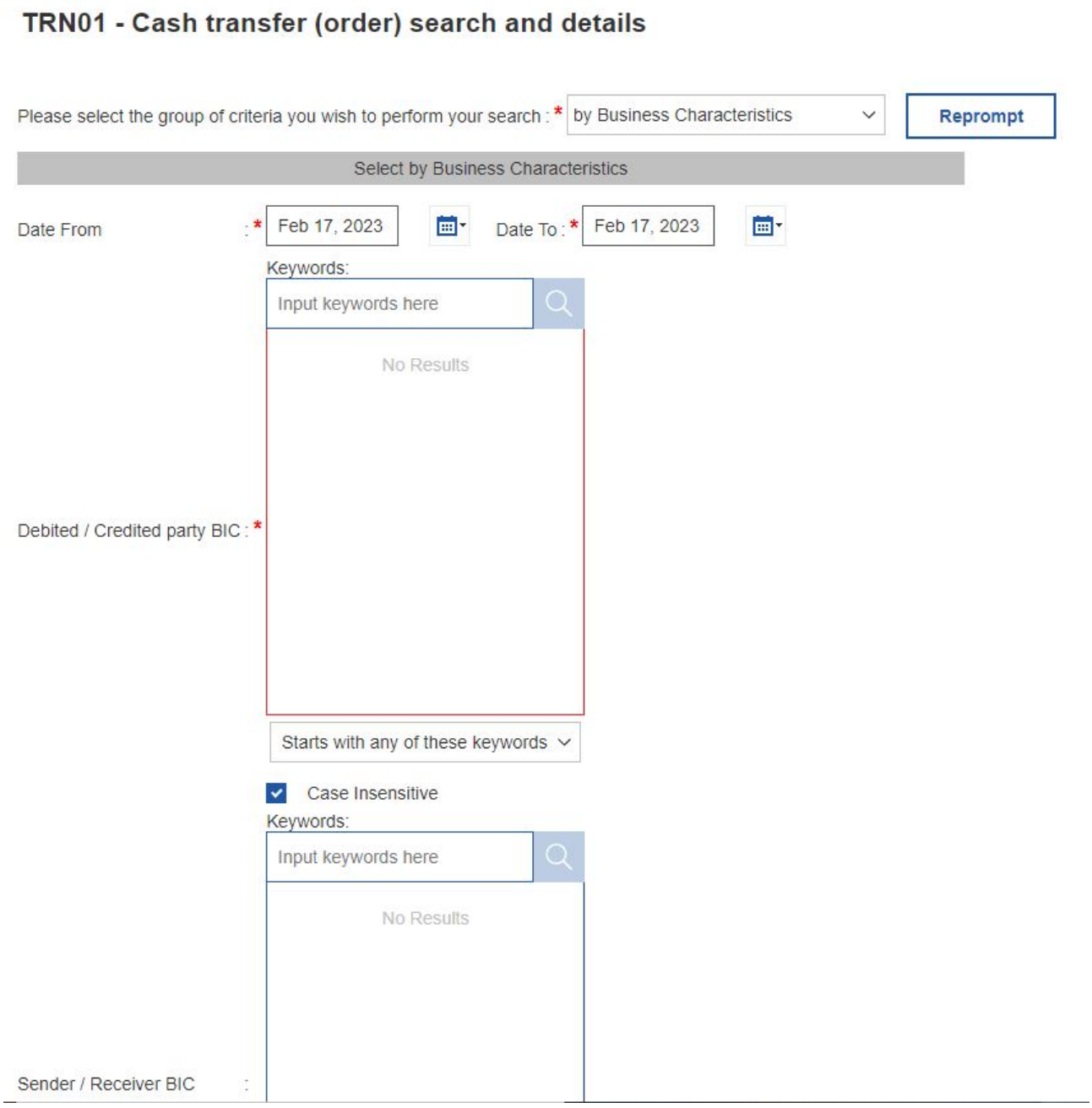

Figure 329 - TRN01 prompt (2) - by business characteristics

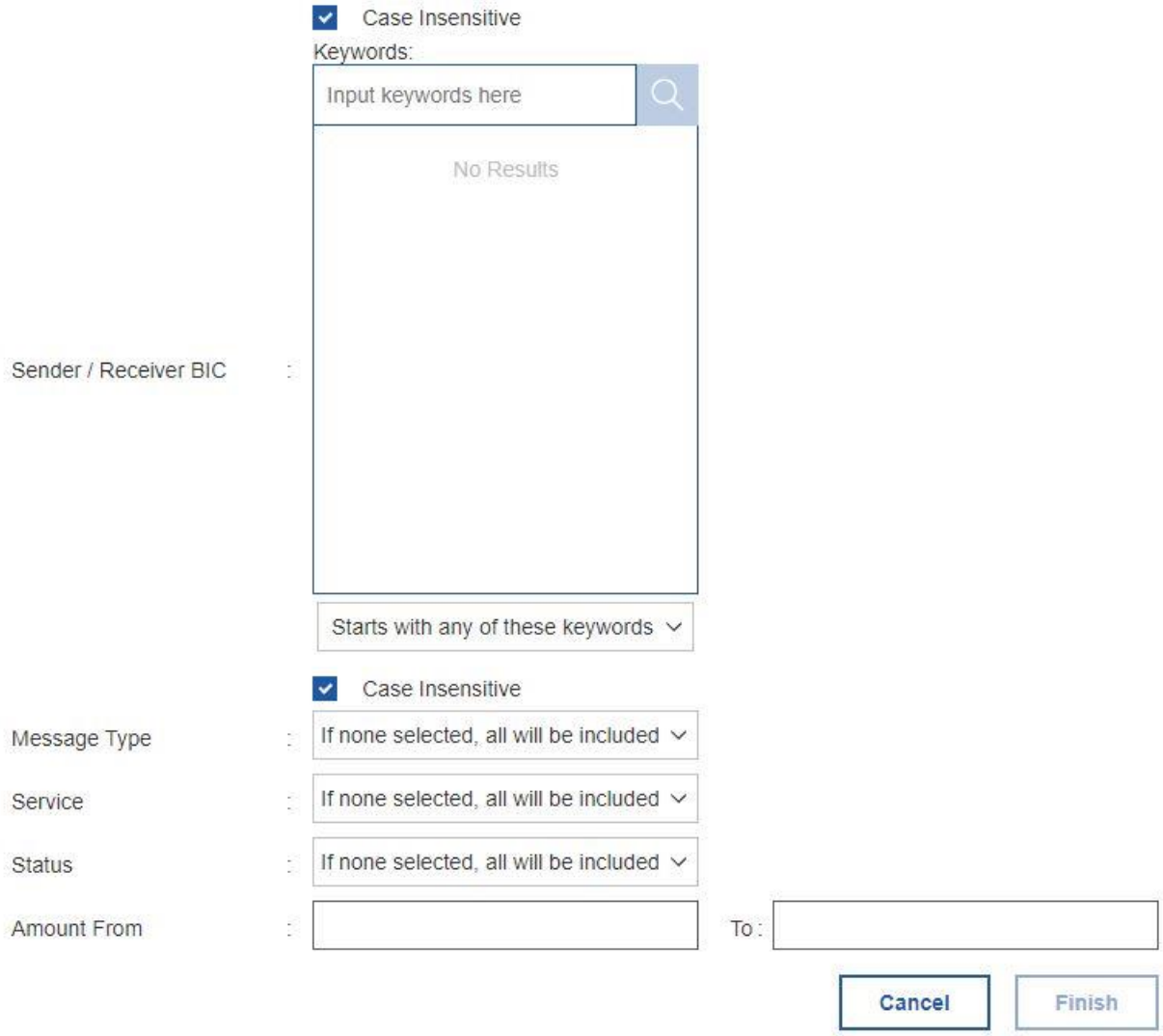

Figure 330 - TRN01 prompt (3) - by business characteristics

Prompt description

The TRN01 offers the possibility to execute the report in two ways. The first way is "**Select by Transaction Reference**" the other way is "**Search by Business Characteristics**".

Having chosen a selection by transaction reference, you may enter any reference such as message ID, a UETR, an End-To-End ID, an instruction ID etc.

Having chosen a selection by business related criteria, you can enter business related search criteria.

When the DWH finds at least one transaction, a view on all transactions, which match the entered business criteria is opened. Here you can choose a certain transaction by double click for a view on its detailed data.

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TRN01 – Report description – prompt screen	
Field label	**Description**
Search by transaction reference	
Reference	You can use this field to search with any reference that can be contained in a cash transfer. This field is mandatory.
Search by Business Characteristics	
Date From	You can select the date by clicking on the calendar. This field is mandatory.
Date To	You can select the end date of the period, for which the report should contain the data by clicking on the calendar. For valid report results, current day cannot be selected. This field is mandatory.
Debited / Credited party BIC	You can use this drop-down field to select the BIC of the debited resp. credited party. The possible values are built from parties within the user's data scope. This field is mandatory.
Sender/receiver BIC	You can use this drop-down field to select the BIC of the sending resp. receiving party The possible values are built from parties within the user's data scope. This field is optional.
Message Type	You can use this drop-down field to restrict the result list to one message type. Possible Values: l camt.050 l pacs.004 l pacs.008 l pacs.009

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	- pacs.010 - pain.998 (ASTI) This field is optional.
Service Type	This drop-down field offers the possibility to select between the services CLM or RTGS. This field is optional.
Status	You can use this drop-down field to restrict the result list to one status. Possible Values: - Partially settled - Revoked - Reversed - Rejected - Settled - Warehoused This field is optional.
Amount from/to	You can use these fields to search for a certain amount or amount range. This field is optional.

Table 109 - TRN01 - Prompt description

Screenshot - output screen

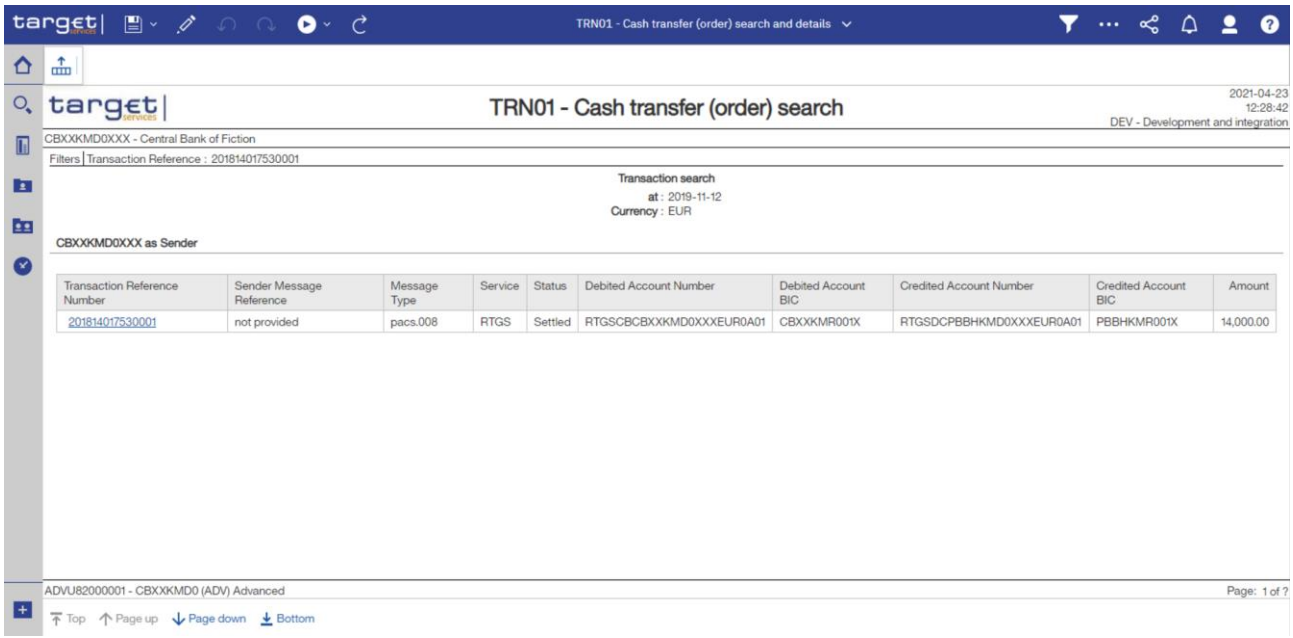


Figure 331 - TRN01 output (1) – by transaction reference

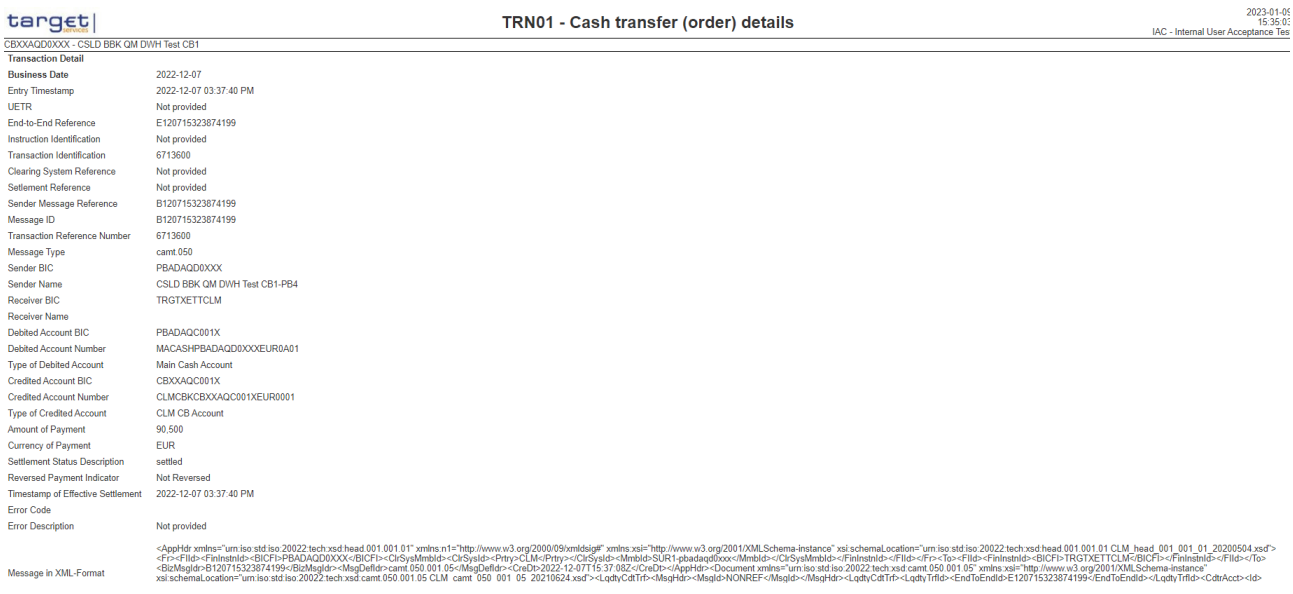
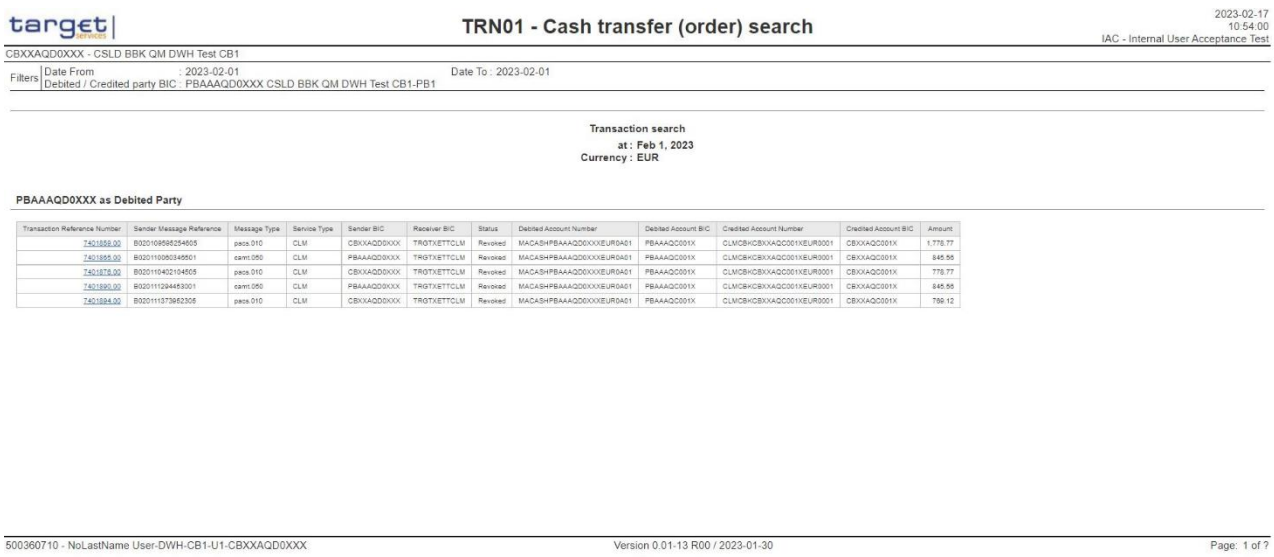


Figure 332 - TRN01 output (2) – details



target services

TRN01 - Cash transfer (order) search

2023-02-17
10:54:00
IAC - Internal User Acceptance Test

CBXXAQD0XXX - CSLD BBK QM DWH Test CB1

Filters | Date From : 2023-02-01 Date To : 2023-02-01
Debited / Credited party BIC : PBAAAQD0XXX CSLD BBK QM DWH Test CB1-PB1

Transaction search
at : Feb 1, 2023
Currency : EUR

PBAAAQD0XXX as Debited Party

Transaction Reference Number	Sender Message Reference	Message Type	Service Type	Sender BIC	Receiver BIC	Status	Debited Account Number	Debited Account BIC	Credited Account Number	Credited Account BIC	Amount
7401859.00	B020109595254605	pacs.010	CLM	CBXXAQD0XXX	TRGTXETTCLM	Revoked	MACASHPBAAAQD0XXXEUR0A01	PBAAAQC001X	CLMCBKCBXXAQC001XEUR0001	CBXXAQC001X	1,778.77
7401865.00	B020110060346501	camt.050	CLM	PBAAAQD0XXX	TRGTXETTCLM	Revoked	MACASHPBAAAQD0XXXEUR0A01	PBAAAQC001X	CLMCBKCBXXAQC001XEUR0001	CBXXAQC001X	845.56
7401878.00	B020110402104505	pacs.010	CLM	CBXXAQD0XXX	TRGTXETTCLM	Revoked	MACASHPBAAAQD0XXXEUR0A01	PBAAAQC001X	CLMCBKCBXXAQC001XEUR0001	CBXXAQC001X	778.77
7401890.00	B020111294453001	camt.050	CLM	PBAAAQD0XXX	TRGTXETTCLM	Revoked	MACASHPBAAAQD0XXXEUR0A01	PBAAAQC001X	CLMCBKCBXXAQC001XEUR0001	CBXXAQC001X	845.56
7401894.00	B020111373952305	pacs.010	CLM	CBXXAQD0XXX	TRGTXETTCLM	Revoked	MACASHPBAAAQD0XXXEUR0A01	PBAAAQC001X	CLMCBKCBXXAQC001XEUR0001	CBXXAQC001X	799.12

500360710 - NoLastName User-DWH-CB1-U1-CBXXAQD0XXX Version 0.01-13 R00 / 2023-01-30 Page: 1 of 7

Figure 333 - TRN01 output (3) - by business characteristics

target services

TRN01 - Cash transfer (order) details

2023-02-17
10:55:25
IAC - Internal User Acceptance Test

CBXXAQD0XXX - CSLD BBK QM DWH Test CB1

Transaction Detail

Business Date	2023-02-01
Entry Timestamp	2023-02-01 10:00:39.363
UETR	466b59d9-4f73-4211-8cd5-c3b621db2971
End-to-End Reference	E020109595254605
Instruction Identification	TC13
Transaction Identification	7401859
Clearing System Reference	Not provided
Settlement Reference	Not provided
Sender Message Reference	B020109595254605
Message ID	B020109595254605
Transaction Reference Number	7401859
Message Type	pacs.010
Sender BIC	CBXXAQD0XXX
Sender Name	CSLD BBK QM DWH Test CB1
Receiver BIC	TRGTXETTCLM
Receiver Name	
Debited Party BIC	PBAAAQD0XXX
Debited Party Name	CSLD BBK QM DWH Test CB1-PB1
Credited Party BIC	CBXXAQD0XXX
Credited Party Name	CSLD BBK QM DWH Test CB1
Debited Account BIC	PBAAAQC001X
Debited Account Number	MACASHPBAAAQD0XXXEUR0A01
Type of Debited Account	Main Cash Account
Credited Account BIC	CBXXAQC001X
Credited Account Number	CLMCBKCBXXAQC001XEUR0001
Type of Credited Account	CLM CB Account
Amount of Payment	1,778.77
Currency of Payment	EUR

Figure 334 - TRN01 output (4) – details

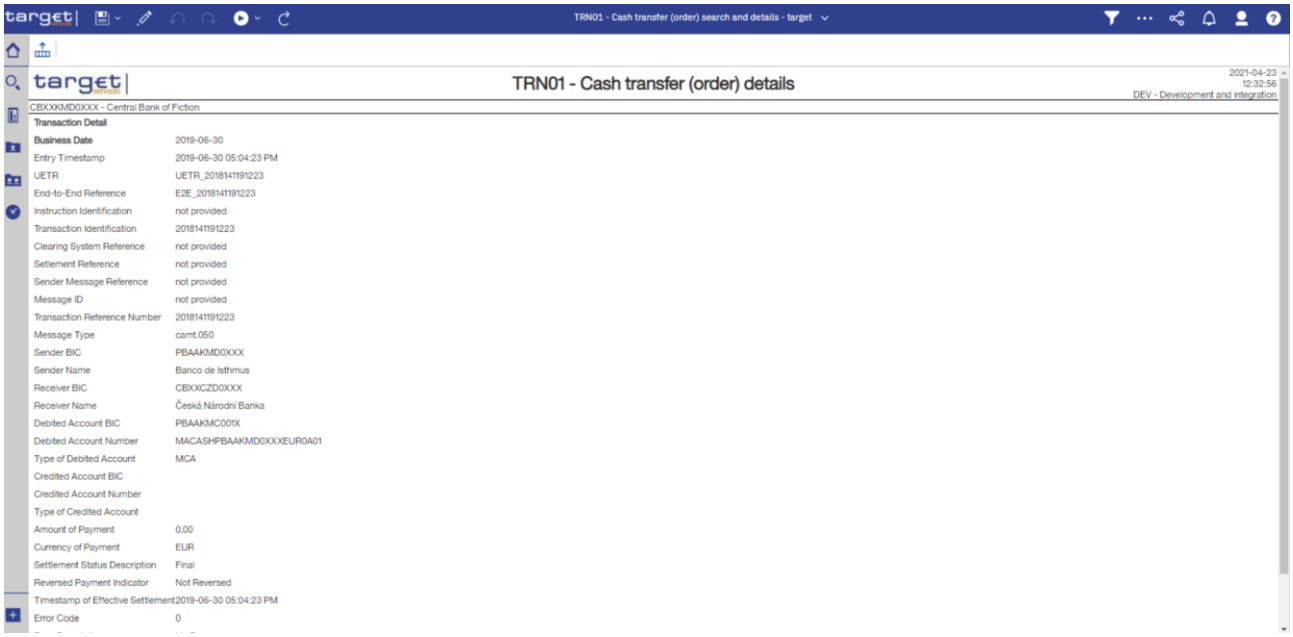


Figure 335 - TRN01 output (5) - details

Output description

TRN01 – Report description – output screen – list of cash transfers	
Field label	**Description**
Date	Above the table you can see the date of the transaction search “at”
Currency	Above the table you can see the currency of the transaction
One table for “**Debited party BIC**” and one table for “**Credited party BIC**”. In each table every cash transfer order is listed with following data (sorted by transaction reference number):	
Transaction Reference Number	Transaction reference; technical identifier of the transfer.
Sender Message Reference	Identification of the message, which is delivered by the sender.
Message Type	Message type Possible values: - camt.050 - pacs.004 - pacs.008 - pacs.009 - pacs.010 - pain.998 (ASTI)

	• Unknown
Service	Service for which the data is displayed. Possible values: • CLM • RTGS
Sender BIC	BIC of the sending party (can be empty)
Receiver BIC	BIC of the receiving party (can be empty)
Status	Status of the cash transfer order. Possible values: • Warehoused • Settled • Reversed • Revoked • Rejected • Cancelled
Debited Account Number	Debited account number The account number is not displayed if it does not belong to data scope of the user.
Debited Account BIC	Debited account BIC
Credited Account Number	Credited account number The account number is not displayed if it does not belong to data scope of the user.
Credited Account BIC	The BIC of the credited account
Amount	Amount of payment

Table 110 - TRN01 - Output description

TRN01 – Report description – details	
Field label	**Description**
Entry Timestamp	Timestamp of entry in CLM/RTGS

UETR	Universal-End-to-End-Transaction Reference[6]
End-to-End Reference	End-to-End-Transaction Reference[7]
Instruction Identification	Instruction Identification[8]
Transaction Identification	Transaction Identification[9]
Clearing System Reference	Clearing System Reference[10]
Settlement Reference	Settlement Reference[11]
Sender Message Reference	Sender Message Reference[12]
Message ID	Message ID
Transaction Reference Number	Technical Identifier of the transfer
Message Type	Message Type Possible values: - camt.050 - pacs.004 - pacs.008 - pacs.009 - pacs.010 - pain.998 (ASTI)
Sender BIC	Party BIC of the sender (can be empty)
Sender Name	Sender Name (can be empty)
Receiver BIC	Party BIC of the receiver (can be empty)

6 For cash transfer orders delivered via pain.998, the source system does not provide any business identifiers of the single transactions so the reference and identification fields are empty for those cash transfer orders.

7 For cash transfer orders delivered via pain.998, the source system does not provide any business identifiers of the single transactions so the reference and identification fields are empty for those cash transfer orders.

8 For cash transfer orders delivered via pain.998, the source system does not provide any business identifiers of the single transactions so the reference and identification fields are empty for those cash transfer orders.

9 For cash transfer orders delivered via pain.998, the source system does not provide any business identifiers of the single transactions so the reference and identification fields are empty for those cash transfer orders.

10 For cash transfer orders delivered via pain.998, the source system does not provide any business identifiers of the single transactions so the reference and identification fields are empty for those cash transfer orders.

11 For cash transfer orders delivered via pain.998, the source system does not provide any business identifiers of the single transactions so the reference and identification fields are empty for those cash transfer orders.

12 For cash transfer orders delivered via pain.998, the source system does not provide any business identifiers of the single transactions so the reference and identification fields are empty for those cash transfer orders.

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Receiver Name	Receiver name (can be empty)
Debited party BIC	Debited party BIC
Debited party name	Debited party name
Credited party BIC	Credited party BIC
Credited party name	Credited party name
Debited Account BIC	Debited account BIC
Debited Account Number	Debited account number The account number is not displayed if it does not belong to data scope of the user.
Type of Debited Account	Type of debited account Possible Values: - RTGS DCA - RTGS CB account - AS guarantee funds account - RTGS sub-account - AS technical account - CLM dedicated transit account in RTGS - MCA - CLM CB account - Overnight deposit account - Marginal lending account - ECB mirror account - CB ECB account - Technical account for CONT settlement - T2S dedicated transit account in CLM - TIPS dedicated transit account in CLM - RTGS dedicated transit account in CLM
Credited Account BIC	Credited account BIC
Credited Account Number	Credited account number The account number is not displayed if it does not belong to data scope of the user.
Type of Credited Account	Type of credited account

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	Possible Values: - RTGS DCA - RTGS CB account - AS guarantee funds account - RTGS sub-account - AS technical account - CLM dedicated transit account in RTGS - MCA - CLM CB account - Overnight deposit account - Marginal lending account - ECB mirror account - CB ECB account - Technical account for CONT settlement - T2S dedicated transit account in CLM - TIPS dedicated transit account in CLM - RTGS dedicated transit account in CLM
Amount of Payment	Amount of payment
Currency of Payment	Currency of payment
Settlement Status Description	Status description. - Warehoused - Settled - Rejected - Reversed - Revoked - Cancelled
Reversed Payment Indicator	Reversed payment indicator. Possible values: - “not reversed” - “is a reversed” - “has been reversed”
Timestamp of Effective Settlement	Date and time of effective settlement

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Error Code	Error code (if provided)
Error Description	Error description (if provided)
Message in XML-Format	Original message in XML format. Only the payload of the message will be displayed, not the BAH.

Table 111 - TRN01 - Report description - Details

5.14.2 TRN02 – Monthly overview of domestic and cross-border payments

Context of usage

The report TRN02 provides information on the monthly volume and value of payments in RTGS differentiated by domestic and cross-border traffic. Separate tables for interbank and customer payments are displayed. For CBs information on all of its payment banks the figures are shown sorted by name and BIC.

This report can be used by CB and PB users

Report access

This report can be reached in the following way:

[Team Content] >> [Predefined Reports] >> [TRN – Transaction Report] >> [TRN02]

Screenshot – prompt

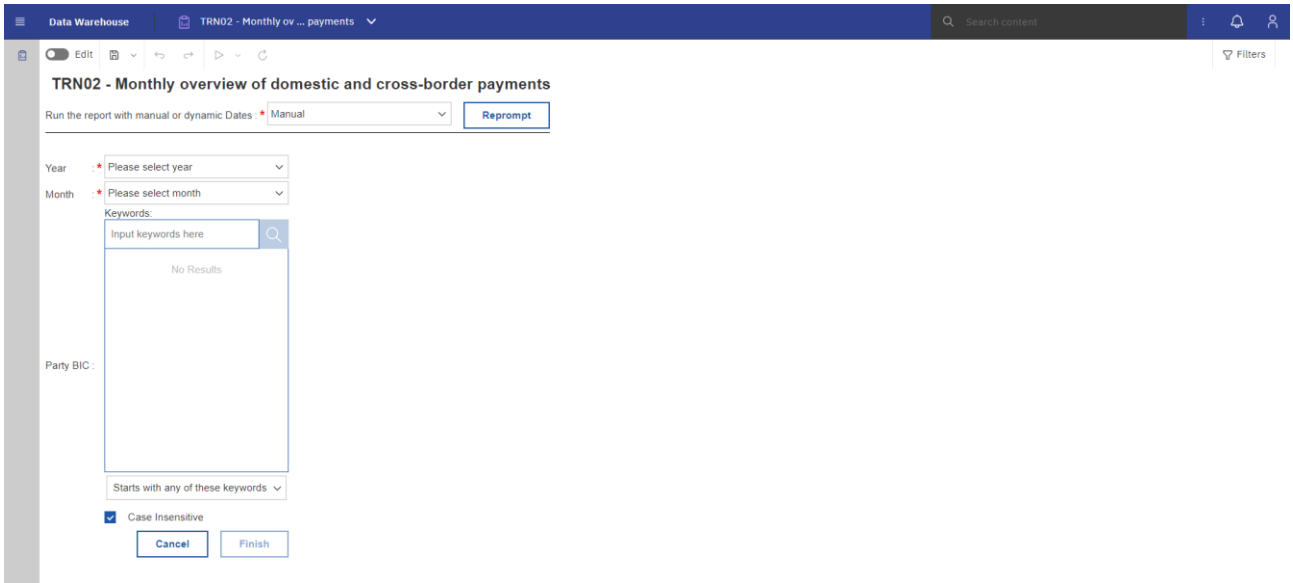

Figure 336 - TRN02 prompt – Manual

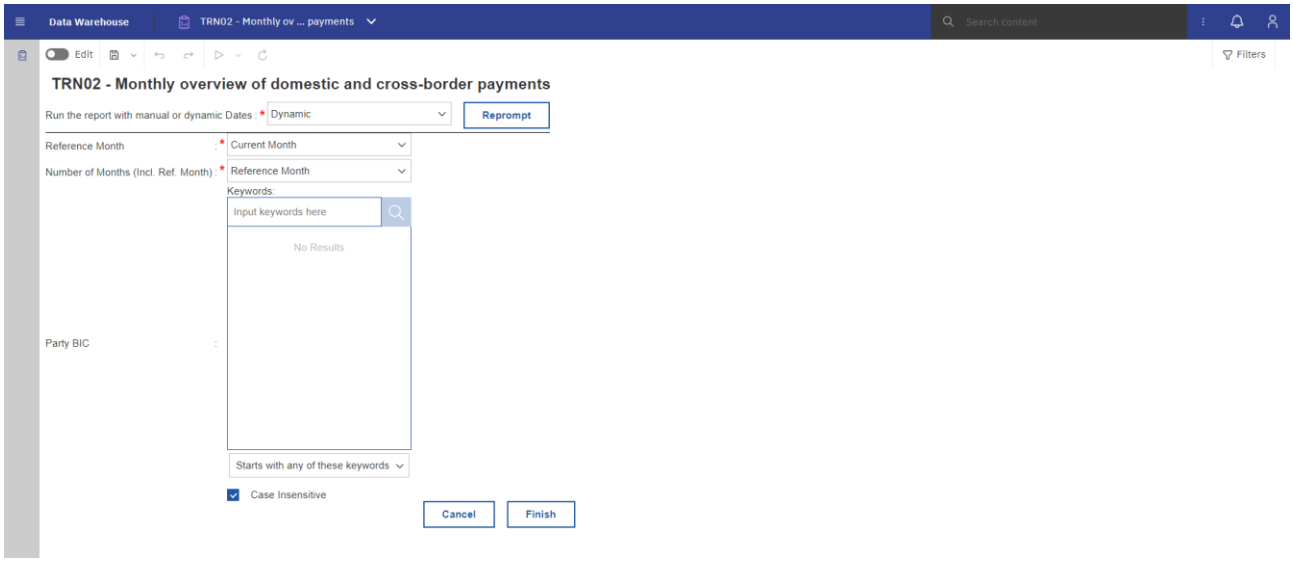

Figure 337 - TRN02 prompt - Dynamic

Prompt description

TRN02 – **Report description** – **prompt screen** - Manual	
Filed label	**Description**
Year	You can use this drop-down to select the year, from which the report should contain the data. This field is mandatory.
Month	You can use this drop-down field to select the month, from which the report should contain the data. For valid report results, the current month cannot be selected. This field is mandatory.
Party BIC	You can use this drop-down field to select the party BIC. This field will show all related BIC´s, which belong to the party. This field is optional.

Table 112 - TRN02 - Prompt description - Manual

TRN02 – Report description – prompt screen - Dynamic	
Filed label	**Description**
Reference Month	Indicates the end-point of the date range for which the dynamic report should contain data. Valid values: - Current Month - Previous Month This field is mandatory.
Number of Months (incl. Ref. Month)	Indicates the start-point of the date range for which the dynamic report should contain data. The system will automatically calculate the start of the date range based upon the date at the time of execution. This field is mandatory.
Party BIC	You can use this drop-down field to select the party BIC. This field will show all related BIC´s, which belong to the party. This field is optional.

Table 113 - TRN02 - Prompt description - Dynamic

Screenshot - output screen

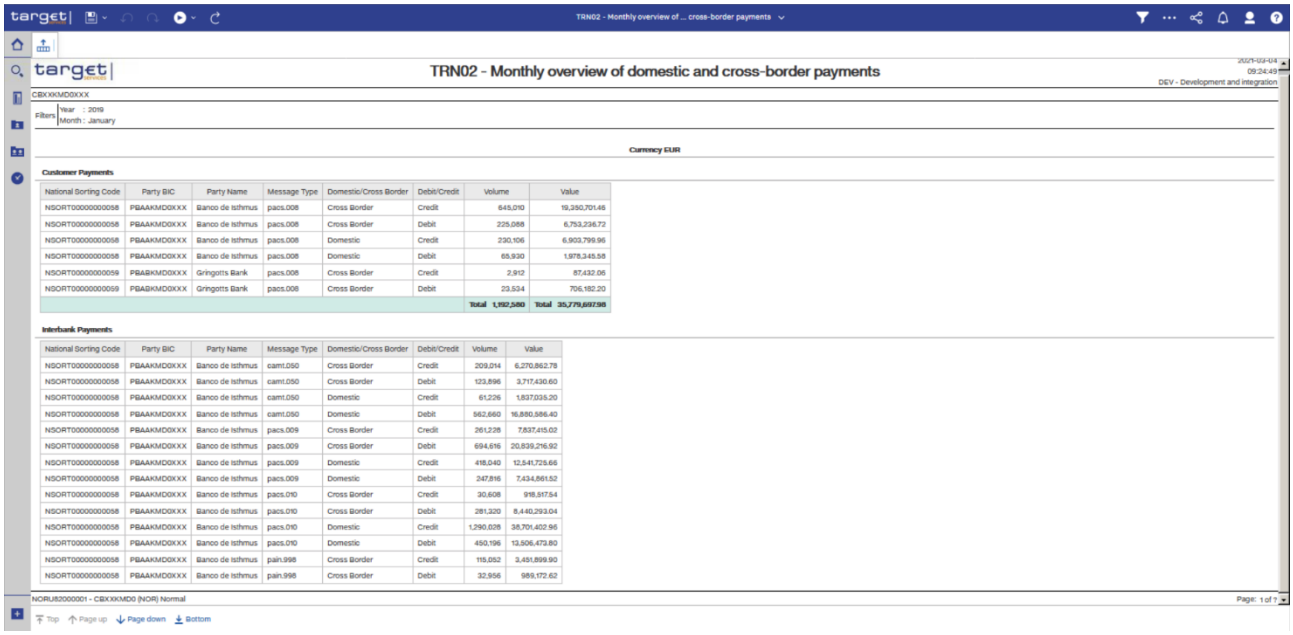

Figure 338 - TRN02 output (1)

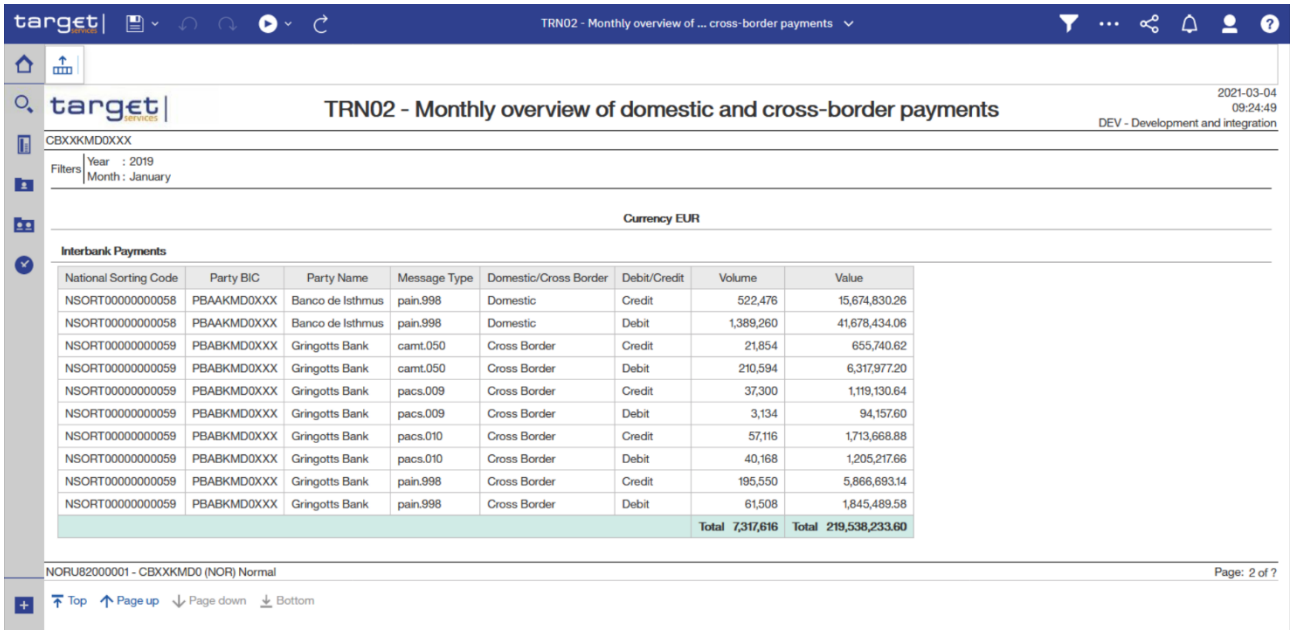

Figure 339 - TRN02 output (2)

Output description

TRN02 – Report description – output screen	
The currency will be displayed above the table	
Field label	**Description**
One table for “Interbank payments” and one table for “Customer payments” with following data, sorted by message type and then by party BIC:	
National Sorting Code	National Sorting Code of the participant
Party BIC	BIC of Party
Party Name	Short name of the party;
Message Type	Message type. Possible Values: - camt.050 - pacs.004 - pacs.008 - pacs.009 - pacs.010 - pain.998 (ASTI)

Domestic/Cross Border	Mark, which identifies whether the displayed aggregation refers to domestic or cross border payments. Possible values: - Domestic - Cross Border
Debit/Credit	"Debit" or "Credit" are displayed.
Volume	Number of payments per party, message type, domestic/cross border payment and debit/credit
Value	Sum of payments per party, message type, domestic/cross border payment and debit/credit
Total	Total of volumes and values listed in the preceding rows. Recalculated automatically on the base of a data subset when the user uses filters.

Table 114 - TRN02 - Output description

5.14.3 TRN03 – Monthly peak day and peak hour in terms of volume and value of cash transfer orders

Context of usage

The report TRN03 provides information on the peak hour and peak day within a given month (range) in terms of volume and value of cash transfer orders in CLM or in RTGS. Within given time intervals the report TRN03 identifies peaks in volume and peaks in value of cash transfer orders grouped by their status. This report runs on the system entity level/ CB level.

This report can be used by CB and PB users.

Report access

This report can be reached in the following way:

[Team Content] >> [Predefined Reports] >> [TRN – Transaction Report] >> [TRN03]

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Screenshot – prompt

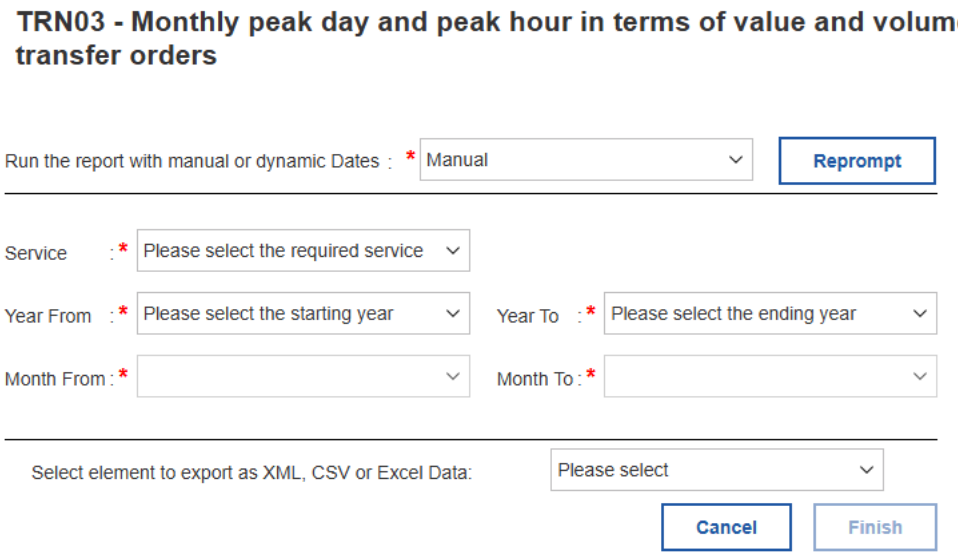


Figure 340 - TRN03 prompt - Manual

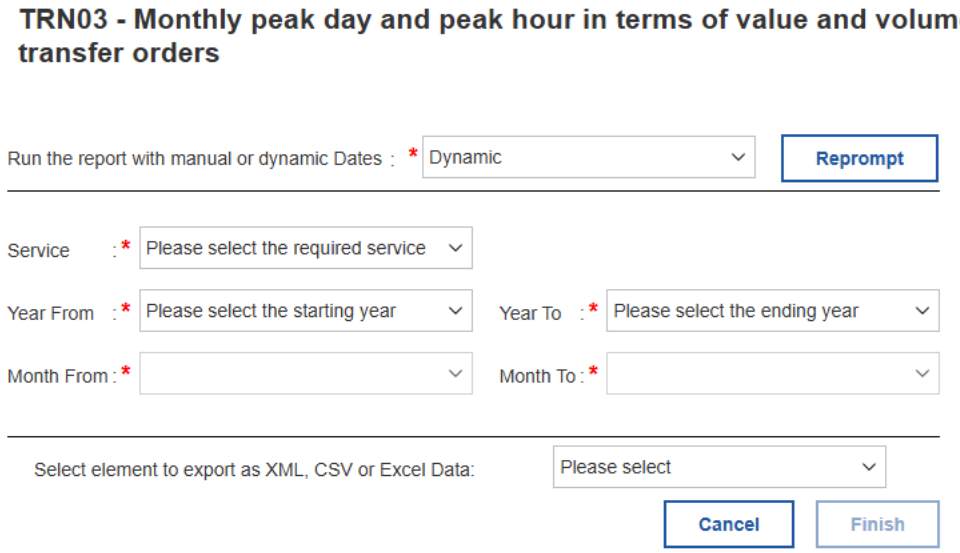


Figure 341 - TRN03 prompt - Dynamic

Prompt description

TRN03 – Report description – prompt screen - Manual	
Field label	**Description**
Service	You can use this drop-down field to select between the services.

	Possible values: - CLM, - RTGS. This field is mandatory.
Year From	You can use this drop-down field to select the year, from which the report should contain the data. This field is mandatory.
Month From	You can use this drop-down field to select the month, from which the report should contain the data. For a valid report result, it is necessary to select at least the previous month. This field is mandatory.
Year To	You can use this drop-down field to select the end date of the period, for which the report should contain the data. This field is mandatory
Month To	You can use this drop-down field to select the end date of the period, for which the report should contain the data. For a valid report result, it is necessary to select at least the previous month. This field is mandatory.
Select element to export as XML, CSV or Excel Data	- Monthly peak day (volume) - Monthly peak day (value) - Monthly peak hour (volume) - Monthly hour day (value) This field is optional.

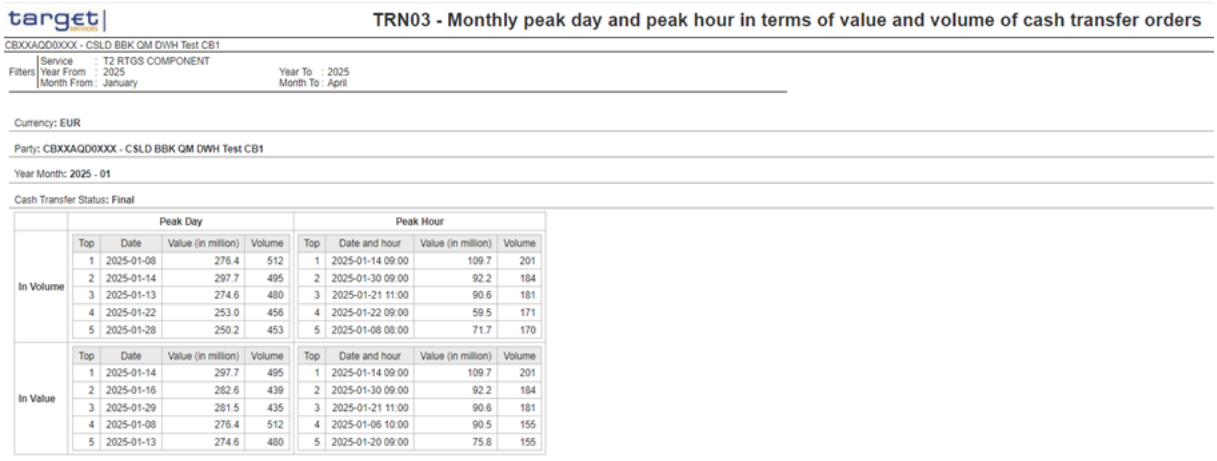
Table 115 - TRN03 - Prompt description - Manual

TRN03 – Report description – prompt screen - Dynamic	
Field label	**Description**
Service	You can use this drop-down field to select between the services.

	Possible values: • CLM, • RTGS. This field is mandatory.
Reference Month	Indicates the end-point of the date range for which the dynamic report should contain data. Valid values: • Current Month • Previous Month This field is mandatory.
Number of Months (incl. Ref. Month)	Indicates the start-point of the date range for which the dynamic report should contain data. The system will automatically calculate the start of the date range based upon the date at the time of execution. This field is mandatory.
Select element to export as XML, CSV or Excel Data	• Monthly peak day (volume) • Monthly peak day (value) • Monthly peak hour (volume) • Monthly peak hour (value) This field is optional.

Table 116 - TRN03 - Prompt description – Dynamic

Screenshot - output screen



target | TRN03 - Monthly peak day and peak hour in terms of value and volume of cash transfer orders

CBXXAQD0XXX - CSLD BBK QM DWH Test CB1

Filters: Service : T2 RTGS COMPONENT; Year From : 2025; Month From : January; Year To : 2025; Month To : April

Currency: EUR

Party: CBXXAQD0XXX - CSLD BBK QM DWH Test CB1

Year Month: 2025 - 01

Cash Transfer Status: Final

	Peak Day				Peak Hour			
	Top	Date	Value (in million)	Volume	Top	Date and hour	Value (in million)	Volume
In Volume	1	2025-01-08	276.4	512	1	2025-01-14 09:00	109.7	201
	2	2025-01-14	297.7	495	2	2025-01-30 09:00	92.2	184
	3	2025-01-13	274.6	480	3	2025-01-21 11:00	90.6	181
	4	2025-01-22	253.0	456	4	2025-01-22 09:00	59.5	171
	5	2025-01-28	250.2	453	5	2025-01-08 08:00	71.7	170
	Top	Date	Value (in million)	Volume	Top	Date and hour	Value (in million)	Volume
In Value	1	2025-01-14	297.7	495	1	2025-01-14 09:00	109.7	201
	2	2025-01-16	282.6	439	2	2025-01-30 09:00	92.2	184
	3	2025-01-29	281.5	435	3	2025-01-21 11:00	90.6	181
	4	2025-01-08	276.4	512	4	2025-01-06 10:00	90.5	155
	5	2025-01-13	274.6	480	5	2025-01-20 09:00	75.8	155

Figure 342 - TRN03 output

The report result is separated into two blocks, one for transfer orders in volume and the other one for transfer orders in value. Within this blocks there is a further segmentation in “Peak Day” and “Peak Hour” for the selected time period. For every segmentation the report will display the Top 5 results. If one or several results are identical, the report result will be extended by another result.

The report result shows the date, date and hour, volume and value of all cash transfer orders/final cash transfer orders/not settled cash transfer orders and cancelled cash transfer orders

Output description

TRN03 – Report description – output screen	
Field label	**Description**
Currency	Displays the ISO currency code of the user.
Party	The CB and party short name of the user are shown. Both values are separated by a hyphen “-“
Year Month	Repeatable block for every month/year in the range beginning with the oldest.
Cash transfer status	Repeatable block for “All cash transfer orders”, “Final cash transfer orders”, “Not settled cash transfer orders” and “Cancelled cash transfer orders” within every month. Possible values are: - All - Final - Not settled - Cancelled Please note that ‘All’ is not the value of a single status but the group covering all states from ‘Cancelled’ to ‘Not settled’.
Peak day – in volume	
Top	Numbers 1 through 5, each in a single row
Date	Date of the peak day this row refers to
Value (in million)	Sum of the value of all cash transfer orders/all final cash transfer orders/all not settled cash transfer orders this row refers to million of the given currency commercially rounded.
Volume	Number of all cash transfer orders/all final cash transfer orders/all not settled cash transfer orders this row refers to.
Peak day – in value	

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Top	Numbers 1 through 5, each in a single row
Date	Date of the peak day this row refers to
Value (in million)	Sum of the value of all cash transfer orders/all final cash transfer orders/all not settled cash transfer orders this row refers to million of the given currency, commercially rounded.
Volume	Number of all cash transfer orders/all final cash transfer orders/all not settled cash transfer orders this row refers to.
Peak hour – in volume	
Top	Numbers 1 through 5, each in a single row
Date and hour	Date and hour (as range) this row refers to: yyyy-mm-dd hh.mm – hh.mm (from 00:00 – 00:59 till 23:00 – 23:59)
Value (in million)	Sum of the value of all cash transfer orders/all final cash transfer orders/all not settled cash transfer orders this row refers to million in the given currency, commercially rounded.
Volume	Number of all cash transfer orders/all final cash transfer orders/all not settled cash transfer orders this row refers to
Peak hour – in value	
Top	Numbers 1 through 5, each in a single row
Date and hour	Date and hour (as range) this row refers to: yyyy-mm-dd hh:mm – hh:mm (from 00:00 – 00:59 till 23:00 – 23:59)
Value (in million)	Sum of the value of all cash transfer orders/all final cash transfer orders/all not settled cash transfer orders this row refers to in million in the given currency, commercially rounded.
Volume	Number of all cash transfer orders/all final cash transfer orders/all not settled cash transfer orders this row refers to.

Table 117 - TRN03 - Output description

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5.14.4 TRN04 – Cash transfers per time band and per CB

Context of usage

The report TRN04 provides information on the total volume and value of cash transfers per time band of 15 minutes on a chosen business day. Cash transfers in CLM and RTGS are reported in separate report Tables.

Volume and value Figures are reported separate for domestic (only debits) and cross-border (differentiated by debits and credits) cash transfers. In addition, cumulated volume and value Figures are displayed.

CBs can retrieve information on cash transfers of parties belonging to their system entity.

This report can be used by CB users only.

Report access

This report can be reached in the following way:

[Team Content] >> [Predefined Reports] >> [TRN – Transaction Report] >> [TRN04]

Screenshot – prompt

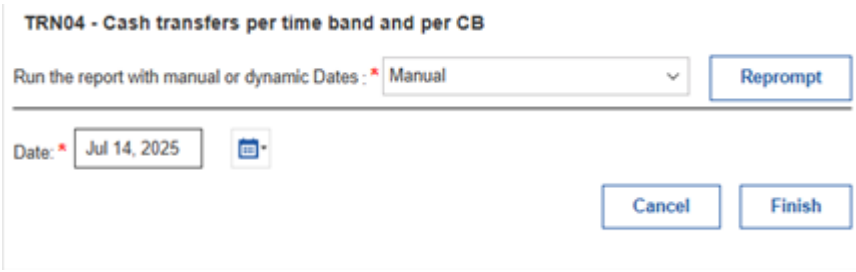

Figure 343 - TRN04 prompt – Manual {CR-173}

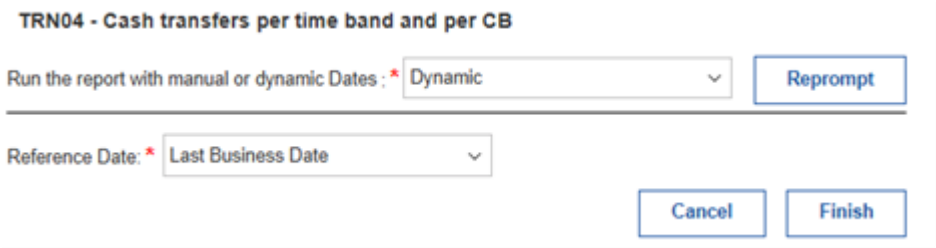

Figure 344 - TRN04 prompt – Dynamic {CR-173}

Prompt description

TRN04 – Report description – prompt screen - Manual	
Field label	**Description**
Date	You can specify the business day by clicking on the calendar. For valid report results, the current day cannot be selected. This field is mandatory.

Table 118 - TRN04 - Prompt description - Manual

TRN04 – Report description – prompt screen - Dynamic	
Field label	**Description**
Reference Date	Indicates the end-point of the date range for which the dynamic report should contain data. Valid values: - Last Business Date - Prior Last Business Date This field is mandatory.

Table 119 - TRN04 - Prompt description – Dynamic

Screenshot - output screen

Cash transfers per time band and CB | Evolution of cash transfer volumes (Graph) | Evolution of cash transfer values (Graph)

target services

TRN04 - Cash transfers per time band and per CB

CBXXAQD0XXX - CSLD BBK QM DWH Test CB1

Filters| Date: 2025-02-18

Service : T2 RTGS COMPONENT
Currency : EUR

	Volume				Value			
Time band	Domestic	Cross border debited	Cross border credited	Cumulated volume	Domestic	Cross border debited	Cross border credited	Cumulated value
before 19:00	0	3	0	3	0.00	205.98	0.00	205.98
12:00	7	0	0	7	10,351.06	0.00	0.00	10,351.06
12:15	21	0	2	23	218,766,003.45	0.00	2,266,316.36	221,032,319.81
12:30	27	8	3	38	193,565,823.22	8,798,795.12	3,266,249.37	205,630,867.71
12:45	22	2	1	25	167,266,438.66	2,000,046.04	1,000,023.01	170,266,507.71
13:00	20	2	1	23	420,306,603.95	2,000,086.04	1,000,043.01	423,306,733.00
13:15	36	6	5	47	242,375,945.39	401,183.41	1,399,487.55	244,176,616.35
13:30	31	14	2	47	226,075,226.42	4,049,331.83	1,033,172.19	231,157,730.44
13:45	11	6	0	17	609,206.13	8,894.33	0.00	618,100.46
14:00	2	1	1	4	550,580,042.60	778.86	64,026,642.36	614,607,463.82
14:15	0	1	0	1	0.00	778.82	0.00	778.82
14:30	0	1	0	1	0.00	859.12	0.00	859.12
14:45	0	1	0	1	0.00	819.12	0.00	819.12
15:15	11	0	0	11	319,602.24	0.00	0.00	319,602.24
15:45	15	0	0	15	22,306,969.72	0.00	0.00	22,306,969.72
16:00	3	0	0	3	3.63	0.00	0.00	3.63
16:15	6	0	0	6	6,000,082.15	0.00	0.00	6,000,082.15
Total	**212**	**45**	**15**	**272**	**2,048,182,298.62**	**17,261,778.67**	**73,991,933.85**	**2,139,436,011.14**

Figure 345 - TRN04 output - Cash transfers per time band and CB

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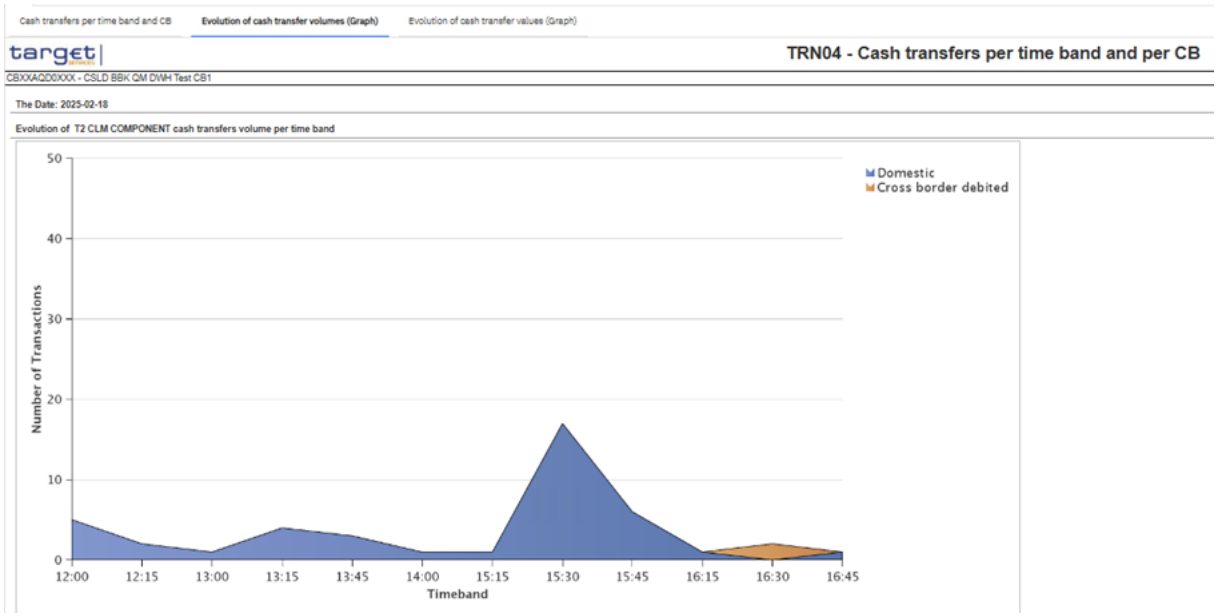

Figure 346 - TRN04 output – Evolution of cash transfer volumes (Graph)

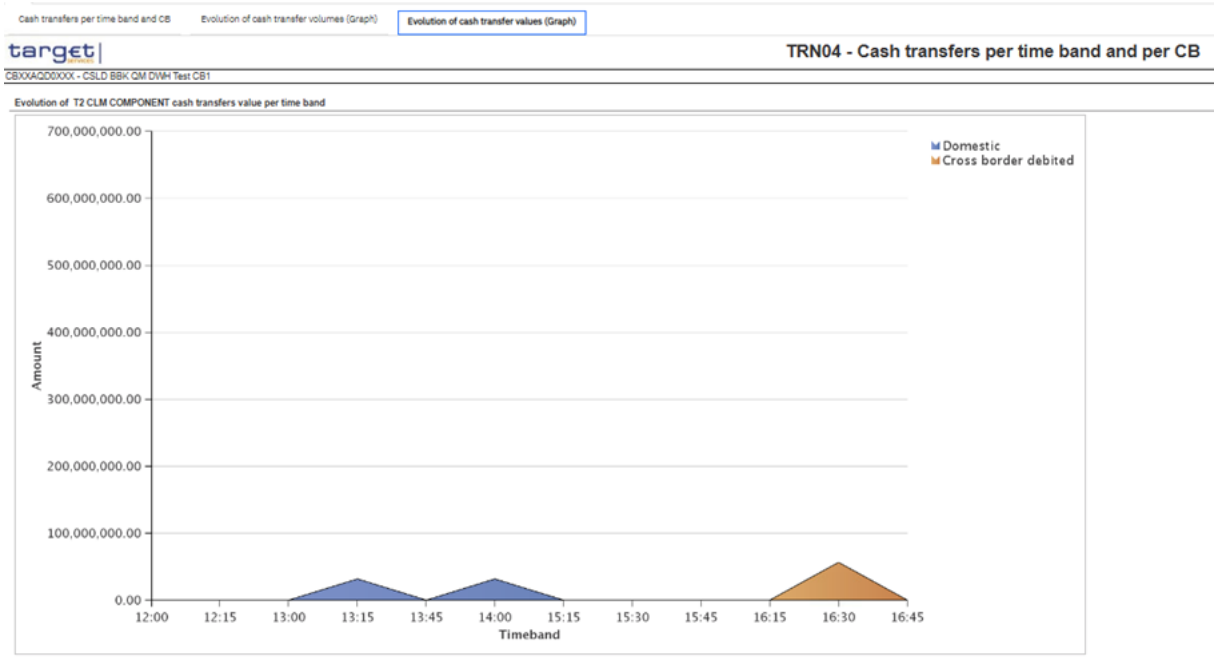

Figure 347 - TRN04 output – Evolution of cash transfer values (Graph)

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Output description

TRN04 – Report description – output screen	
Field label	**Description**
Service	Shows the service which the displayed data is shown for
Currency	Shows the ISO currency code
Time band	Time band in 15 minutes intervals: Time band in 15 minutes intervals: Before 19:00 (beginning with start of the business day), 19:00, 19:15, 19:30, (etc. in 15 minutes steps), 18:00, after 18:00 (ending with EoD)
Volume domestic	Volume of domestic cash transfers (only debits) per time band
Volume cross border	Volume of debited cross border cash transfers per time band
Volume cross border	Volume of credited cross border cash transfers per time band
Volume cumulated volume	Sum of all three volumes per time band
Value domestic	Value of domestic cash transfers (only debits) per time band
Value cross border debited	Value of debited cross border cash transfers per time band
Value cross border credited	Value of credited cross border cash transfers per time band
Value cumulated value	Sum of all three values per time band
Total	Overall Sum of the volumes/values types over all time bands
Graph 1	Evolution of CLM/RTGS cash transfer volumes per time band". Four different lines stacked areas in different colours representing the values in the table on previous page.
Graph 2	Evolution of CLM/RTGS cash transfer values per time band". Four different lines stacked areas in different colours representing the values in the table on previous page.

Table 120 - TRN04 - Output description

5.14.5 TRN05 – Monthly overview of cash transfer orders per party

Context of usage

The report TRN05 provides information on the monthly volume and value of cash transfer orders of a selected party on its account(s). Cash transfer orders in CLM and RTGS are reported in separate report Tables. In case that several accounts belong to the same party in CLM or RTGS, separate Figures for each account are

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displayed. The volume/value Figures include totals, monthly averages and are differentiated by settlement priority and settlement status and service.

CBs can retrieve information for parties belonging to their system entity.

This report can be used by CB and PB users.

Report access

This report can be reached in the following way:

[Team Content] >> [Predefined Reports] >> [TRN – Transaction Report] >> [TRN05]

Screenshot – prompt

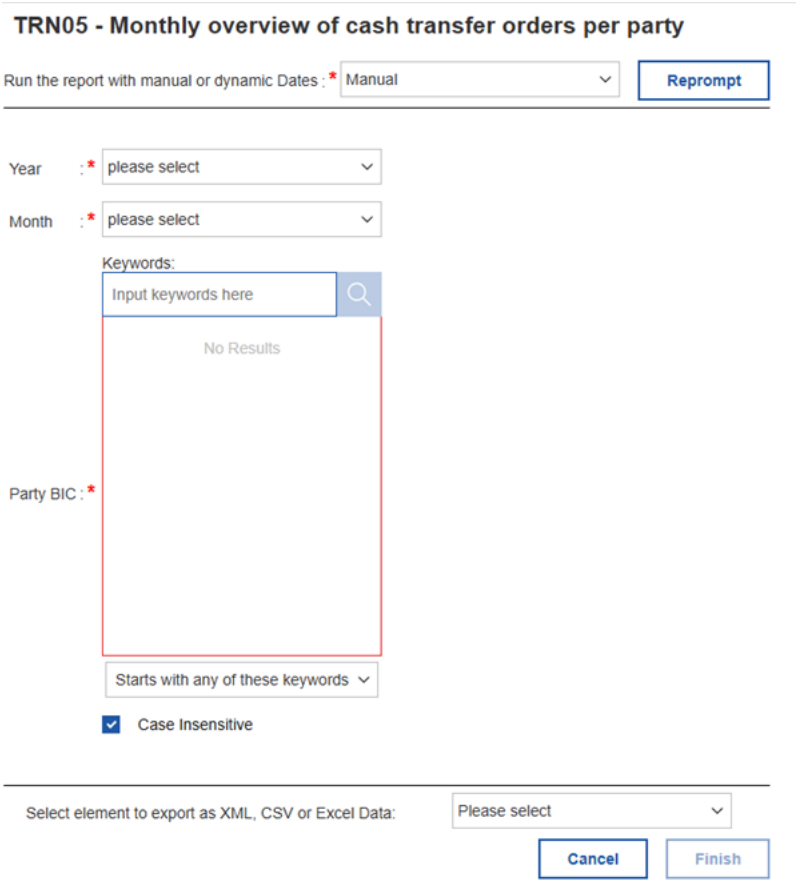

Figure 348 - TRN05 prompt - Manual

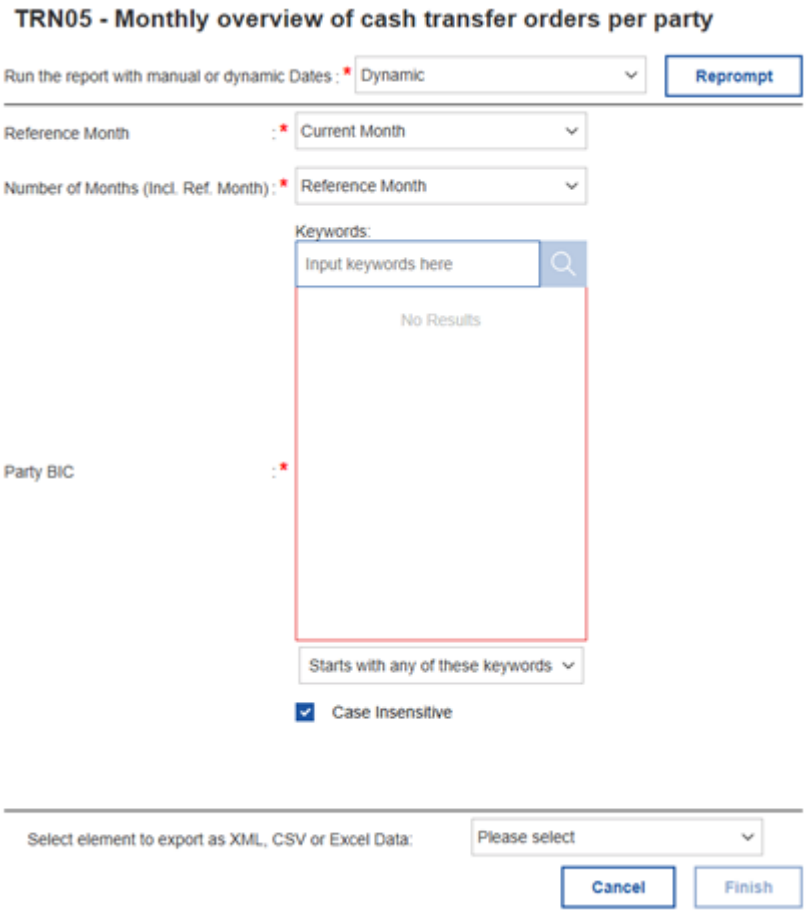

Figure 349 - TRN05 prompt - Dynamic

Prompt description

TRN05 – Report description – prompt screen - Manual	
Field label	**Description**
Year	You can use this drop-down field to select the Year, from which the report should contain the data. This field is mandatory.

Month	You can use this drop-down field to select the Month, from which the report should contain the data. For valid report results, the current month cannot be selected. This field is mandatory.
Party BIC	You can use this drop-down field to select the party BIC. This field will show all related BIC´s, which belong to the party. This field is mandatory.
Select element to export as XML, CSV or Excel Data	- Cross border transactions debited - Cross border transactions credited - Domestic transactions debited - Domestic transactions credited This field is optional.

Table 121 - TRN05 - Prompt description - Manual

TRN05 – Report description – prompt screen - Dynamic	
Field label	**Description**
Reference Month	Indicates the end-point of the date range for which the dynamic report should contain data. Valid values: - Current Month - Previous Month This field is mandatory.

Number of Months (incl. Ref. Month)	Indicates the start-point of the date range for which the dynamic report should contain data. The system will automatically calculate the start of the date range based upon the date at the time of execution. This field is mandatory.
Party BIC	You can use this drop-down field to select the party BIC. This field will show all related BIC´s, which belong to the party. This field is mandatory.
Select element to export as XML, CSV or Excel Data	- Cross border transactions debited - Cross border transactions credited - Domestic transactions debited - Domestic transactions credited This field is optional.

Table 122 - TRN05 - Prompt description – Dynamic

Screenshot - output screen

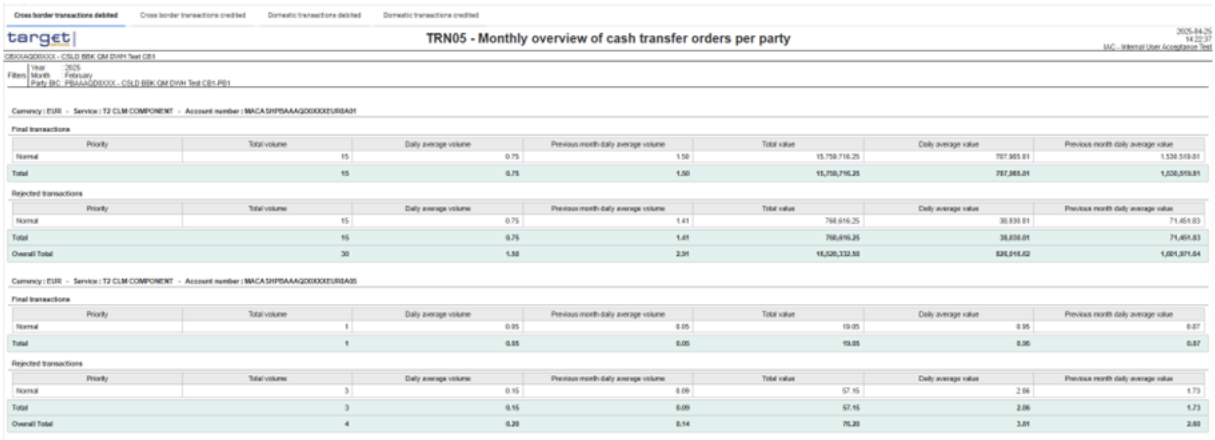

Figure 350 - TRN05 output (1) – Cross border transactions debited

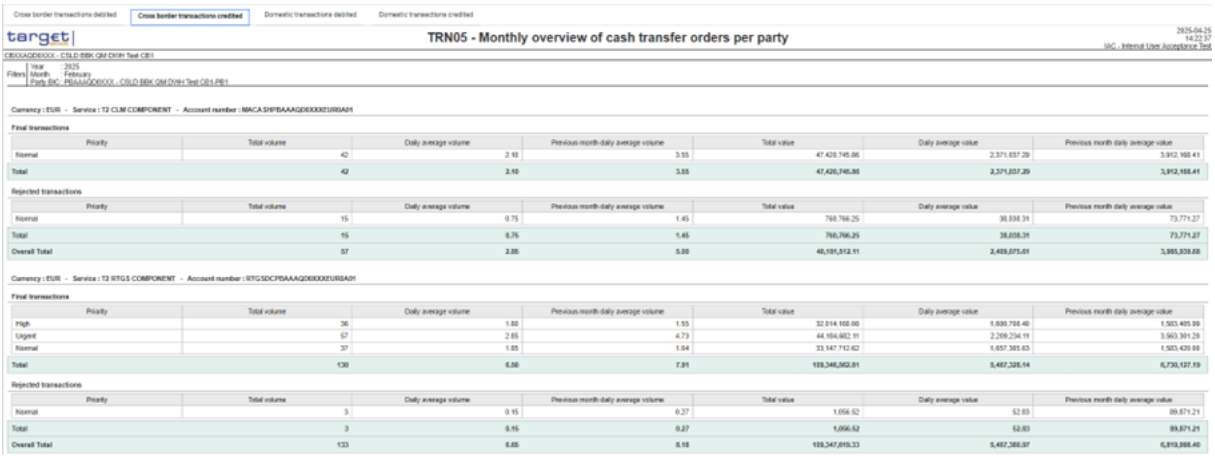

Figure 351 - TRN05 output (2) – Cross border transactions credited

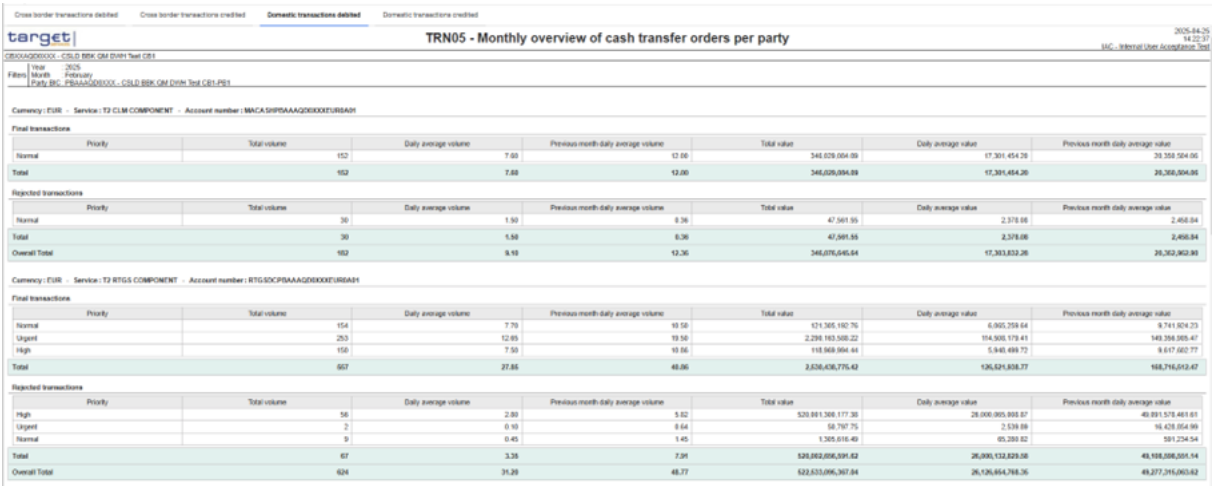

Figure 352 - TRN05 output (3) – Domestic transactions debited

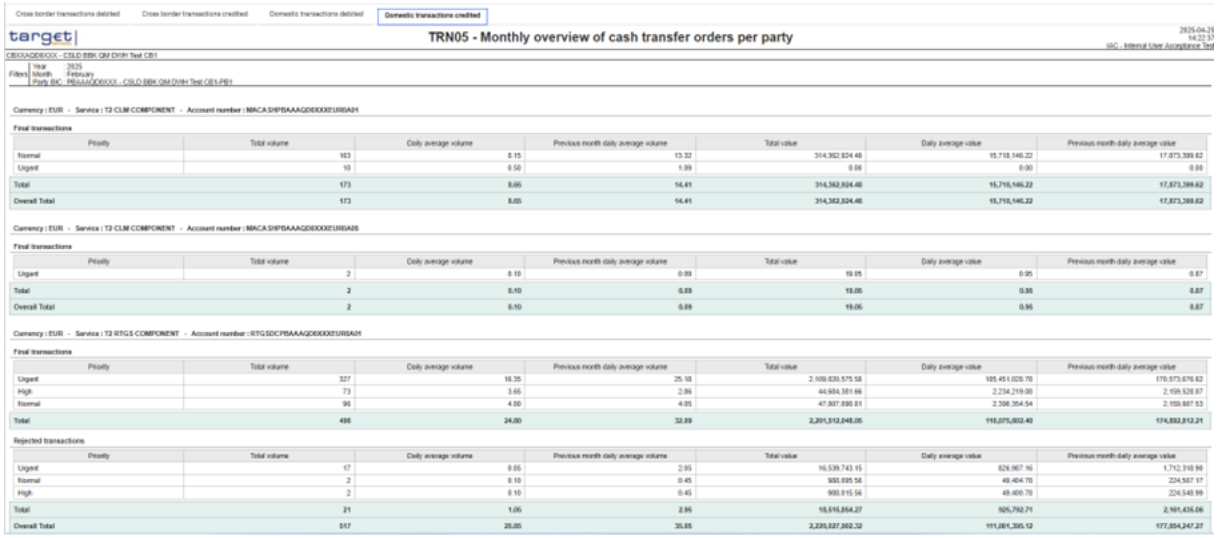

Figure 353 - TRN05 output (4) – Domestic transactions credited

Output description

TRN05 – Report description – output screen	
Field label	**Description**
The report consists of four sheets: Sheet 1: Cross border transactions debited Sheet 2: Cross border transactions credited Sheet 3: Domestic transactions debited Sheet 4: Domestic transactions credited Each sheet with following data: For every service (CLM and RTGS, in case the chosen party owns accounts in both) and every cash account owned by the chosen party in the respective service:	
Currency	Shows the ISO currency code
Service, account number	Service in which the account is held: - CLM, - RTGS, followed by the account number of cash account owned by the chosen party in the respective service. Only accounts of the following types are regarded: For CLM: - MCA - CLM CB account

	For RTGS: - RTGS DCA - RTGS sub-account - RTGS CB account - Ancillary System Guarantee funds account - AS Technical account
Three tables for “Final transactions”, “Cancelled transactions” and “Rejected transactions”. Each table with following data :	
Priority	Possible values: - Urgent - High - Normal
Total volume	Total of volume of chosen month
Daily average volume	Daily average of volume
Previous month daily average volume	Daily average of volume of the previous month
Total value	Total value
Daily average value	Monthly average of value
Previous month daily average value	Daily average of value of the previous month
Total	Sum of each column for one status
Overall Total	Sum of each column over all status (final, cancelled, rejected)

Table 123 - TRN05 - Output description

5.14.6 TRN06 – Monthly share of Indirect Participant, addressable BIC and multi-addressee payments as part of total Direct Participant’s activity

Context of usage

This report provides information on the monthly volume and value of payments of all Indirect Participants, addressable BICs and multi-addressees belonging to a selected Direct Participant in RTGS. The volume and value Figures are presented for each Indirect Participant/addressable BIC/multi-addressee as totals (differentiated by domestic and cross-border traffic) and in addition, as share of the Direct Participant’s activity.

All Figures are reported for the given month and the preceding month.

CBs can retrieve information for those entities where the respective Direct Participant belongs to their system entity.

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This report can be used by CB and PB users.

Report access

This report can be reached in the following way:

[Team Content] >> [Predefined Reports] >> [TRN – Transaction Report] >> [TRN06]

Screenshot - prompt screen

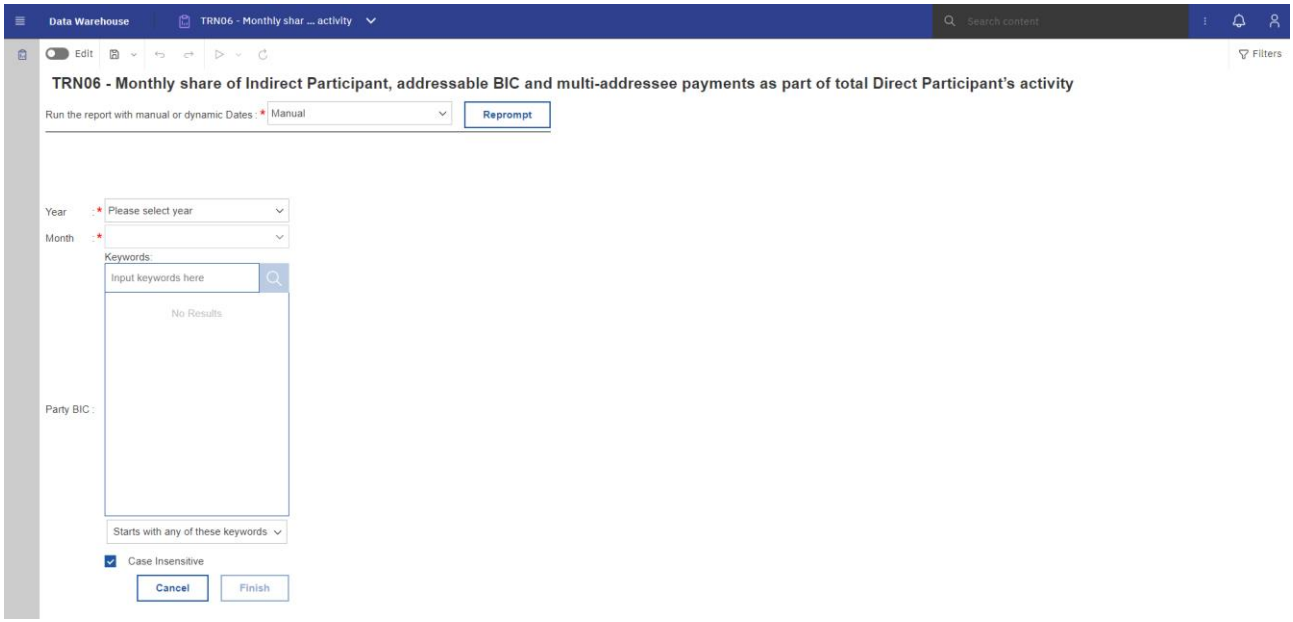

Figure 354 - TRN06 prompt - Manual

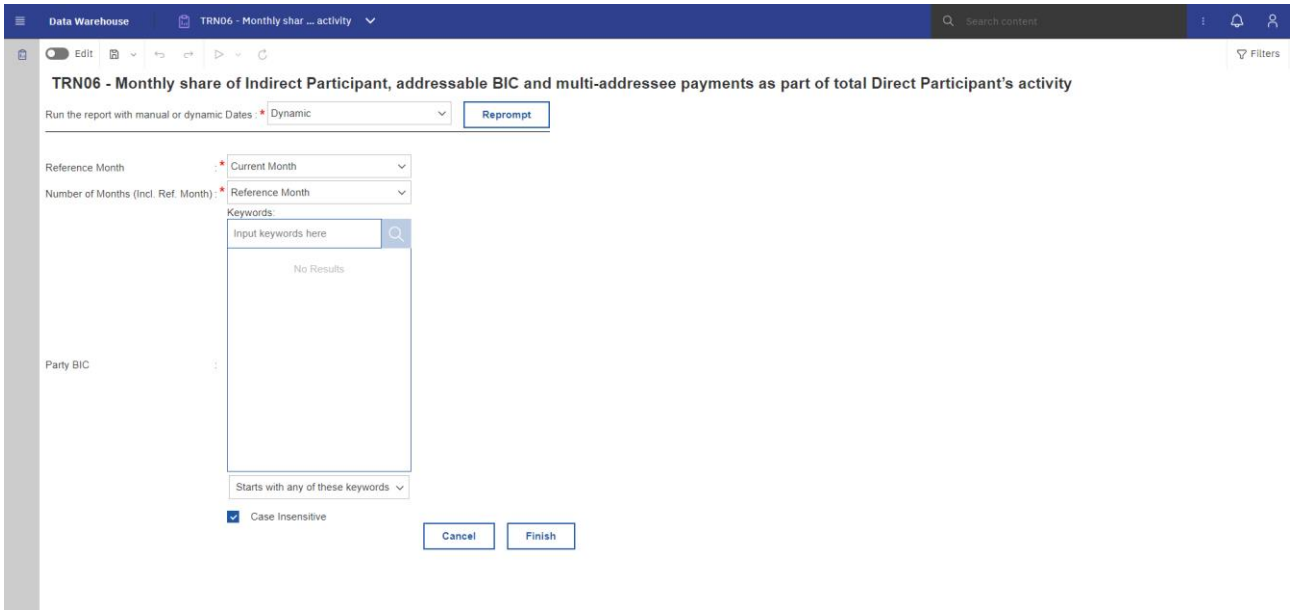

Figure 355 - TRN06 prompt - Dynamic

Prompt description,

TRN06 – Report description – prompt description – Manual	
Field label	**Description**
Year	You can use this drop-down field to select the year, from which the report should contain the data. This field is mandatory.
Month	You can use this drop-down field to select the month, from which the report should contain the data. For valid report results, the current month cannot be selected. This field is mandatory.
Party BIC	You can use this drop-down field to select the Party BIC. This field will show all related BIC´s, which belong to the Party.

Table 124 - TRN06 - Prompt description - Manual

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TRN06 – Report description – prompt description - Dynamic	
Field label	**Description**
Reference Month	Indicates the end-point of the date range for which the dynamic report should contain data. Valid values: - Current Month - Previous Month This field is mandatory.
Number of Months (incl. Ref. Month)	Indicates the start-point of the date range for which the dynamic report should contain data. The system will automatically calculate the start of the date range based upon the date at the time of execution. This field is mandatory.
Party BIC	You can use this drop-down field to select the Party BIC. This field will show all related BIC´s, which belong to the Party.

Table 125 - TRN06 - Prompt description - Dynamic

Screenshot - output screen

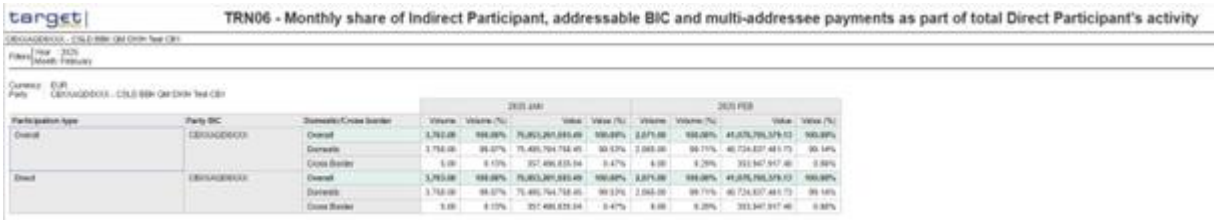

Figure 356 - TRN06 output

Output description

TRN06 – Report description – output screen	
Field label	**Description**
Currency	Currency
Party	The party BIC and party short name of the user are shown. Both values separated by a hyphen “-“
Participation Type	Participation type. Possible values: - “Overall”

	• "Direct" • "Addressable BIC" • "Indirect" • "Multi Addressee" In order to increase readability the participation type is displayed only after a group change. Initial sorting by this column , then by party BIC
Party BIC	In total rows the column either displays "Addressable BIC" resp. "All Indirect" resp. "All Multi Addressee" or the BICs of the Direct Participant, of related addressable BICs, the party's Indirect Participants or of its multi addressee. In order to increase readability the party BIC/Total is displayed only after a group change. Initial sorting by participation type , then by this column
Overall/Domestic/Cross Border	Mark which identifies whether the displayed aggregation refers to a total per BIC or domestic or cross border cash transfer orders. Possible values: • Overall • Domestic • Cross Border
Previous Month	
Volume	Number of cash transfer orders
%	Percentage value of the displayed volume for the combination of participation type, party BIC total and debit/credit; Up to 2 decimals are displayed
Value	Sum of amount. The base for the calculation are debited amounts only.
%	Percentage of the displayed volume for the combination of participation type, party BIC total and debit/credit Up to 2 decimals are displayed.
Reported Month	

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%	Percentage value of the displayed volume for the combination of participation type, party BIC total and debit/credit; Up to 2 decimals are displayed.
Value	Sum of amount. The base for the calculation are debited amounts only.
%	Percentage of the displayed volume for the combination of participation type, party BIC total and debit/credit Up to 2 decimals are displayed.

Table 126 - TRN06 - Output description

5.14.7 TRN07 – Cash transfers between two accounts of different parties

Context of usage

TRN07 lists all cash transfers between two accounts in CLM or RTGS for a given date (range). For each cash transfer the settlement time stamp, the message type, the CLM/RTGS booking reference, the transaction category and the settlement amount are displayed. CBs can retrieve information on those cash transfers where at least one of the two involved accounts (credited or debited account) is opened under a party belonging to its system entity.

This report can be used by CB users only.

Report access

This report can be reached in the following way:

[Team Content] >> [Predefined Reports] >> [TRN – Transaction Report] >> [TRN07]

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Screenshot – prompt

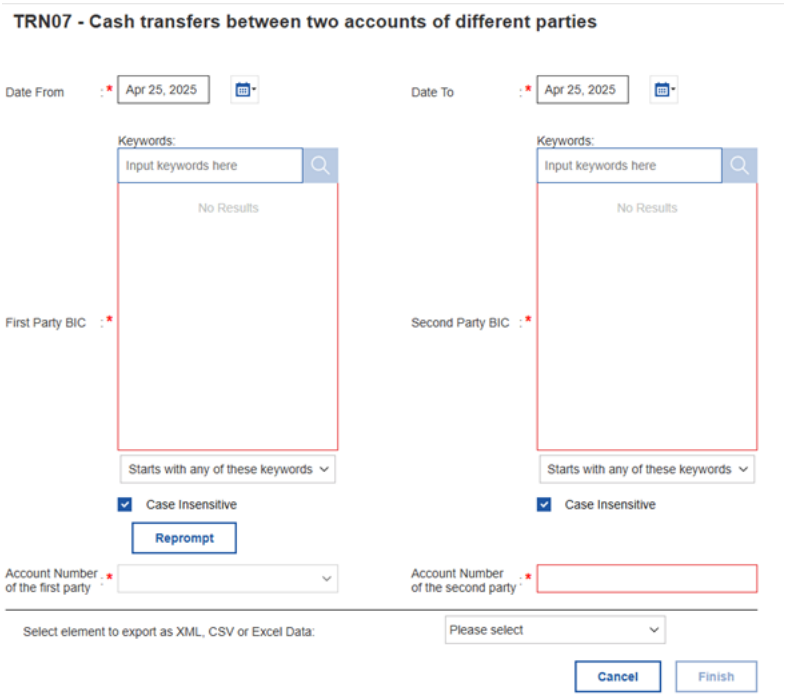

Figure 357 - TRN07 prompt

Prompt description

TRN07 – Report description – prompt description	
Field label	**Description**
Date From	You can enter the date by clicking on the calendar . This field is mandatory.
Date To	You can enter the end date of the period, for which the report should contain the data by clicking on the calendar. For valid report results, the current day cannot be selected. This field is mandatory
First Party BIC	You can use this search and select prompt to select the first party BIC or short name. This field is mandatory
Second Party BIC	You can use this search and select prompt to select the second party BIC and short name.

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	This field is mandatory
Account Number of the first party	.You can use this drop-down list to select the account number of the first party. It is built from account numbers within the user's data scope. This field is mandatory.
Account Number of the second party	You can use this free text field to enter the account number of the second party. This field is mandatory
Select element to export as XML, CSV or Excel Data	- Account details - Account transactions This field is optional.

Table 127 - TRN07 - Prompt description

Screenshot - output screen

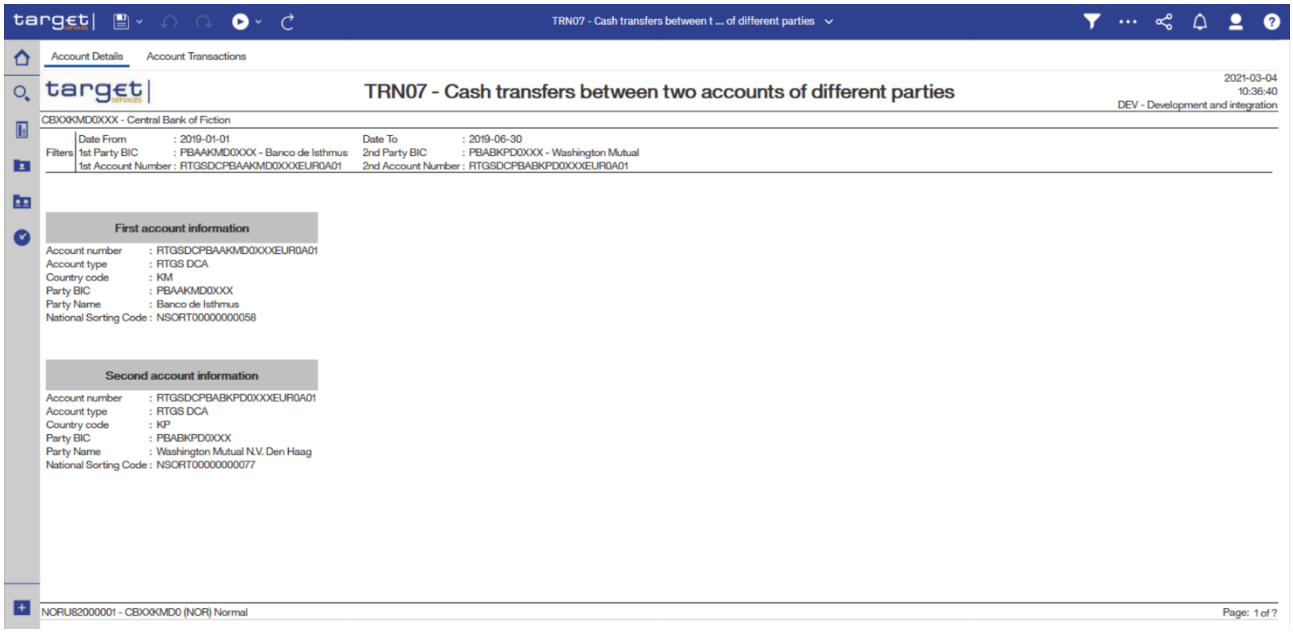

Figure 358 - TRN07 output (1)

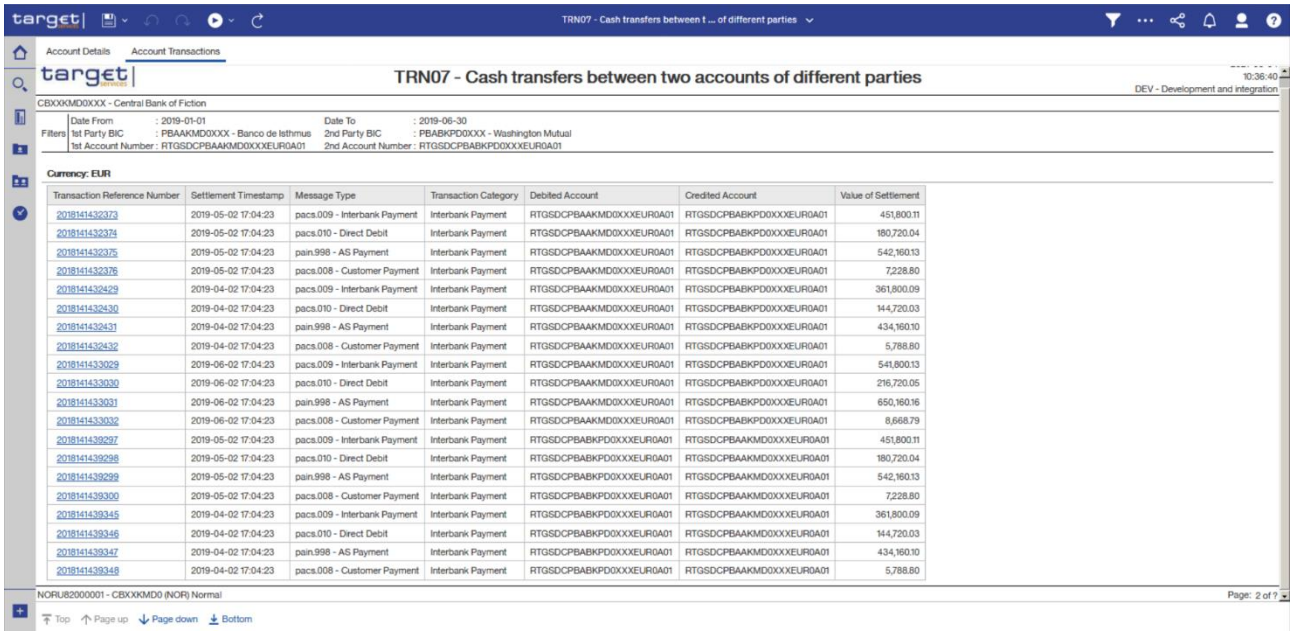

Figure 359 - TRN07 output (2)

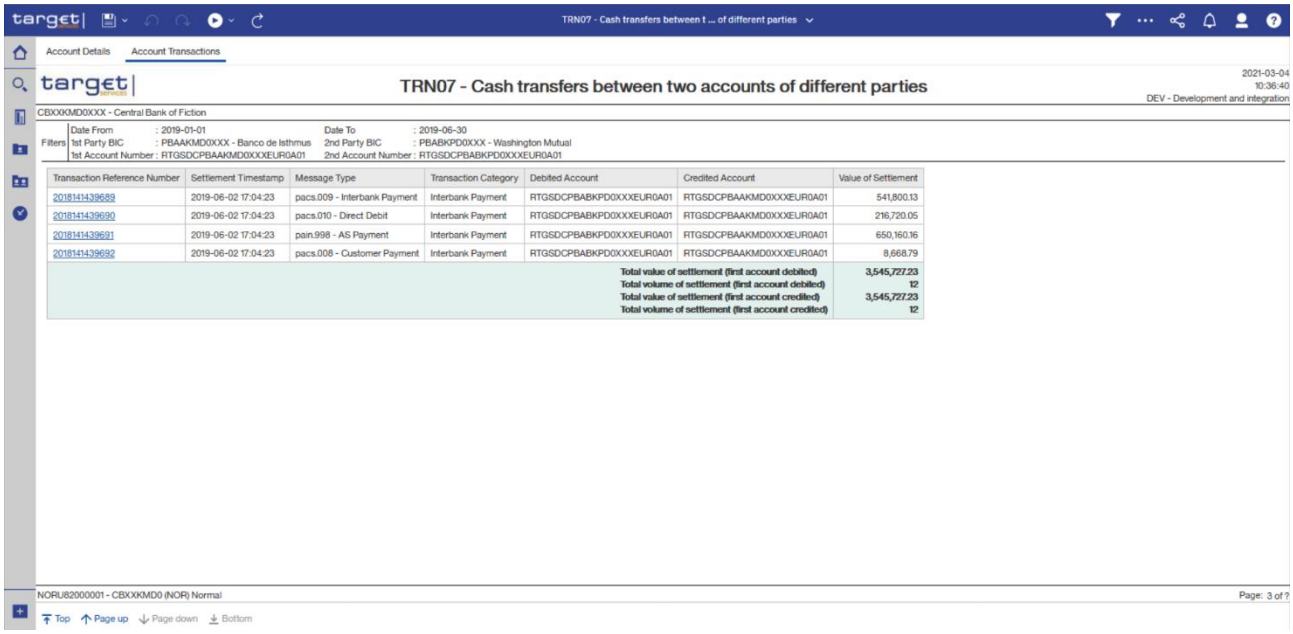

Figure 360 - TRN07 output (3)

Output description

TRN07 – Report description – output screen – table Account details	
Field label	**Description**
Account number	Account number as chosen in the search criteria
Account type	Account type as chosen in the search criteria Possible values: For CLM - MCA - Overnight Deposit account - CLM CB account - Marginal Lending account For RTGS : - RTGS DCA - RTGS sub-account - RTGS CB account - Ancillary System Guarantee funds account - AS technical accounts
Country code	Country code related to the party chosen in the search criteria
Party BIC	Party BIC as chosen in the search criteria
Party Name	Party name related to the party BIC chosen in the search criteria
National Sorting Code	National Sorting Code related to the party BIC chosen in the search criteria
TRN07 – Report description – output screen – table list of cash transfers	
Field label	**Description**
Currency	ISO currency code
Transaction Reference Number	Transaction reference number (CLM/RTGS internal cash transfer identifier)
Settlement Timestamp	Timestamp of the cash transfer settlement
Message Type	Message type. Possible values: - camt.050 - pain.998 (ASTI)

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	- pacs.004 - pacs.008 - pacs.009 - pacs.010
Transaction Category	Statistical Classification Transaction category. Possible values: - CLM Intra Liquidity Transfer (C.10.00) - CLM RTGS Liquidity Transfer (C.10.20) - CLM T2S Liquidity Transfer (C.10.30) - CLM TIPS Liquidity Transfer (C.10.40) - Open Market Operations (C.11.01) - Standing Facilities (C.11.02) - Reserve and Account Management (C.11.03) - Inter Central Bank Transactions (C.11.04) - Connected payments for credit line changes (C.11.05) - Non-euro area CB operations (C.11.06) - Other (including cash transactions) (C.11.09) - Billing (C.12) - Target balances (C.13) - Levelling out of closed accounts (C.14.01) - ECONS II back transfers (C.14.02) - Seizure of funds (C.14.03) - CLM Other (C.19) - RTGS Intra Liquidity Transfer (R.20.00) - RTGS CLM Liquidity Transfer (R.20.10) - RTGS T2S Liquidity Transfer (R.20.30) - RTGS TIPS Liquidity Transfer (R.20.40) - Interbank Payments (R.21.01) - Customer Payments (R.21.02) - Other (R.21.09) - AS Transactions HVPS (R.22.01) - AS Transactions RPS (R.22.02) - AS Transactions IPS (R.22.03)

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	- AS Transactions SSS (R.22.04) - AS Transactions FES (R.22.05) - AS Transactions MMS (R.22.06) - AS Transactions CCP (R.22.07) - AS Transactions Other (R.22.09) - Levelling out of closed accounts (R.23.01) - RTGS Other (R.29)
Debited Account	Debited account number
Credited Account	Identification of the credited account number
Value of Settlement	Settlement amount
Total value of settlement (first account debited)	Total value of settlement (first account debited)
Total volume of settlement (first account debited)	Total volume of settlement (first account debited)
Total value of settlement (first account credited)	Total value of settlement (first account credited)
Total volume of settlement (first account credited)	Total volume of settlement (first account credited)
Details of chosen cash transfer	This Details-screen is shown when the user has clicked on the reference of one of the objects in the screen. TRN01 – Cash transfer (order) search and details [▸ 326]

Table 128 - TRN07 - Output description

5.14.8 TRN08 – Business activity of a party/parties

Context of usage

The report TRN08 provides information on the total volume and value as well as the average settlement amount of cash transfer orders in CLM or RTGS per party for a given date (range). In case that several accounts belong to the same party in CLM or RTGS, aggregated Figures are displayed. The volume, value and average settlement amount Figures are presented separately for the debit/credit side and the sending/receiving side.

CBs can retrieve information for parties belonging to their system entity.

This report can be used by CB and PB users.

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Report access

This report can be reached in the following way:

[Team Content] >> [Predefined Reports] >> [TRN – Transaction Report] >> [TRN08]

Screenshot - prompt screen

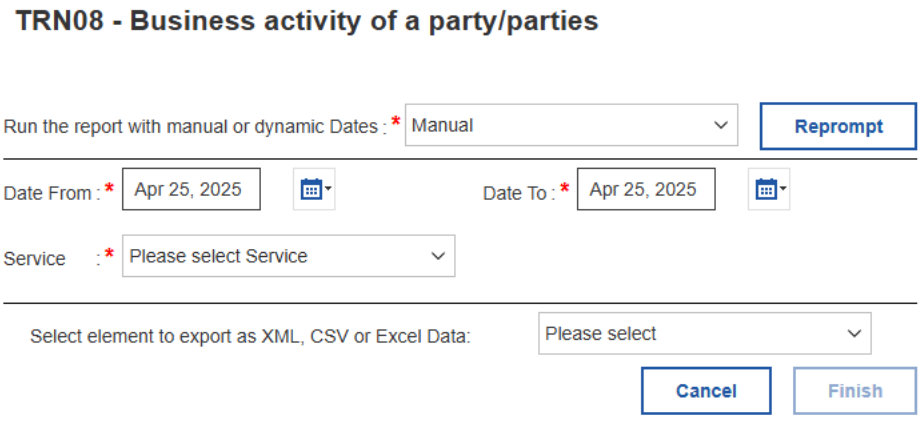


Figure 361 - TRN08 prompt - Manual

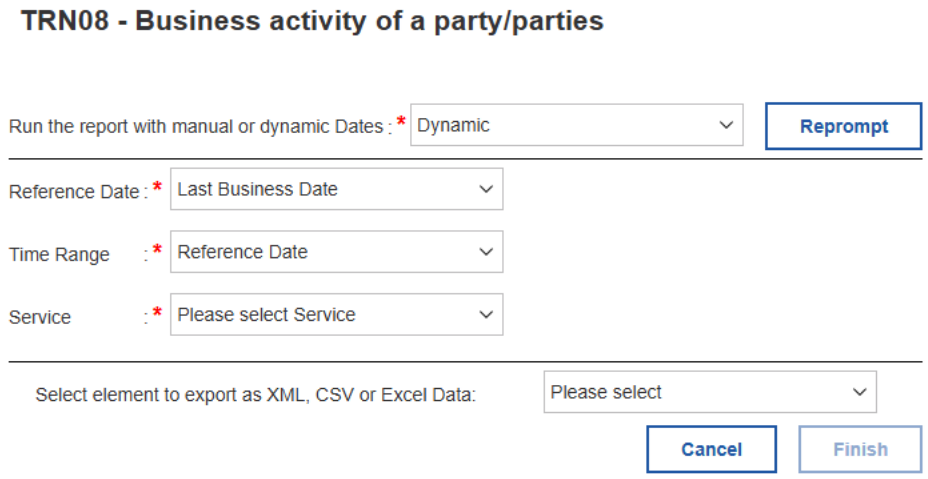


Figure 362 - TRN08 prompt - Dynamic

Prompt description

TRN08 – Report description – prompt screen - Manual	
Field label	**Description**
Service Type	You can use this drop-down field to select between the services Possible values: - CLM, - RTGS. This field is mandatory.
Date From	You can select the date by clicking on the calendar. This field is mandatory.
Date To	You can select the end date of the period, for which the report should contain the data. For valid report results, the current day cannot be selected. This field is optional.
Select element to export as XML, CSV or Excel Data	- Cash transfer orders debited - Cash transfer orders credited - Cash transfer orders sent - Cash transfer orders received This field is optional.

Table 129 - TRN08 - Prompt description - Manual

TRN08 – Report description – prompt screen - Dynamic	
Field label	**Description**
Reference Date	Indicates the end-point of the date range for which the dynamic report should contain data. Valid values: - Last Business Day - Prior Last Business Day The system will automatically calculate the end of the date range based upon the date at the time of execution.

Time Range	Indicates the start-point of the date range for which the dynamic report should contain data. The system will automatically calculate the start of the date range based upon the date at the time of execution.
Service	You can use this drop-down field to select between the services Possible values: - CLM, - RTGS. This field is mandatory.
Select element to export as XML, CSV or Excel Data	- Cash transfer orders debited - Cash transfer orders credited - Cash transfer orders sent - Cash transfer orders received This field is optional.

Table 130 - TRN08 - Prompt description - Dynamic

Screenshot - output screen

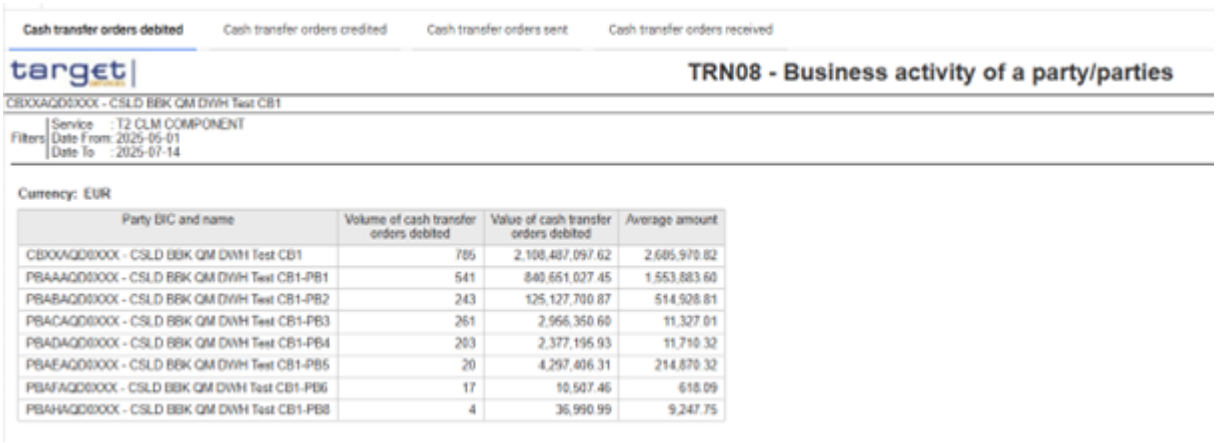
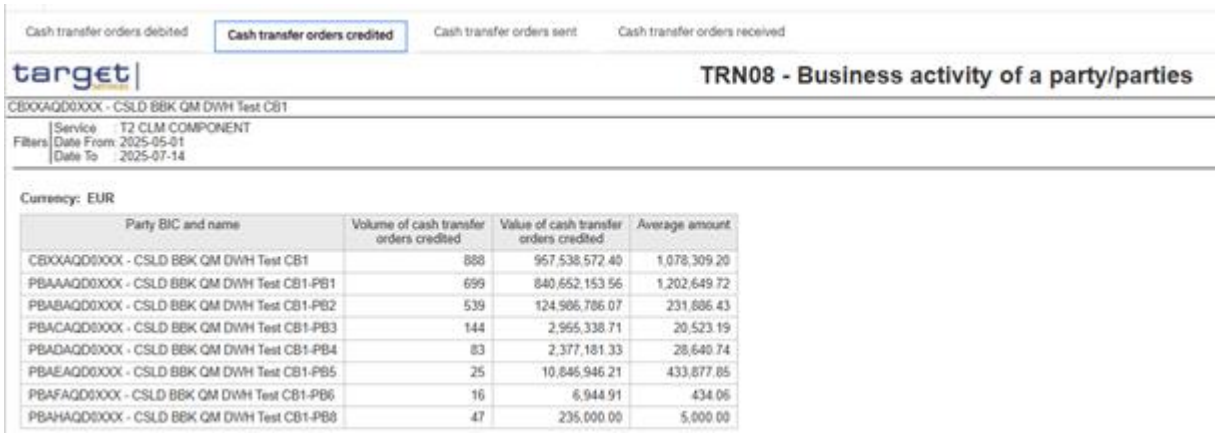


Figure 363 - TRN08 output ~~(1)~~ – Cash transfer orders debited {CR-173}



Cash transfer orders debited | **Cash transfer orders credited** | Cash transfer orders sent | Cash transfer orders received

target

TRN08 - Business activity of a party/parties

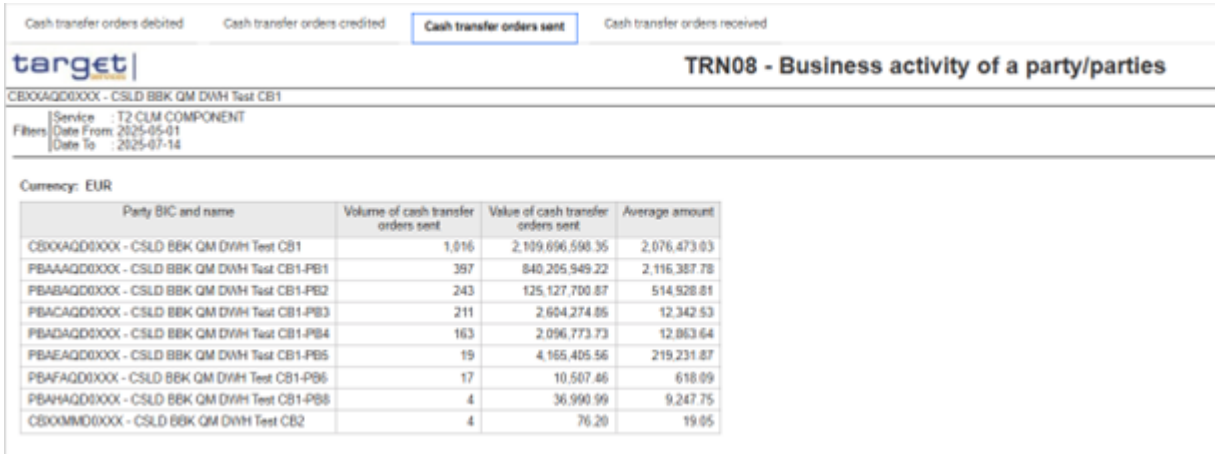
CBIXXAQD0XXX - CSLD BBK QM DWH Test CB1

Filters: Service : T2 CLM COMPONENT
Date From : 2025-05-01
Date To : 2025-07-14

Currency: EUR

Party BIC and name	Volume of cash transfer orders credited	Value of cash transfer orders credited	Average amount
CBIXXAQD0XXX - CSLD BBK QM DWH Test CB1	888	957,538,572.40	1,078,309.20
PBAAAQD0XXX - CSLD BBK QM DWH Test CB1-PB1	699	840,652,153.56	1,202,649.72
PBABAQD0XXX - CSLD BBK QM DWH Test CB1-PB2	539	124,986,786.07	231,886.43
PBACAQD0XXX - CSLD BBK QM DWH Test CB1-PB3	144	2,955,338.71	20,523.19
PBADAQD0XXX - CSLD BBK QM DWH Test CB1-PB4	83	2,377,181.33	28,640.74
PBAEAQD0XXX - CSLD BBK QM DWH Test CB1-PB5	25	10,846,946.21	433,877.85
PBAFAQD0XXX - CSLD BBK QM DWH Test CB1-PB6	16	6,944.91	434.06
PBAHAQD0XXX - CSLD BBK QM DWH Test CB1-PB8	47	235,000.00	5,000.00

Figure 364 - TRN08 output ~~(2)~~ – Cash transfer orders credited {CR-173}



Cash transfer orders debited | Cash transfer orders credited | **Cash transfer orders sent** | Cash transfer orders received

target

TRN08 - Business activity of a party/parties

CBIXXAQD0XXX - CSLD BBK QM DWH Test CB1

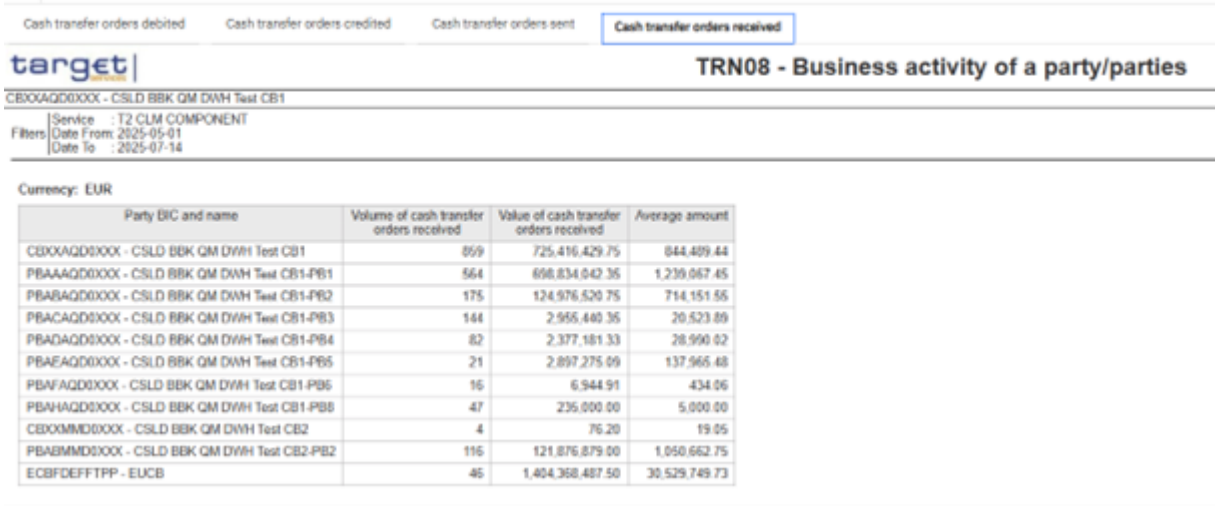
Filters: Service : T2 CLM COMPONENT
Date From : 2025-05-01
Date To : 2025-07-14

Currency: EUR

Party BIC and name	Volume of cash transfer orders sent	Value of cash transfer orders sent	Average amount
CBIXXAQD0XXX - CSLD BBK QM DWH Test CB1	1,016	2,109,696,598.35	2,076,473.03
PBAAAQD0XXX - CSLD BBK QM DWH Test CB1-PB1	397	840,205,949.22	2,116,387.78
PBABAQD0XXX - CSLD BBK QM DWH Test CB1-PB2	243	125,127,700.87	514,928.81
PBACAQD0XXX - CSLD BBK QM DWH Test CB1-PB3	211	2,604,274.85	12,342.53
PBADAQD0XXX - CSLD BBK QM DWH Test CB1-PB4	163	2,096,773.73	12,863.64
PBAEAQD0XXX - CSLD BBK QM DWH Test CB1-PB5	19	4,165,405.56	219,231.87
PBAFAQD0XXX - CSLD BBK QM DWH Test CB1-PB6	17	10,507.46	618.09
PBAHAQD0XXX - CSLD BBK QM DWH Test CB1-PB8	4	36,990.99	9,247.75
CBIXMMD0XXX - CSLD BBK QM DWH Test CB2	4	76.20	19.05

Figure 365 - TRN08 output ~~(3)~~ – Cash transfer orders sent {CR-173}

All rights reserved.


Cash transfer orders debited | Cash transfer orders credited | Cash transfer orders sent | Cash transfer orders received

target services

TRN08 - Business activity of a party/parties

CBXXAQD0XXX - CSLD BBK QM DWH Test CB1

Filters | Service : T2 CLM COMPONENT
Date From: 2025-05-01
Date To : 2025-07-14

Currency: EUR

Party BIC and name	Volume of cash transfer orders received	Value of cash transfer orders received	Average amount
CBXXAQD0XXX - CSLD BBK QM DWH Test CB1	859	725,416,429.75	844,489.44
PBAAAQD0XXX - CSLD BBK QM DWH Test CB1-PB1	564	698,834,042.35	1,239,067.45
PBABAQD0XXX - CSLD BBK QM DWH Test CB1-PB2	175	124,976,520.75	714,151.55
PBACAQD0XXX - CSLD BBK QM DWH Test CB1-PB3	144	2,965,440.35	20,523.89
PBADAQD0XXX - CSLD BBK QM DWH Test CB1-PB4	82	2,377,181.33	28,990.02
PBAEAQD0XXX - CSLD BBK QM DWH Test CB1-PB5	21	2,897,275.09	137,965.48
PBAFAQD0XXX - CSLD BBK QM DWH Test CB1-PB6	16	6,944.91	434.06
PBAHAQD0XXX - CSLD BBK QM DWH Test CB1-PB8	47	235,000.00	5,000.00
CBXXMMD0XXX - CSLD BBK QM DWH Test CB2	4	76.20	19.05
PBABMMD0XXX - CSLD BBK QM DWH Test CB2-PB2	116	121,876,879.00	1,050,662.75
ECBFDEFFTPP - EUCB	46	1,404,368,487.50	30,529,749.73

Figure 366 - TRN08 output ~~(4)~~ – Cash transfer orders received {CR-173}

Output description

TRN08 – Report description – output screen	
Field Label	**Description**
Following information is available for: "Cash transfer orders debited", "Cash transfer orders credited", "Cash transfer orders sent", "Cash transfer orders received"	
Party BIC and name **{CR-173}**	The party BIC and party short name of the user are shown. Sorting is done by party BIC.
Volume of cash transfer orders debited/credited/sent/received	Number of cash transfer orders for this party of final status within the regarded date / date range.
Value of cash transfer orders debited/credited/sent/received	Total amount of all cash transfer orders for this party of final status within the regarded date / date range.
Average amount	Average calculated from previous fields of the row (value divided by volume).

Table 131 - TRN08 - Output description

5.14.9 TRN09 – RTGS Account Holder activity

Context of usage

The report TRN09 provides information on the biannually activity of RTGS Account Holders. It displays for the selected account holder(s) the total volume and value of cash transfer orders per transaction category, per message type and differentiated per settlement status within the first or second half of a year. In case that

several accounts belong to the same party, each account is displayed separately. In case that a CB executes the report for ALL RTGS Account Holders belonging to its system entity, the market share per RTGS Account Holder in terms of volume of cash transfers in relation to the volume of all cash transfers of RTGS Account Holders belonging to the CBs system entity is added to the report.

CBs can retrieve information for Account Holders belonging to their system entity.

This report can be used by CB users only.

Report access

This report can be reached in the following way:

[Team Content] >> [Predefined Reports] >> [TRN – Transaction Report] >> [TRN09]

Screenshot - prompt screen

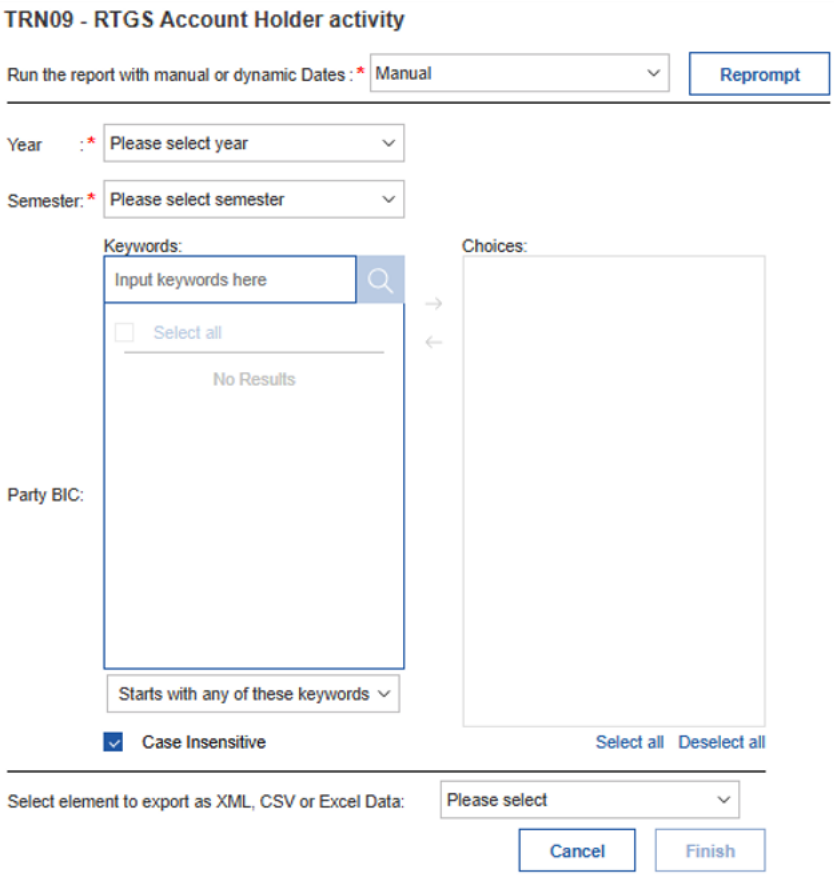


Figure 367 - TRN09 prompt – Manual {CR-173}

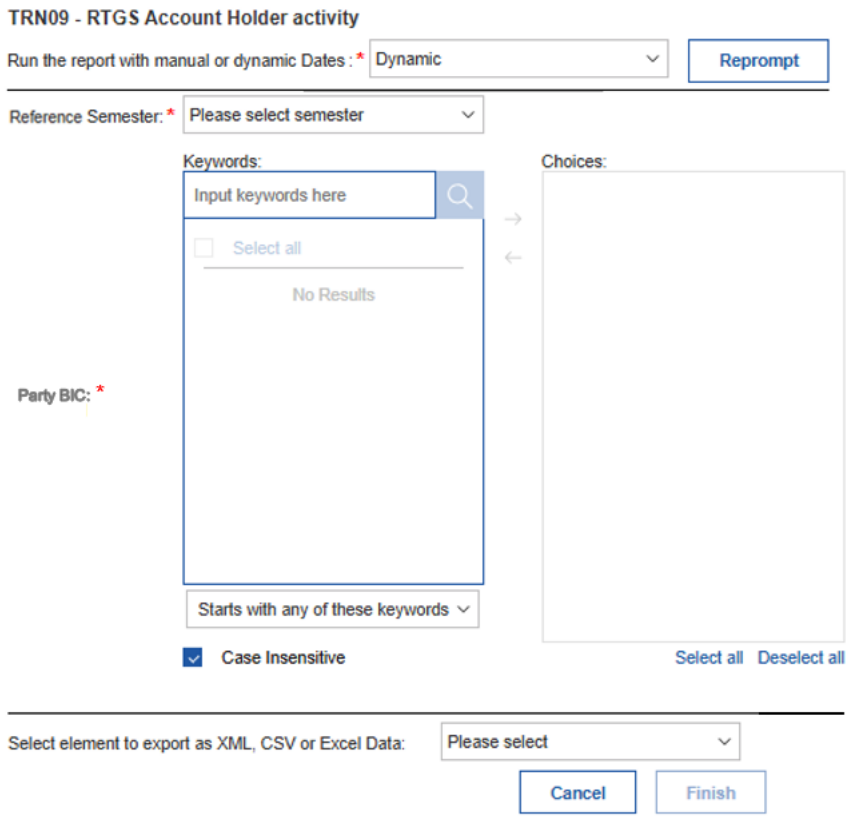


Figure 368 - TRN09 prompt – Dynamic {CR-173}

Prompt description

TRN09 – Report description – prompt screen – Manual {CR-173}	
Field label	**Description**
Semester	You can use this drop-down field to select a semester. Possible Values: - 1st semester (representing 01.01. – 30.06.) - 2nd semester (representing 01.07. – 31.12.) This field is mandatory.

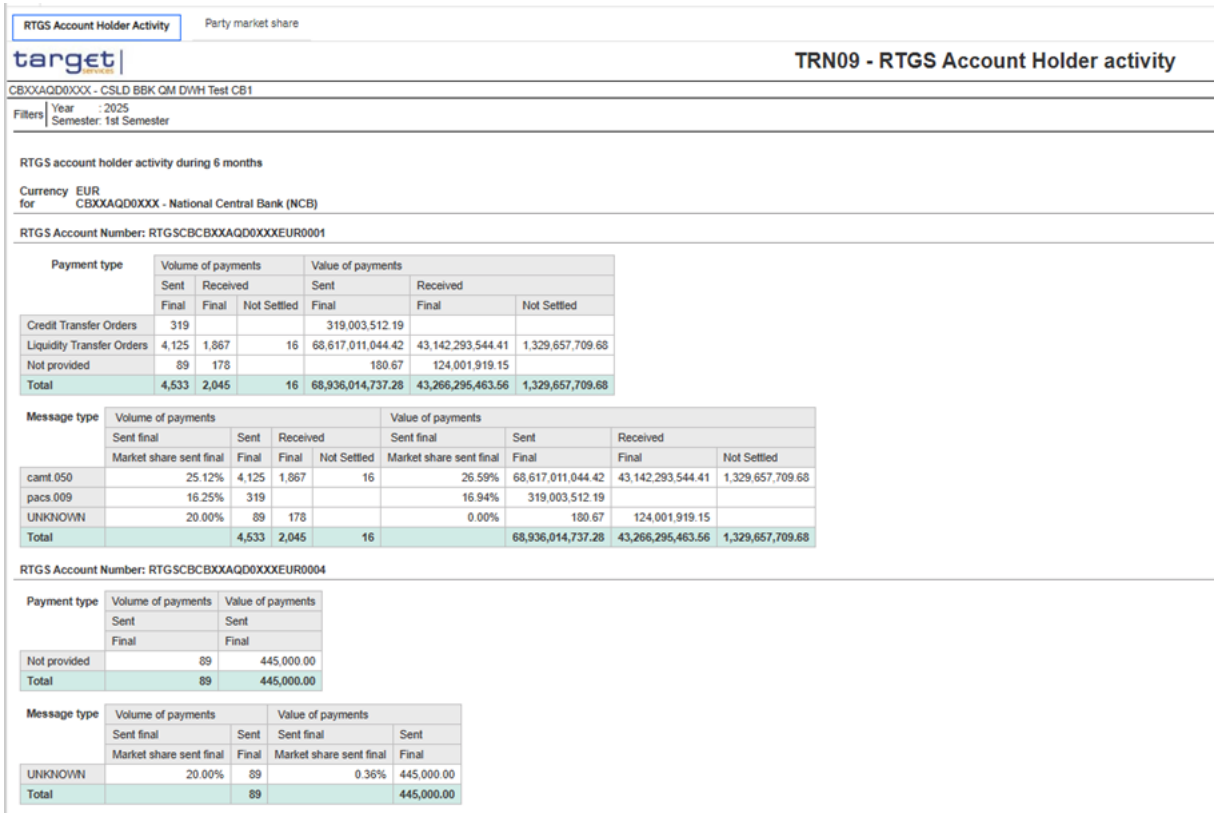
Year	You can use this drop-down field to select the year, for which the report should contain the data. This field is mandatory.
Party BIC	You can use this field to select one, several or all party BICs. This field will show all related BICs, which belong to the party. This field is mandatory.
Select element to export as XML, CSV or Excel Data	- Payment type - Message type - Party market share This field is optional.

Table 132 - TRN09 - Prompt description – Manual {CR-173}

TRN09– Report description – prompt screen - Dynamic	
Field label	**Description**
Reference Semester	Indicates the end-point of the date range for which the dynamic report should contain data. Valid values: - Current Semester - Last Semester The system will automatically calculate the reporting date range based upon the date at the time of execution.
Party BIC	You can use this field to select one, several or all party BICs. This field will show all related BICs, which belong to the party. This field is mandatory.
Select element to export as XML, CSV or Excel Data	- Payment type - Message type - Party market share This field is optional. **{CR-173}**

Table 133 - TRN09 - Prompt description - Dynamic {CR-173}

Screenshot - output screen



RTGS Account Holder Activity | Party market share

target services

TRN09 - RTGS Account Holder activity

CBXXAQD0XXX - CSLD BBK QM DWH Test CB1

Filters | Year : 2025
Semester: 1st Semester

RTGS account holder activity during 6 months

Currency EUR
for CBXXAQD0XXX - National Central Bank (NCB)

RTGS Account Number: RTGSCBCBXXAQD0XXXEUR0001

Payment type	Volume of payments			Value of payments		
	Sent	Received		Sent	Received	
	Final	Final	Not Settled	Final	Final	Not Settled
Credit Transfer Orders	319			319,003,512.19		
Liquidity Transfer Orders	4,125	1,867	16	68,617,011,044.42	43,142,293,544.41	1,329,657,709.68
Not provided	89	178		180.67	124,001,919.15	
Total	4,533	2,045	16	68,936,014,737.28	43,266,295,463.56	1,329,657,709.68

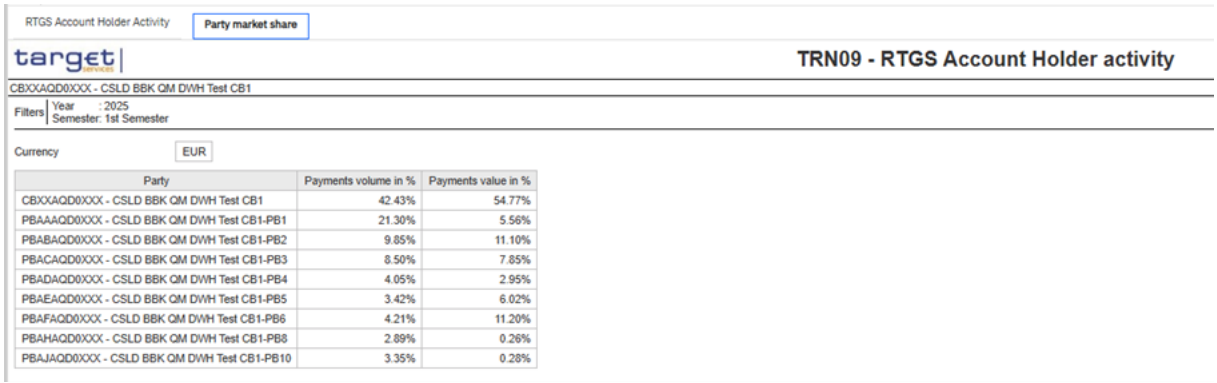
Message type	Volume of payments				Value of payments			
	Sent final	Sent	Received		Sent final	Sent	Received	
	Market share sent final	Final	Final	Not Settled	Market share sent final	Final	Final	Not Settled
camt.050	25.12%	4,125	1,867	16	26.59%	68,617,011,044.42	43,142,293,544.41	1,329,657,709.68
pacs.009	16.25%	319			16.94%	319,003,512.19		
UNKNOWN	20.00%	89	178		0.00%	180.67	124,001,919.15	
Total		4,533	2,045	16		68,936,014,737.28	43,266,295,463.56	1,329,657,709.68

RTGS Account Number: RTGSCBCBXXAQD0XXXEUR0004

Payment type	Volume of payments	Value of payments
	Sent	Sent
	Final	Final
Not provided	89	445,000.00
Total	89	445,000.00

Message type	Volume of payments		Value of payments	
	Sent final	Sent	Sent final	Sent
	Market share sent final	Final	Market share sent final	Final
UNKNOWN	20.00%	89	0.36%	445,000.00
Total		89		445,000.00

Figure 369 - TRN09 output (1) – RTGS Account Holder activity View



RTGS Account Holder Activity | Party market share

target services

TRN09 - RTGS Account Holder activity

CBXXAQD0XXX - CSLD BBK QM DWH Test CB1

Filters | Year : 2025
Semester: 1st Semester

Currency EUR

Party	Payments volume in %	Payments value in %
CBXXAQD0XXX - CSLD BBK QM DWH Test CB1	42.43%	54.77%
PBAAAQD0XXX - CSLD BBK QM DWH Test CB1-PB1	21.30%	5.56%
PBABAQD0XXX - CSLD BBK QM DWH Test CB1-PB2	9.85%	11.10%
PBACAQD0XXX - CSLD BBK QM DWH Test CB1-PB3	8.50%	7.85%
PBADAQD0XXX - CSLD BBK QM DWH Test CB1-PB4	4.05%	2.95%
PBAEAQD0XXX - CSLD BBK QM DWH Test CB1-PB5	3.42%	6.02%
PBAFAQD0XXX - CSLD BBK QM DWH Test CB1-PB6	4.21%	11.20%
PBAHAQD0XXX - CSLD BBK QM DWH Test CB1-PB8	2.89%	0.26%
PBAJAQD0XXX - CSLD BBK QM DWH Test CB1-PB10	3.35%	0.28%

Figure 370 - TRN09 output (2) – Party Market Share View

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Output description

TRN09 – Report description – output screen RTGS Account Holder activity	
Field label	**Description**
Currency	Shows the ISO currency code
For	Shows the BIC and the name of the party the data is displayed for.
RTGS account number	Displays the RTGS account number of the party the data is shown for.
Payment type	Payment type. Possible values: - Credit transfer orders - Liquidity transfer orders - Direct debit orders
Volume of payments sent	Volume of all payments sent - Final (Settled) - Not settled (Cancelled, rejected) per payment type and total for the chosen semester
Volume of payments received	Volume of all payments received Final (Settled) Not settled (Cancelled, rejected) per payment type and total for the chosen semester
Value of payments sent	Value of all payments sent - Final (Settled) - Not settled (Cancelled, rejected) per payment type and total for the chosen semester
Value of payments received	Value of all payments received - Final (Settled) - Not settled (Cancelled, rejected) per payment type and total for the chosen semester
Message type	Message type. Possible values: - camt.050

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	l pacs.004 l pacs.008 l pacs.009 l pacs.010
Volume of payments sent	Volume of all payments sent Market share final (in %) l Final (Settled) l Not settled (Cancelled, rejected) per message type and total for the chosen semester
Volume of payments received	Volume of all payments received l Final (Settled) l Not settled (Cancelled, rejected) per message type and total for the chosen semester
Message type	Message type. Possible values: l camt.050 l pacs.004 l pacs.008 l pacs.009 l pacs.010
Value of payments sent	Value of all payments sent Market share final (in %) l Final (Settled) l Not settled (Cancelled, rejected) per message type and total for the chosen semester
Value of payments received	Value of all payments received l Final (Settled) l Not settled (Cancelled, rejected) per message type and total for the chosen semester
Total	Totals of volumes and values

Table 134 - TRN09 - Output description

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TRN09 – Report description – output Screen – only in case ALL Party BICs were chosen	
Field label	**Description**
Party	BIC and short name of the party
Payments volume in %	Percentage of the party's volume of whole CB's volume (only final payments sent) for the chosen semester
Payments value in %	Percentage of the party's value of whole CB's value (only final payments sent) for the chosen semester

Table 135 - TRN09 - Output description

5.14.10 TRN10 – Monthly value and volume of cash transfers in CLM/RTGS (according to T2 statistical framework)

Context of usage

This report provides information on the monthly volume and value of cash transfers in CLM or RTGS according to the T2 statistical framework, which aims to reflect cash transfers from a business perspective. In this respect, some cash transfers (e.g. any liquidity transfers between two accounts of the same party) are not considered for the volume and value Figures in this report.

Volume and value figures are displayed as monthly totals and daily averages (for each month) and are given for each CB/system entity and in addition as the total sum of all system entities for a given currency.

CBs can retrieve aggregated volume and value information for each CB/system entity as well as the sum of all system entities in CLM/RTGS.

This report can be used by CB users only.

Report access

This report can be reached in the following way:

[Team Content] >> [Predefined Reports] >> [TRN – Transaction Report] >> [TRN10]

All rights reserved.

Screenshot – prompt

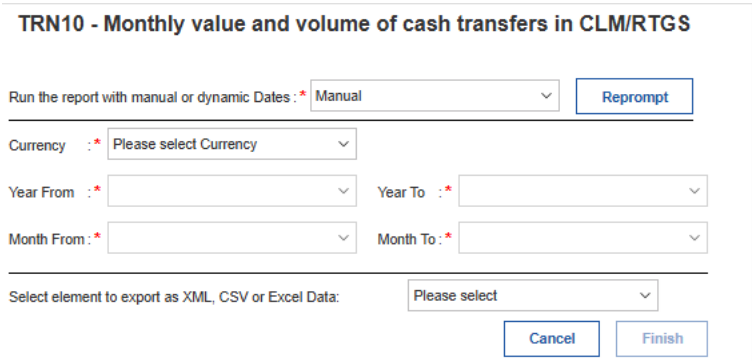

Figure 371 - TRN10 prompt - Manual

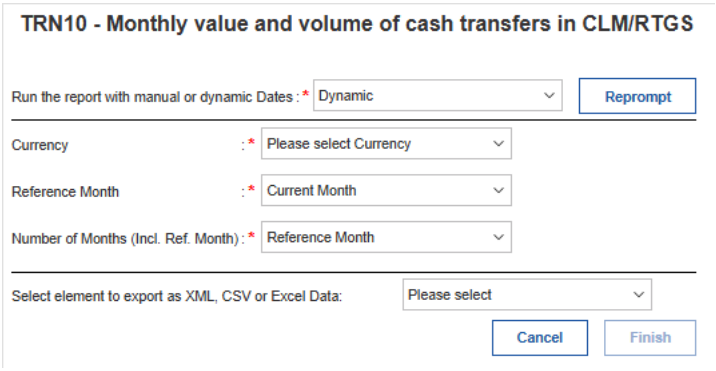

Figure 372 - TRN10 prompt - Dynamic

Prompt description

TRN10 – Report description – prompt screen - Manual	
Field label	**Description**
Year From	You can use this drop-down field to select the year, from which the report should contain the data. This field is mandatory.
Month From	You can use this drop-down field to select the month, from which the report should contain the data. For valid report results, the current month cannot be selected. This field is mandatory.

Year To	You can use this drop-down field offers the possibility to select the end year of the period, for which the report should contain the data. This field is mandatory.
Month To	You can use this drop-down field to select the end month of the period, for which the report should contain the data. For valid report results, the current month cannot be selected. This field is mandatory.
Currency	You can use this drop-down field to select from all valid currencies in CLM/RTGS. This field is mandatory.
Select element to export as XML, CSV or Excel Data	- CLM - RTGS This field is optional.

Table 136 - TRN10 - Prompt description - Manual

TRN10 – Report description – prompt screen - Dynamic	
Field label	**Description**
Currency	You can use this drop-down field to select from all valid currencies in CLM/RTGS. This field is mandatory.

Reference Month	Indicates the end-point of the date range for which the dynamic report should contain data. Valid values: - Current Month - Previous Month This field is mandatory.
Number of Months (incl. Ref. Month)	Indicates the start-point of the date range for which the dynamic report should contain data. The system will automatically calculate the start of the date range based upon the date at the time of execution. This field is mandatory.
Select element to export as XML, CSV or Excel Data	- CLM - RTGS This field is optional.

Table 137 - TRN10 - Prompt description - Dynamic

Screenshot - output screen

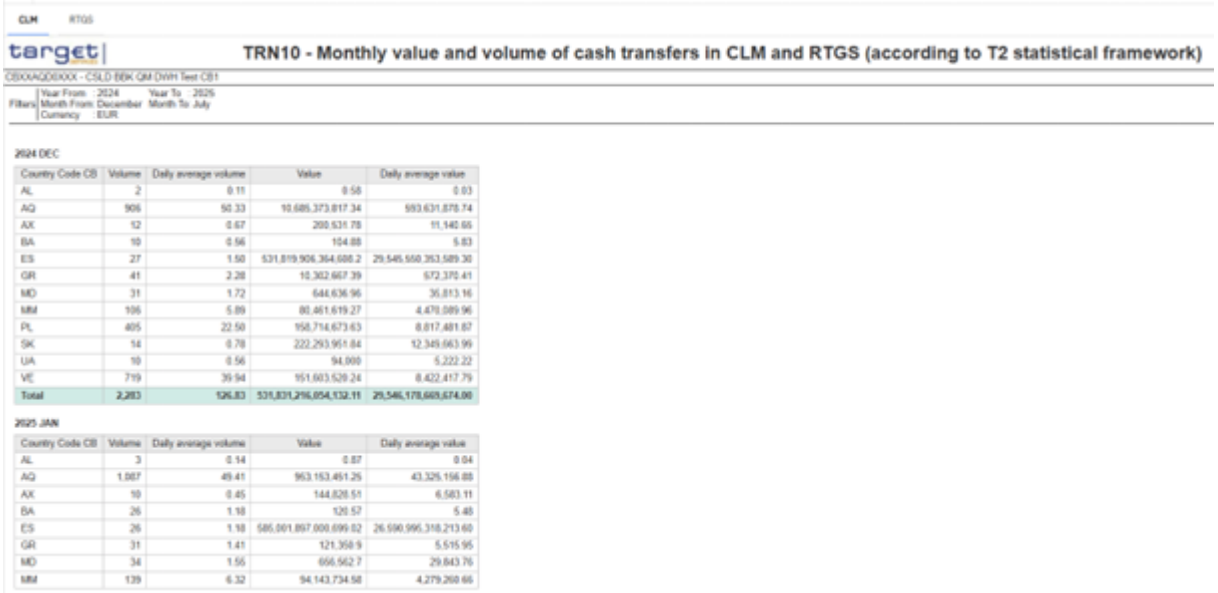

Figure 373 - TRN10 output ~~(1)~~ – CLM {CR-173}

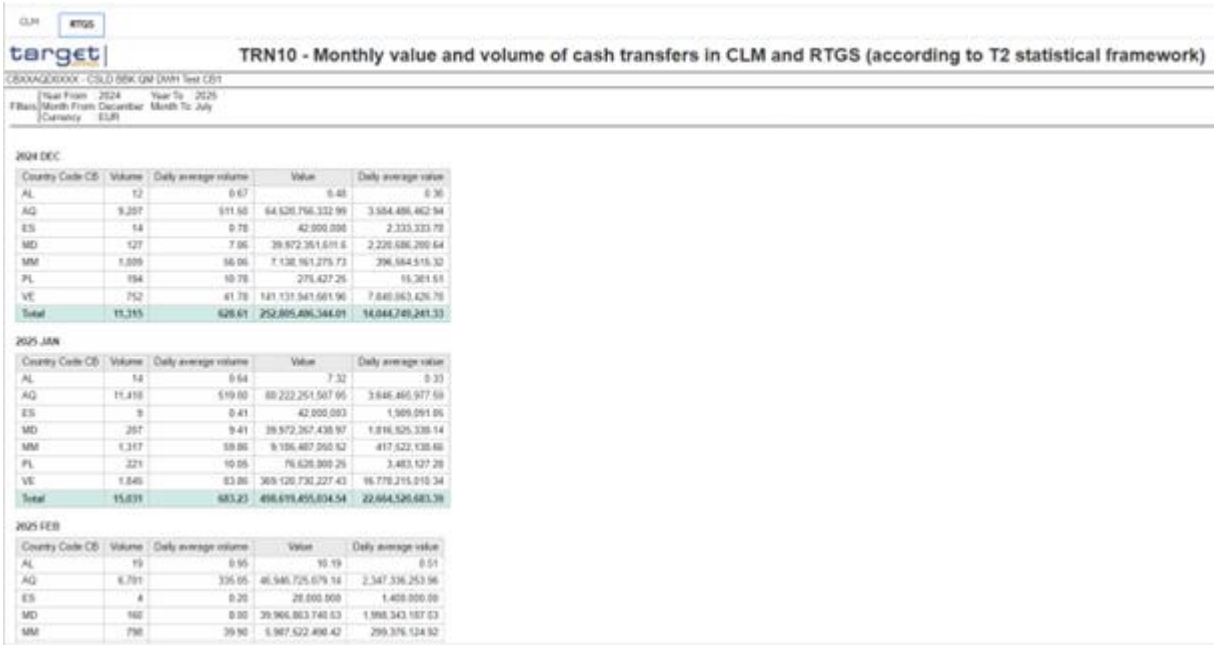

Figure 374 - TRN10 output ~~(2)~~ – RTGS {CR-173}

Output description

TRN10 – Report description – output screen	
Field label	**Description**
One table per Service (CLM/RTGS) and month with following data per CB in each table. The table is sorted by month ascending and then within each table by ISO country code.	
Country Code CB	ISO Country Code of the CB
Volume	Number of all cash transfers (according to T2 statistical framework) of the CB in the chosen month.
Daily average volume	Calculated from the sum of volumes divided by the number of business days for the chosen currency in the chosen month.
Value	Sum of the value of all cash transfers (according to T2 statistical framework) of the CB in the chosen month.
Daily average value	Calculated from the sum of values divided by the number of business days for the chosen currency in the chosen month.
Total	Total of volumes and values listed in the preceding rows over all CBs.

Table 138 - TRN10 - Output description

All rights reserved.

5.14.11 TRN11 – Monthly value and volume of cash transfers between system entities

Context of usage

The report TRN11 provides information on the monthly volume and value of cash transfers in CLM and RTGS between all accounts belonging to the system entities/CBs active in a selected currency. The Figures for the bilateral payment flows between all accounts of system entities/CBs which are differentiated by Euro area and by EU CBs are dis-played as totals.

CBs can retrieve aggregated volume and value information for each bi-lateral CB/system entity relationship.

This report can be used by CB users only.

Report access

This report can be reached in the following way:

[Team Content] >> [Predefined Reports] >> [TRN – Transaction Report] >> [TRN11]

Screenshot – prompt

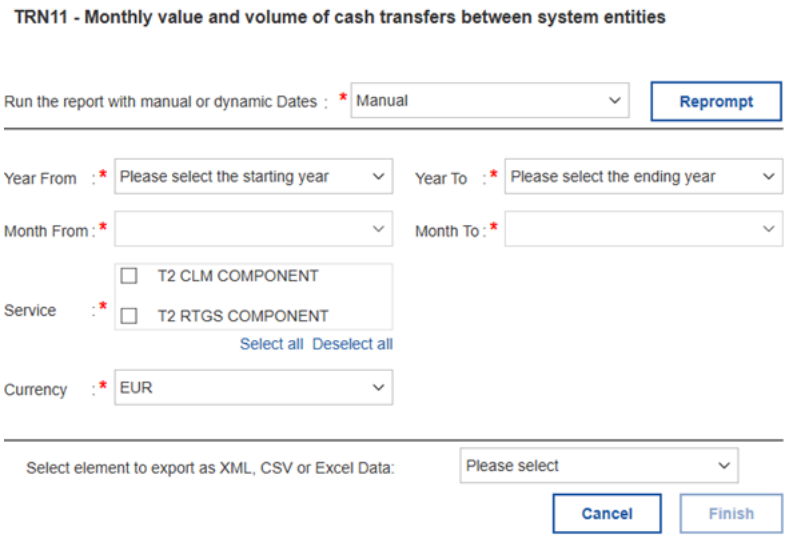

Figure 375 - TRN11 prompt - Manual

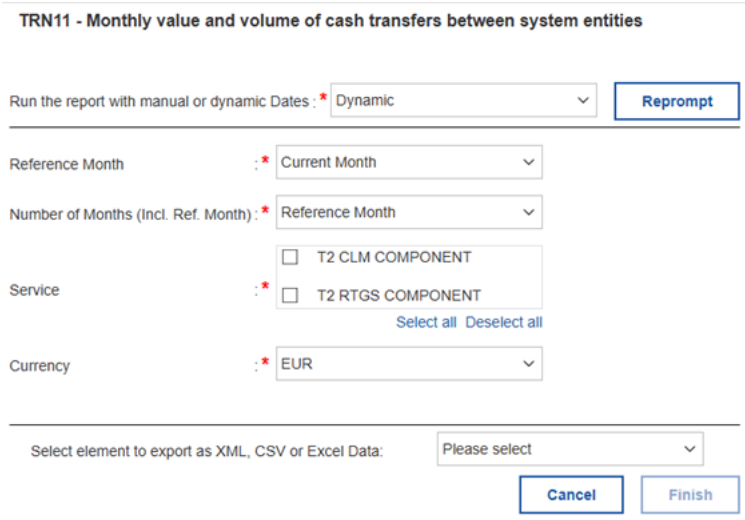

Figure 376 - TRN11 prompt - Dynamic

Prompt description

TRN11 – Report description – prompt screen - Manual	
Field label	**Description**
Year from	You can use this drop-down field to select the year, from which the report should contain the data. This field is mandatory.
Month from	You can use this drop-down field to select the month, from which the report should contain the data. For valid report results, the current month cannot be selected. This field is mandatory.
Year to	You can use this drop-down field to select the end year of the period, for which the report should contain the data. This field is mandatory
Month to	You can use this drop-down field to select the end month of the period, for which the report should contain the data. For valid report results, the current month cannot be selected. This field is mandatory.

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Service	You can use this drop-down field to select a Service. Possible values: - CLM - RTGS - CLM + RTGS This field is mandatory.
Currency	You can use this drop-down field to select from all valid currencies in CLM/RTGS. This field is mandatory.
Select element to export as XML, CSV or Excel Data	- Overall volume (Euro area) - Overall volume (non-Euro area) - Overall value (Euro area) - Overall value (non-Euro area) This field is optional.

Table 139 - TRN11 - Prompt description - Manual

TRN11 – Report description – prompt screen - Dynamic	
Field label	**Description**
Reference Month	Indicates the end-point of the date range for which the dynamic report should contain data. Valid values: - Current Month - Previous Month This field is mandatory.
Number of Months (incl. Ref. Month)	Indicates the start-point of the date range for which the dynamic report should contain data. The system will automatically calculate the start of the date range based upon the date at the time of execution. This field is mandatory.

All rights reserved.

Service	You can use this drop-down field to select a Service. Possible values: - CLM - RTGS - CLM + RTGS This field is mandatory.
Currency	You can use this drop-down field to select from all valid currencies in CLM/RTGS. This field is mandatory.
Select element to export as XML, CSV or Excel Data	- Overall volume (Euro area) - Overall volume (non-Euro area) - Overall value (Euro area) - Overall value (non-Euro area) This field is optional.

Table 140 - TRN11 - Prompt description - Dynamic

All rights reserved.

Screenshot - output screen

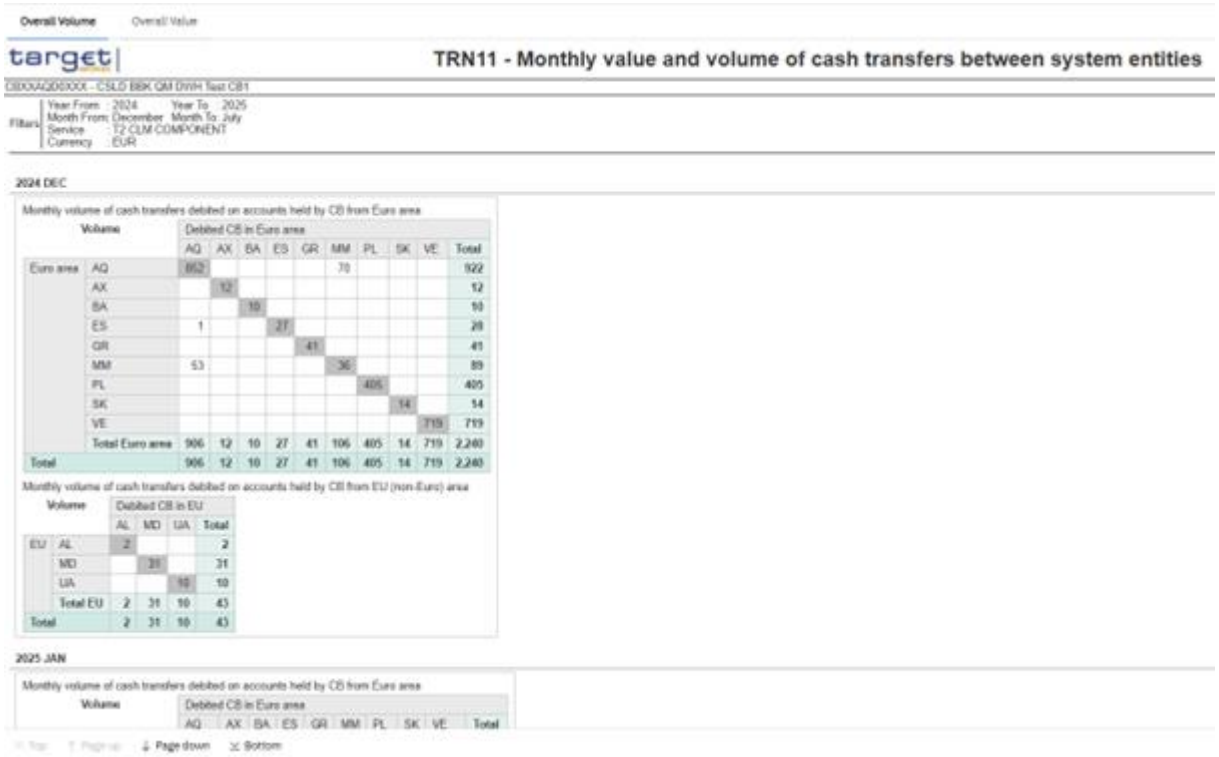

Figure 377 - TRN11 output ~~(1)~~ – Overall volume {CR-173}

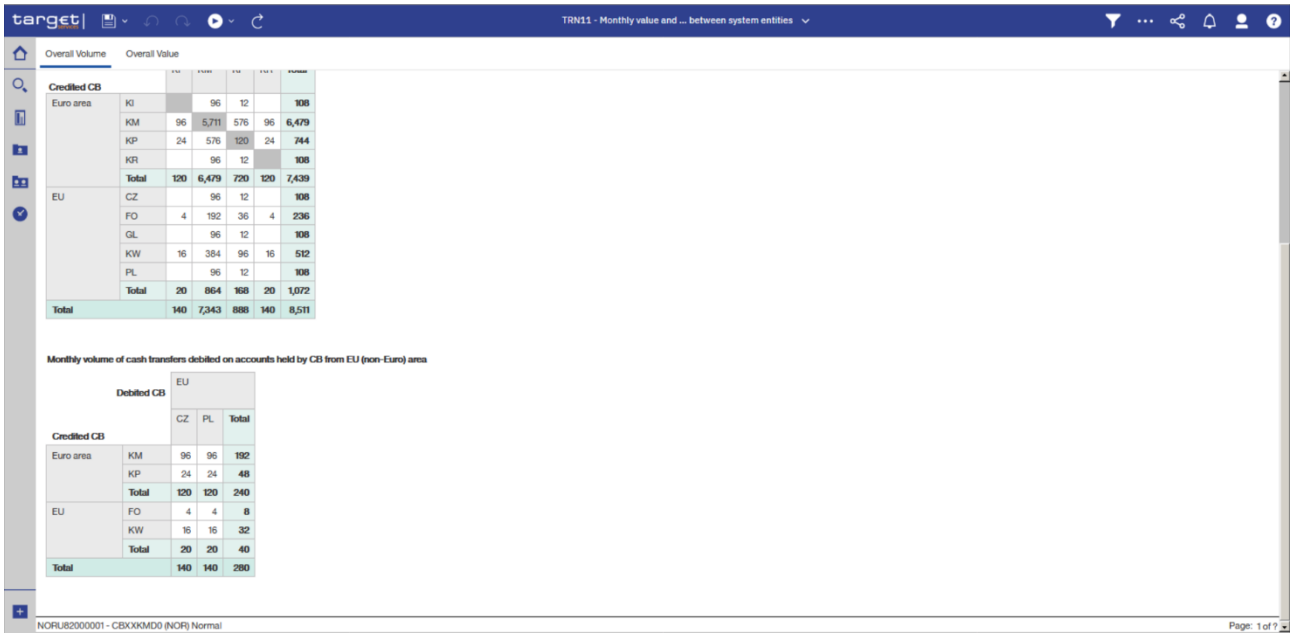

Figure 378 - ~~TRN11 output (2)~~ {CR-173}

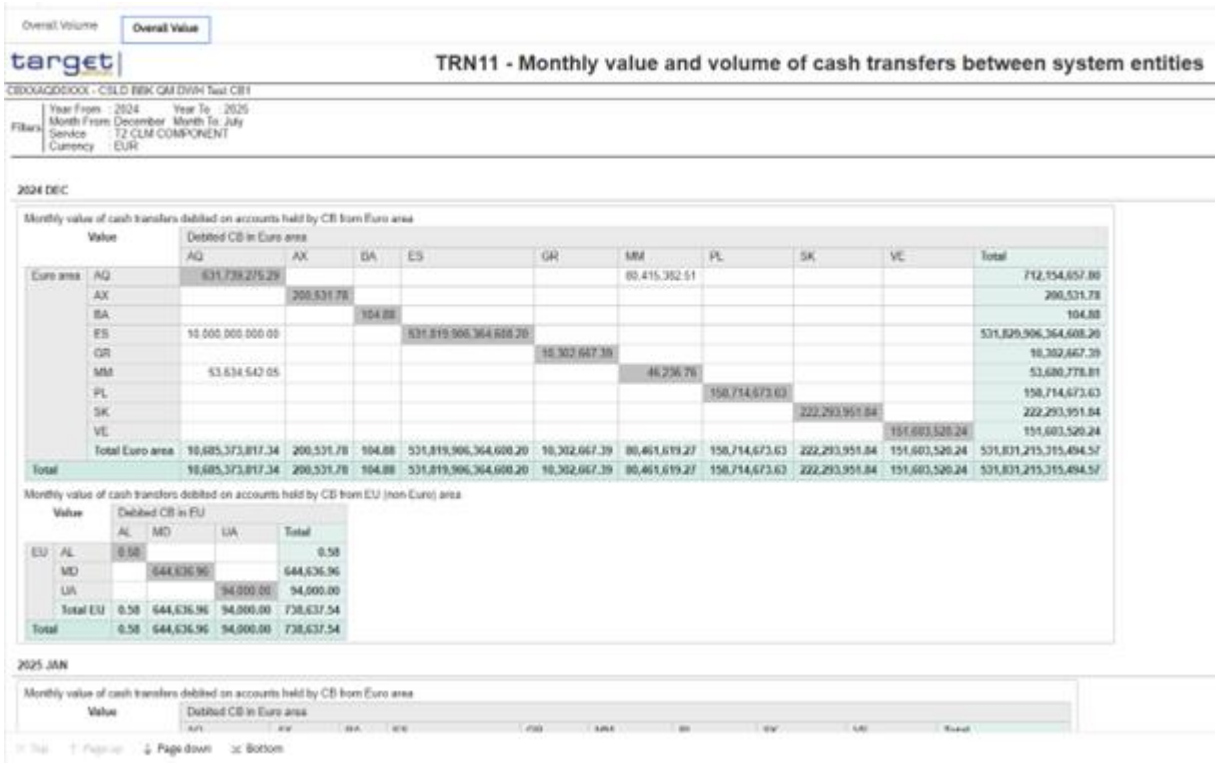

Figure 379 - TRN11 output ~~(3)~~ – Overall Value {CR-173}

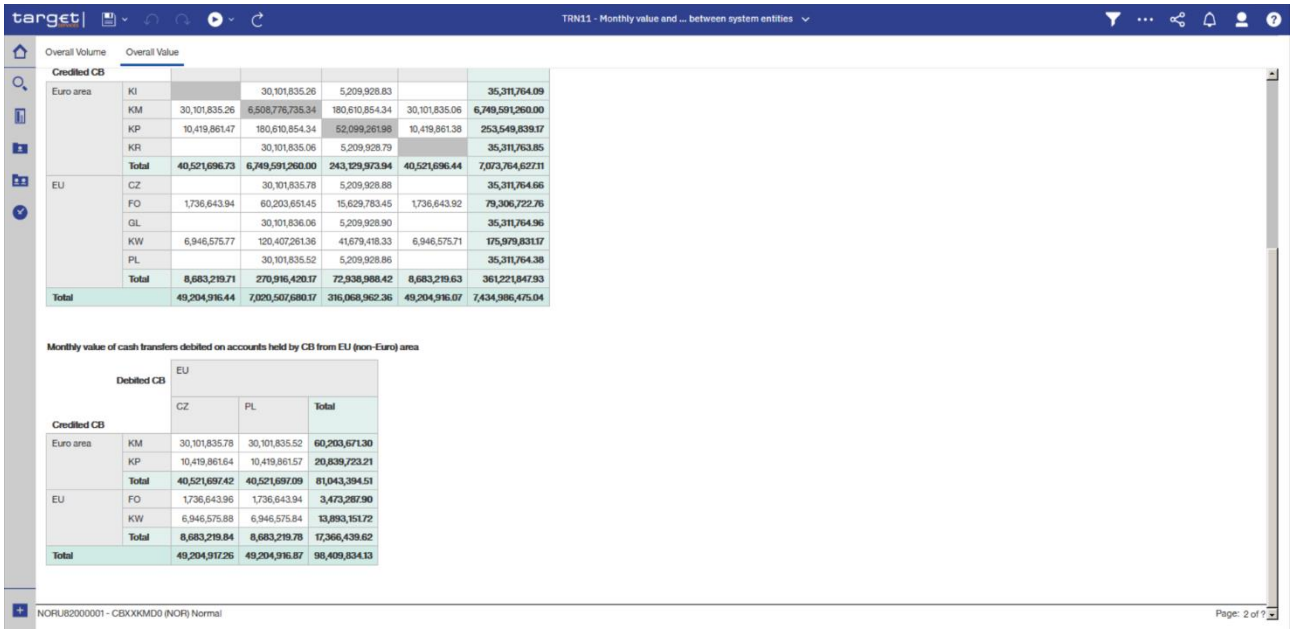

Figure 380 - ~~TRN11 output (4)~~ {CR-173}

TRN11 – Report description – output screen – table overall volume	
Field label	**Description**
Only cash transfers are selected for this report according to T2 statistical framework. One block for each month with two tables.	
Table “Cash transfers debited on accounts held by CB from Euro area”. The tables are sorted by month and within each table by “Euro area”.	
Columns “Euro area”	Each column contains one ISO country code. All EUR-countries are listed. The tables are sorted by month and within each table by this column.
Rows “Euro area”	Each row contains one ISO country code. All EUR-countries are listed.
None	Every cell in the matrix is filled with the daily average volume of cash transfers, where the accounts held by the CB represented by the country code in each column were debited and where the accounts held by the CB represented by the country code in each row were credited. Cells, where both the country code in the column header and the country code in the row header are the same are shaded light grey.
Total	In the cells of this column, all values from the respective row are added up.
Total Euro-area	In the cells of this row, all values from the respective columns are added up.
Rows “EU/non-Euro area”	Each row contains one ISO country code. All EU-countries (non Euro-area) are listed.
None	Every cell in the matrix is filled with the daily average volume of cash transfers, where the accounts held by the CB represented by the country code in each column were debited and where the accounts held by the CB represented by the country code in each row were credited.
Column “Total”	In the cells of this column, all values from the respective row are added up.
Row “Total EU/non-Euro area	In the cells of this row, all values from the respective columns are added up.
Row over all columns “Total”	In the cells of this row, all values from “Total Euro area” and “Total EU area” of the respective columns are added up.
Table “ Cash transfers debited on accounts held by CB from EU (non-Euro) area”	
Columns “EU/non-Euro area”	Each row contains one ISO country code. All EU-countries (non Euro area) are listed
Rows “Euro area”	Each row contains one ISO country code. All Euro-countries are listed.
None	Every cell in the matrix is filled with the daily average volume of cash transfers, where the accounts held by the CB represented by the country code in each

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	column were debited and where the accounts held by the CB represented by the country code in each row were credited.
Column header “Total”	In the cells of this column, all values from the respective row are added up.
Row header “Total Euro-area”	In the cells of this row, all values from the respective columns are added up.
Rows “EU/non-Euro area”	Each row contains one ISO country code. All EU-countries (non Euro-area) are listed.
None	Every cell in the matrix is filled with the daily average volume of cash transfers, where the accounts held by the CB represented by the country code in each column were debited and where the accounts held by the CB represented by the country code in each row were credited. Cells, where both the country code in the column header and the country code in the row header are the same are shaded light grey.
Column “Total”	In the cells of this column, all values from the respective row are added up.
Row “Total EU area”	In the cells of this row, all values from the respective columns are added up.
Row over all columns “Total”	In the cells of this row, all values from “Total Euro area” and “Total EU area” of the respective columns are added up.

Table 141 - TRN11 - Output description - Table overall volume

TRN11 – Report description – output screen – table overall value
This table has the same structure as the previous table (Overall Volume) with the difference that here the daily average values are displayed.

Table 142 - TRN11 - Output description - Table overall value

6 T2S Predefined reports

6.1 T2S Cash account (SCT)

6.1.1 SCT01 – Finalised matched instructions

Context of Usage

This report shows the cash activity for all finalised matched settlement instructions (SI) at CB, PB or T2S dedicated cash account level, during a selected period of time. The volume of finalised matched instructions per transaction type / sub-category together with the aggregated matched values and settled values are shown.

This report can be used by CB users.

Report Access

This report can be reached in the following way:

- Content >> Team Content >> T2S >> Predefined Reports >> SCT - T2S Cash account >> SCT01

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Screenshot

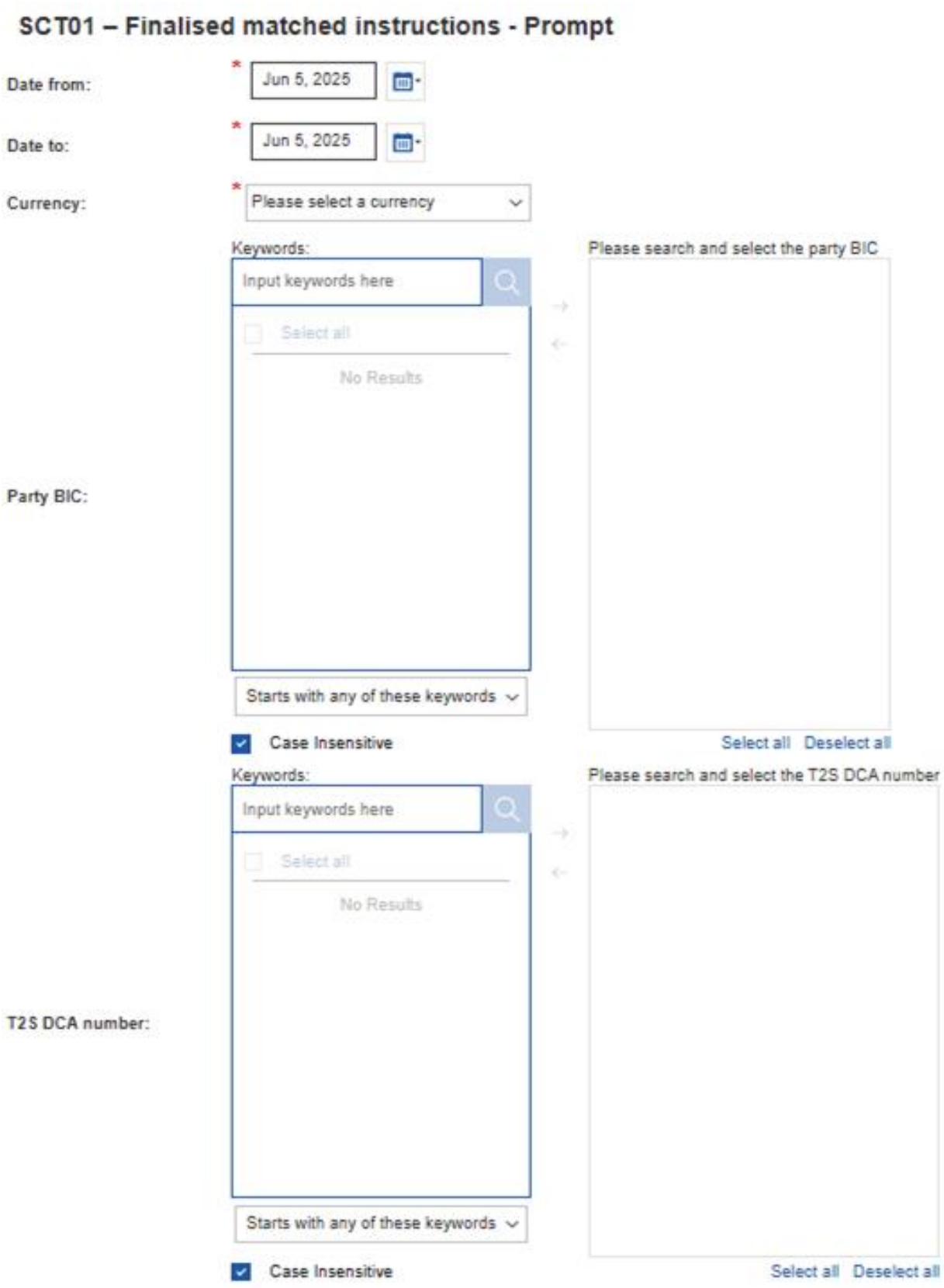
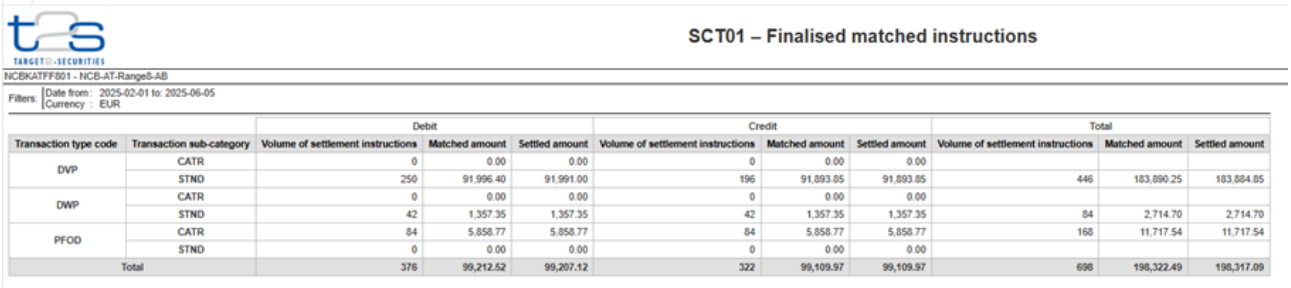


Figure 381 - SCT01 prompt screen

Field Description

SCT01 – Finalised matched instructions – Prompt Screen	
Date from	You can select the date by clicking on the calendar. This field is mandatory.
Date to	You can select the end date of the period, for which the report should contain the data by clicking on the calendar. For valid report results, the current day cannot be selected. This field is mandatory.
Currency	You can use this drop-down field to select the currency. This field is mandatory.
Party BIC	You can use this drop-down field to select one or several party BIC. This field will show all related BICs, which belong to the default data scope of the user's party. This field is optional.
T2S DCA number	You can use this drop-down field to select one or several T2S DCA numbers. Only T2S DCA numbers denominated in the selected currency that belong to the party BIC(s) can be selected. If no party BIC is selected (the optional field was left empty), then this list contains all account numbers of all parties in the data scope and selected currency. One or more account numbers from the list can be selected. If no account number is selected, then the report output is created for all account numbers which match the selected currency, within all selected parties. This field is optional.

Screenshot



SCT01 – Finalised matched instructions

NCBKATFF801 - NCB-AT-Range8-AB

Filters: Date from : 2025-02-01 to: 2025-06-05
Currency : EUR

		Debit			Credit			Total		
Transaction type code	Transaction sub-category	Volume of settlement instructions	Matched amount	Settled amount	Volume of settlement instructions	Matched amount	Settled amount	Volume of settlement instructions	Matched amount	Settled amount
DVP	CATR	0	0.00	0.00	0	0.00	0.00			
	STND	250	91,996.40	91,991.00	196	91,893.85	91,893.85	446	183,890.25	183,884.85
DWP	CATR	0	0.00	0.00	0	0.00	0.00			
	STND	42	1,357.35	1,357.35	42	1,357.35	1,357.35	84	2,714.70	2,714.70
PFOD	CATR	84	5,858.77	5,858.77	84	5,858.77	5,858.77	168	11,717.54	11,717.54
	STND	0	0.00	0.00	0	0.00	0.00			
Total		376	99,212.52	99,207.12	322	99,109.97	99,109.97	698	198,322.49	198,317.09

Figure 382 - SCT01 output screen

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Field Description

SCT01 – Finalised matched instructions – Output Screen	
Transaction type code	Shows the transaction type code of the settlement transaction. Possible values are: - DVP (delivery versus payment) - DWP (delivery with payment) - PFOD (payment free of delivery)
Transaction sub-category	Shows the transaction sub-category of the settlement transaction.
Debit	
Volume of settlement instructions	A count of all finalised matched SIs on the debit side during the selected date range, per transaction type code and sub-category.
Matched amount	Sum of the matched settlement amounts of all finalised matched SIs on the debit side during the selected date range per transaction type code and sub-category.
Settled amount	Sum of the settled settlement amounts of all finalised matched SIs on the debit side during the selected date range per transaction type code and sub-category.
Credit	
Volume of settlement instructions	A count of all finalised matched SIs on the credit side during the selected date range, per transaction type code and sub-category.
Matched amount	Sum of the matched settlement amounts of all finalised matched SIs on the credit side during the selected date range per transaction type code and sub-category.
Settled amount	Sum of the settled settlement amounts of all finalised matched SIs on the credit side during the selected date range per transaction type code and sub-category.
Total (per transaction type code/settlement transaction sub-category)	
Volume of settlement instructions	Sum of ‘Volume of settlement instructions’ over debit and credit.
Matched amount	Sum of ‘Matched amount’ over debit and credit.

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Settled amount	Sum of ‘Settled amount’ over debit and credit.
Total	
Total	Sum for each column, summed over all transaction types / sub-category combinations.

6.1.2 SCT02 – Detailed matched settlement instructions

Context of Usage

This report shows all finalised settlement instructions (SIs) at CB or PB or T2S dedicated cash account level, during a chosen period of time.

The volume and values of settlement instructions are displayed per transaction type / sub-category / direction (debit or credit) and the settlement status.

This report can be used by CB users.

Report Access

This report can be reached in the following way:

- Content >> Team Content >> T2S >> Predefined Reports >> SCT - T2S Cash account >> SCT02

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Screenshot

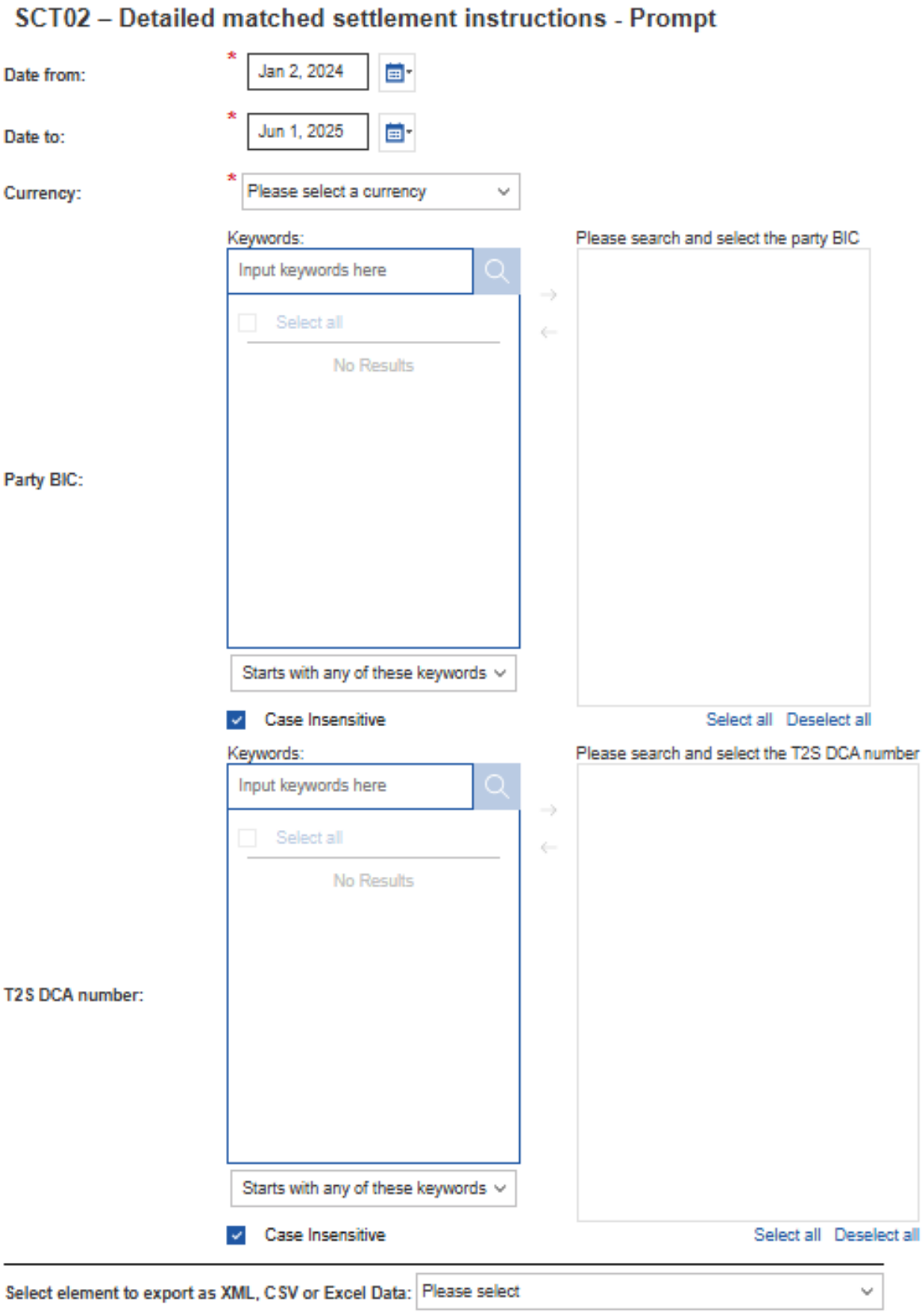
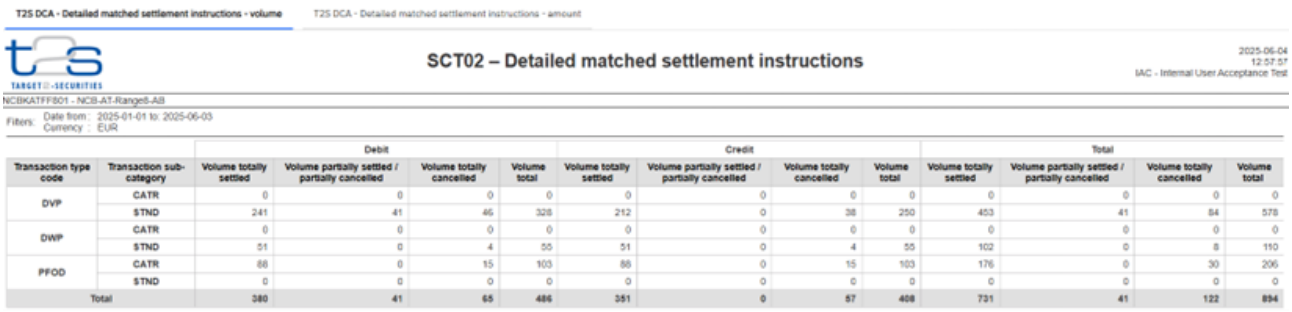


Figure 383 - SCT02 Prompt

Field Description

SCT02 – Detailed matched settlement instructions – Prompt screen	
Date from	You can select the date by clicking on the calendar. This field is mandatory.
Date to	You can select the end date of the period, for which the report should contain the data by clicking on the calendar. For valid report results, the current day cannot be selected. This field is mandatory.
Currency	You can use this drop-down field to select the currency. This field is mandatory.
Party BIC	You can use this drop-down field to select one or several party BIC. This field will show all related BICs, which belong to the default data scope of the user's party. This field is optional.
T2S DCA number	You can use this drop-down field to select one or several T2S DCA numbers. This field will show all related T2S DCAs, which belong to default data scope of the user's party and which belong to the parties selected in field "Party BIC". If no Party BICs are selected, this field shows all T2S DCA numbers belonging to the default data scope of the user's party. This field is optional.
Select element to export as XML, CSV or Excel Data	You can choose the elements you want to download as either XML, CSV or Excel Data. For this report, you can choose between the following tabs: - T2S DCA - Detailed matched settlement instructions – volume - T2S DCA - Detailed matched settlement instructions – amount This field is optional.

Screenshot


T2S DCA - Detailed matched settlement instructions - volume T2S DCA - Detailed matched settlement instructions - amount

SCT02 – Detailed matched settlement instructions

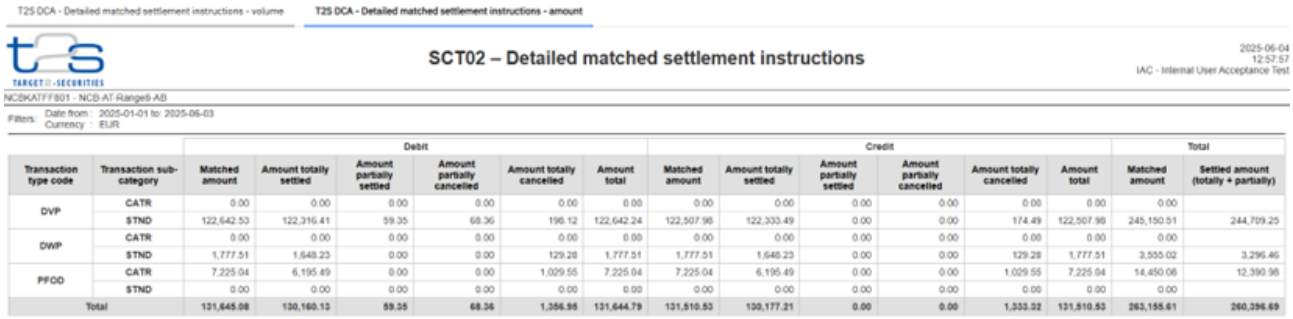
2025-06-04 12:57:57
IAC - Internal User Acceptance Test

NCBKATFFB01 - NCB-AT-RangeS-AB

Filters: Date from: 2025-01-01 to: 2025-06-03
Currency: EUR

Transaction type code	Transaction sub-category	Debit				Credit				Total			
		Volume totally settled	Volume partially settled / partially cancelled	Volume totally cancelled	Volume total	Volume totally settled	Volume partially settled / partially cancelled	Volume totally cancelled	Volume total	Volume totally settled	Volume partially settled / partially cancelled	Volume totally cancelled	Volume total
DVP	CATR	0	0	0	0	0	0	0	0	0	0	0	0
	STND	241	41	46	328	212	0	38	250	453	41	84	578
DWP	CATR	0	0	0	0	0	0	0	0	0	0	0	0
	STND	51	0	4	55	51	0	4	55	102	0	8	110
PFOD	CATR	88	0	15	103	88	0	15	103	176	0	30	206
	STND	0	0	0	0	0	0	0	0	0	0	0	0
Total		380	41	65	486	351	0	57	408	731	41	122	894

Figure 384 - SCT02 output screen, tab 1



T2S DCA - Detailed matched settlement instructions - volume | T2S DCA - Detailed matched settlement instructions - amount

SCT02 – Detailed matched settlement instructions

2025-06-04 12:57:57
IAC - Internal User Acceptance Test

NCBKATFF801 - NCB-AT-Range8-AB

Filters: Date from: 2025-01-01 to: 2025-06-03
Currency: EUR

		Debit						Credit						Total	
Transaction type code	Transaction sub-category	Matched amount	Amount totally settled	Amount partially settled	Amount partially cancelled	Amount totally cancelled	Amount total	Matched amount	Amount totally settled	Amount partially settled	Amount partially cancelled	Amount totally cancelled	Amount total	Matched amount	Settled amount (totally + partially)
DVP	CATR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	STND	122,642.53	122,316.41	59.35	68.36	196.12	122,642.24	122,507.98	122,333.49	0.00	0.00	174.49	122,507.98	245,150.51	244,709.25
DWP	CATR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	STND	1,777.51	1,648.23	0.00	0.00	129.28	1,777.51	1,777.51	1,648.23	0.00	0.00	129.28	1,777.51	3,555.02	3,296.46
PFOD	CATR	7,225.04	6,195.49	0.00	0.00	1,029.55	7,225.04	7,225.04	6,195.49	0.00	0.00	1,029.55	7,225.04	14,450.08	12,390.98
	STND	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Total		131,645.08	130,160.13	59.35	68.36	1,356.95	131,644.79	131,510.53	130,177.21	0.00	0.00	1,333.32	131,510.53	263,155.61	260,396.69

Figure 385 - SCT02 output screen, tab 2

Field Description

SCT02 – Detailed matched settlement instructions – Output screen – Tab 1 T2S DCA – Detailed matched settlement instructions - volume	
Transaction type code	Shows the transaction type code of the settlement transaction. Possible values are: - DVP (delivery versus payment) - DWP (delivery with payment) - PFOD (payment free of delivery)
Transaction sub-category	Shows the transaction sub-category of the settlement transaction.
Debit	
Volume totally settled	A count of the number of totally settled SIs found on the debit side within the requested period, per transaction type and sub-category.
Volume partially settled / partially cancelled	A count of the number of partially settled/partially cancelled SIs found on the debit side within the requested duration, per transaction type and sub-category.
Volume totally cancelled	A count of the number of totally cancelled matched SIs found on the debit side within the requested duration, per transaction type and sub-category.
Volume total	Sum of 'Volume totally settled', 'Volume partially settled / partially cancelled' and 'Volume totally cancelled' on the debit side, per transaction type and sub-category.
Credit	
Volume totally settled	A count of the number of totally settled SIs found on the credit side within the requested duration, per transaction type and sub-category.
Volume partially settled / partially cancelled	A count of the number of partially settled/partially cancelled SIs found on the credit side within the requested duration, per transaction type and sub-category.
Volume totally cancelled	A count of the number of totally cancelled matched SIs found on the credit side within the requested duration, per transaction type and sub-category.

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Volume total	Sum of 'Volume totally settled', 'Volume partially settled / partially cancelled' and 'Volume totally cancelled' on the credit side, per transaction type and sub-category.
Total (per transaction type code/settlement transaction sub-category)	
Volume totally settled	Sum of 'Volume totally settled' over debit and credit.
Volume partially settled / partially cancelled	Sum of 'Volume partially settled / partially cancelled' over debit and credit.
Volume totally cancelled	Sum of 'Volume totally cancelled' over debit and credit.
Volume total	Sum of 'Volume total' over debit and credit
Total	
Total	Sum for each column, summed over all transaction types / sub-category combinations.

SCT02 – Detailed matched settlement instructions - Output screen – Tab 2 **T2S DCA – Detailed matched settlement instructions - amount**	
Transaction type code	Shows the transaction type code of the settlement transaction. Possible values are: - DVP (delivery versus payment) - DWP (delivery with payment) - PFOD (payment free of delivery)
Transaction sub-category	Shows the transaction sub-category of the settlement transaction.
Debit	
Matched amount	Sum over matched settlement amounts of all finalised SIs on the debit side within the requested duration, per transaction type and sub-category.
Amount totally settled	Sum over settled settlement amounts of all finalised SIs on the debit side and totally settled within the requested duration, per transaction type and sub-category.
Amount partially settled	Sum over settled settlement amounts of all finalised SIs on the debit side and partially settled within the requested duration, per transaction type and sub-category.
Amount partially cancelled	Sum over all unsettled matched settlement amounts of all finalised SIS on the debit side and partially cancelled within

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	the requested duration, per transaction type and sub-category.
Amount totally cancelled	Sum of the matched settlement amounts of all finalised SIs on the debit side which were totally cancelled within the period 1 duration, per transaction type and sub-category.
Amount total	Sum of 'Matched amount, 'Amount totally settled', 'Amount partially settled', 'Amount partially cancelled' and 'Amount totally cancelled' on the debit side, per transaction type and sub-category.
Credit	
Matched amount	Sum over matched settlement amounts of all finalised SIs on the credit side within the requested duration, per transaction type and sub-category.
Amount totally settled	Sum over settled settlement amounts of all finalised SIs on the credit side and totally settled within the requested duration, per transaction type and sub-category.
Amount partially settled	Sum over settled settlement amounts of all finalised SIs on the credit side and partially settled within the requested duration, per transaction type and sub-category.
Amount partially cancelled	Sum over all unsettled matched settlement amounts of all finalised SIS on the credit side and partially cancelled within the requested duration, per transaction type and sub-category.
Amount totally cancelled	Sum of the matched settlement amounts of all finalised SIs on the credit side which were totally cancelled within the period 1 duration, per transaction type and sub-category.
Amount total	Sum of 'Matched amount, 'Amount totally settled', 'Amount partially settled', 'Amount partially cancelled' and 'Amount totally cancelled' on the credit side, per transaction type and sub-category.
Total (per transaction type code transaction sub-category)	
Matched amount	Sum of 'Matched amount over debit and credit.

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Settled amount (totally + partially)	Sum of ‘Amount totally settled’ plus ‘Amount partially settled’ over debit and credit.
Total	
Total	Sum for each column, summed over all transaction type / sub-category combinations.

6.1.3 SCT03 – Follow up by time slot of settlement activity

Context of Usage

This report shows all finalised settlement instructions (SIs) per time slots of the settlement date in an array at CB, PB or T2S DCA level, during a chosen period of time.

The settlement instructions (SI) are displayed as aggregated volumes and values according to the transaction type code, the transaction sub-category, the T2S-DCA debit/credit code, the settlement status and T2S time slot

This report can be used by CB users.

Report Access

This report can be reached in the following way:

- Content >> Team Content >> T2S >> Predefined Reports >> SCT - T2S Cash account >> SCT03

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Screenshot

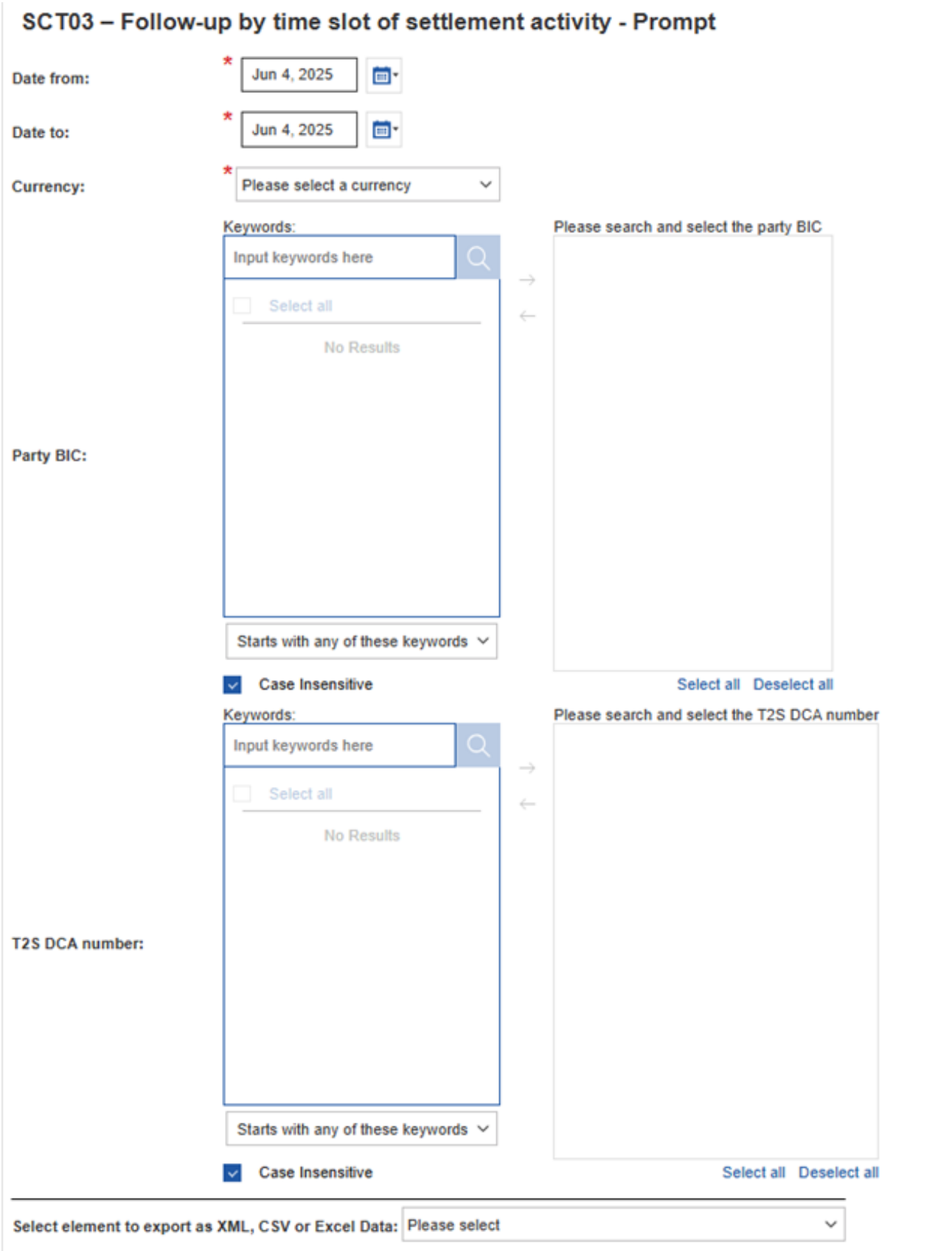

Figure 386 - SCT03 Prompt

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Field Description

SCT03 – Follow-up by time slot of settlement activity – Prompt screen	
Date from	You can select the date by clicking on the calendar. This field is mandatory.
Date to	You can select the end date of the period, for which the report should contain the data by clicking on the calendar. For valid report results, the current day cannot be selected. This field is mandatory.
Currency	You can use this drop-down field to select the currency. This field is mandatory.

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Party BIC	You can use this drop-down field to select one or several party BIC. This field will show all related BICs, which belong to the default data scope of the user's party. This field is optional.
T2S DCA number	You can use this drop-down field to select one or several T2S DCA numbers. This field will show all related T2S DCAs, which belong to default data scope of the user's party and which belong to the parties selected in field "Party BIC". If no Party BICs are selected, this field shows all T2S DCA numbers belonging to the default data scope of the user's party. This field is optional.
Select element to export as XML, CSV or Excel Data	You can choose the elements you want to download as either XML, CSV or Excel Data. For this report, you can choose between the following tabs: - T2S DCA – Follow-up by time slot of settlement activity – volume - T2S DCA – Follow-up by time slot of settlement activity – amount This field is optional.

Screenshot

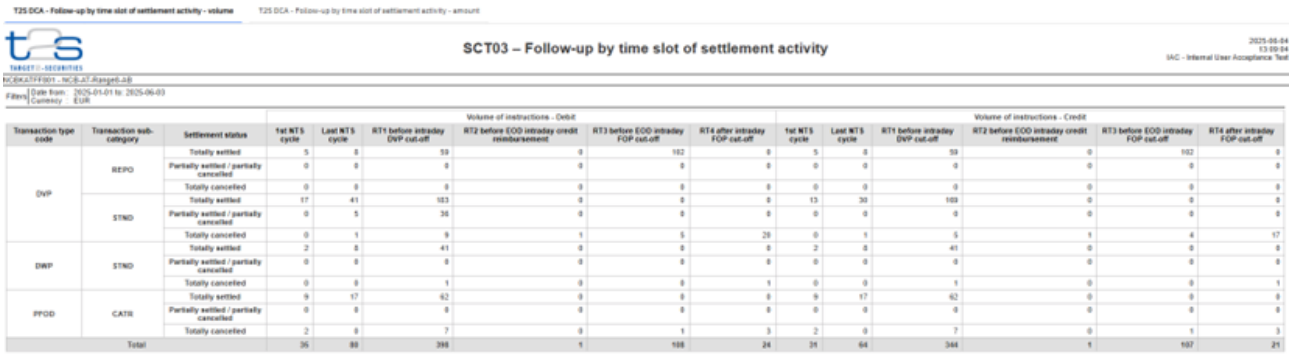

Figure 387 - SCT03 output screen, tab 1

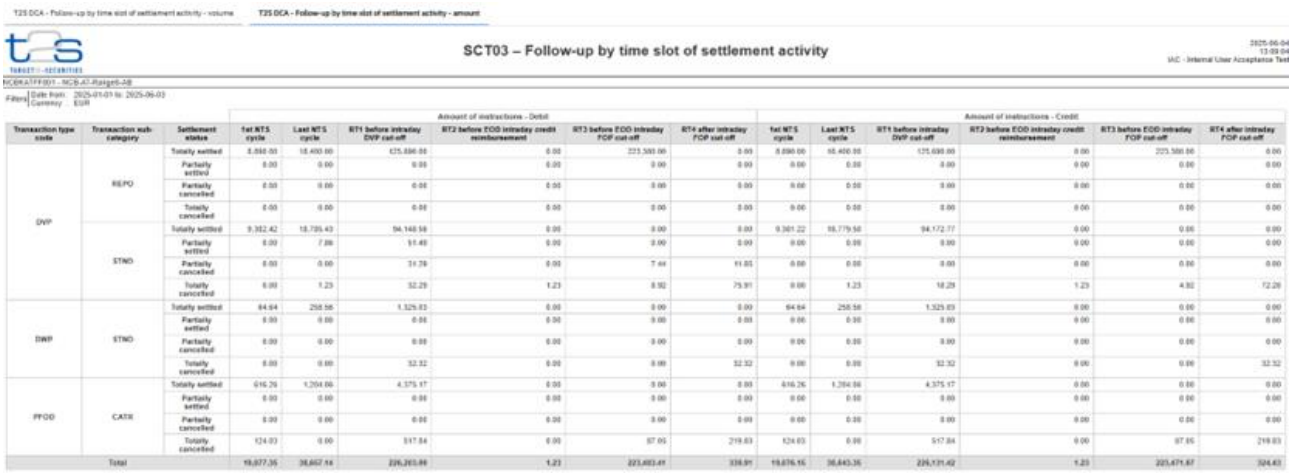

Figure 388 - SCT03 output screen, tab 2

Field Description

SCT03 – Follow-up by time slot of settlement activity – Output screen – Tab 1 T2S DCA – Follow-up by time slot of settlement activity - volume	
Transaction type code	Shows the transaction type code of the settlement transaction. Possible values are: - DVP (delivery versus payment) - DWP (delivery with payment) - PFOD (payment free of delivery)
Transaction sub-category	Shows the transaction sub-category of the settlement transaction.
Settlement status	Shows the status of the settlement instruction. Possible values are: - Totally settled - Partially settled / partially cancelled - Totally cancelled
Volume of instructions - debit	
Time slots (one line per time slot): - 1st NTS cycle - Last NTS cycle - RT1 before intraday DVP cut-off	Shows the aggregated volume of the SIs (debit side) for each designated time slot, within the transaction type code / transaction subcategory / settlement status combination.

- RT2 before EOD intraday credit reimbursement - RT3 before EOD intraday FOP cut-off - RT4 after intraday FOP cut-off	
Volume of instructions - credit	
Time slots (one line per time slot): - 1st NTS cycle - Last NTS cycle - RT1 before intraday DVP cut-off - RT2 before EOD intraday credit reimbursement - RT3 before EOD intraday FOP cut-off - RT4 after intraday FOP cut-off	Shows the aggregated volume of the SIs (credit side) for each designated time slot, within the transaction type code / transaction subcategory / settlement status combination.
Total	
Total	Sum for each column, summed over all transaction type / sub-category combinations.

SCT03 – Follow-up by time slot of settlement activity – Output screen – Tab 2 **T2S DCA – Follow-up by time slot of settlement activity - amount**	
Transaction type code	Shows the transaction type code of the settlement transaction. Possible values are: - DVP (delivery versus payment) - DWP (delivery with payment) - PFOD (payment free of delivery)
Transaction sub-category	Shows the transaction sub-category of the settlement transaction.
Settlement status	Shows the status of the settlement instruction. Possible values are: - Totally settled

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	• Partially settled • Totally cancelled • Partially cancelled
Amount of instructions - debit	
Time slots (one line per time slot): • 1st NTS cycle • Last NTS cycle • RT1 before intraday DVP cut-off • RT2 before EOD intraday credit reimbursement • RT3 before EOD intraday FOP cut-off • RT4 after intraday FOP cut-off	Shows the aggregated amount of the SIs (debit side) for each designated time slot, within the transaction type code / transaction subcategory / settlement status combination.
Amount of instructions - credit	

Time slots (one line per time slot): - 1st NTS cycle - Last NTS cycle - RT1 before intraday DVP cut-off - RT2 before EOD intraday credit reimbursement - RT3 before EOD intraday FOP cut-off - RT4 after intraday FOP cut-off	Shows the aggregated amount of the SIs (credit side) for each designated time slot, within the transaction type code / transaction subcategory / settlement status combination.
Total	
Total	Sum for each column, summed over all transaction type / sub-category combinations.

6.1.4 SCT04 – Comparison of settlement activity between two time periods

Context of Usage

This report shows the settlement activity for two time periods at CB, PB or T2S dedicated cash account level, to allow its comparison between these two periods of time.

The settlement instructions (SI) are displayed as aggregated volumes and values according to the transaction type code, the transaction sub-category, the T2S-DCA debit/credit code and the settlement status.

This report can be used by CB users.

Report Access

This report can be reached in the following way:

- Content >> Team Content >> T2S >> Predefined Reports >> SCT - T2S Cash account >> SCT04

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Screenshot

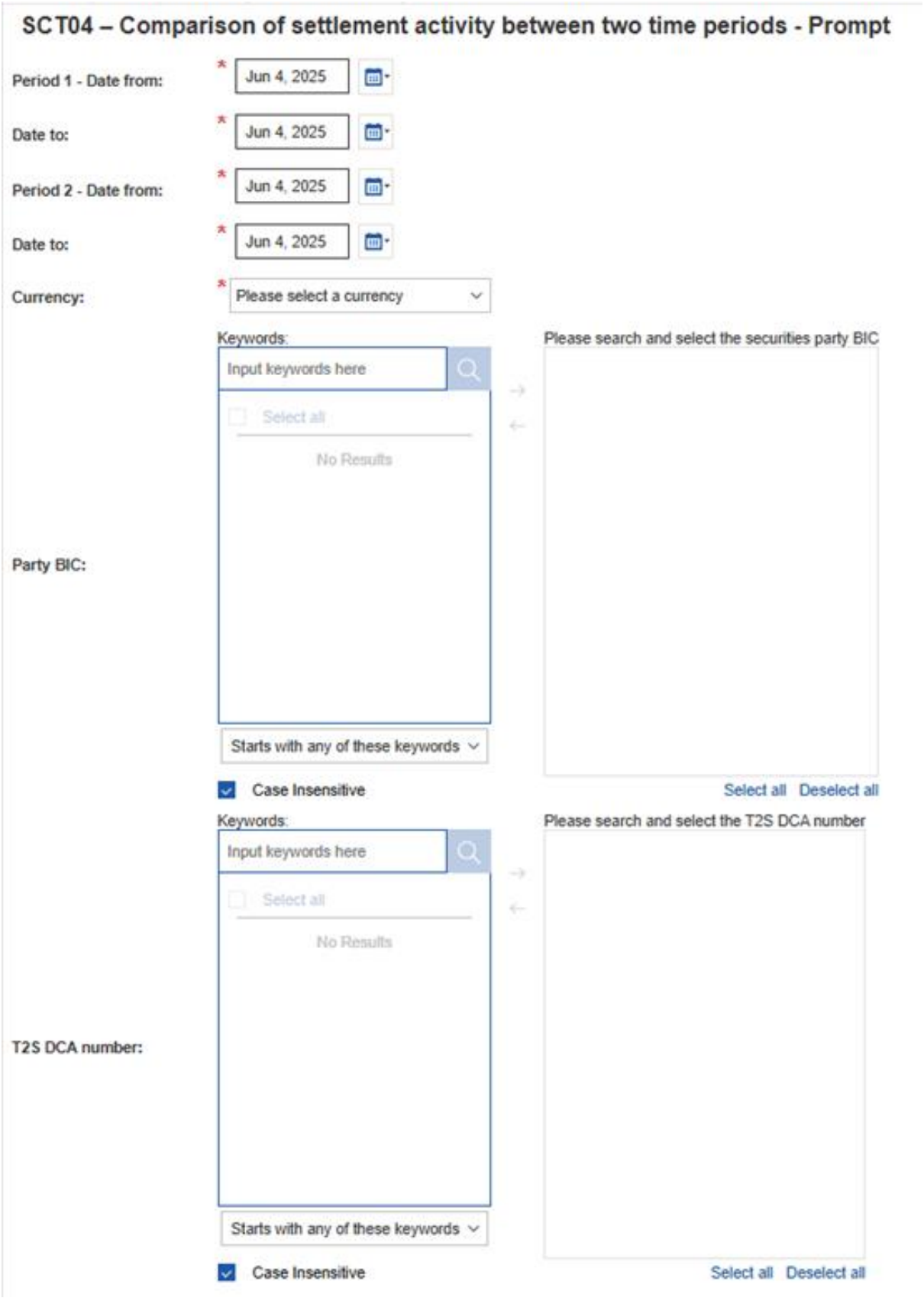

Figure 389 - SCT04 Prompt

Field Description

SCT04 – Comparison of settlement activity between two time periods – Prompt Screen	
Period 1 Date From	You can select the date by clicking on the calendar. This field is mandatory.
Period 1 Date To	You can select the end date of the period, for which the report should contain the data by clicking on the calendar. For valid report results, the current day cannot be selected. This field is mandatory.
Period 2 Date From	You can select the date by clicking on the calendar. This field is mandatory.
Period 2 Date To	You can select the end date of the period, for which the report should contain the data by clicking on the calendar. For valid report results, the current day cannot be selected. This field is mandatory.

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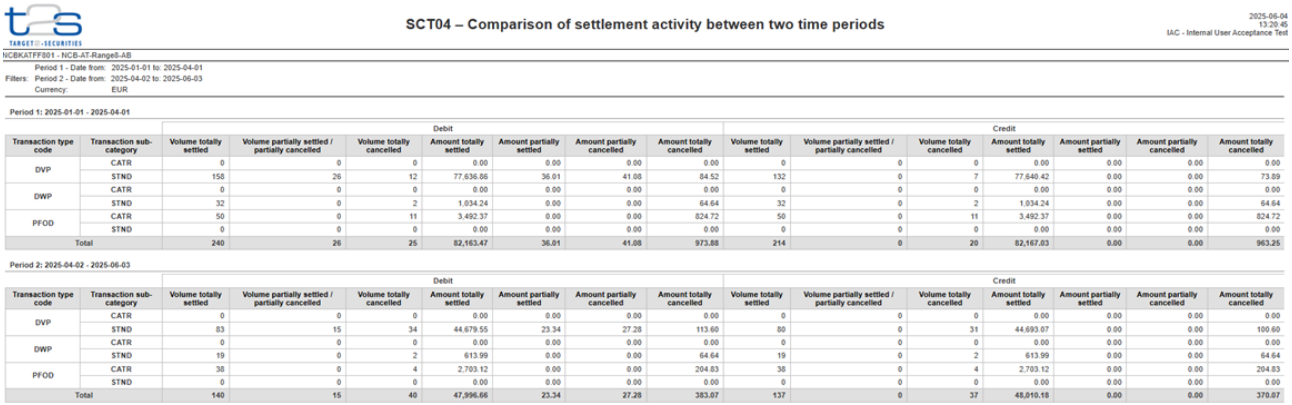
Currency	You can use this drop-down field to select the currency. This field is mandatory.
Party BIC	You can use this drop-down field to select one or several party BIC. This field will show all related BICs, which belong to the default data scope of the user's party. This field is optional.
T2S DCA number	You can use this drop-down field to select one or several T2S DCA numbers. This field will show all related T2S DCAs, which belong to default data scope of the user's party and which belong to the parties selected in field "Party BIC". If no Party BICs are selected, this field shows all T2S DCA numbers belonging to the default data scope of the user's party. This field is optional.

Screenshot



SCT04 – Comparison of settlement activity between two time periods

2025-06-04
13:20:45
IAC - Internal User Acceptance Test

NCBKATFF001 - NCB-AT-Range8-AB
Filters: Period 1 - Date from: 2025-01-01 to: 2025-04-01
Period 2 - Date from: 2025-04-02 to: 2025-06-03
Currency: EUR

Period 1: 2025-01-01 - 2025-04-01

		Debit							Credit						
Transaction type code	Transaction sub-category	Volume totally settled	Volume partially settled / partially cancelled	Volume totally cancelled	Amount totally settled	Amount partially settled	Amount partially cancelled	Amount totally cancelled	Volume totally settled	Volume partially settled / partially cancelled	Volume totally cancelled	Amount totally settled	Amount partially settled	Amount partially cancelled	Amount totally cancelled
DVP	CATR	0	0	0	0.00	0.00	0.00	0.00	0	0	0	0.00	0.00	0.00	0.00
	STND	158	26	12	77,636.86	36.01	41.08	84.52	132	0	7	77,640.42	0.00	0.00	73.89
DWP	CATR	0	0	0	0.00	0.00	0.00	0.00	0	0	0	0.00	0.00	0.00	0.00
	STND	32	0	2	1,034.24	0.00	0.00	64.64	32	0	2	1,034.24	0.00	0.00	64.64
PFOD	CATR	50	0	11	3,492.37	0.00	0.00	824.72	50	0	11	3,492.37	0.00	0.00	824.72
	STND	0	0	0	0.00	0.00	0.00	0.00	0	0	0	0.00	0.00	0.00	0.00
Total		240	26	25	82,163.47	36.01	41.08	973.88	214	0	20	82,167.03	0.00	0.00	963.25

Period 2: 2025-04-02 - 2025-06-03

		Debit							Credit						
Transaction type code	Transaction sub-category	Volume totally settled	Volume partially settled / partially cancelled	Volume totally cancelled	Amount totally settled	Amount partially settled	Amount partially cancelled	Amount totally cancelled	Volume totally settled	Volume partially settled / partially cancelled	Volume totally cancelled	Amount totally settled	Amount partially settled	Amount partially cancelled	Amount totally cancelled
DVP	CATR	0	0	0	0.00	0.00	0.00	0.00	0	0	0	0.00	0.00	0.00	0.00
	STND	83	15	34	44,679.55	23.34	27.28	113.60	80	0	31	44,693.07	0.00	0.00	100.60
DWP	CATR	0	0	0	0.00	0.00	0.00	0.00	0	0	0	0.00	0.00	0.00	0.00
	STND	19	0	2	613.99	0.00	0.00	64.64	19	0	2	613.99	0.00	0.00	64.64
PFOD	CATR	38	0	4	2,703.12	0.00	0.00	204.83	38	0	4	2,703.12	0.00	0.00	204.83
	STND	0	0	0	0.00	0.00	0.00	0.00	0	0	0	0.00	0.00	0.00	0.00
Total		140	15	40	47,996.66	23.34	27.28	383.07	137	0	37	48,010.18	0.00	0.00	370.07

Figure 390 - SCT04 output screen

Field Description

SCT04 – Comparison of settlement activity between two time periods – Output Screen	
Period 1	
Transaction type code	Shows the transaction type code of the settlement transaction. Possible values are: - DVP (delivery versus payment) - DWP (delivery with payment) - PFOD (payment free of delivery)
Transaction sub-category	Shows the transaction sub-category of the settlement transaction.

Debit	
Volume totally settled	A count of the number of totally settled SIs found on the debit side in the period 1 duration, per transaction type and sub-category.
Volume partially settled/partially cancelled	A count of the number of partially settled/partially cancelled SIs found on the debit side in the period 1 duration, per transaction type and sub-category.
Volume totally cancelled	A count of the number of totally cancelled matched SIs found on the debit side in the period 1 duration, per transaction type and sub-category.
Amount totally settled	Sum of the settled settlement amounts of all finalised SIs that were debited and totally settled within the period 1 duration, per transaction type and sub-category.
Amount partially settled	Sum of all partial settlement amounts of all finalised SIs that were debited and reached final status within the period 1 duration, per transaction type and sub-category.
Amount partially cancelled	Sum of all unsettled settlement amounts of all finalised SIs that were debited and reached final status within the period 1 duration, per transaction type and sub-category.
Amount totally cancelled	Sum of the settlement amounts of all finalised SIs on the debit side which were totally cancelled within the period 1 duration, per transaction type and sub-category.
Credit	
Volume totally settled	A count of the number of totally settled SIs found on the credit side in the period 1 duration, per transaction type and sub-category.
Volume partially settled/partially cancelled	A count of the number of partially settled/partially cancelled SIs found on the credit side in the period 1 duration, per transaction type and sub-category.
Volume totally cancelled	A count of the number of totally cancelled matched SIs found on the credit side in the period 1 duration, per transaction type and sub-category.
Amount totally settled	Sum of the settled settlement amounts of all finalised SIs that were credited and totally settled within the period 1 duration, per transaction type and sub-category.
Amount partially settled	Sum of all partial settlement amounts of all finalised SIs that were credited and reached final status within the period 1 duration, per transaction type and sub-category.
Amount partially cancelled	Sum of all unsettled settlement amounts of all finalised SIs that were credited and reached final status within the period 1 duration, per transaction type and sub-category.
Amount totally cancelled	Sum of the settlement amounts of all finalised SIs on the credit side which were totally cancelled within the period 1 duration, per transaction type and sub-category.

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Total (Period 1 - final)	
Total	Sum for each column, summed over all transaction type / sub-category combinations.
Period 2	
Transaction type code	Shows the transaction type code of the settlement transaction. Possible values are: - DVP (delivery versus payment) - DWP (delivery with payment) - PFOD (payment free of delivery)
Transaction sub-category	Shows the transaction sub-category of the settlement transaction.
Debit	
Volume totally settled	A count of the number of totally settled SIs found on the debit side in the period 2 duration, per transaction type and sub-category.
Volume partially settled/partially cancelled	A count of the number of partially settled/partially cancelled SIs found on the debit side in the period 2 duration, per transaction type and sub-category.
Volume totally cancelled	A count of the number of totally cancelled matched SIs found on the debit side in the period 2 duration, per transaction type and sub-category.
Amount totally settled	Sum of the settled settlement amounts of all finalised SIs that were debited and totally settled within the period 2 duration, per transaction type and sub-category.
Amount partially settled	Sum of all partial settlement amounts of all finalised SIs that were debited and reached final status within the period 2 duration, per transaction type and sub-category.
Amount partially cancelled	Sum of all unsettled settlement amounts of all finalised SIs that were debited and reached final status within the period 2 duration, per transaction type and sub-category.
Amount totally cancelled	Sum of the settlement amounts of all finalised SIs on the debit side which were totally cancelled within the period 2 duration, per transaction type and sub-category.
Credit	
Volume totally settled	A count of the number of totally settled SIs found on the credit side in the period 2 duration, per transaction type and sub-category.
Volume partially settled/partially cancelled	A count of the number of partially settled/partially cancelled SIs found on the credit side in the period 2 duration, per transaction type and sub-category.
Volume totally cancelled	A count of the number of totally cancelled matched SIs found on the credit side in the period 2 duration, per transaction type and sub-category.

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Amount totally settled	Sum of the settled settlement amounts of all finalised SIs that were credited and totally settled within the period 2 duration, per transaction type and sub-category.
Amount partially settled	Sum of all partial settlement amounts of all finalised SIs that were credited and reached final status within the period 2 duration, per transaction type and sub-category.
Amount partially cancelled	Sum of all unsettled settlement amounts of all finalised SIs that were credited and reached final status within the period 2 duration, per transaction type and sub-category.
Amount totally cancelled	Sum of the settlement amounts of all finalised SIs on the credit side which were totally cancelled within the period 2 duration, per transaction type and sub-category.
Total (Period 2 - final)	
Total	Sum for each column, summed over all transaction type / sub-category combinations.

6.1.5 SCT05 – Follow-up by time slot of cash postings

Context of Usage

This report shows the cash postings at CB, PB or T2S dedicated cash account level, during a selected period of time. The cash postings activity of the specified T2S accounts are displayed as volume and amount for each time slot of the business day with a total per balance type.

This report can be used by CB users.

Report Access

This report can be reached in the following way:

- Content >> Team Content >> T2S >> Predefined Reports >> SCT - T2S Cash account >> SCT05

Screenshot

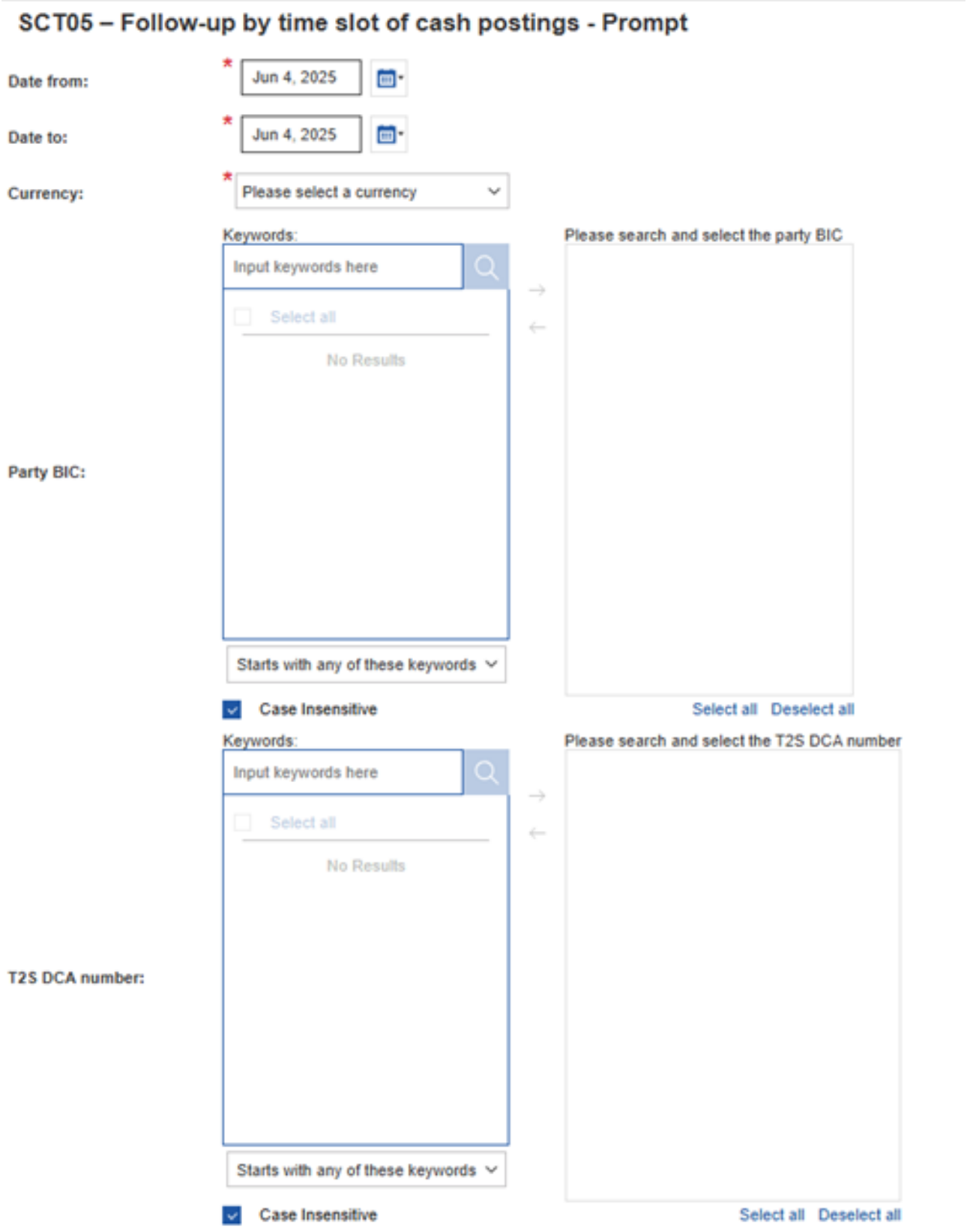
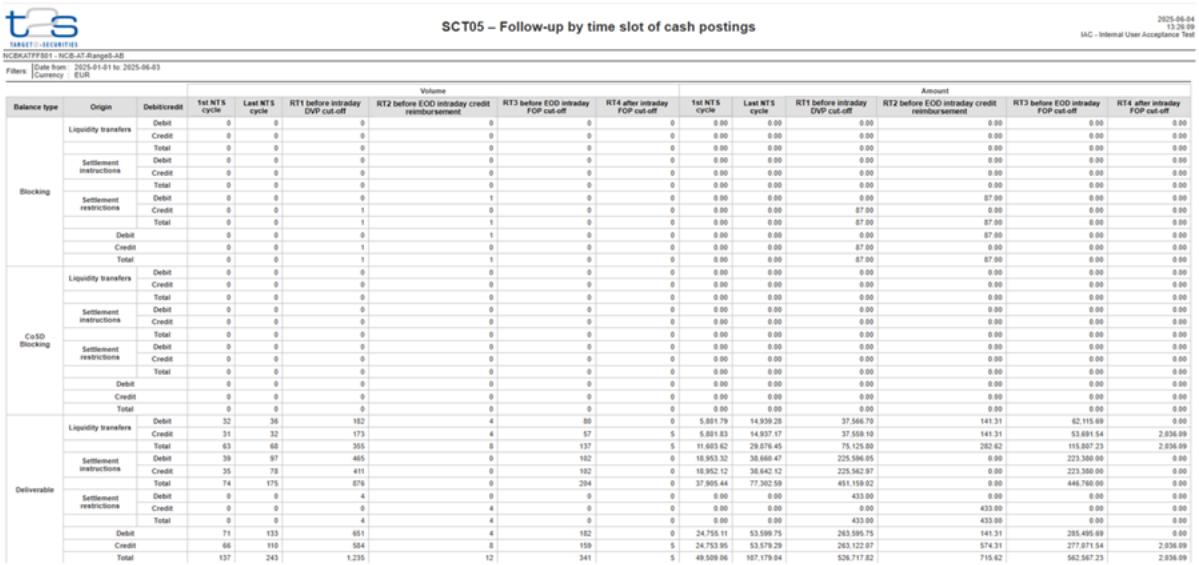


Figure 391 - SCT05 Prompt screen

Field Description

SCT05 – Follow-up by time slot of cash postings – Prompt Screen	
Date from	You can select the date by clicking on the calendar. This field is mandatory.
Date to	You can select the end date of the period, for which the report should contain the data by clicking on the calendar. For valid report results, the current day cannot be selected. This field is mandatory.
Currency	You can use this drop-down field to select the currency. This field is mandatory.
Party BIC	You can use this drop-down field to select one or several party BIC. This field will show all related BICs, which belong to the default data scope of the user's party. This field is optional.
T2S DCA number	You can use this drop-down field to select one or several T2S DCA numbers. This field will show all related T2S DCAs, which belong to default data scope of the user's party and which belong to the parties selected in field "Party BIC". If no Party BICs are selected, this field shows all T2S DCA numbers belonging to the default data scope of the user's party. This field is optional.

Screenshot



SCT05 – Follow-up by time slot of cash postings

2025-06-04 13:26:09
IAC - Internal User Acceptance Test

NCBKATFF001 - NCB-AT-Range5-AB

Filters: Date from: 2025-01-01 to: 2025-06-03 | Currency: EUR

Balance type	Origin	Debit/credit	Volume						Amount					
			1st NTS cycle	Last NTS cycle	RT1 before intraday DVP cut-off	RT2 before EOD intraday credit reimbursement	RT3 before EOD intraday FOP cut-off	RT4 after intraday FOP cut-off	1st NTS cycle	Last NTS cycle	RT1 before intraday DVP cut-off	RT2 before EOD intraday credit reimbursement	RT3 before EOD intraday FOP cut-off	RT4 after intraday FOP cut-off
Blocking	Liquidity transfers	Debit	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
		Credit	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
		Total	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
	Settlement instructions	Debit	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
		Credit	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
		Total	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
	Settlement restrictions	Debit	0	0	0	1	0	0	0.00	0.00	0.00	87.00	0.00	0.00
		Credit	0	0	1	0	0	0	0.00	0.00	87.00	0.00	0.00	0.00
		Total	0	0	1	1	0	0	0.00	0.00	87.00	87.00	0.00	0.00
	Debit		0	0	0	1	0	0	0.00	0.00	0.00	87.00	0.00	0.00
	Credit		0	0	1	0	0	0	0.00	0.00	87.00	0.00	0.00	0.00
	Total		0	0	1	1	0	0	0.00	0.00	87.00	87.00	0.00	0.00
CoSD Blocking	Liquidity transfers	Debit	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
		Credit	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
		Total	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
	Settlement instructions	Debit	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
		Credit	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
		Total	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
	Settlement restrictions	Debit	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
		Credit	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
		Total	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
	Debit		0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
	Credit		0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
	Total		0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
Deliverable	Liquidity transfers	Debit	32	36	182	4	80	0	5,801.79	14,939.28	37,566.79	141.31	62,115.69	0.00
		Credit	31	32	173	4	57	5	5,801.83	14,937.17	37,559.10	141.31	53,691.54	2,036.09
		Total	63	68	355	8	137	5	11,603.62	29,876.45	75,125.89	282.62	115,807.23	2,036.09
	Settlement instructions	Debit	39	97	465	0	102	0	16,953.32	38,660.47	225,596.05	0.00	223,380.00	0.00
		Credit	35	78	411	0	102	0	16,952.12	38,642.12	225,562.97	0.00	223,380.00	0.00
		Total	74	175	876	0	204	0	37,905.44	77,302.59	451,159.02	0.00	446,760.00	0.00
	Settlement restrictions	Debit	0	0	4	0	0	0	0.00	0.00	433.00	0.00	0.00	0.00
		Credit	0	0	0	4	0	0	0.00	0.00	0.00	433.00	0.00	0.00
		Total	0	0	4	4	0	0	0.00	0.00	433.00	433.00	0.00	0.00
	Debit		71	133	651	4	182	0	24,755.11	53,599.75	263,595.75	141.31	285,495.69	0.00
	Credit		66	110	584	8	159	5	24,753.95	53,579.29	263,122.07	574.31	277,071.54	2,036.09
	Total		137	243	1,235	12	341	5	49,509.06	107,179.04	526,717.82	715.62	562,567.23	2,036.09

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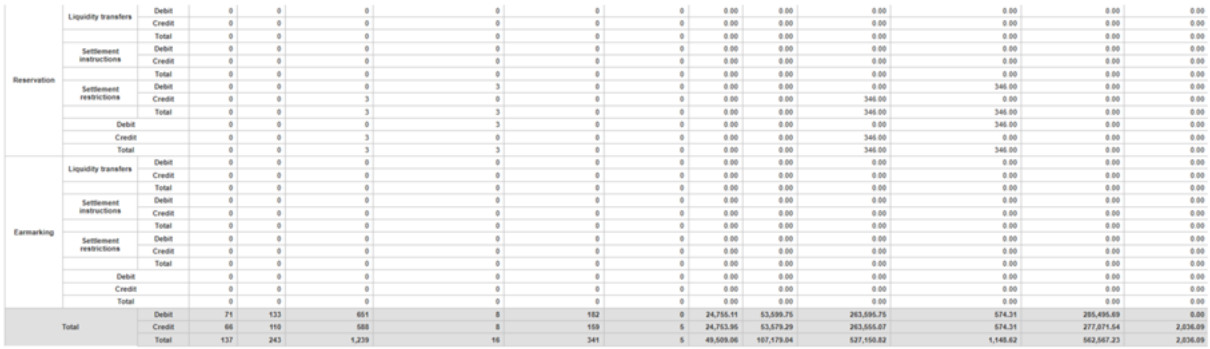

Figure 392 - SCT05 output screen

Field Description

SCT05 – Follow-up by time slot of cash postings – Output Screen	
Balance type	Shows the balance type for which the cash postings are displayed from the possible values: - Earmarking - Blocking - CoSD blocking - Deliverable - Reservation For origin = “Liquidity Transfer”, only balance type = Deliverable” is possible.
Origin	Shows the posting origin for which the cash postings are displayed from the possible values: - Settlement instructions - Settlement restrictions - Liquidity transfers (only balance type “Deliverable”) - Total for all types
Debit/Credit	The aggregation within origin of the cash postings on the debited/credited side
~~Credit~~	~~The aggregation within origin of the cash postings on the credited side~~ **{CR-863}**
Total (per balance type / origin)	The sums of ‘Volume’ and ‘Amount’ across ‘Debit’ and ‘Credit’ per column, within origin.
Volume **{CR-863}**	
Time slots: - 1st NTS cycle - Last NTS cycle	The aggregation within debit/credit/total of all cash postings found for each designated time-slot.

• RT1 before intraday DVP cut-off • RT2 before EOD intraday credit reimbursement • RT3 before EOD intraday FOP cut-off • RT4 after intraday FOP cut-off	
~~Volume~~	~~The aggregated number of cash postings are displayed for each balance type, origin and debit/credit/total within each of the above time slots.~~
~~Amount~~	~~The aggregated amount of cash postings are displayed for each balance type, origin and debit/credit/total within each of the above time slots.~~
Amount **{CR-863}**	
Total (per balance type): • Total earmarking • Total blocking • Total COSD blocking • Total deliverable • Total reservation	The sums of 'Volume' and 'Amount' across 'Debit' and 'Credit' per column, over all origins within balance type.
Total (final)	The sums of 'Volume' and 'Amount' across 'Debit' and 'Credit' per column, over all balance types.

6.2 T2S Securities account (SST)

6.2.1 SST01 – Finalised matched instructions

Context of Usage

This report shows volumes, amounts and quantities for all finalised settlement instructions (SIs), at CSD or CSD participant or securities account level, during a selected period of time. The settlement instructions are filtered according the settlement types of the securities and the currency of the settlements that the user selects.

The report delivers the volume of matched settlement instructions finalised during the selected period whether settled, partially settled or cancelled, the total of instructed quantity whether settled, partially settled or cancelled, the settled quantity, the matched amount and the settled amount per ISIN.

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The results are displayed aggregated per transaction type code, transaction sub-category and securities movement type.

This report can be used by CSD users.

Report Access

This report can be reached in the following way:

- Content >> Team Content >> T2S >> Predefined Reports >> SST - T2S Securities account >> SST01

All rights reserved.

Screenshot

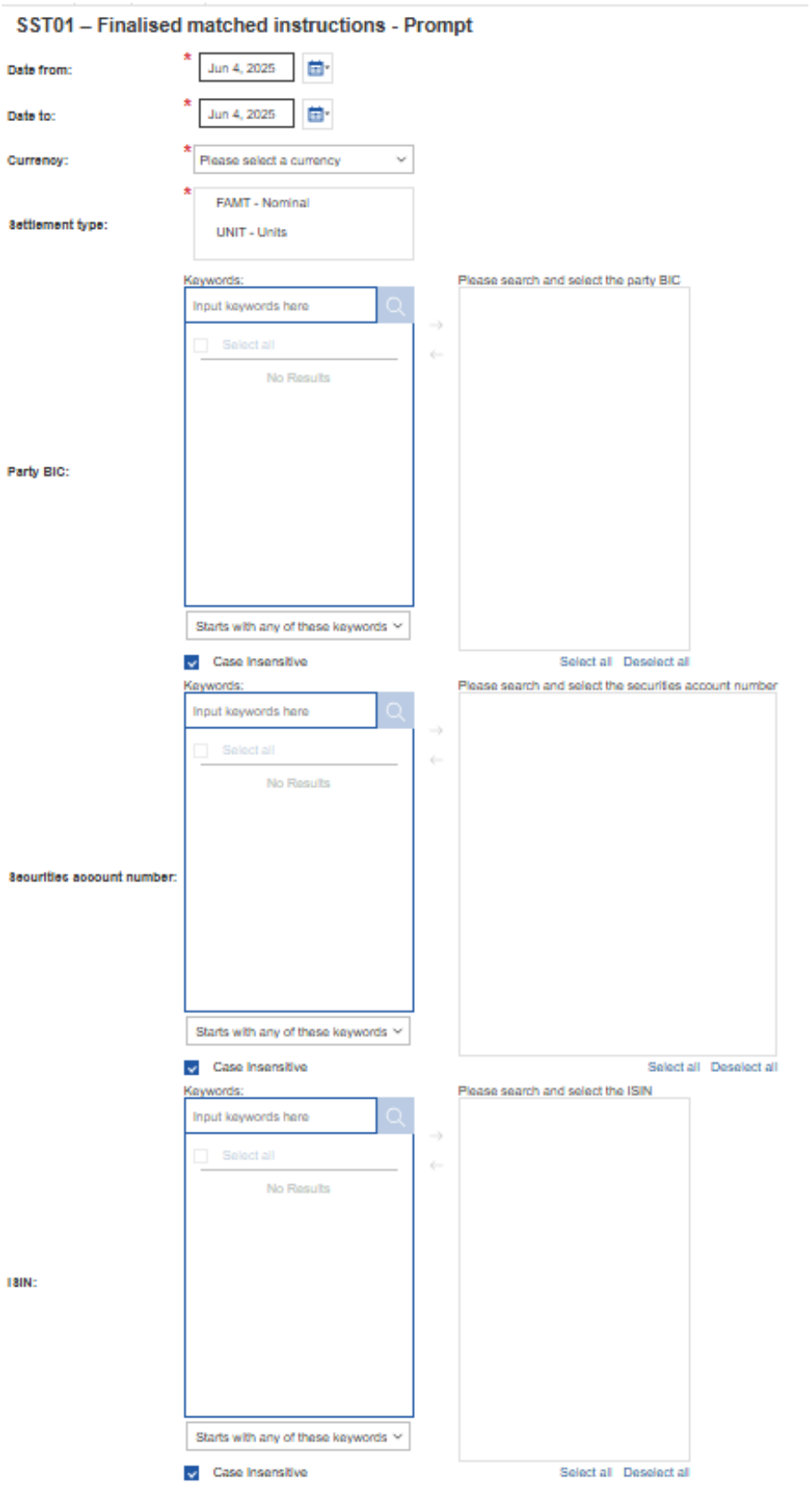

Figure 393 - SST01 prompt screen

Field Description

SST01 – Finalised matched instructions – Prompt Screen	
Date from	You can select the date by clicking on the calendar. This field is mandatory.
Date to	You can select the end date of the period, for which the report should contain the data by clicking on the calendar. For valid report results, the current day cannot be selected. This field is mandatory.
Currency	Currency in which the SIs are settled. You can use this drop-down field to select the currency. This field is mandatory.
Settlement type	Shows the settlement type Possible values: - FAMT – Nominal - UNIT - Units This field is mandatory

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Party BIC	You can use this drop-down field to select one or several party BIC. This field will show all related BICs, which belong to the default data scope of the user's party. This field is optional.
Securities account number	You can use this drop-down field to select one or several securities account numbers. This field will show all related securities accounts which belong to default data scope of the user's party and which belong to the parties selected in field "Party BIC". If no Party BICs are selected, this field shows all securities account numbers belonging to the default data scope of the user's party. This field is optional.
ISIN	The report output contains only settlement instructions with the selected securities. This field is optional.

Screenshot

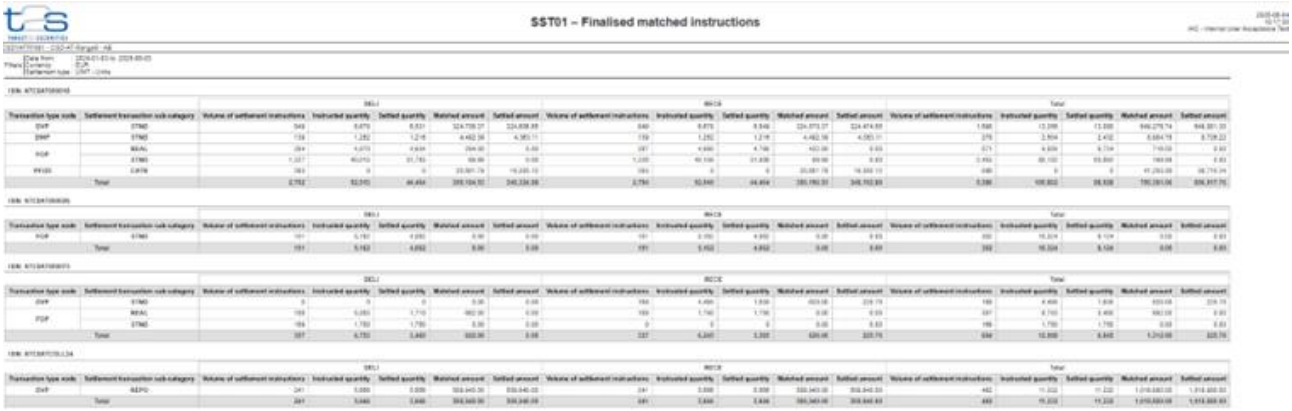

Figure 394 - SST01 output screen

Field Description

SST01 – Finalised matched instructions – Output Screen	
ISIN	Shows the data of the finalised matched instructions aggregated per ISIN
Transaction type code	Shows the settlement transaction type code set during the selected period duration of time from the possible values: - DVP (delivery versus payment) - DWP (delivery with payment) - FOP (free of payment) - PFOD (payment free of delivery)

Settlement transaction sub-category	Shows the subcategory of the settlement transaction from the possible values: - ALOP, BPDF, BPIN, BPSU, COBS, COBR, COCP, CORT, CORU, EPDE, EPIS, REAL, RERV, REPO, RPDE, RPIN, RPSU, STND
DELI	
Volume of settlement instructions	Count of the number of finalised DELI settlement instructions within the given search criteria, per transaction type code and settlement transaction sub-category.
Instructed quantity	Sum of instructed settlement quantities of the DELI settlement instructions, per transaction type code and sub-category
Settled quantity	Sum of settled quantities of the DELI settlement instructions, per transaction type code and sub-category
Matched amount	Sum of matched settlement amounts of the DELI settlement instructions, per transaction type code and sub-category
Settled amount	Sum of settled settlement amounts of the DELI settlement instructions, per transaction type code and sub-category
Total	Sum for each column in 'DELI' body, summed over all transaction type / sub-category combinations.
RECE	
Volume of settlement instructions	Count of the number of finalised RECE settlement instructions within the given search criteria, per transaction type code and settlement transaction sub-category.
Instructed quantity	Sum of instructed settlement quantities of the RECE settlement instructions, per transaction type code and sub-category
Settled quantity	Sum of settled quantities of the RECE settlement instructions, per transaction type code and sub-category
Matched amount	Sum of matched settlement amounts of the RECE settlement instructions, per transaction type code and sub-category
Settled amount	Sum of settled settlement amounts of the RECE settlement instructions, per transaction type code and sub-category
Total	Sum for each column in 'RECE' body, summed over all transaction type / sub-category combinations.
Total	
Volume of settlement instructions	The sum of 'Volume of settlement instructions' over DELI and RECE, per transaction type code and settlement transaction sub-category.
Instructed quantity	The sum of 'Instructed quantity' over DELI and RECE, per transaction type code and settlement transaction sub-category.

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Settled quantity	The sum of 'Settled quantity' over DELI and RECE, per transaction type code and settlement transaction sub-category.
Matched amount	The sum of 'Matched amount' over DELI and RECE, per transaction type code and settlement transaction sub-category.
Settled amount	The sum of 'Settled amount' over DELI and RECE, per transaction type code and settlement transaction sub-category.
Total	Sum for each column in 'Total' body, summed over all transaction type / sub-category combinations.

6.2.2 SST02 – Detailed finalised matched instructions

Context of Usage

This report shows detailed information on volume and quantities for all finalised settlement instructions (SIs), at CSD or CSD participant or securities account level, during a selected period of time. The settlement instructions are filtered according the settlement types of the securities that the user selects.

The volume, the instructed quantities and the settled quantities of settlement instructions are displayed per ISIN per settlement status.

The results are displayed aggregated per transaction type code, transaction sub-category and securities movement type and as totals.

This report can be used by CSD users.

Report Access

This report can be reached in the following way:

- Content >> Team Content >> T2S >> Predefined Reports >> SST - T2S Securities account >> SST02

Screenshot

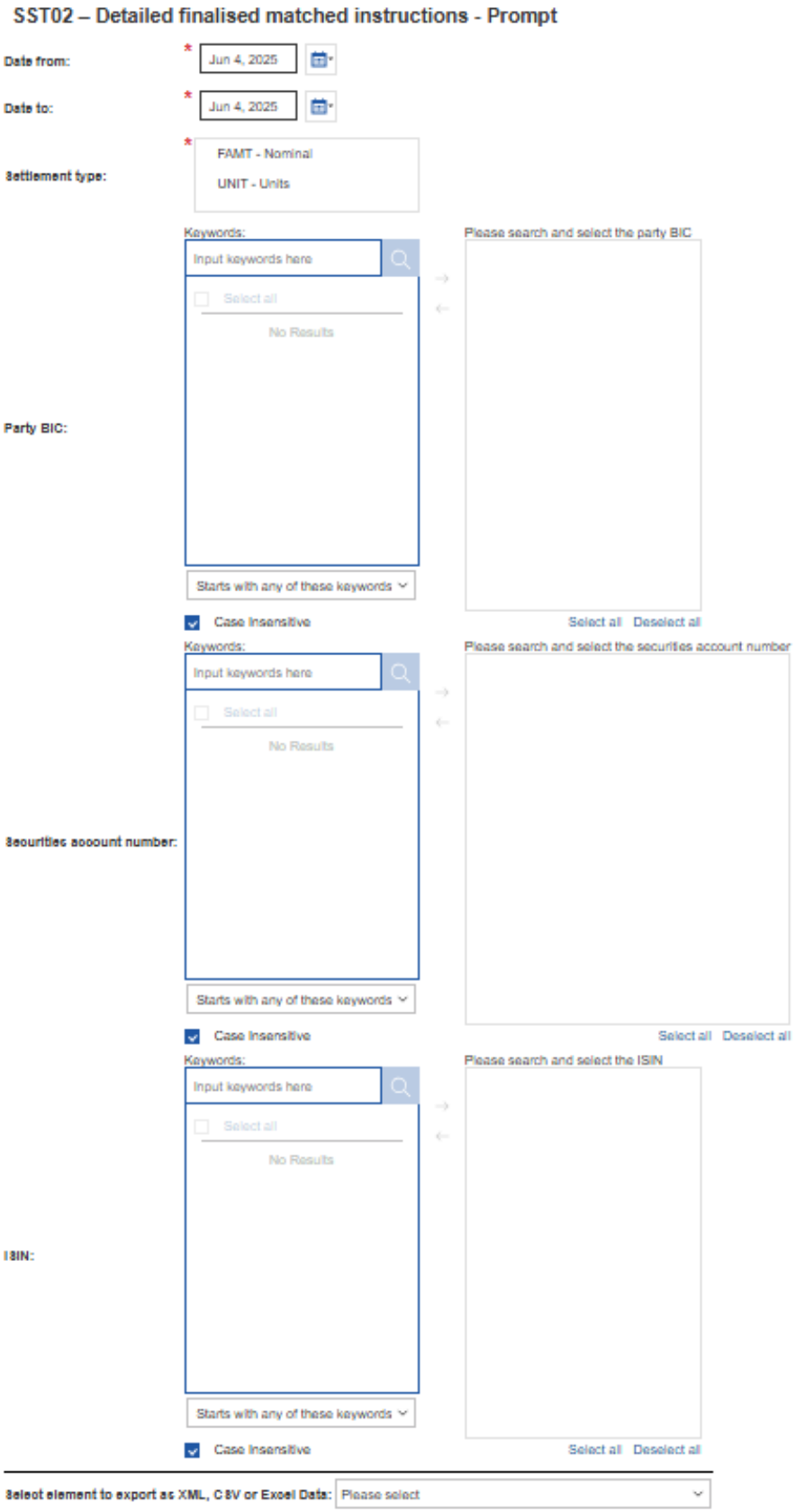

Figure 395 - SST02 Prompt

Field Description

SST02 – Detailed finalised matched instructions – Prompt screen	
Date from	You can select the date by clicking on the calendar. This field is mandatory.
Date to	You can select the end date of the period, for which the report should contain the data by clicking on the calendar. For valid report results, the current day cannot be selected. This field is mandatory.
Settlement type	Shows the settlement type. Possible values: - FAMT - Nominal - UNIT - Units This field is mandatory
Party BIC	You can use this drop-down field to select one or several party BIC. This field will show all related BICs, which belong to the default data scope of the user's party. This field is optional.

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Securities account number	You can use this drop-down field to select one or several securities account numbers. This field will show all related securities accounts which belong to default data scope of the user's party and which belong to the parties selected in field "Party BIC". If no Party BICs are selected, this field shows all securities account numbers belonging to the default data scope of the user's party. This field is optional.
ISIN	The report output contains only settlement instructions with the selected securities. This field is optional.
Select element to export as XML, CSV or Excel Data	You can choose the elements you want to download as either XML, CSV or Excel Data. For this report, you can choose between the following tabs: - Securities account – Detailed finalised matched instructions – volume - Securities account – Detailed finalised matched instructions – quantity This field is optional.

Screenshot

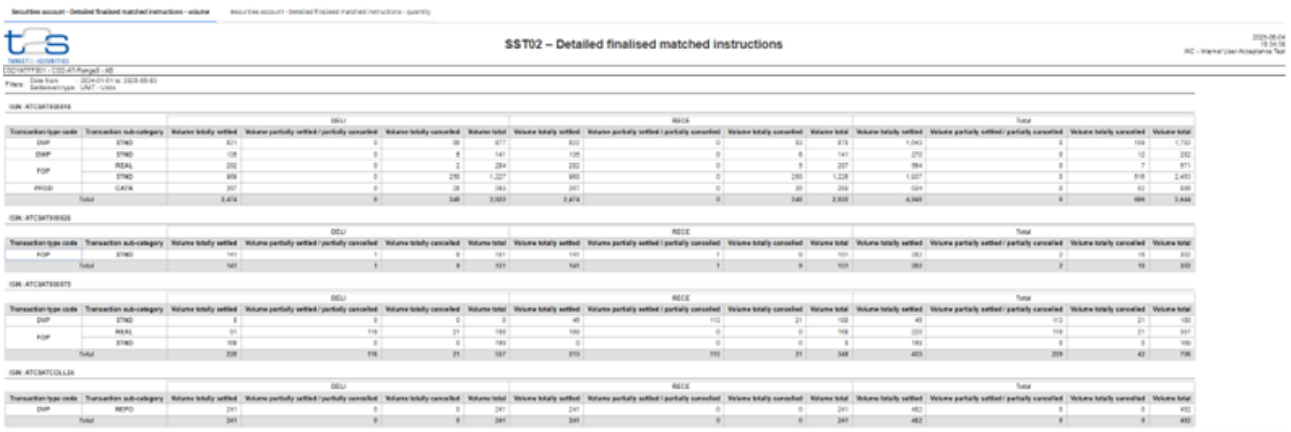

Figure 396 - SST02 output screen, tab 1

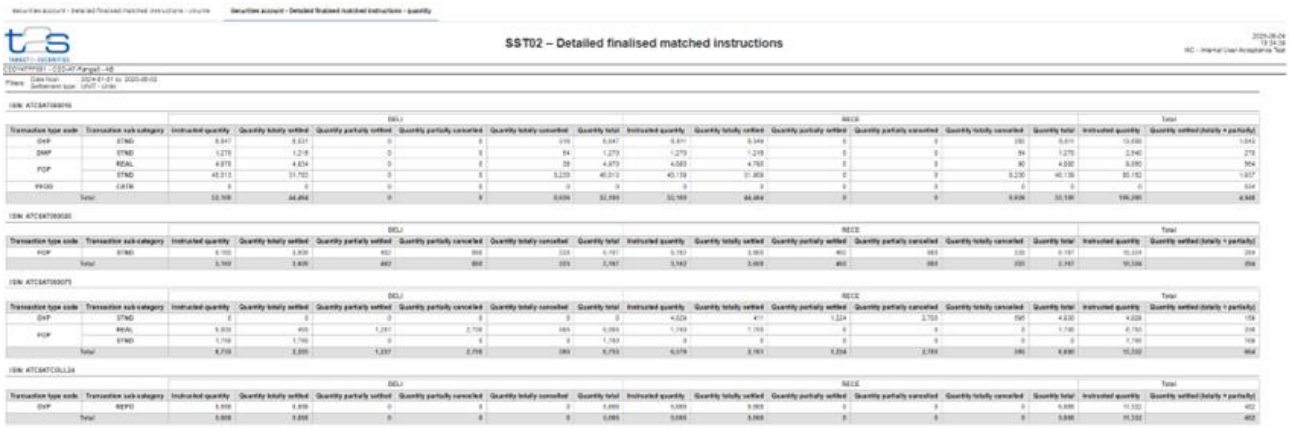

Figure 397 - SST02 output screen, tab 2

Field Description

SST02 – Detailed finalised matched instructions – OUTPUT SCREEN – Tab 1 Securities account – Detailed finalised matched instructions - volume	
ISIN	Shows the data of the detailed matched settlement instructions aggregated per ISIN
Transaction type code	Shows the settlement transaction type code set during the selected period duration of time from the possible values: - DVP (delivery versus payment) - DWP (delivery with payment) - FOP (free of payment) - PFOD (payment free of delivery)
Transaction sub-category	Shows the subcategory of the settlement transaction from the possible values: - ALOP, BPDF, BPIN, BPSU, COBS, COBR, COCP, CORT, CORU, EPDE, EPIS, REAL, RERV, REPO, RPDE, RPIN, RPSU, STND
DELI	
Volume totally settled	A count of the number of totally settled SIs with security movement type DELI, per transaction type and sub-category.
Volume partially settled / partially cancelled	A count of the number of partially settled/partially cancelled SIs with security movement type DELI, per transaction type and sub-category.
Volume totally cancelled	A count of the number of totally cancelled matched SIs with security movement type DELI, per transaction type and sub-category.
Volume total	Sum of ‘Volume totally settled’, ‘Volume partially settled / partially cancelled’ and ‘Volume totally cancelled’ in the ‘DELI’ sub-table, per transaction type and sub-category.

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RECE	
Volume totally settled	A count of the number of totally settled SIs found with security movement type RECE, per transaction type and sub-category.
Volume partially settled / partially cancelled	A count of the number of partially settled/partially cancelled SIs with security movement type DELI, per transaction type and sub-category.
Volume totally cancelled	A count of the number of totally cancelled matched SIs found with security movement type DELI, per transaction type and sub-category.
Volume total	Sum of 'Volume totally settled', 'Volume partially settled / partially cancelled' and 'Volume totally cancelled' in the 'DELI' sub-table, per transaction type and sub-category.
Total (across all movement types selected in the filter)	
Volume totally settled	A count of the number of totally settled SIs found with security movement type RECE, per transaction type and sub-category.
Volume partially settled / partially cancelled	A count of the number of partially settled/partially cancelled SIs with security movement type RECE, per transaction type and sub-category.
Volume totally cancelled	A count of the number of totally cancelled matched SIs found with security movement type RECE, per transaction type and sub-category.
Volume total	Sum of 'Total' 'over 'DELI' and 'RECE' sub-tables, per transaction type and sub-category.
Total	Sum for each column, summed over all transaction type / sub-category combinations.

SST02 – Detailed finalised matched instructions – OUTPUT SCREEN – Tab 2 **Securities account – Detailed finalised matched instructions - quantity**	
Transaction type code	Shows the settlement transaction type code set during the selected period duration of time from the possible values: l DVP (delivery versus payment) l DWP (delivery with payment) l FOP (free of payment) l PFOD (payment free of delivery)
Transaction sub-category	Shows the subcategory of the settlement transaction from the possible values: l ALOP, BPDF, BPIN, BPSU, COBS, COBR, COCP, CORT, CORU, EPDE, EPIS, REAL, RERV, REPO, RPDE, RPIN, RPSU, STND
DELI	

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Instructed quantity	Sum of instructed settlement quantities of all finalised SIs with securities movement type DELI, per transaction type and sub-category.
Quantity totally settled	Sum of settled settlement quantities of all totally settled SIs with securities movement type DELI, per transaction type and sub-category.
Quantity partially settled	Sum of settled settlement quantities of all partially settled SIs with securities movement type DELI, per transaction type and sub-category.
Quantity partially cancelled	Sum of unsettled settlement quantities of all partially cancelled SIs with securities movement type DELI, per transaction type and sub-category.
Quantity totally cancelled	Sum of unsettled settlement quantities of all totally cancelled SIs with securities movement type DELI, per transaction type and sub-category.
Quantity total	Sum of 'Quantity totally settled', 'Quantity partially settled', 'Quantity partially cancelled' and 'Quantity totally cancelled' in the 'DELI' sub-table, per transaction type and sub-category.
RECE	
Instructed quantity	Sum of instructed settlement quantities of all finalised SIs with securities movement type RECE, per transaction type and sub-category.
Quantity totally settled	Sum of settled settlement quantities of all totally settled SIs with securities movement type RECE, per transaction type and sub-category.
Quantity partially settled	Sum of settled settlement quantities of all partially settled SIs with securities movement type RECE, per transaction type and sub-category.
Quantity partially cancelled	Sum of unsettled settlement quantities of all partially cancelled SIs with securities movement type RECE, per transaction type and sub-category.
Quantity totally cancelled	Sum of unsettled settlement quantities of all totally cancelled SIs with securities movement type RECE, per transaction type and sub-category.
Quantity total	Sum of 'Quantity totally settled', 'Quantity partially settled', 'Quantity partially cancelled' and 'Quantity totally cancelled' in the 'RECE' sub-table, per transaction type and sub-category.
Total (across all movement types selected in the filter)	

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Instructed quantity	The sum of ‘Instructed quantity’ over ‘DELI’ and ‘RECE’, per transaction type and sub-category.
Quantity settled (totally + partially)	The sum of ‘Quantity totally settled’ and ‘Quantity partially settled’ over ‘DELI’ and ‘RECE’, per transaction type and sub-category.
Total	Total final: Sum for each column, summed over all transaction type / sub-category combinations.

6.2.3 SST03 – Follow-up by time slot of securities postings

Context of Usage

This report shows the securities postings at CSD, CSDP or securities account level, during a selected period of time. The securities postings activity of the specified securities accounts are displayed as volume and quantity of securities for each time slot of the business day with a total per balance type, aggregated per ISIN.

This report can be used by CSD users.

Report Access

This report can be reached in the following way:

- Content >> Team Content >> T2S >> Predefined Reports >> SST - T2S Securities account >> SST03

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Screenshot

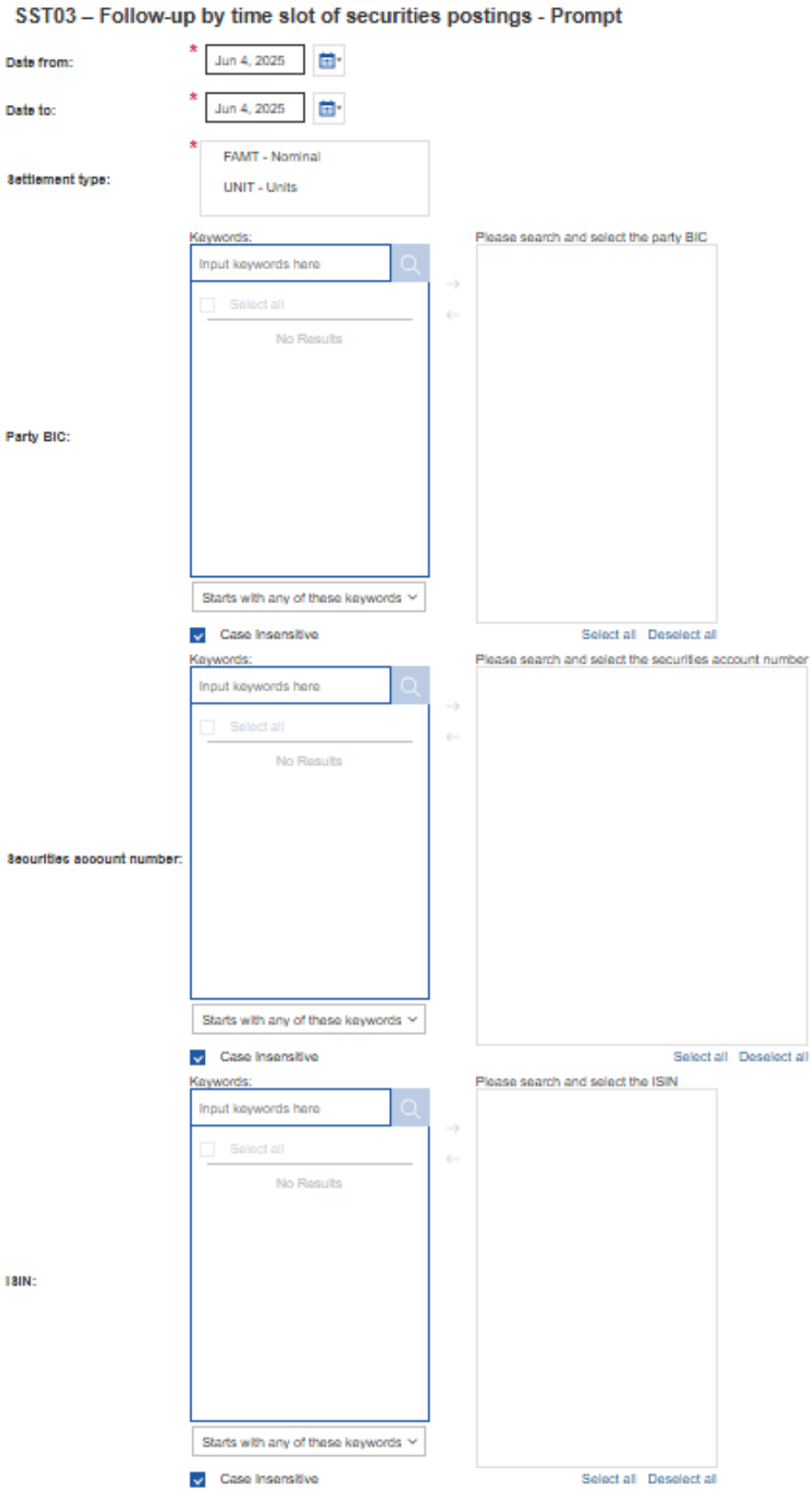

Figure 398 - SST03 Prompt screen

Field Description

SST03 – Follow-up by time slot of securities postings – Prompt Screen	
Date from	You can select the date by clicking on the calendar. This field is mandatory.
Date to	You can select the end date of the period, for which the report should contain the data by clicking on the calendar. For valid report results, the current day cannot be selected. This field is mandatory.
Settlement type	Shows the settlement type. Possible values: - FAMT - Nominal - UNIT - Units This field is mandatory

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Party BIC	You can use this drop-down field to select one or several party BIC. This field will show all related BICs, which belong to the default data scope of the user's party. This field is optional.
Securities account number	You can use this drop-down field to select one or several securities account numbers. This field will show all related securities accounts which belong to default data scope of the user's party and which belong to the parties selected in field "Party BIC". If no Party BICs are selected, this field shows all securities account numbers belonging to the default data scope of the user's party. This field is optional.
ISIN	The report output contains only settlement instructions with the selected securities. This field is optional.

Screenshot

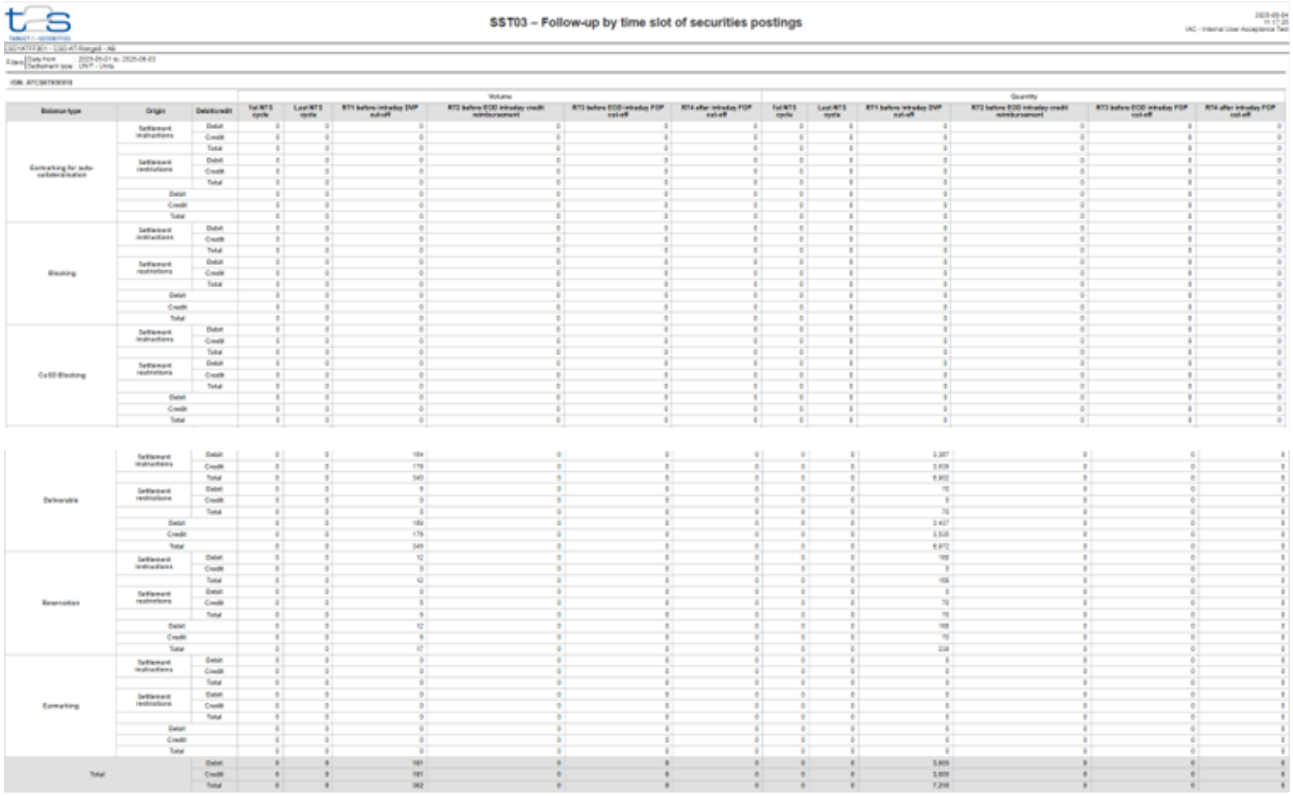

Figure 399 - SST03 output screen

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Field Description

SST03 – Follow-up by time slot of postings – Output Screen	
ISIN	Shows the data of the follow-up by time slot of cash postings aggregated per ISIN
Balance type	Shows the balance type for which the securities postings are displayed from the possible values: - Earmarking for auto-collateralisation - Blocking - CoSD blocking - Deliverable - Reservation - Earmarking
Origin	Shows the posting origin for which the securities postings are displayed from the possible values: - Settlement instructions - Settlement restrictions - Total for all types
Debit/ Credit	The aggregation within origin of the securities postings on the debited/ credited side
Volume	
1st NTS cycle	The aggregation within debit/credit/total of all securities postings found for each designated time-slot.
Last NTS cycle	The aggregation within debit/credit/total of all securities postings found for each designated time-slot.
RT1 before intraday DVP cut-off	The aggregation within debit/credit/total of all securities postings found for each designated time-slot.
RT2 before EOD intraday credit reimbursement	The aggregation within debit/credit/total of all securities postings found for each designated time-slot.
RT3 before EOD intraday FOP cut-off	The aggregation within debit/credit/total of all securities postings found for each designated time-slot.
RT4 after intraday FOP cut-off	The aggregation within debit/credit/total of all securities postings found for each designated time-slot.
Quantity	
1st NTS cycle	The aggregation within debit/credit/total of all securities postings found for each designated time-slot.

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Last NTS cycle	The aggregation within debit/credit/total of all securities postings found for each designated time-slot.
RT1 before intraday DVP cut-off	The aggregation within debit/credit/total of all securities postings found for each designated time-slot.
RT2 before EOD intraday credit reimbursement	The aggregation within debit/credit/total of all securities postings found for each designated time-slot.
RT3 before EOD intraday FOP cut-off	The aggregation within debit/credit/total of all securities postings found for each designated time-slot.
RT4 after intraday FOP cut-off	The aggregation within debit/credit/total of all securities postings found for each designated time-slot.
Total	
Total (per balance type): - Total deliverable - Total earmarking - Total earmarking for auto collateralisation - Total reservation - Total blocking - Total COSD blocking	The sums of 'Volume' and 'Quantity' across 'Debit' and 'Credit' per column, over all origins within balance type. (sum of credits minus sum of debits).
Total debit	Shows the aggregated quantities of the securities postings for each designated time slot for debit.
Total credit	Shows the aggregated quantities of the securities postings for each designated time slot for credit.
Total	Shows overall totals per ISIN per column (sum of credits *minus* sum of debits)

6.3 T2S Instructions (INX)

6.3.1 INX01 – Individual settlement detailed report

Context of Usage

This report shows all finalised business settlement instructions (SI) corresponding to the selected T2S references.

The attributes shown in the output provide business details related to each of the selected settlement instructions and are represented by a button to select the Delivery or Receiver tab for the corresponding perspective. This simplifies the comparison between the instructions.

This report can be used by CSD users.

Report Access

This report can be reached in the following way:

- Content >> Team Content >> T2S >> Predefined Reports >> INX - T2S Instructions >> INX01

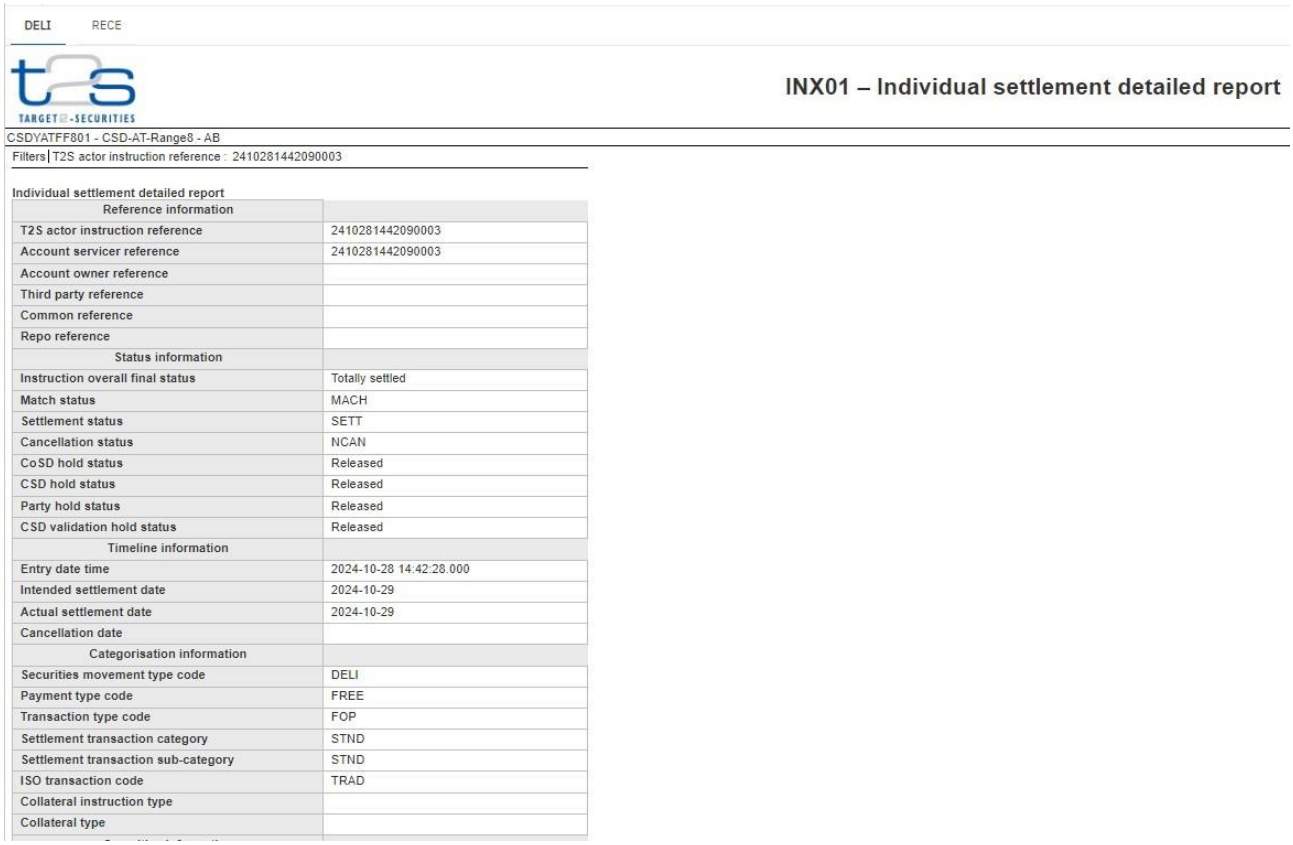
Screenshot

Figure 400 - INX01 prompt screen

Field Description

INX01 – Individual settlement detailed report – Prompt Screen	
T2S actor instruction reference	You can use this text box fields to search one or several T2S actor instruction references. This field will show all related references, which belong to the default data scope of the user's party. One or several references can be entered sequentially but a maximum of 3 may not be exceeded. Otherwise, a respective error screen will be sown. This first text box field is mandatory.

Screenshot



DELI RECE

INX01 – Individual settlement detailed report

CSDYATFF801 - CSD-AT-Range8 - AB

Filters | T2S actor instruction reference : 2410281442090003

Individual settlement detailed report

Reference information	
T2S actor instruction reference	2410281442090003
Account servicer reference	2410281442090003
Account owner reference	
Third party reference	
Common reference	
Repo reference	
Status information	
Instruction overall final status	Totally settled
Match status	MACH
Settlement status	SETT
Cancellation status	NCAN
CoSD hold status	Released
CSD hold status	Released
Party hold status	Released
CSD validation hold status	Released
Timeline information	
Entry date time	2024-10-28 14:42:28.000
Intended settlement date	2024-10-29
Actual settlement date	2024-10-29
Cancellation date	
Categorisation information	
Securities movement type code	DELI
Payment type code	FREE
Transaction type code	FOP
Settlement transaction category	STND
Settlement transaction sub-category	STND
ISO transaction code	TRAD
Collateral instruction type	
Collateral type	

ISIN	ATC8AT000018
Account owner BIC	PMBKATFF802
Securities account number	CSDPC8ATPB2002
T2S delivering party securities account number	CSDPC8ATPB2002
T2S receiving party securities account number	CSDPC8AT01001
Securities sub balance type	
Settlement type code	UNIT
Instructed settlement quantity	23
Settled settlement quantity	23
Totally settled settlement quantity	23
Partially settled settlement quantity	0
Partially cancelled settlement quantity	0
Totally cancelled settlement quantity	0
Securities party information	
Delivering depository BIC	CSDYATFF801
T2S delivering party BIC	PMBKATFF802
Delivering settlement party processing reference	
Client of delivering CSD participant BIC	
Client of delivering CSD participant Id	
Client of delivering CSD participant issuer	
Client of delivering CSD participant schema name	
Receiving depository BIC	CSDYATFF801
T2S receiving party BIC	CSDPATFF801
Receiving settlement party processing reference	
Client of receiving CSD participant BIC	
Client of receiving CSD participant Id	
Client of receiving CSD participant issuer	
Client of receiving CSD participant schema name	
Cash information	
Currency code	
Credit/debit code	
Debtor party BIC	
Creditor party BIC	
T2S dedicated cash account number	
Debtor T2S dedicated cash account number	
Creditor T2S dedicated cash account number	
Instructed settlement amount	0.00
Transaction instructed amount	0.00
Matched settlement amount	0.00
Settled amount	0.00
Totally settled settlement amount	0.00
Partially settled settlement amount	0.00
Partially cancelled settlement amount	0.00
Totally cancelled settlement amount	0.00

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Trade information	
Trade date	2024-10-29
Original ordered amount	0.00
Original ordered currency	
Number of days accrued	1
CUM/EX indicator	
Deal price value type	
Deal price yielded	
Deal price value rate	0
Deal price value amount	0.00
Deal price value currency	
Foreign exchange unit currrency	
Foreign exchange quoted currrency	
Foreign exchange exchange rate	0
Foreign exchange resulting amount	0.00
Foreign exchange resulting amount currency	
Place of trade MIC identifier	
Place of trade description	
Market type code	
Market type proprietary Id	
Market type schema name	
Market type issuer name	
Market client side code	
LCMM information	
LCMM approval status	APPR
LCMM sending party short name	CSD-AT-Range8 - AB
LCMM instructing party short name	CSD-AT-Range8 - AB
LCMM execution/final settlement date	2024-10-29 14:42:29.776
LCMM user login name	C8AT09129CSD
LCMM inbound LCMM message Id	2410280540971856
LCMM inbound LCMM message ref	1019090501
LCMM validation starting timestamp	2024-10-28 14:42:29.598
LCMM validation ending timestamp	2024-10-28 14:42:29.680
LCMM entry business date	2024-10-28
POOL instruction counter	
POOL settlement date	
POOL identification	0

Figure 401 - INX01 output screen

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Field Description

INX01 – Individual settlement detailed report – Output Screen (These columns will be shown for every instruction selected in the prompt screen)	
DELI/RECE	By clicking on the button, the data of the individual settlement can be displayed for either the delivery or the receiver side.
Reference information	
T2S actor instruction reference	Shows the reference provided by the T2S actor
Account servicer reference	Shows the reference provided by the T2S actor when the instruction is sent by an account servicer.
Account owner reference	Shows the reference provided by the T2S actor when the instruction is sent by an account owner.
Third party reference	Shows the reference provided by the T2S actor when the instruction is sent by a third party.
Common reference	Reference provided by the instructing party when the settlement instruction is already – matched or in order to facilitate the matching within T2S.
Repo reference	Shows the repo reference.
Status information	
Instruction overall final status	Shows the final status. Possible values: l “Totally settled” l “Partially settled” l “Totally cancelled”
Match status	Shows if the settlement instruction is matched with a counterpart settlement instruction. Possible values: l NMAT (unmatched) l MACH (matched)
Settlement status	Shows the settlement status Possible values: l USET (unsettled) l PSET (partially settled) l SETT (fully settled)
Cancellation status	Shows the cancellation status

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	Possible values: - NCAN (not cancelled) - CANC (cancelled)
CoSD hold status	Shows the CoSD hold status if the settlement instruction fulfils at least one CoSD rule. Possible values: - Released - On hold
CSD hold status	Shows the CSD hold status Possible values: - Released - On hold
Party hold status	Shows the party hold status Possible values: - Released - On hold
CSD validation hold status	Shows the CSD validation hold status Possible values: - Released - On hold
Timeline information	
Entry date time	Shows the date when the settlement instruction entered the T2S system. Display format is: YYYY-MM-DD hh:mm: ss,sssss
Intended settlement date	Shows the intended settlement date. Display format is: YYYY-MM-DD
Actual settlement date	Shows the actual settlement date, if applicable. Display format is: YYYY-MM-DD
Cancellation date	Shows the date when the settlement instruction was cancelled, if applicable. Display format is: YYYY-MM-DD
Categorisation information	
Securities movement type code	Shows the direction of movement required by the settlement instruction. Possible values: - DELI (deliver) - RECE (receive)
Payment type code	Shows if cash settlement is also involved.

	Possible values: - APMT (against payment) - FREE (free of payment)
Transaction type code	Shows the transaction type code. Possible values: - DVP (delivery versus payment) - DWP (delivery with payment) - FOP (free of payment) - PFOD (payment freed of delivery)
Settlement transaction category	Shows the transaction category. Possible values: - COLA (collateral) - CORE (collateral relocation) - LQTR (liquidity transfer) - REAL (realignment) - RSMG (restriction management) - RESU (restriction use) - RCOL (reverse collateral) - STND (standard) - TCAT (technical cash transfer) - COTF (conditional technical FOP)
Settlement transaction sub-category	Shows the transaction sub-category. Possible values: - CATR (cash transfer) - COBS (CoSD blocking position – setup) - PLED (pledge) - REAL (realignment) - REPO (repo) - STND (standard) - SPLE (sub-pledge)
ISO transaction code	Shows the ISO transaction code. Possible values:

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	- AUTO (auto-collateralisation) - BSBK (buy sell back) - CLAI (market claim) - CNCB (cenrl bank collateral operation) - COLI (collateral in) - COLO (collateral out) - CONV (depository receipt conversion) - CORP (corporate action) - FCTA (factor update) - INSP (movement of stock) - ISSU (depository receipt issue) - MKDW (markdown) - MKUP (markup) - NETT (netting) - NSYN (non-syndicated) - OWNE (external account transfer) - OWNI (internal account transfer) - PAIR (pair-off) - PLAC (placement) - PORT (portfolio move) - REAL (realignment) - REDI (withdrawal) - REDM (redemption) - RELE (depository receipt release cancellation) - REPU (repo) - RODE (return delivery without matching) - RPTO (reporting) - RVPO (reverse repo) - SBBK (sell buyback) - SBRE (borrowing reallocation) - SECB (securities borrowing) - SECL (securities lending) - SLRE (lending reallocation)

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	l SUBS (subscription) l SYND (syndicate underwriters) l TBAC (TBA closing) l TRAD (trade) l TRPO (tri-party repo) l TRVO (tri-party reverse repo) l TURN (turnaround)
Collateral instruction type	Shows the collateral instruction type, if applicable. Possible values: l CRDT (credit instruction) l RMBT (reimbursement collateral instruction)
Collateral type	Shows the collateral type, if applicable. Possible values: l CLNT (client collateralisation) l NCBC (NCB collateralisation)
Securities information	
ISIN	Shows the ISIN.
Account owner BIC	Shows the BIC of the securities account owner as per the SI.
Securities account number	Shows the impacted securities account number as per the SI,
T2S delivering party securities account number	Shows the securities account number of the T2S delivering party.
T2S receiving party securities account number	Shows the securities account number of the T2S receiving party.
Securities sub balance type	Shows the securities sub balance type.
Settlement type	Shows the settlement type. Possible values: l FAMT (nominal) l UNIT (units)
Instructed settlement quantity	Shows the instructed settlement quantity.
Settled settlement quantity	Shows the settled settlement quantity.
Totally settled settlement quantity	Shows the settled quantity if the SI is fully settled.

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Partially settled settlement quantity	Shows the settled quantity if the SI is only partially settled.
Partially cancelled settlement quantity	Shows the remaining unsettled quantity if the SI is only partially settled
Totally cancelled settlement quantity	Shows the unsettled quantity if the SI is completely cancelled.
Securities party information	
Delivering depository BIC	Shows the BIC of the delivering CSD
T2S delivering party BIC	Shows the BIC of the T2S delivering party.
Delivering settlement party processing reference	Shows the processing reference provided in the delivering settlement party information.
Client of delivering CSD participant BIC	Shows the BIC of the delivering CSD participant's client.
Client of delivering CSD participant Id	Shows the local identifier of the delivering CSD participant's client.
Client of delivering CSD participant issuer	Shows the issuer of the local identifier of the delivering CSD participant's client.
Client of delivering CSD participant schema name	Shows the schema name of the local identifier of the delivering CSD participant's client.
Receiving depository BIC	Shows the BIC of the receiving CSD.
T2S receiving party BIC	Shows the BIC of the T2S receiving party.
Receiving settlement party processing reference	Shows the processing reference provided in the receiving settlement party information.
Client of receiving CSD participant BIC	Shows the BIC of the receiving CSD participant's client.
Client of receiving CSD participant Id	Shows the local identifier of the receiving CSD participant's client.
Client of receiving CSD participant issuer	Shows the issuer of the local identifier of the receiving CSD participant's client.
Client of receiving CSD participant schema name	Shows the schema name of the local identifier of the receiving CSD participant's client.
Cash information (Please note, that this part will be empty for Settlement Instructions with transaction code = FOP)	

Currency code	Shows the currency code.
Credit/debit code	Shows if the settlement instruction involves a debit or credit of cash. Possible values: - CRDT (credit) - DBIT (debit)
Debtor party BIC	Shows the BIC of the debtor party.
Creditor party BIC	Shows the BIC of the creditor party.
T2S dedicated cash account number	Shows the impacted T2S dedicated cash account number.
Debtor T2S dedicated cash account number	Shows T2S dedicated cash account number being debited.
Creditor T2S dedicated cash account number	Shows T2S dedicated cash account number being credited.
Instructed settlement amount	Shows the instructed settlement amount.
Transaction instructed amount	Shows the instructed amount as per the transaction.
Matched settlement amount	This is the matched settlement amount for the matched transactions.
Settled amount	Shows the settled amount.
Totally settled settlement amount	Shows the settled amount if the SI is fully settled.
Partially settled settlement amount	Shows the settled amount if the SI is only partially settled
Partially cancelled settlement amount	Shows the unsettled amount if the SI is only partially settled.
Totally cancelled settlement amount	Shows the unsettled amount if the SI is fully cancelled.
Process information	
Cancellation requested	Shows if a cancellation has been requested on the settlement instruction. Possible values: - False - True
Externally matched	Shows if the settlement instruction was matched outside T2S. Possible values:

	• False • True
CoSD flag	Shows the CoSD flag if the settlement instruction belongs to a CoSD group. Possible values: • False • True
Partial settlement indicator	Shows the partial settlement indicator. Possible values: • NPAR (partial not allowed) • PART (partial settlement cash threshold allowed) • PARC (partial settlement quantity threshold allowed) • PARQ (partial allowed)
Priority	Shows the priority. Possible values: • 0001 (reserved) • 0002 (top) • 0003 (high) • 0004 (normal)
Allowed modification flag	Shows the allowed modification flag Possible values: • False • True
Corporate action event identification	Shows the corporate action event identification if the SI relates to a corporate action.
Opt-out settlement transaction condition indicator	Shows the opt-out settlement transaction condition indicator. Possible values: • False • True
External CSD flag	Shows whether the relevant depository is an external CSD. Possible values: False True

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Original/counterpart instruction	Shows whether it is the original instruction or the identifier of the counterpart's instructions.
Link instruction counter	Shows the number of instructions linked to this settlement instruction.
Trade information	
Trade date	Shows the trade date of the settlement instruction. Display format is: YYYY-MM-DD
Original ordered amount	Shows the original ordered amount in the original currency when a conversion from/into another currency has occurred.
Original ordered currency	Shows the original ordered currency when a conversion from/into another currency has occurred.
Number of days accrued	Shows the number of days for which interest has accrued.
CUM/EX indicator	Shows whether the contract was traded cum or ex coupon Possible values: - CUM (cum coupon) - EX (ex coupon)
Deal price value type	Shows the type of value in which the price of the traded financial instrument is expressed. Possible values: - DISC (discount) - PREM (premium) - PARV (par or face amount)
Deal price yielded	Shows whether the price is expressed as a yield. Possible values: - False - True
Deal price value rate	Shows the deal price value expressed as a rate or percentage when not expressed as an amount.
Deal price value amount	Shows the deal price value expressed as an amount when not expressed as a rate.
Deal price value currency	Shows the deal price value currency when not expressed as a rate.
Foreign exchange unit currrency	Shows the currency in which the rate of exchange is expressed in a currency exchange.
Foreign exchange quoted currrency	Shows the currency into which the base currency is converted in a currency exchange.

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Foreign exchange rate	Shows the factor for the currency exchange.
Foreign exchange resulting amount	Shows the amount resulting from the currency exchange.
Foreign exchange resulting amount currency	Shows the currency of the amount resulting from the currency exchange.
Place of trade MIC identifier	Shows the market identifier code of the place of trade.
Place of trade description	Shows the description of the place of trade.
Market type code	Shows the market type code.
Market type proprietary Id	Shows the proprietary id of the market type when not using the ISO market type code.
Market type schema name	Shows the schema name associated with the proprietary id of the market type when not using the ISO market type code.
Market type issuer name	Shows the issuer name associated with the proprietary id of the market type when not using the ISO market type code.
Market client side code	Shows the market side code. Possible values: - CLNT (client side transaction) - MAKT (market side transaction)
LCMM information	
LCMM approval status	Shows the LCMM approval status. Possible values: - APPR (approved (default value)) - AWAP (awaiting approval) - REJT (rejected) - RVKD (revoked)
LCMM sending party short name	Shows the sending party short name
LCMM instructing party short name	Shows the instructing party short name
LCMM execution/final settlement date	Shows the business date when the SI is totally settled. Displayed format is : YYYY-MM-DD.
LCMM user login name	Shows the login name of the LCMM user.

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LCMM inbound LCMM message Id	Shows the foreign key of the LCMM inbound message id.
LCMM inbound LCMM message ref	Shows the reference of the LCMM inbound message.
LCMM validation starting timestamp	Shows the LCMM validation starting timestamp. Display format is: YYYY-MM-DD hh:mm:ss,sssss
LCMM validation ending timestamp	Shows the LCMM validation ending timestamp. Displayed format is: YYYY-MM-DD hh:mm:ss,sssss
LCMM entry business date	Shows the LCMM entry business date. Displayed format is: YYYY-MM-DD
POOL instruction counter	Shows the number of instructions that make up a pool as identified on the settlement instruction.
POOL settlement date	Shows the pool settlement date. Displayed format is: YYYY-MM-DD
POOL identification	Shows the reference identifying a pool as found on the settlement instruction.

6.3.2 INX02 – Multi-criteria search of a set of settlement instructions

Context of Usage

This report shows a list of details for selected finalised business settlement instructions (SI), which it performs in two levels. In the first level, the report produces a list of SIs corresponding to user-supplied filter criteria. In the second level, the user may select one SI from the list and the detailed report provides a full list of attributes of the selected SI.

The attributes shown in the detailed report output provide business details related to the selected SI.

This report can be used by CSD users.

Report Access

This report can be reached in the following way:

- Content >> Team Content >> T2S >> Predefined Reports >> INX - T2S Instructions >> INX02

Screenshot

Figure 402 - INX02 pre-selection screen

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Field Description

INX02 – Multi-criteria search of a set of settlement instructions – Pre-selection screen	
Choose data object (one of both objects has to be chosen)	
Party BIC	Provides fields for searching securities party BICs or cash party BICs in the next screen
Account number	Provides fields for searching for securities account numbers or cash account numbers in the next screen

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Additional search criteria (both objects are optional)	
Quantity of securities	Provides fields for searching different quantity ranges in the next screen
Amounts	Provides fields for searching different amount ranges in the next screen

Screenshot

INX02 – Prompt

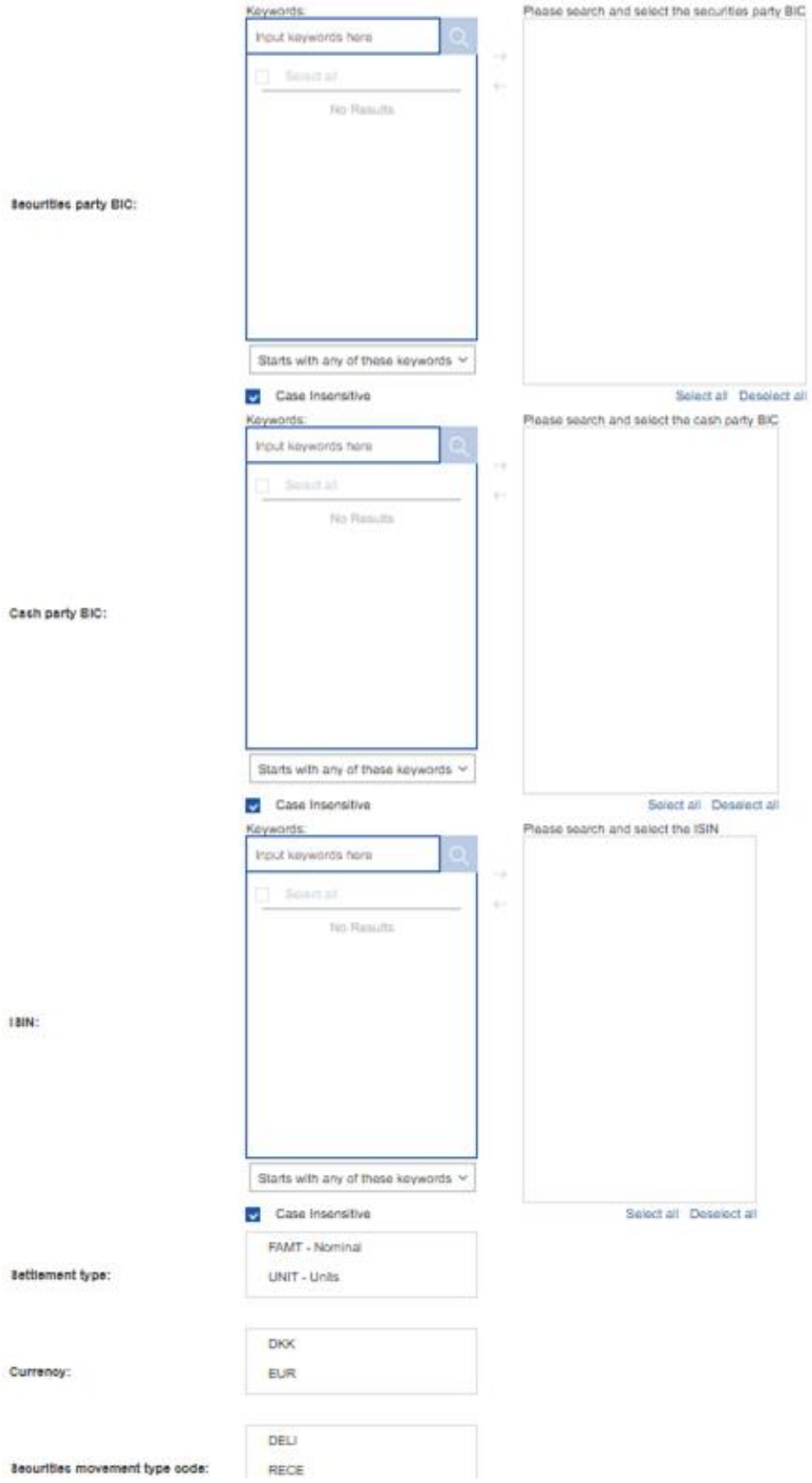

Figure 403 - INX02 prompt screen – Party BIC

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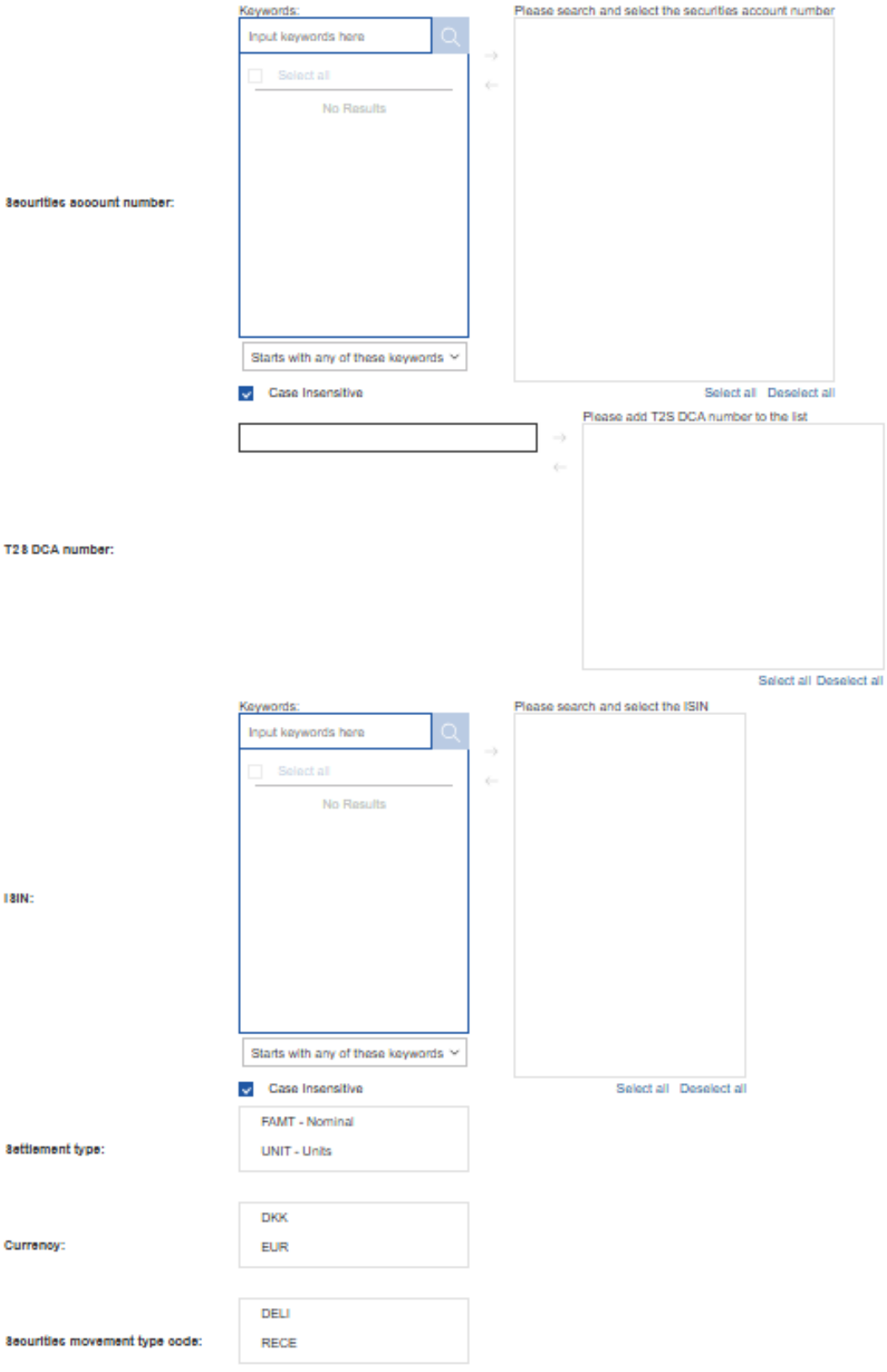
INX02 – Prompt



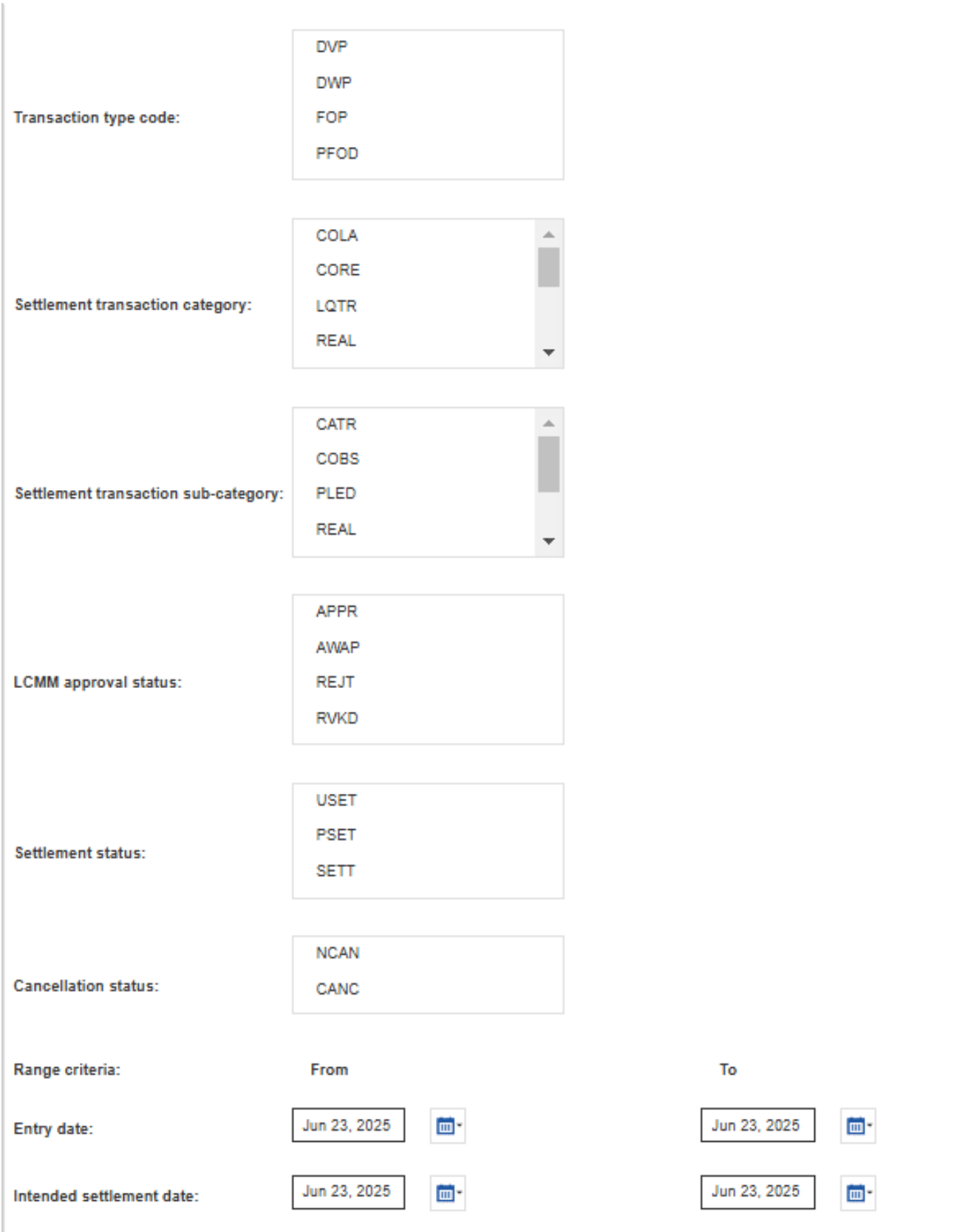


Figure 404 - INX02 prompt screen - Account Number

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Field Description

INX02 – Multi-criteria search of a set of settlement instructions – Prompt Screen	
Displayed fields when selecting Party BIC	
Securities party BIC	Filter to select which securities party BIC (CSDs, CSD participants or ECSDs) value/s should be included in the output.
Cash party BIC	Filter to select which cash party BIC (NCB or payment bank) value/s should be included in the output.
Displayed fields when selecting Account number	
Securities account number	Filter to select which securities account number value/s should be included in the output.
T2S DCA number	Multiple selection text field to enter T2S DCA number value/s that should be included in the output.
ISIN	Filter to select which ISIN value/s should be included in the output.
Settlement type	Filter to select which settlement type value/s should be included in the output. Possible values: - FAMT - Nominal - UNIT - Units
Currency	The report output contains only settlement instructions with the selected settlement currency codes.
Securities movement type code	Filter to select which securities movement type code value/s should be included in the output. Possible values: - DELI - RECE
Transaction type code	Filter to select which transaction type code value/s should be included in the output. Possible values: - DVP - DWP - FOP - PFOD
Settlement transaction category	Filter to select which settlement transaction category value/s should be included in the output. Possible values: - COLA

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	- CORE - LQTR - REAL - RSMG - RESU - RCOL - STND - TCAT - COTF
Settlement transaction sub-category	Filter to select which settlement transaction sub-category value/s should be included in the output. Possible values: - CATR - COBS - PLED - REAL - REPO - STND - SPLE
LCMM approval status	Filter to select which LCMM approval status value/s should be included in the output. Possible values: - APPR - AWAP - REJT - RVKD
Settlement status	Filter to select which settlement status value/s should be included in the output. Possible values: - USET - PSET - SETT
Cancellation status	Filter to select which cancellation status value/s should be included in the output. Possible values:

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	• NCAN • CANC
Entry date from	Filter to select the inclusive date from which entry date value/s should be included in the output. Must be used in conjunction with: • entry date to
Entry date to	Filter to select the inclusive date up to which entry date value/s should be included in the output. Must be used in conjunction with: • entry date from
Intended settlement date from	Filter to select the inclusive date from which intended settlement date value/s should be included in the output. Must be used in conjunction with: • intended settlement date to
Intended settlement date to	Filter to select the inclusive date up to which intended settlement date value/s should be included in the output. Must be used in conjunction with: • intended settlement date from
The following criteria are only shown in case that “Quantity of securities” was chosen as additional search criteria	
Instructed quantity from	Filter to select the inclusive quantity from which instructed quantity value/s should be included in the output. Must be used in conjunction with: • instructed quantity to
Instructed quantity to	Filter to select the inclusive quantity up to which instructed quantity value/s should be included in the output. Must be used in conjunction with: • instructed quantity from

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Settled quantity from	Filter to select the inclusive quantity from which settled quantity value/s should be included in the output. Must be used in conjunction with: • settled quantity to
Settled quantity to	Filter to select the inclusive quantity up to which settled quantity value/s should be included in the output. Must be used in conjunction with: • settled quantity from
Cancelled quantity from	Filter to select the inclusive quantity from which cancelled quantity value/s should be included in the output. Must be used in conjunction with: • cancelled quantity to
Cancelled quantity to	Filter to select the inclusive quantity up to which cancelled quantity value/s should be included in the output. Must be used in conjunction with: • cancelled quantity from
The following criteria are only shown in case that “Amounts” was chosen as additional search criteria	
Instructed amount from	Filter to select the inclusive amount from which instructed amount value/s should be included in the output. Must be used in conjunction with: • instructed amount to
Instructed amount to	Filter to select the inclusive amount up to which instructed amount value/s should be included in the output. Must be used in conjunction with: • instructed amount from
Settled amount from	Filter to select the inclusive amount from which settled amount value/s should be included in the output.

	Must be used in conjunction with: • settled amount to
Settled amount to	Filter to select the inclusive amount up to which settled amount value/s should be included in the output. Must be used in conjunction with: • settled amount from
Cancelled amount from	Filter to select the inclusive amount from which cancelled amount value/s should be included in the output. Must be used in conjunction with: • cancelled amount to
Cancelled amount to	Filter to select the inclusive amount up to which cancelled amount value/s should be included in the output. Must be used in conjunction with: • cancelled amount from

Screenshot

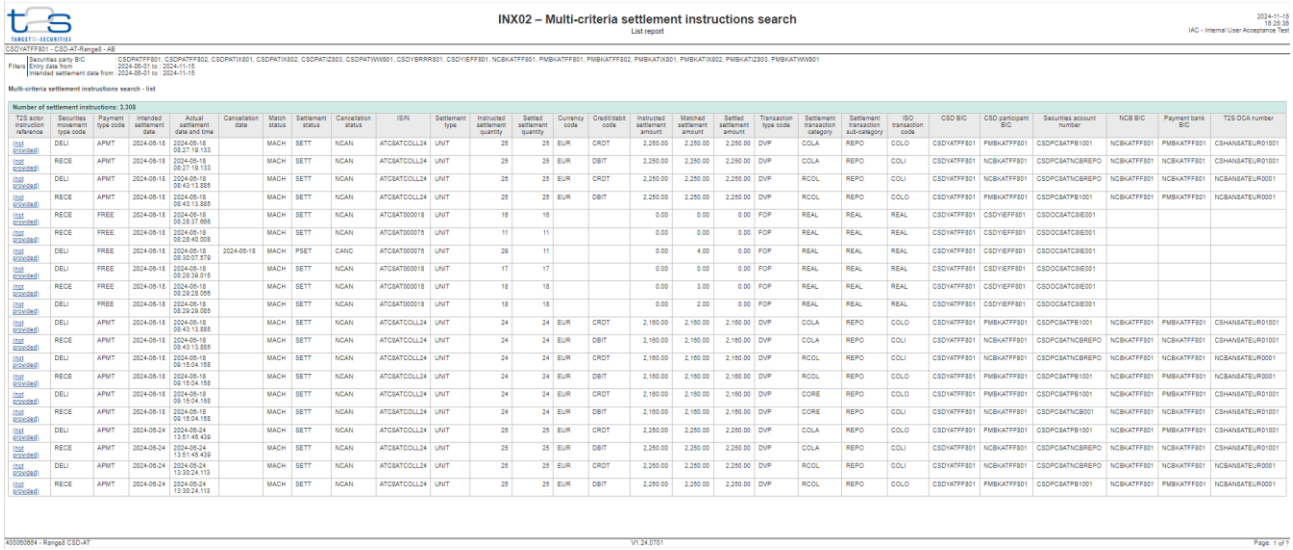

Figure 405 - INX02 list screen

Field Description

INX02 – Multi-criteria search of a set of settlement instructions – List Screen	
Number of settlement instructions	Shows the number of settlement instructions found matching the criteria
(For each instruction matching the selection criteria, one line will be displayed)	
T2S actor instruction reference	Shows the reference provided by the T2S actor The reference is built as a hyperlink which leads to the output details screen when clicked.
Securities movement type code	Shows the direction of movement required by the settlement instruction. Possible values: - DELI (deliver) - RECE (receive)
Payment type code	Shows if cash settlement is also involved. Possible values: - APMT (against payment) - FREE (free of payment)
Intended settlement date	Shows the intended settlement date.
Actual settlement date	Shows the actual settlement date.
Cancellation date	Shows the date when the settlement instruction was cancelled. Display format is: YYYY-MM-DD
Match status	Shows if the settlement instruction is matched with a counterpart settlement instruction. Possible values: - NMAT (unmatched) - MACH (matched)
Settlement status	Shows the settlement status Possible values: - USET (unsettled) - PSET (partially settled) - SETT (fully settled)
Cancellation status	Shows the cancellation status

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	Possible values: - NCAN (not cancelled) - CANC (cancelled)
ISIN	Shows the ISIN.
Settlement type	Shows the settlement type. Possible values: - FAMT (nominal) - UNIT (units)
Instructed settlement quantity	Shows the instructed settlement quantity.
Settled settlement quantity	Shows the settled settlement quantity.
Currency code	Shows the currency code.
Credit/debit code	Shows if the settlement instruction involves a debit or credit of cash. Possible values: - CRDT (credit) - DBIT (debit)
Instructed settlement amount	Shows the instructed settlement amount.
Matched settlement amount	Shows the matched amount as per the matching process..
Settled settlement amount	Shows the settled settlement amount.
Transaction type code	Shows the transaction type code. Possible values: - DVP (delivery versus payment) - DWP (delivery with payment) - FOP (free of payment) - PFOD (payment freed of delivery)
Settlement transaction category	Shows the transaction category. Possible values: - COLA (collateral) - CORE (collateral relocation) - LQTR (liquidity transfer) - REAL (realignment)

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	- RSMG (restriction management) - RESU (restriction use) - RCOL (reverse collateral) - STND (standard) - TCAT (technical cash transfer) - COTF (conditional technical FOP)
Settlement transaction sub-category	Shows the transaction sub-category. Possible values: - CATR (cash transfer) - COBS (CoSD blocking position – setup) - PLED (pledge) - REAL (realignment) - REPO (repo) - STND (standard) - SPLE (sub-pledge)
ISO transaction code	Shows the ISO transaction code. Possible values: - AUTO (auto-collateralisation) - BSBK (buy sell back) - CLAI (market claim) - CNCB (cenrl bank collateral operation) - COLI (collateral in) - COLO (collateral out) - CONV (depository receipt conversion) - CORP (corporate action) - FCTA (factor update) - INSP (movement of stock) - ISSU (depository receipt issue) - MKDW (markdown) - MKUP (markup) - NETT (netting) - NSYN (non-syndicated)

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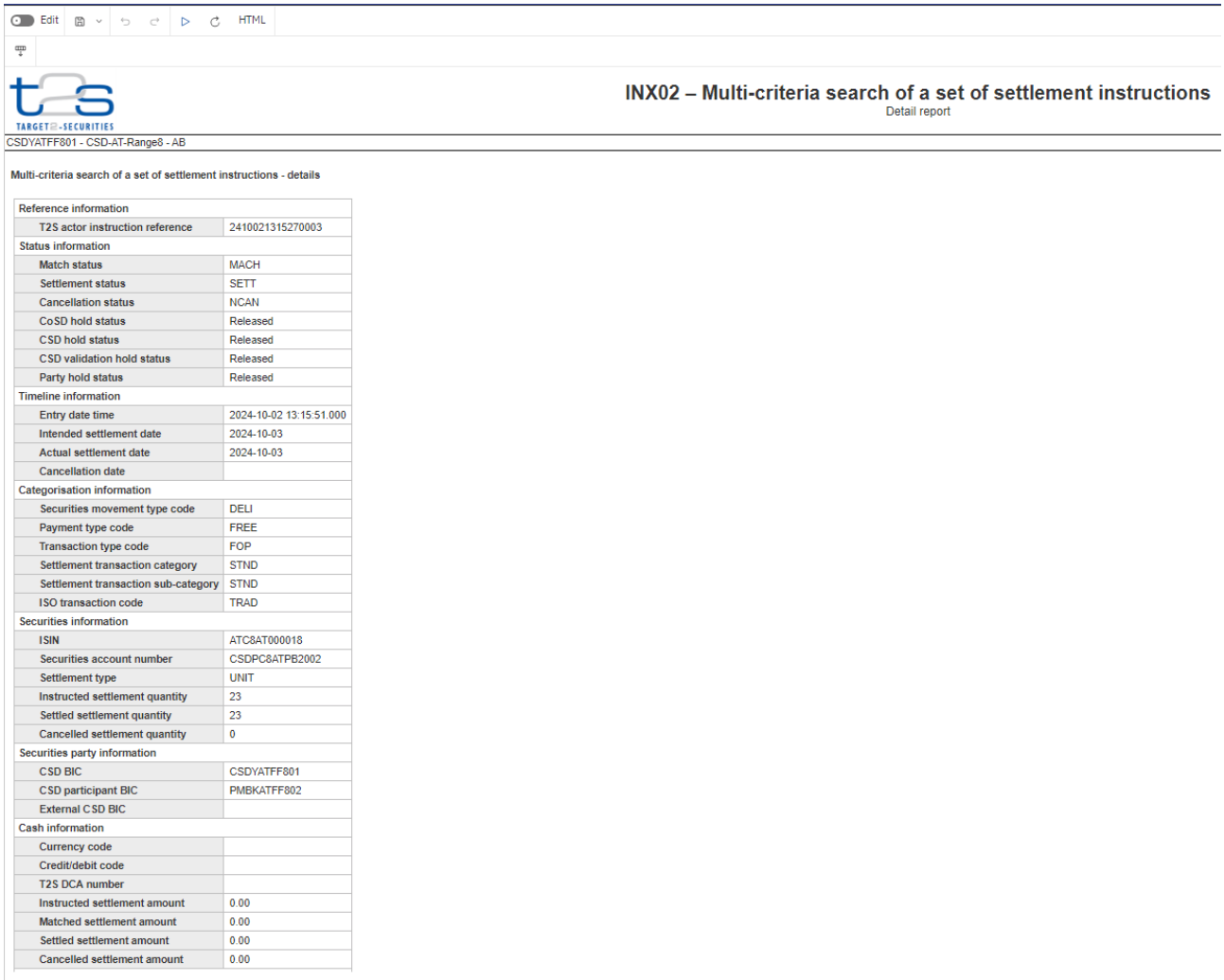
	- OWNE (external account transfer) - OWNI (internal account transfer) - PAIR (pair-off) - PLAC (placement) - PORT (portfolio move) - REAL (realignment) - REDI (withdrawal) - REDM (redemption) - RELE (depository receipt release cancellation) - REPU (repo) - RODE (return delivery without matching) - RPTO (reporting) - RVPO (reverse repo) - SBBK (sell buyback) - SBRE (borrowing reallocation) - SECB (securities borrowing) - SECL (securities lending) - SLRE (lending reallocation) - SUBS (subscription) - SYND (syndicate underwriters) - TBAC (TBA closing) - TRAD (trade) - TRPO (tri-party repo) - TRVO (tri-party reverse repo) - TURN (turnaround)
CSD BIC	Shows the BIC of the related CSD
CSD participant BIC	Shows the BIC of the T2S participant.
Securities account number	Shows the impacted securities account number as per the SI,

NCB BIC	Shows the parent party BIC of the payment bank (if applicable)
Payment bank BIC	Shows the BIC of the cash account owner (if applicable)
T2S DCA number	Shows the T2S cash account used for settlement (if applicable)

Screenshot



Edit HTML

INX02 – Multi-criteria search of a set of settlement instructions
Detail report

CSDYATFF801 - CSD-AT-Range8 - AB

Multi-criteria search of a set of settlement instructions - details

Reference information	
T2S actor instruction reference	2410021315270003
Status information	
Match status	MACH
Settlement status	SETT
Cancellation status	NCAN
CoSD hold status	Released
CSD hold status	Released
CSD validation hold status	Released
Party hold status	Released
Timeline information	
Entry date time	2024-10-02 13:15:51.000
Intended settlement date	2024-10-03
Actual settlement date	2024-10-03
Cancellation date	
Categorisation information	
Securities movement type code	DELI
Payment type code	FREE
Transaction type code	FOP
Settlement transaction category	STND
Settlement transaction sub-category	STND
ISO transaction code	TRAD
Securities information	
ISIN	ATC8AT000018
Securities account number	CSDPC8ATPB2002
Settlement type	UNIT
Instructed settlement quantity	23
Settled settlement quantity	23
Cancelled settlement quantity	0
Securities party information	
CSD BIC	CSDYATFF801
CSD participant BIC	PMBKATFF802
External CSD BIC	
Cash information	
Currency code	
Credit/debit code	
T2S DCA number	
Instructed settlement amount	0.00
Matched settlement amount	0.00
Settled settlement amount	0.00
Cancelled settlement amount	0.00

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Cash party information	
NCB BIC	
Payment bank BIC	
Process information	
Priority	
Externally matched	True
Trade information	
Trade date	2024-10-03
LCCM information	
LCCM approval status	APPR

00060664 - Range8 CSD-AT

Figure 406 - INX02 details screen

Field Description

INX02 – Multi-criteria search of a set of settlement instructions – Details Screen	
Reference information	
T2S actor instruction reference	Shows the reference provided by the T2S actor
Status information	
Match status	Shows if the settlement instruction is matched with a counterpart settlement instruction. Possible values: - NMAT (unmatched) - MACH (matched)
Settlement status	Shows the settlement status Possible values: - USET (unsettled) - PSET (partially settled) - SETT (fully settled)
Cancellation status	Shows the cancellation status

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	Possible values: NCAN (not cancelled) CANC (cancelled)
CoSD hold status	Shows the CoSD hold status if the settlement instruction fulfils at least one CoSD rule. Possible values: - Released - On hold
CSD hold status	Shows the CSD hold status Possible values: - Released - On hold
CSD validation hold status	Shows the CSD validation hold status Possible values: - Released - On hold
Party hold status	Shows the party hold status Possible values: - Released - On hold
Timeline information	
Entry date	Shows the date when the settlement instruction entered the T2S system. Display format is: YYYY-MM-DD
Intended settlement date	Shows the intended settlement date. Display format is: YYYY-MM-DD
Actual settlement date	Shows the actual settlement date, if applicable. Display format is: YYYY-MM-DD
Cancellation date	Shows the date when the settlement instruction was cancelled, if applicable. Display format is: YYYY-MM-DD
Categorisation information	
Securities movement type code	Shows the direction of movement required by the settlement instruction. Possible values: - DELI (deliver) - RECE (receive)
Payment type code	Shows if cash settlement is also involved.

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	Possible values: - APMT (against payment) - FREE (free of payment)
Transaction type code	Shows the transaction type code. Possible values: - DVP (delivery versus payment) - DWP (delivery with payment) - FOP (free of payment) - PFOD (payment freed of delivery)
Settlement transaction category	Shows the transaction category. Possible values: - COLA (collateral) - CORE (collateral relocation) - LQTR (liquidity transfer) - REAL (realignment) - RSMG (restriction management) - RESU (restriction use) - RCOL (reverse collateral) - STND (standard) - TCAT (technical cash transfer) - COTF (conditional technical FOP)
Settlement transaction sub-category	Shows the transaction sub-category. Possible values: - CATR (cash transfer) - COBS (CoSD blocking position – setup) - PLED (pledge) - REAL (realignment) - REPO (repo) - STND (standard) - SPLE (sub-pledge)
ISO transaction code	Shows the ISO transaction code. Possible values:

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	- AUTO (auto-collateralisation) - BSBK (buy sell back) - CLAI (market claim) - CNCB (cenrl bank collateral operation) - COLI (collateral in) - COLO (collateral out) - CONV (depository receipt conversion) - CORP (corporate action) - FCTA (factor update) - INSP (movement of stock) - ISSU (depository receipt issue) - MKDW (markdown) - MKUP (markup) - NETT (netting) - NSYN (non-syndicated) - OWNE (external account transfer) - OWNI (internal account transfer) - PAIR (pair-off) - PLAC (placement) - PORT (portfolio move) - REAL (realignment) - REDI (withdrawal) - REDM (redemption) - RELE (depository receipt release cancellation) - REPU (repo) - RODE (return delivery without matching) - RPTO (reporting) - RVPO (reverse repo) - SBBK (sell buyback) - SBRE (borrowing reallocation) - SECB (securities borrowing) - SECL (securities lending) - SLRE (lending reallocation)

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	l SUBS (subscription) l SYND (syndicate underwriters) l TBAC (TBA closing) l TRAD (trade) l TRPO (tri-party repo) l TRVO (tri-party reverse repo) l TURN (turnaround)
Securities information	
ISIN	Shows the ISIN.
Securities account number	Shows the impacted securities account number as per the SI,
Settlement type	Shows the settlement type. Possible values: l NOMI (nominal) l UNIT (units)
Instructed settlement quantity	Shows the original settlement quantity.
Settled settlement quantity	Shows the settled settlement quantity.
Cancelled settlement quantity	Shows the unsettled quantity if the SI is not completely settled.
Securities party information	
CSD BIC	Shows the BIC of the CSD
CSD participant BIC	Shows the BIC of the CSD participant.
External CSD BIC	Shows the BIC of the external CSD (ECSD)
Cash information (Please note, that this part will be empty for Settlement Instructions with transaction code = FOP)	
Currency code	Shows the currency code.
Credit/debit code	Shows if the settlement instruction involves a debit or credit of cash. Possible values: l CRDT (credit) l DBIT (debit)
T2S dedicated cash account number	Shows the impacted T2S dedicated cash account number.
Instructed settlement amount	Shows the instructed settlement amount.

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Matched settlement amount	Shows the matched amount as per the matching process..
Settled settlement amount	Shows the settled settlement amount.
Cancelled settlement amount	Shows the cancelled amount if the SI is not completely settled.
Cash party information	
NCB BIC	Shows the BIC of the national central bank.
Payment bank BIC	Shows the BIC of the payment bank.
Process information	
Priority	Shows the priority. Possible values: - 0001 (reserved) - 0002 (top) - 0003 (high) - 0004 (normal)
Externally matched	Shows if the settlement instruction was matched outside T2S. Possible values: - False - True
Trade information	

Trade date	Shows the trade date of the settlement instruction. Display format is: YYYY-MM-DD
LCMM information	
LCMM approval status	Shows the LCMM approval status. Possible values: - APPR (approved (default value)) - AWAP (awaiting approval) - REJT (rejected) - RVKD (revoked)

6.3.3 INX03 – Individual restriction detailed report

Context of Usage

This report shows all finalised business settlement restrictions (SR) corresponding to the selected T2S references.

The attributes shown in the output provide business details related to each of the selected settlement restrictions and are displayed in a manner which allows easy comparison between these instructions.

This report can be used by CSD and CB users.

Report Access

This report can be reached in the following way:

- Content >> Team Content >> T2S >> Predefined Reports >> INX - T2S Instructions >> INX03

Screenshot

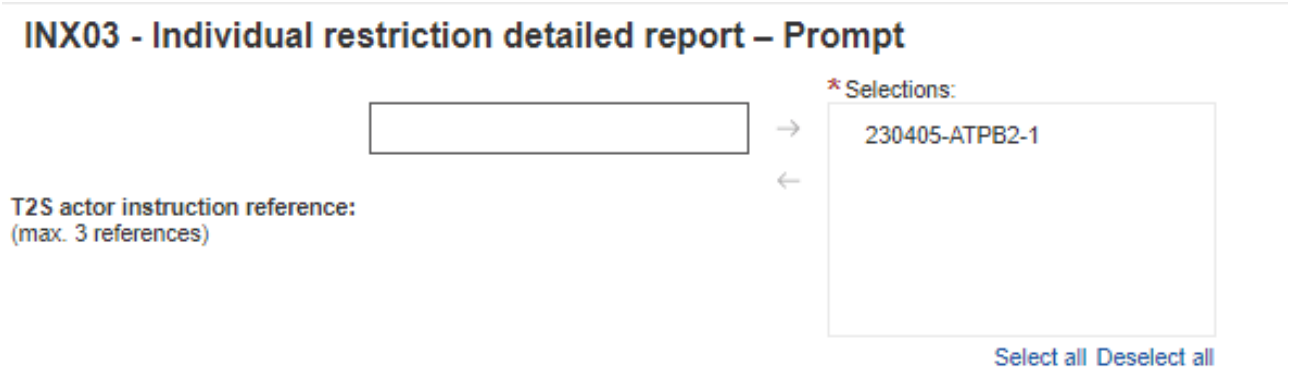
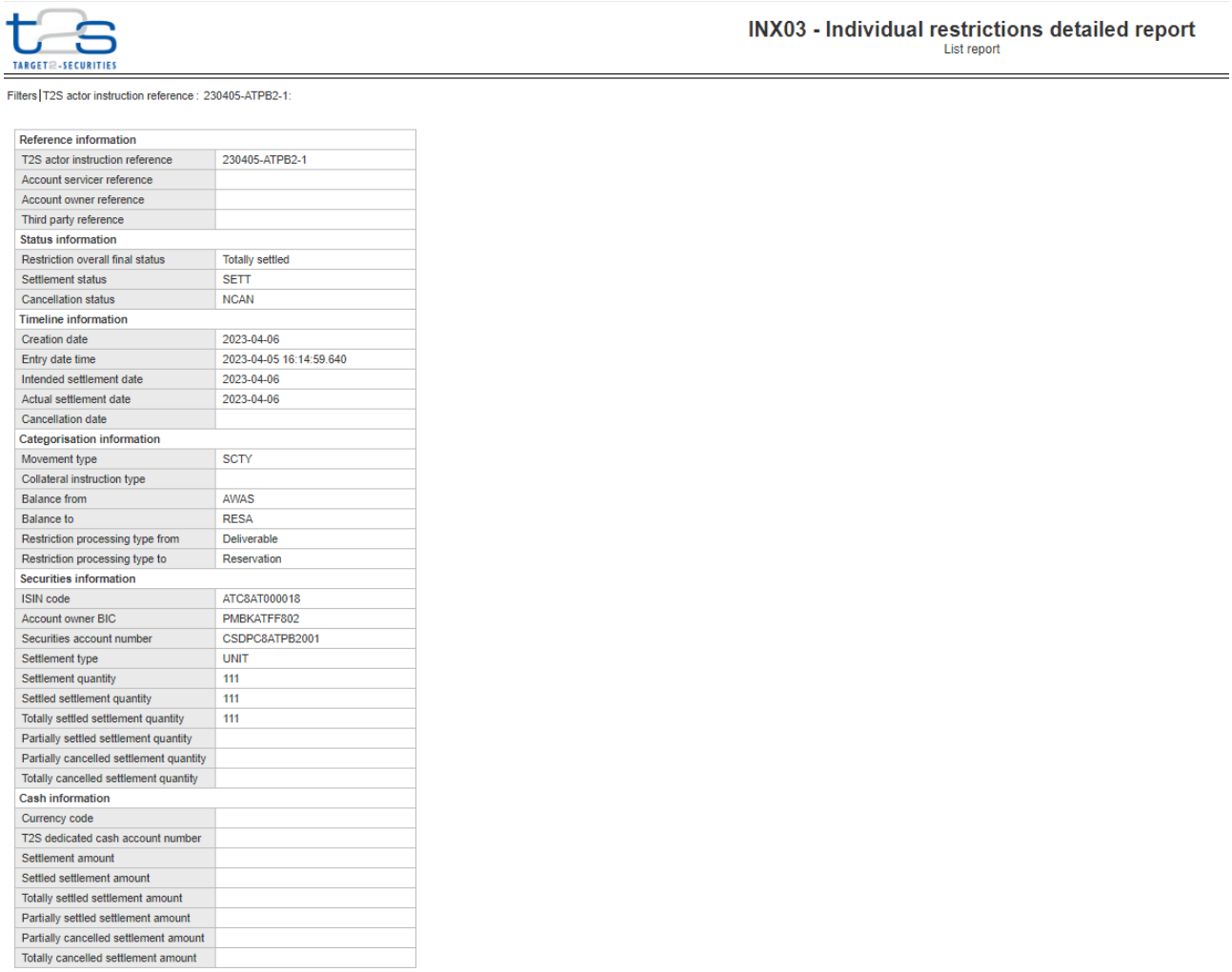


Figure 407 - INX03 prompt screen

Field Description

INX03 – Individual restriction detailed report – Prompt Screen	
T2S actor instruction reference	You can use this text box field to search one or several T2S actor instruction references. This field will show all related references, which belong to the default data scope of the user's party. One or several references can be entered sequentially but a maximum of 3 may not be exceeded. Otherwise, a respective error screen will be shown. This first text box field is mandatory.

Screenshot



INX03 - Individual restrictions detailed report
List report

Filters | T2S actor instruction reference : 230405-ATPB2-1:

Reference information	
T2S actor instruction reference	230405-ATPB2-1
Account servicer reference	
Account owner reference	
Third party reference	
Status information	
Restriction overall final status	Totally settled
Settlement status	SETT
Cancellation status	NCAN
Timeline information	
Creation date	2023-04-06
Entry date time	2023-04-05 16:14:59.640
Intended settlement date	2023-04-06
Actual settlement date	2023-04-06
Cancellation date	
Categorisation information	
Movement type	SCTY
Collateral instruction type	
Balance from	AWAS
Balance to	RESA
Restriction processing type from	Deliverable
Restriction processing type to	Reservation
Securities information	
ISIN code	ATC8AT000018
Account owner BIC	PMBKATFF802
Securities account number	CSDPC8ATPB2001
Settlement type	UNIT
Settlement quantity	111
Settled settlement quantity	111
Totally settled settlement quantity	111
Partially settled settlement quantity	
Partially cancelled settlement quantity	
Totally cancelled settlement quantity	
Cash information	
Currency code	
T2S dedicated cash account number	
Settlement amount	
Settled settlement amount	
Totally settled settlement amount	
Partially settled settlement amount	
Partially cancelled settlement amount	
Totally cancelled settlement amount	

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Process information	
CoSD blocking	F
Priority	
Corporate action event identification	
Collateral flag	
End of day restriction release	
Linked instructions counter	
LCMM information	
LCMM approval status	APPR
LCCM sending party short name	PB2-AT as CSDP-AT Range8 - AB
LCCM instructing party short name	PB2-AT as CSDP-AT Range8 - AB
LCMM execution/final settlement date	2023-04-06
LCMM user login name	
LCMM inbound LCMM message Id	2304050525874322
LCMM inbound LCMM message ref	9000000001928982
LCMM validation starting timestamp	2023-04-05 16:14:59.509
LCMM validation ending timestamp	2023-04-05 16:14:59.635
LCMM entry business date	2023-04-05
POOL party short name	
POOL instruction counter	0
POOL settlement date	
POOL identification	0

Figure 408 - INX03 output screen

Field Description

INX03 – Individual restriction detailed report – Output Screen (These columns will be shown for every instruction selected in the prompt screen)	
Reference information	
T2S actor instruction reference	Shows the reference provided by the T2S actor
Account servicer reference	Shows the reference provided by the T2S actor when the restriction is sent by an account servicer.

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Account owner reference	Shows the reference provided by the T2S actor when the restriction is sent by an account owner.
Third party reference	Shows the reference provided by the T2S actor when the restriction is sent by a third party.
Status information	
Restriction overall final status	Shows the final status. Possible values: - "Totally settled" - "Partially settled" - "Totally cancelled"
Settlement status	Shows the settlement status Possible values: - USET (unsettled) - PSET (partially settled) - SETT (fully settled)
Cancellation status	Shows the cancellation status Possible values: - NCAN (not cancelled) - CANC (cancelled)
Timeline information	
Creation date	Shows the date when the settlement restriction was created. Display format is: YYYY-MM-DD
Entry date time	Shows the date when the settlement restriction entered T2S. Display format is: YYYY-MM-DD hh:mm: ss,sssss
Intended settlement date	Shows the intended settlement date. Display format is: YYYY-MM-DD
Actual settlement date	Shows the actual settlement date. Display format is: YYYY-MM-DD
Cancellation date	Shows the date when the settlement restriction was cancelled. Display format is: YYYY-MM-DD
Categorisation information	
Movement type	Shows the movement type of the settlement restriction. Possible values:

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	• CASH (restriction of cash) • SCTY (restriction of securities)
Collateral instruction type	Shows the collateral instruction type. Possible values: • CRDT (credit instruction) • RMBT (reimbursement collateral instruction)
Balance from	Shows the balance type from which securities or cas are moved
Balance to	Shows the balance type to which securities or cash are moved
Restriction processing type from	Shows the restriction processing type from which the cash/securities are debited/delivered. Possible values: • Rejection • CSD Validation Hold • Reservation • Blocking • Balance Type/Earmarking • Earmarking for Auto-collateralisation • Deliverable • Collateralised • CoSD Blocking
Restriction processing type to	Shows the restriction processing type to which the cash/securities are credited/received. Possible values: • Rejection • CSD Validation Hold • Reservation • Blocking • Balance Type/Earmarking • Earmarking for Auto-collateralisation • Deliverable • Collateralised • CoSD blocking

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Securities information (This part will only be filled in case of settlement restrictions on securities)	
ISIN	Shows the ISIN.
Account owner BIC	Shows the BIC of the securities account owner as per the SR.
Securities account number	Shows the impacted securities account number as per the SR.
Settlement type	Shows the settlement type. Possible values: - FAMT (nominal) - UNIT (units)
Settlement quantity	Shows the entered settlement quantity.
Settled settlement quantity	Shows the settled settlement quantity.
Totally settled settlement quantity	Shows the settled quantity if the SR is fully settled.
Partially settled settlement quantity	Shows the settled quantity if the SR is only partially settled.
Partially cancelled settlement quantity	Shows the remaining unsettled quantity if the SR is only partially settled
Totally cancelled settlement quantity	Shows the unsettled quantity if the SR is completely cancelled.
Cash information (This part will only be filled in case of settlement restrictions on cash)	
Currency code	Shows the currency code.
T2S dedicated cash account number	Shows the impacted T2S dedicated cash account number.
Settlement amount	Shows the settlement amount.
Settled settlement amount	Shows the settled settlement amount.
Totally settled settlement amount	Shows the settled amount if the SR is fully settled.
Partially settled settlement amount	Shows the settled amount if the SR is only partially settled.
Partially cancelled settlement amount	Shows the remaining unsettled amount if the SR is only partially settled
Totally cancelled settlement amount	Shows the unsettled amount if the SR is completely cancelled.
Process information	
CoSD blocking	Shows whether the restriction relates to a CoSD blocking. Possible values: - False - True

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Priority	Shows the priority. Possible values: - 0001 (reserved) - 0002 (top) - 0003 (high) - 0004 (normal)
Corporate action event identification	Shows the corporate action event identification if the SR relates to a corporate action.
Collateral flag	Shows whether the restriction relates to collateral. Possible values: - False - True
Linked instructions counter	Shows the number of instructions linked to this settlement restriction.
LCMM information	
LCMM approval status	Shows the LCMM approval status. Possible values: - APPR (approved (default value)) - AWAP (awaiting approval) - REJT (rejected) - RVKD (revoked)
LCMM sending party short name	Shows the sending party short name
LCMM instructing party short name	Shows the instructing party short name
LCMM execution/final settlement date	Shows the business date when the SR is totally settled. Displayed format is : YYYY-MM-DD.
LCMM user login name	Shows the login name of the LCMM user.
LCMM inbound LCMM message Id	Shows the foreign key of the LCMM inbound message id.
LCMM inbound LCMM message ref	Shows the reference of the LCMM inbound message.
LCMM validation starting timestamp	Shows the LCMM validation starting timestamp. Display format is: YYYY-MM-DD hh:mm:ss,sssss
LCMM validation ending timestamp	Shows the LCMM validation ending timestamp. Displayed format is:

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	YYYY-MM-DD hh:mm:ss,ssss
LCMM entry business date	Shows the LCMM entry business date. Displayed format is: YYYY-MM-DD
POOL party short name	Shows the short name of the party
POOL instruction counter	Shows the number of instructions that make up a pool as identified on the settlement restriction.
POOL settlement date	Shows the pool settlement date. Displayed format is: YYYY-MM-DD
POOL identification	Shows the reference identifying a pool as found on the settlement instruction.

6.3.4 INX04 – Multi-criteria search of a set of settlement restrictions

Context of Usage

This report shows a list of details for selected finalised business settlement restrictions (SR), which it performs on two levels. In the first level, the report produces a list of SRs corresponding to user-supplied filter criteria. In the second level, the user may select one SR from the list and the detailed report provides a full list of attributes for the selected SR.

The attributes shown in the detailed report output provide business details related to the selected SR.

This report can be used by CB and CSD users.

Report Access

This report can be reached in the following way:

- Content >> Team Content >> T2S >> Predefined Reports >> INX - T2S Instructions >> INX04

Screenshot

Figure 409 - INX04 pre-selection screen 1 (CSD User login)

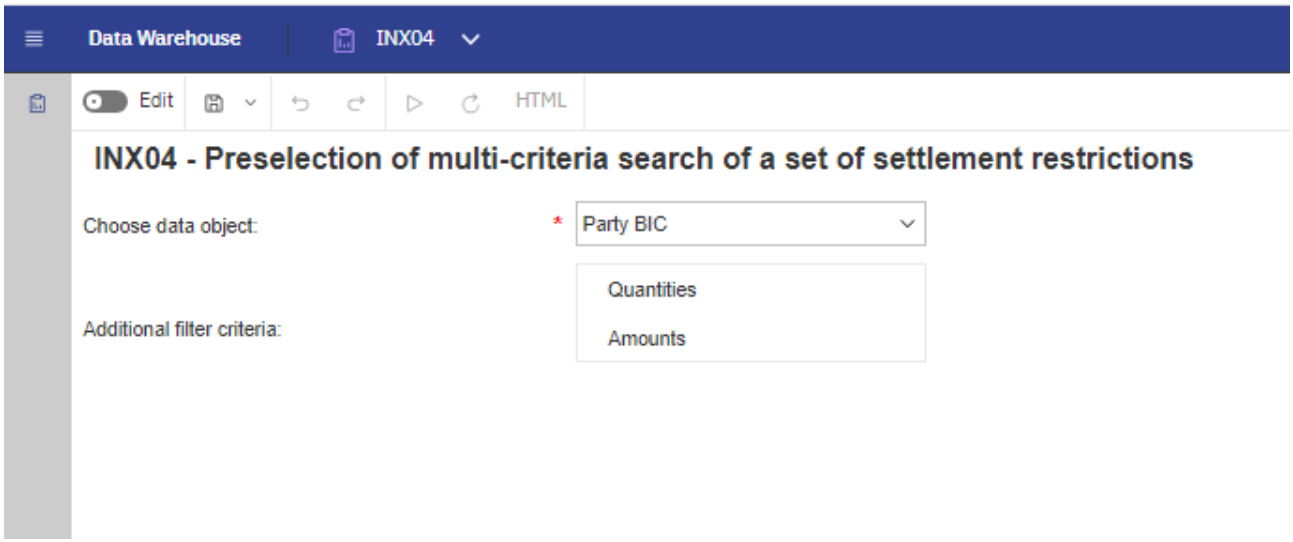

Figure 410 - INX04 - pre selection screen

Field Description

INX04 – Multi-criteria search of a set of settlement restrictions – Pre-selection screen	
Choose data object (one of both objects has to be chosen)	
Party BIC	Provides fields for searching securities party BICs or cash party BICs in the next screen
Account number	Provides fields for searching for securities account numbers or cash account numbers in the next screen

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Additional search criteria (both objects are optional)	
Quantity of securities	Provides fields for searching different quantity ranges in the next screen
Amounts	Provides fields for searching different amount ranges in the next screen

Screenshot

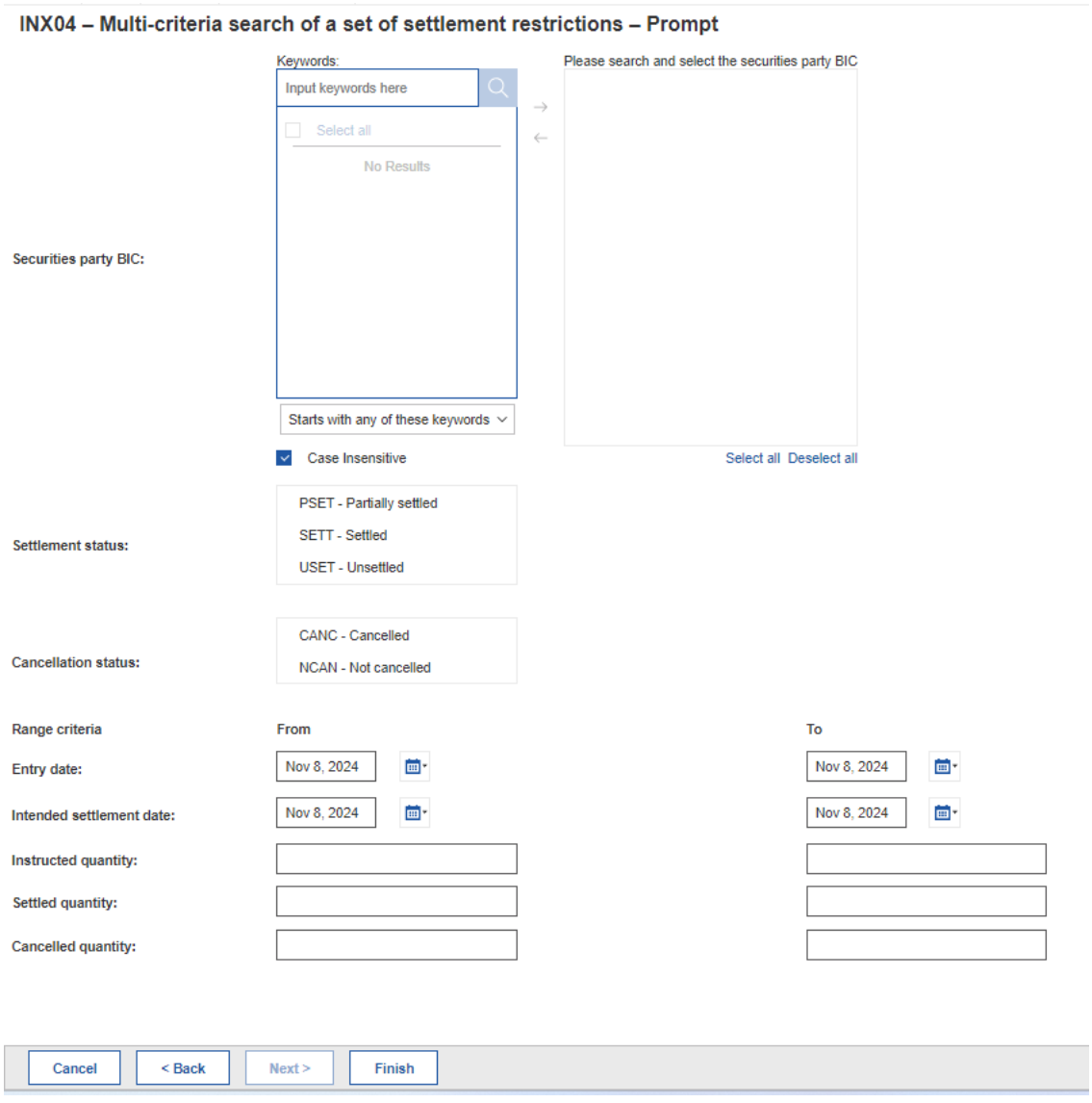

Figure 411 - INX04 prompt screen 2 (CSD User login) – Party BIC

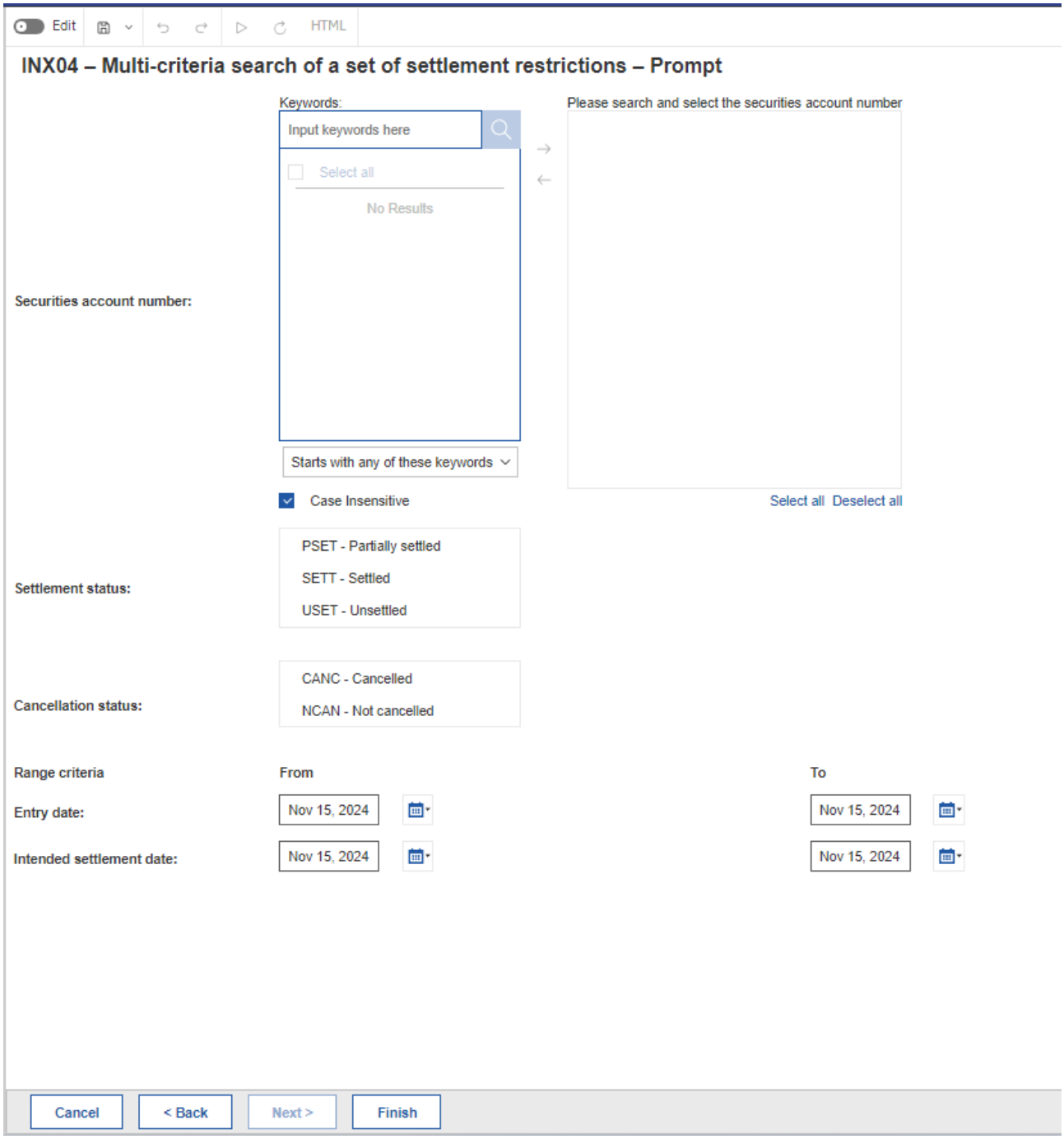

Figure 412 - INX04 prompt screen 2 (CSD User login) - Account number

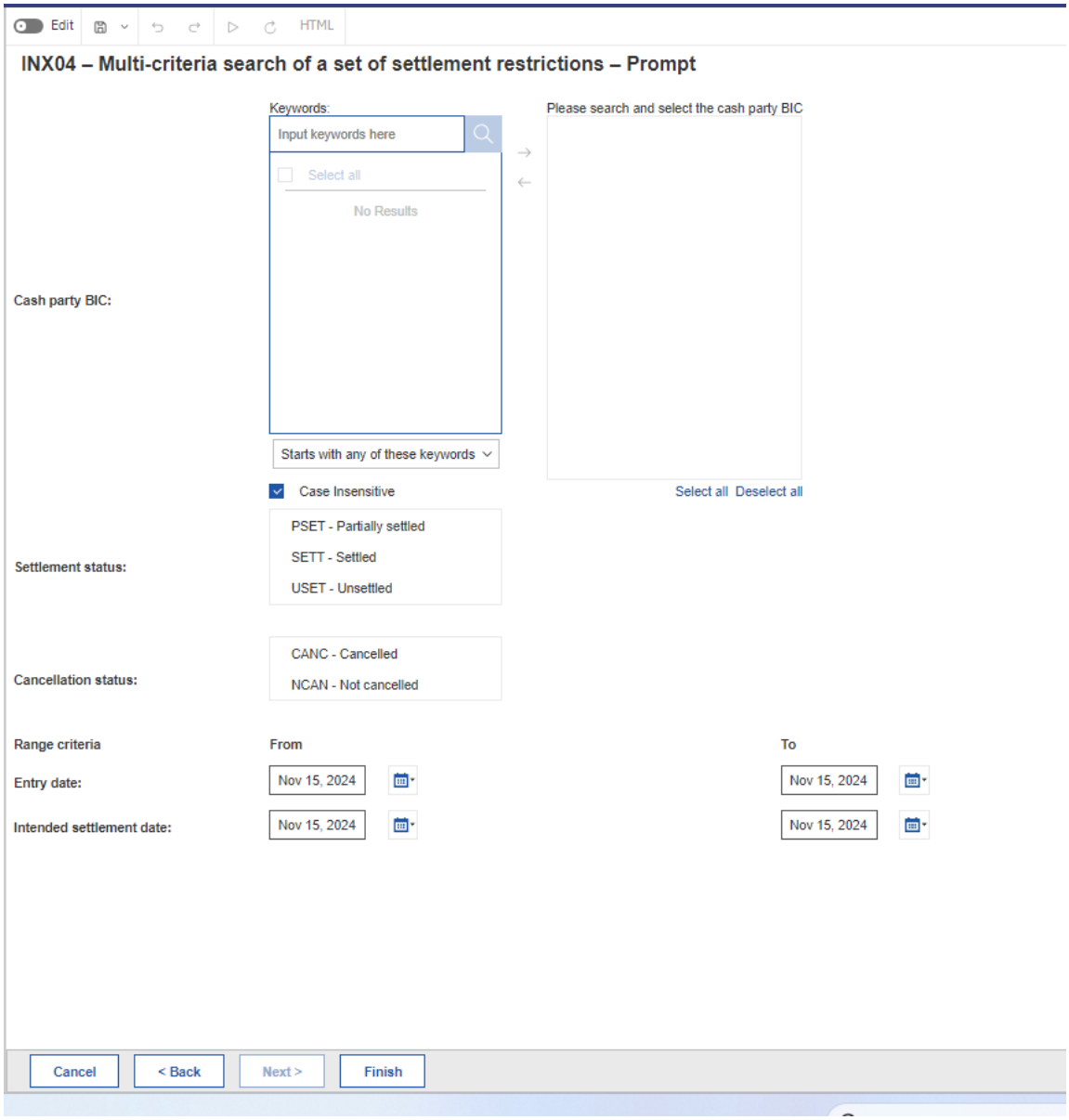

Figure 413 - INX04 - prompt screen 2 (CB User login) - Party BIC

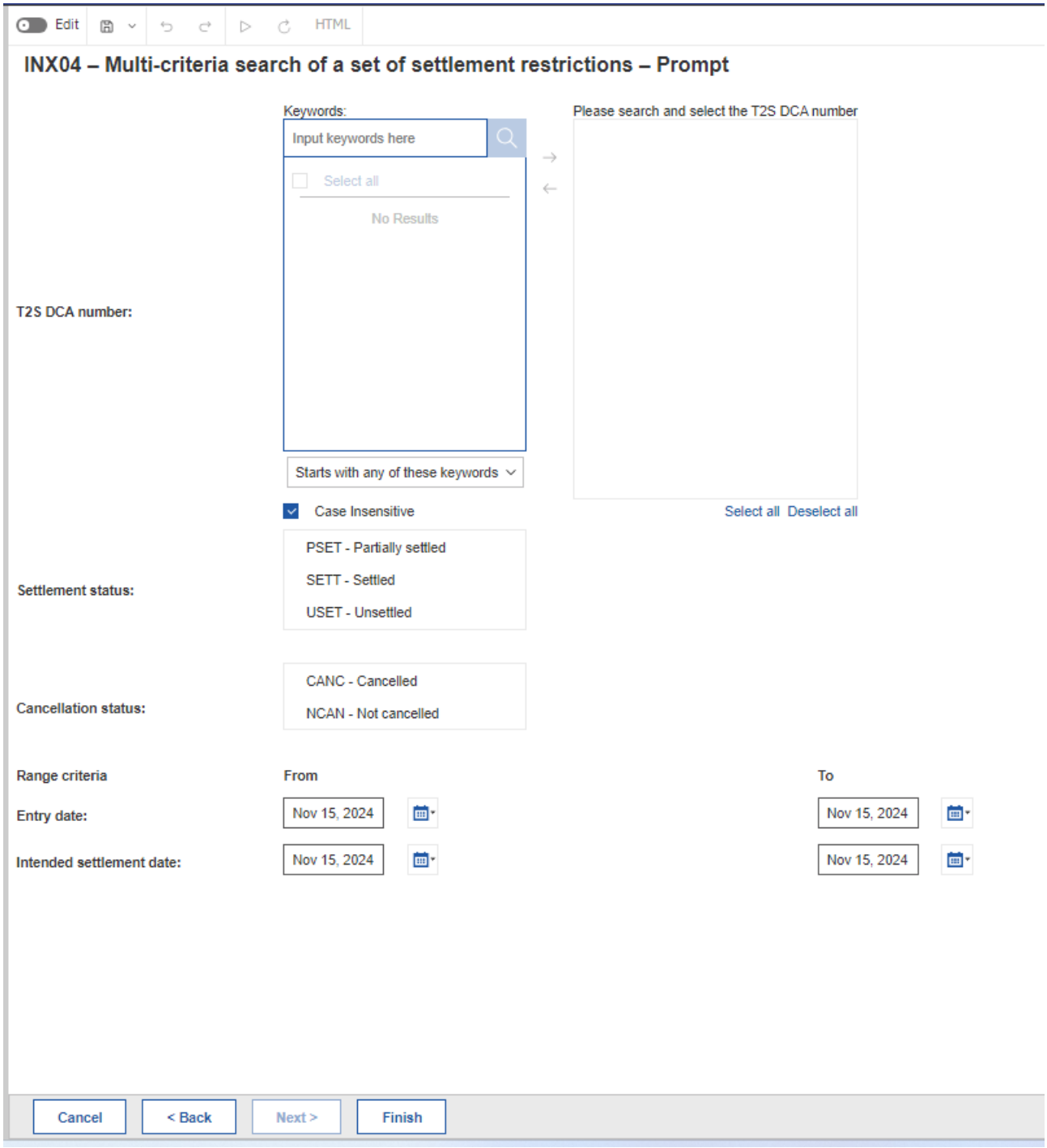

Figure 414 - INX04 - prompt screen 2 (CB User login) - Account number

Field Description

INX04 – Multi-criteria search of a set of settlement restrictions – Prompt Screen	
Displayed fields when selecting Party BIC	
Securities party BIC	Filter to select which securities party BIC (CSDs, CSD participants or ECSDs) value/s should be included in the output.

Cash party BIC	Filter to select which cash party BIC (NCB or payment bank) value/s should be included in the output.
Displayed fields when selecting Account number	
Securities account number	Filter to select which securities account number value/s should be included in the output.
T2S DCA number	Multiple selection text field to enter T2S DCA number that should be included in the output.
Settlement status	Filter to select which settlement status value/s should be included in the output. Possible values: - USET - PSET - SETT
Cancellation status	Filter to select which cancellation status value/s should be included in the output. Possible values: - NCAN - CANC
Entry date from	Filter to select the inclusive date from which entry date value/s should be included in the output. Must be used in conjunction with: - entry date to
Entry date to	Filter to select the inclusive date up to which entry date value/s should be included in the output. Must be used in conjunction with: - entry date from
Intended settlement date from	Filter to select the inclusive date from which intended settlement date value/s should be included in the output. Must be used in conjunction with: - intended settlement date to

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Intended settlement date to	Filter to select the inclusive date up to which intended settlement date value/s should be included in the output. Must be used in conjunction with: • intended settlement date from
The following criteria are only shown in case that “Quantity of securities” was chosen as additional search criteria	
Instructed quantity from	Filter to select the inclusive quantity from which instructed quantity value/s should be included in the output. Must be used in conjunction with: • instructed quantity to
Instructed quantity to	Filter to select the inclusive quantity up to which instructed quantity value/s should be included in the output. Must be used in conjunction with: • instructed quantity from
Settled quantity from	Filter to select the inclusive quantity from which settled quantity value/s should be included in the output. Must be used in conjunction with: • settled quantity to
Settled quantity to	Filter to select the inclusive quantity up to which settled quantity value/s should be included in the output. Must be used in conjunction with: • settled quantity from
Cancelled quantity from	Filter to select the inclusive quantity from which cancelled quantity value/s should be included in the output. Must be used in conjunction with: cancelled quantity to
Cancelled quantity to	Filter to select the inclusive quantity up to which cancelled quantity value/s should be included in the output.

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	Must be used in conjunction with: • cancelled quantity from
The following criteria are only shown in case that “Amounts” was chosen as additional search criteria	
Instructed amount from	Filter to select the inclusive amount from which instructed amount value/s should be included in the output. Must be used in conjunction with: • instructed amount to
Instructed amount to	Filter to select the inclusive amount up to which instructed amount value/s should be included in the output. Must be used in conjunction with: • instructed amount from
Settled amount from	Filter to select the inclusive amount from which settled amount value/s should be included in the output. Must be used in conjunction with: • settled amount to

Settled amount to	Filter to select the inclusive amount up to which settled amount value/s should be included in the output. Must be used in conjunction with: • settled amount from
Cancelled amount from	Filter to select the inclusive amount from which cancelled amount value/s should be included in the output. Must be used in conjunction with: • cancelled amount to
Cancelled amount to	Filter to select the inclusive amount up to which cancelled amount value/s should be included in the output. Must be used in conjunction with: • cancelled amount from

Screenshot

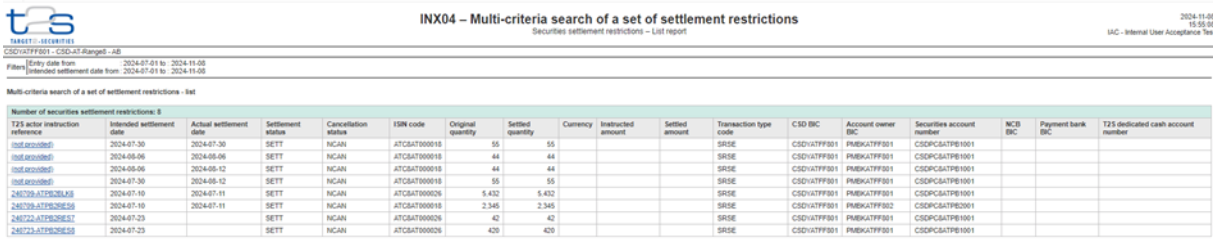

Figure 415 - INX04 list screen

Field Description

INX04 – Multi-criteria search of a set of settlement restrictions – List Screen	
Number of settlement restrictions	Shows the number of settlement restrictions found matching the criteria
(For each restriction matching the selection criteria, one line will be displayed)	
T2S actor instruction reference	Shows the reference provided by the T2S actor The reference is built as a hyperlink which leads to the output details screen when clicked.
Intended settlement date	Shows the intended settlement date. Display format is: YYYY-MM-DD

Actual settlement date	Shows the actual settlement date.
Settlement status	Shows the settlement status Possible values: - USET (unsettled) - PSET (partially settled) - SETT (fully settled)
Cancellation status	Shows the cancellation status Possible values: - NCAN (not cancelled) - CANC (cancelled)
ISIN code	Shows the ISIN
Instructed quantity	Shows the entered settlement quantity.
Settled quantity	Shows the settled settlement quantity.
Currency	Shows the currency code
Original amount	Shows the settlement amount.
Settled amount	Shows the settled settlement amount.
Transaction type code	Shows the transaction type of the settlement restriction. Possible values: - SRCA (settlement restriction on cash) - SRSE (settlement restriction on securities)
CSD BIC	Shows the BIC of the CSD
Account owner BIC	Shows the BIC of the securities account owner as per the SR.
Securities account number	Shows the impacted securities account number as per the SR.

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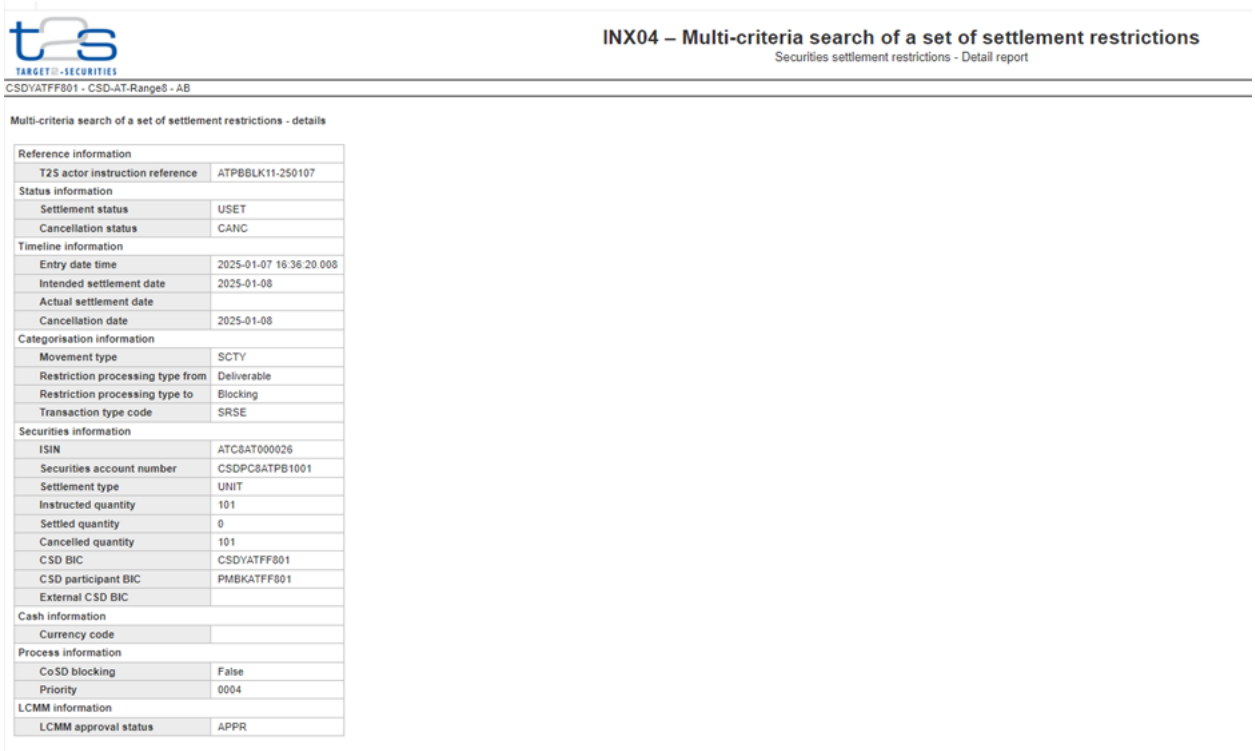
NCB BIC	Shows the parent party BIC of the payment bank (if applicable)
Payment bank BIC	Shows the BIC of the payment bank (if applicable)
T2S dedicated cash account number	Shows the impacted T2S dedicated cash account number.

Screenshot


INX04 – Multi-criteria search of a set of settlement restrictions
Securities settlement restrictions - Detail report
CSDYATFF801 - CSD-AT-Range8 - AB

Multi-criteria search of a set of settlement restrictions - details

Reference information	
T2S actor instruction reference	ATPBBLK11-250107
Status information	
Settlement status	USET
Cancellation status	CANC
Timeline information	
Entry date time	2025-01-07 16:36:20.008
Intended settlement date	2025-01-08
Actual settlement date	
Cancellation date	2025-01-08
Categorisation information	
Movement type	SCTY
Restriction processing type from	Deliverable
Restriction processing type to	Blocking
Transaction type code	SRSE
Securities information	
ISIN	ATC8AT000026
Securities account number	CSDPC8ATPB1001
Settlement type	UNIT
Instructed quantity	101
Settled quantity	0
Cancelled quantity	101
CSD BIC	CSDYATFF801
CSD participant BIC	PMBKATFF801
External CSD BIC	
Cash information	
Currency code	
Process information	
CoSD blocking	False
Priority	0004
LCMM information	
LCMM approval status	APPR

Figure 416 - INX04 details screen

Field Description

INX04 – Multi-criteria search of a set of settlement restrictions – Details Screen	
Reference information	
T2S actor instruction reference	Shows the reference provided by the T2S actor
Status information	
Settlement status	Shows the settlement status Possible values: - USET (unsettled) - PSET (partially settled) - SETT (fully settled)
Cancellation status	Shows the cancellation status

	Possible values: - NCAN (not cancelled) - CANC (cancelled)
Timeline information	
Entry date time	Shows the date when the settlement instruction entered the T2S system. Display format is: YYYY-MM-DD hh:mm:ss,sssss
Intended settlement date	Shows the intended settlement date. Display format is: YYYY-MM-DD
Actual settlement date	Shows the actual settlement date, if applicable. Display format is: YYYY-MM-DD
Cancellation date	Shows the date when the settlement instruction was cancelled, if applicable. Display format is: YYYY-MM-DD
Categorisation information	
Movement type	Shows the movement type of the settlement restriction. Possible values: - CASH (restriction on cash) - SCTY (restriction on securities)
Restriction processing type from	Shows the restriction processing type from which the cash/securities are debited/delivered. Possible values: - Rejection - CSD Validation Hold - Reservation - Blocking - Balance Type/Earmarking - Earmarking for Auto-collateralisation - Deliverable - Collateralised - CoSD Blocking
Restriction processing type to	Shows the restriction processing type to which the cash/securities are credited/received. Possible values: - Rejection - CSD Validation Hold

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	- Reservation - Blocking - Balance Type/Earmarking - Earmarking for Auto-collateralisation - Deliverable - Collateralised - CoSD blocking
Transaction type code	Shows the transaction type of the settlement restriction. Possible values: - SRCA (settlement restriction on cash) - SRSE (settlement restriction on securities)
Securities information (Please note, that this part will only be filled for restrictions on securities)	
ISIN	Shows the ISIN.
Securities account number	Shows the impacted securities account number as per the SI,
Settlement type	Shows the settlement type. Possible values: - FAMT (nominal) - UNIT (units)
Instructed quantity	Shows the instructed settlement quantity.
Settled quantity	Shows the settled settlement quantity.
Cancelled quantity	Shows the unsettled quantity if the SI is not completely settled.
CSD BIC	Shows the BIC of the CSD
CSD participant BIC	Shows the BIC of the CSD participant.
External CSD BIC	Shows the BIC of the external CSD (ECSD)
Cash information (Please note, that this part will only be filled for restrictions on cash)	
Currency code	Shows the currency code.
T2S dedicated cash account number	Shows the impacted T2S dedicated cash account number.
Instructed amount	Shows the instructed settlement amount.
Settled amount	Shows the settled settlement amount.

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Cancelled amount	Shows the cancelled amount if the SR did not reach full settlement.
NCB BIC	Shows the parent party BIC of the payment bank (if applicable)
Payment bank BIC	Shows the BIC of the payment bank
Process information	
CoSD blocking	Shows whether the restriction relates to a CoSD blocking. Possible values: - False - True
Priority	Shows the priority. Possible values: - 0001 (reserved) - 0002 (top) - 0003 (high) - 0004 (normal)
LCMM information	
LCMM approval status	Shows the LCMM approval status. Possible values: - APPR (approved (default value)) - AWAP (awaiting approval) - REJT (rejected) - RVKD (revoked)

6.3.5 INX05 – Liquidity transfers

Context of Usage

This report shows the cash activity for all finalised liquidity transfers (LT) at CB, PB or T2S dedicated cash account level, during a selected period of time. The volume of finalised liquidity transfers per transaction category / transaction sub-category / underlying transfer type, together with the aggregated instructed and actual settled values, are shown.

This report can be used by CB users.

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Report Access

This report can be reached in the following way:

- Content >> Team Content >> T2S >> Predefined Reports >> INX - T2S Instructions >> INX05

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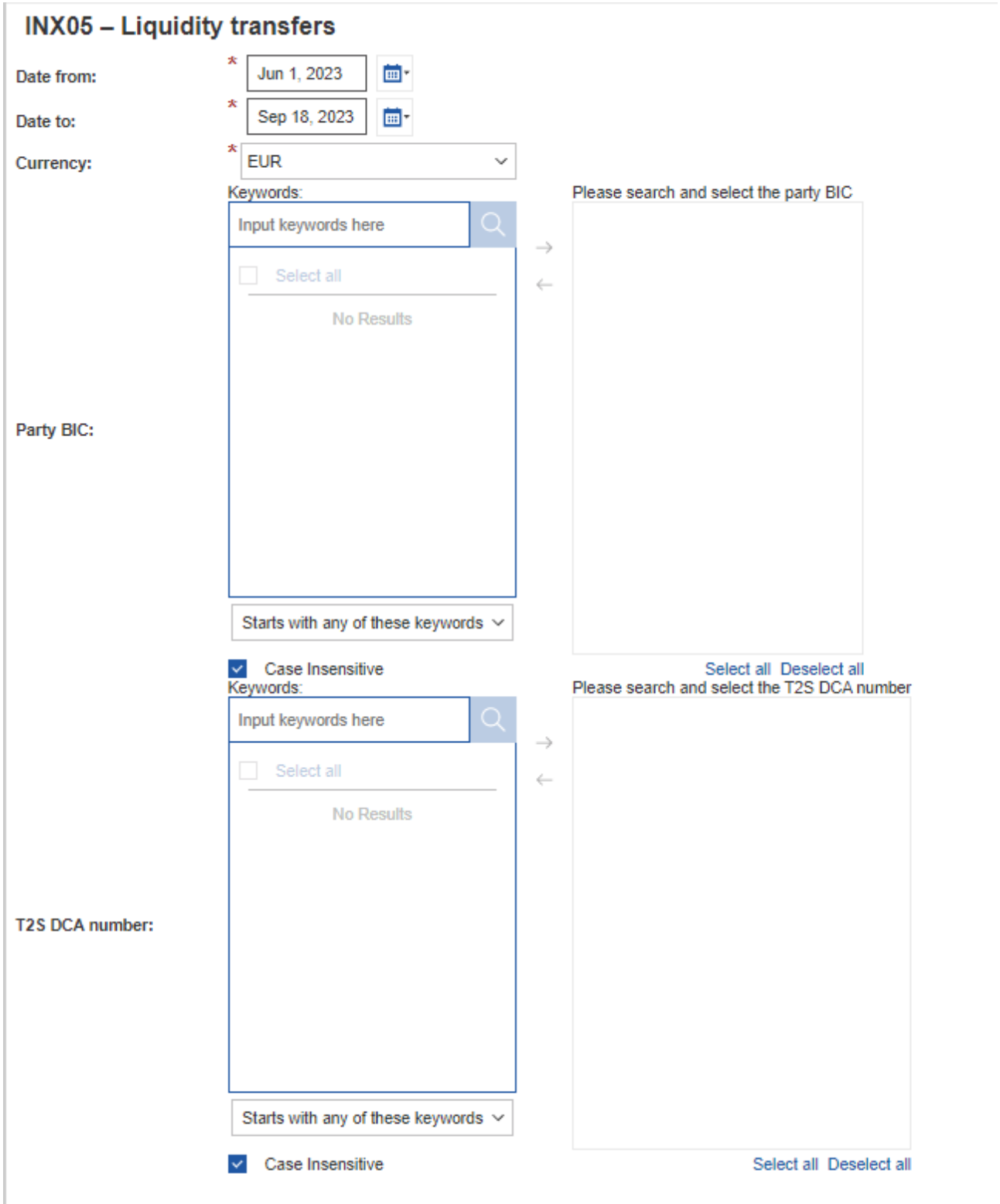
Screenshot


INX05 – Liquidity transfers
Date from:
Jun 1, 2023
Date to:
Sep 18, 2023
Currency:
EUR
Party BIC:
Keywords:
Input keywords here
Select all
No Results
Please search and select the party BIC
Starts with any of these keywords
Case Insensitive
Select all Deselect all
T2S DCA number:
Keywords:
Input keywords here
Select all
No Results
Please search and select the T2S DCA number
Starts with any of these keywords
Case Insensitive
Select all Deselect all

INX05 prompt screen

Field	INX05 – Liquidity transfers – Prompt Screen
Description	
Date From	You can select the date by clicking on the calendar. This field is mandatory.
Date To	You can select the end date of the period, for which the report should contain the data by clicking on the calendar. For valid report results, the current day cannot be selected. This field is mandatory.

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Currency	You can use this drop-down field to select the currency. This field is mandatory.
Party BIC	You can use this drop-down field to select one or several party BIC. This field will show all related BICs, which belong to the default data scope of the user's party. This field is optional.
T2S DCA number	You can use this drop-down field to select one or several T2S DCA numbers. This field will show all related T2S DCAs, which belong to default data scope of the user's party and which belong to the parties selected in field "Party BIC". If no Party BICs are selected, this field shows all T2S DCA numbers belonging to the default data scope of the user's party. This field is optional.

Screenshot

INX05 – Liquidity transfers

Filters | Date from : 2023-06-01 Date to: 2023-09-18
Currency : EUR

Liquidity transfers

Liquidity Transfer Type: Inbound liquidity transfer

			Volume of liquidity transfer						
Transaction category	Transaction sub-category	Underlying transfer type	Totally settled	Partially settled	Totally cancelled	Rejected	Revoked	Value of transfers	Value actually transferred
		Immediate	19	0	0	0	0	1,975,410.90	1,975,410.90
		Standing	49	0	0	0	0	630,232.29	630,232.29
LQTR	LQTR	Immediate	2,914	0	0	0	0	2,059,041,059.48	2,059,041,059.48
		Predefined	1	0	0	0	0	16,156.00	16,156.00
		Standing	2,066	0	23	0	0	30,747,884.08	29,686,002.41
Total			5,049	0	23	0	0	2,092,410,742.75	2,091,348,861.08

Liquidity Transfer Type: Outbound liquidity transfer

			Volume of liquidity transfer						
Transaction category	Transaction sub-category	Underlying transfer type	Totally settled	Partially settled	Totally cancelled	Rejected	Revoked	Value of transfers	Value actually transferred
		Immediate	3	0	0	0	0	49,606.68	49,606.68
		Standing	49	0	34	0	0	392,000.84	630,232.29
LQTR	LQTR	Immediate	265	5	11	0	0	279,027,448.32	278,472,083.32
		Predefined	1	0	0	0	0	16,156.00	16,156.00
		Standing	2,149	7	576	0	0	19,248,797.69	15,426,180.79
	LTAC	Standing	130	0	1,254	0	0	0.00	16,688,886.03
TCAT	CARL	Standing	23	0	0	0	0	0.00	577,055.00
	MPOR	Standing	22	0	0	0	0	0.00	26,640.04
Total			2,642	12	1,875	0	0	298,734,009.53	311,886,840.15

Liquidity Transfer Type: Internal liquidity transfer

			Volume of liquidity transfer						
Transaction category	Transaction sub-category	Underlying transfer type	Totally settled	Partially settled	Totally cancelled	Rejected	Revoked	Value of transfers	Value actually transferred
		Immediate	12	0	0	0	0	976,796.36	976,796.36
		Standing	3	0	0	0	0	0.00	220.00
LQTR	LQTR	Immediate	1,616	7	111	0	0	799,652,897.46	448,029,257.06
TCAT	ALOP	Standing	144	0	0	0	0	0.00	11,825.00
Total			1,775	7	111	0	0	800,629,693.82	449,017,898.42

Total

			Volume of liquidity transfer						
Transaction category	Transaction sub-category	Underlying transfer type	Totally settled	Partially settled	Totally cancelled	Rejected	Revoked	Value of transfers	Value actually transferred
		Immediate	34	0	0	0	0	3,001,813.94	3,001,813.94
		Standing	101	0	34	0	0	1,022,233.13	1,260,684.58
LQTR	LQTR	Immediate	4,795	12	122	0	0	3,137,721,405.26	2,785,542,399.86
		Predefined	2	0	0	0	0	32,312.00	32,312.00
		Standing	4,215	7	599	0	0	49,998,661.77	45,112,183.20
	LTAC	Standing	130	0	1,254	0	0	0.00	16,688,886.03
TCAT	ALOP	Standing	144	0	0	0	0	0.00	11,825.00
	CARL	Standing	23	0	0	0	0	0.00	577,055.00
	MPOR	Standing	22	0	0	0	0	0.00	26,640.04
Total			9,466	19	2,009	0	0	3,191,774,446.10	2,852,253,599.65

Figure 417 - INX05 output screen

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Field Description

INX05 – Liquidity transfers – Output Screen	
Inbound liquidity transfers	
Transaction category	Shows the transaction category of the liquidity transfer. Possible values are: - LQTR - TCAT
Transaction sub-category	Shows the transaction sub-category of the liquidity transfer. Possible values are: - EDLT - LQTR - LTAC - ALOP - CARL - MPOR
Underlying transfer type	Shows the underlying transfer type of the liquidity transfer. Possible values are: - Standing - Predefined - Immediate
Totally settled	A count of all finalised inbound LTs which have been totally settled, per transaction category / transaction sub-category / underlying transaction type.
Partially settled	A count of all finalised inbound LTs which have been only partially settled, per transaction category / transaction sub-category / underlying transaction type.
Totally cancelled	A count of all finalised inbound LTs which have been totally cancelled (ie. no settlement at all), per transaction category / transaction sub-category / underlying transaction type.
Value of transfers	Sum of the instructed transfer amounts of all finalised inbound LTs, per transaction category / transaction sub-category / underlying transaction type.

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Value actually transferred	Sum of the actual settled amounts of all finalised outbound LTs, per transaction category / transaction sub-category / underlying transaction type.
	Outbound liquidity transfers
Transaction category	Shows the transaction category of the liquidity transfer. Possible values are: - LQTR - TCAT - STND
Transaction sub-category	Shows the transaction sub-category of the liquidity transfer. Possible values are: - EDLT - LQTR - LTAC - ALOP - CARL - MPOR - STND
Underlying transfer type	Shows the underlying transfer type of the liquidity transfer. Possible values are: - Standing - Predefined - Immediate
Totally settled	A count of all finalised outbound LTs which have been totally settled, per transaction category / transaction sub-category / underlying transaction type.
Partially settled	A count of all finalised outbound LTs which have been only partially settled, per transaction category / transaction sub-category / underlying transaction type.
Totally cancelled	A count of all finalised outbound LTs which have been totally cancelled (ie. no settlement at all), per transaction category / transaction sub-category / underlying transaction type.

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Value of transfers	Sum of the original instructed transfer amounts of all finalised outbound LTs, per transaction category / transaction sub-category / underlying transaction type.
Value actually transferred	Sum of the actual settled amounts of all finalised outbound LTs, per transaction category / transaction sub-category / underlying transaction type.
Internal liquidity transfers	
Transaction category	Shows the transaction category of the liquidity transfer. Possible values are: - LQTR - TCAT
Transaction sub-category	Shows the transaction sub-category of the liquidity transfer. Possible values are: - EDLT - LQTR - LTAC - ALOP - CARL - MPOR
Underlying transfer type	Shows the underlying transfer type of the liquidity transfer. Possible values are: - Standing - Predefined - Immediate
Totally settled	A count of all finalised internal LTs which have been totally settled, per transaction category / transaction sub-category / underlying transaction type.
Partially settled	A count of all finalised internal LTs which have been only partially settled, per transaction category / transaction sub-category / underlying transaction type.
Totally cancelled	A count of all finalised internal LTs which have been totally cancelled (ie. no settlement at all), per transaction category / transaction sub-category / underlying transaction type.

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Value of transfers	Sum of the original instructed transfer amounts of all finalised internal LTs, per transaction category / transaction sub-category / underlying transaction type.
Value actually transferred	Sum of the actual settled amounts of all finalised internal LTs, per transaction category / transaction sub-category / underlying transaction type.
Total	
Transaction category	Shows the transaction category of the liquidity transfer. Possible values are: l LQTR l TCAT l STND
Transaction sub-category	Shows the transaction sub-category of the liquidity transfer. Possible values are: l EDLT l LQTR l LTAC l ALOP l CARL l MPOR l STND
Underlying transfer type	Shows the underlying transfer type of the liquidity transfer. Possible values are: l Standing l Predefined l Immediate
Totally settled	Sum of all totally settled measures across all transfer types, per transaction category / transaction sub-category / underlying transaction type.
Partially settled	Sum of all partially settled measures across all transfer types, per transaction category / transaction sub-category / underlying transaction type.

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Totally cancelled	Sum of all totally cancelled measures across all transfer types, per transaction category / transaction sub-category / underlying transaction type.
Value of transfers	Sum of all value of transfers measures across all transfer types, per transaction category / transaction sub-category / underlying transaction type.
Value actually transferred	Sum of all value actually transferred measures across all transfer types, per transaction category / transaction sub-category / underlying transaction type.

6.3.6 INX06 – Multi-criteria search of a set of business cancellations

Context of Usage

This report shows a list of details for selected business cancellation instructions (CI), which it performs on two levels. In the first level, the report produces a list of CIs corresponding to user-supplied filter criteria. In the second level, the user may select one CI from the list and the detailed report provides a full list of attributes for the selected CI.

The attributes shown in the detailed report output provide business details related to the selected CI.

This report can be used by CB and CSD users.

Report Access

This report can be reached in the following way:

- Content >> Team Content >> T2S >> Predefined Reports >> INX - T2S Instructions >> INX06

Screenshot

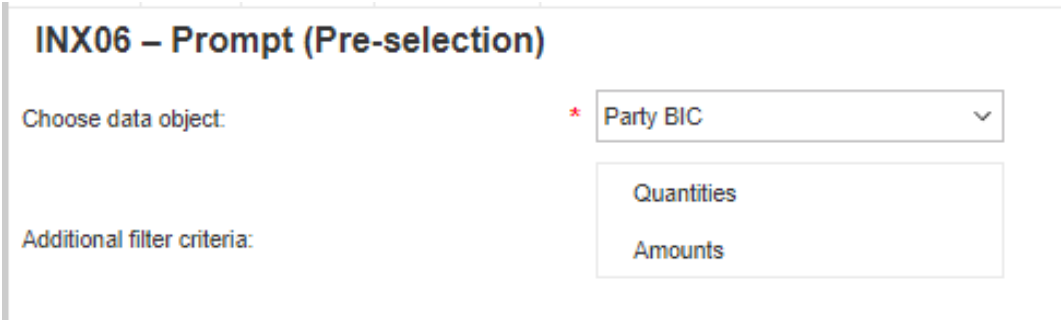

Figure 418 - INX06 pre-selection screen

Field Description

INX06 – Multi-criteria search of a set of business cancellations – Pre-selection screen	
Choose data object (one of both objects has to be chosen)	
Party BIC	Provides fields for searching securities party BICs or cash party BICs in the next screen
Account number	Provides fields for searching for securities account numbers or cash account numbers in the next screen

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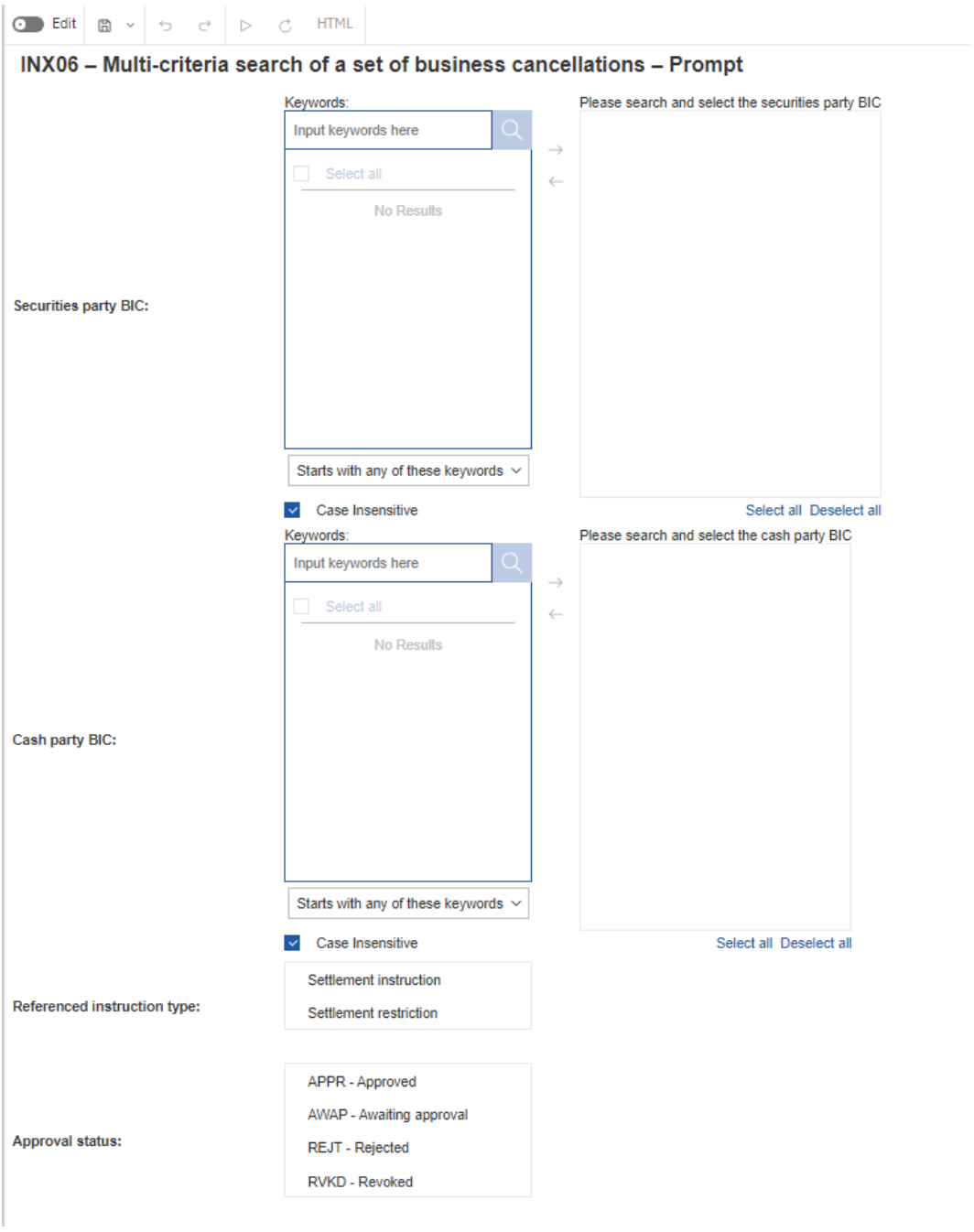
Additional search criteria (both objects are optional)	
Quantity of securities	Provides fields for searching different quantity ranges in the next screen
Amounts	Provides fields for searching different amount ranges in the next screen

Screenshot



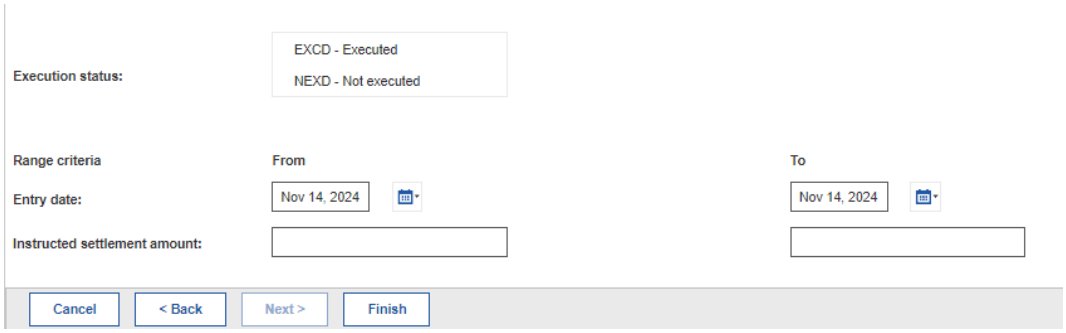


Figure 419 - INX06 prompt screen 2 - Party BIC

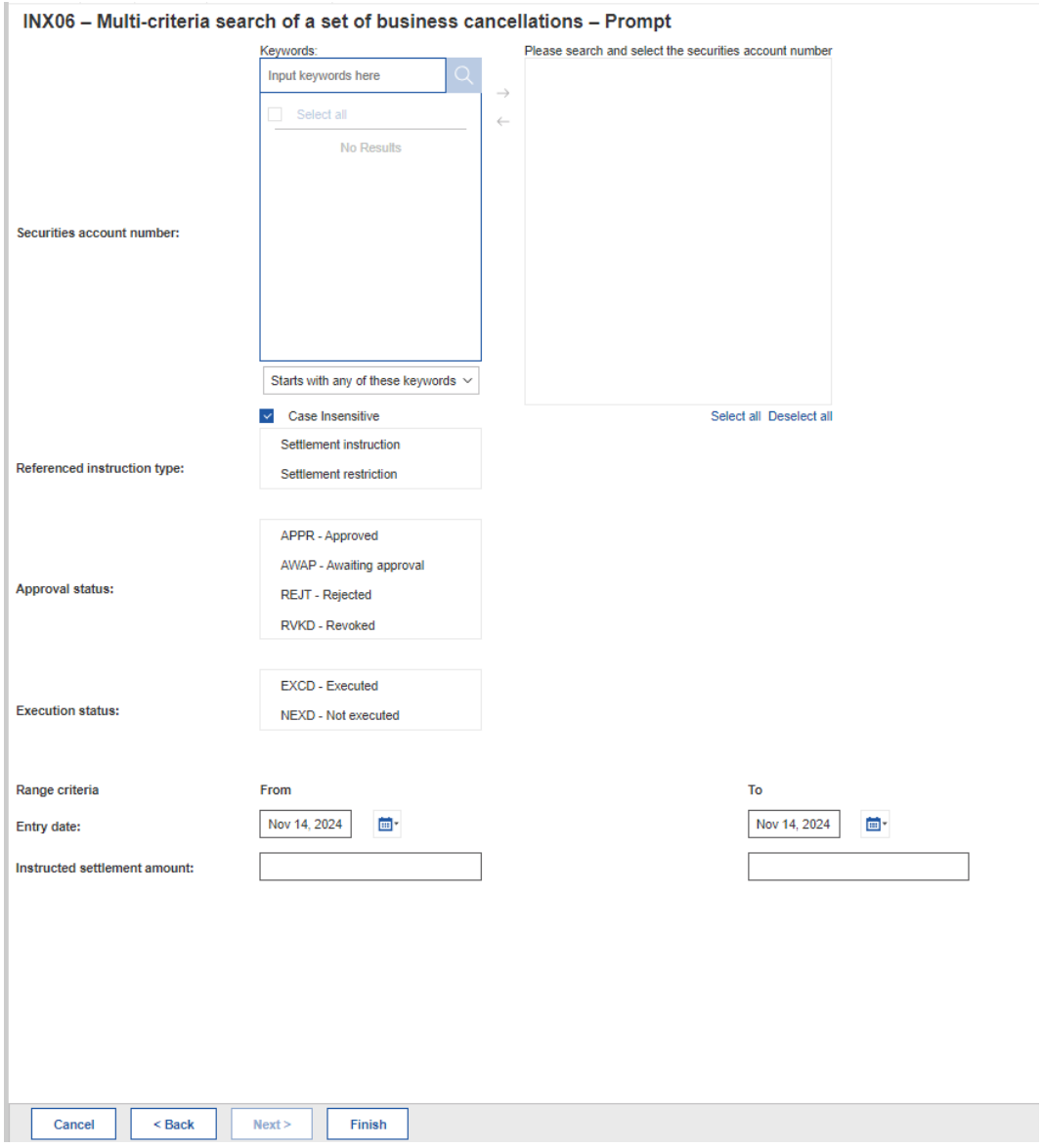


Figure 420 - INX06 prompt screen- 2 (CSD User login) - Account Number

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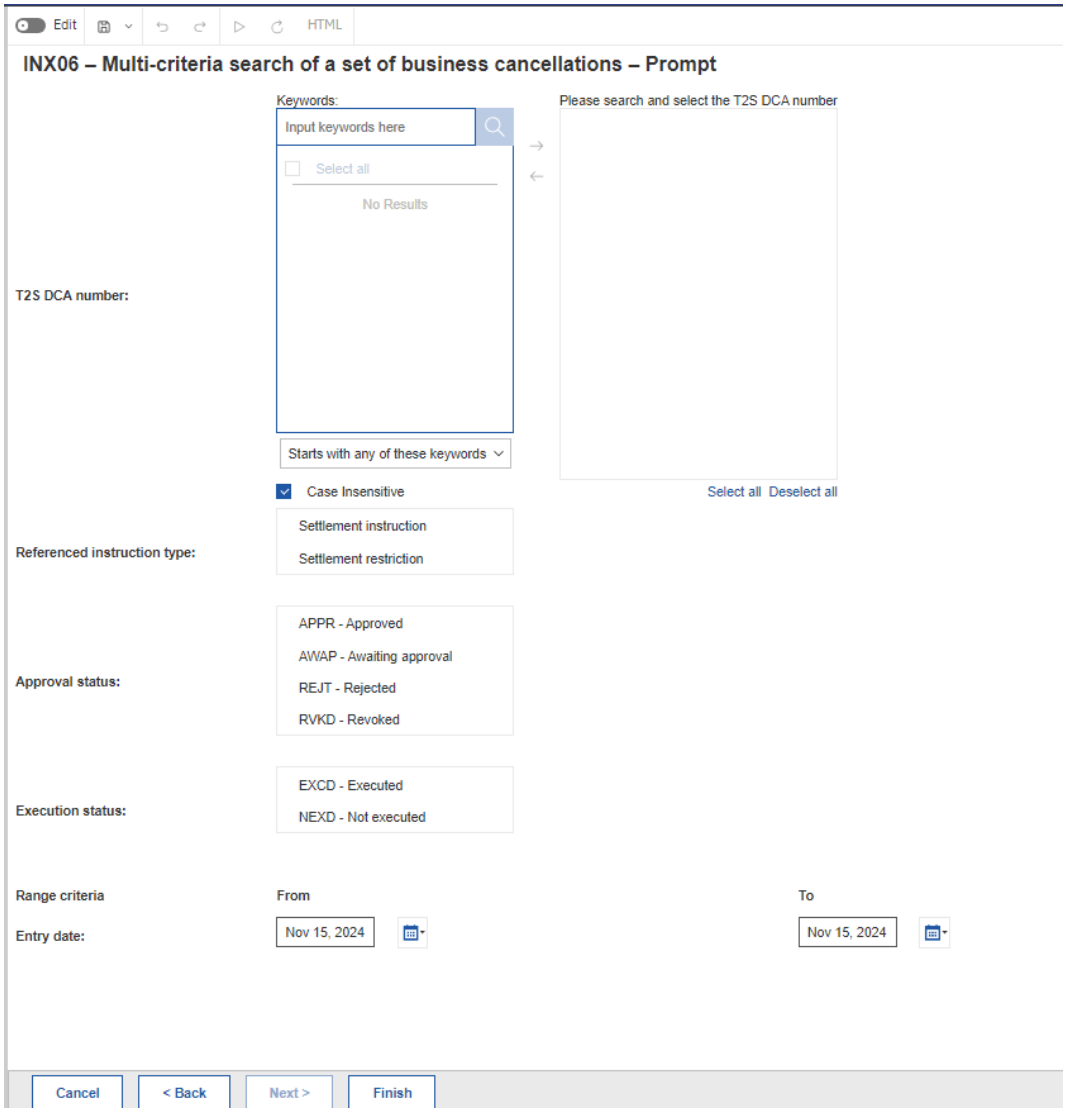

Figure 421 - INX06 prompt screen- 2 (CB User login) - Account Number

Field Description

INX06 – Multi-criteria search of a set of business cancellations – Prompt Screen	
Displayed fields when selecting Party BIC	
Securities party BIC	Filter to select which securities party BIC (CSDs, CSD participants or ECSDs) value/s should be included in the output.
Cash party BIC	Filter to select which cash party BIC (NCB or payment bank) value/s should be included in the output.
Displayed fields when selecting Account Number	
Securities account number	Filter to select which securities account number value/s should be included in the output.

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T2S DCA number	Multiple selection text field to enter T2S DCA number value/s that should be included in the output.
Referenced instruction type	Filter to select which referenced instruction types should be included in the output. Possible values: - STIN (Settlement instruction) - STRN (Settlement restriction)
Approval status	Filter to select which approval status value/s should be included in the output. Possible values: - APPR (Approved) - AWAP (Awaiting approval) - REJT (Rejected) - RVKD (Revoked)
Execution status	Filter to select which execution status value/s should be included in the output. Possible values: - EXCD (Executed) - NEXD (Not executed)
Entry date from	Filter to select the inclusive date from which entry date value/s should be included in the output. Must be used in conjunction with: - entry date to
Entry date to	Filter to select the inclusive date up to which entry date value/s should be included in the output. Must be used in conjunction with: - entry date from
The following criteria are only shown in case that “Quantity of securities” was chosen as additional search criteria	
Instructed settlement quantity from	Filter to select the inclusive quantity from which instructed settlement quantity value/s should be included in the output.

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	Must be used in conjunction with: • instructed settlement quantity to
Instructed settlement quantity to	Filter to select the inclusive quantity up to which instructed settlement quantity value/s should be included in the output. Must be used in conjunction with: • instructed settlement quantity from
The following criteria are only shown in case that “Amounts” was chosen as additional search criteria	
Instructed settlement amount from	Filter to select the inclusive amount from which instructed settlement amount value/s should be included in the output. Must be used in conjunction with: • instructed settlement amount to
Instructed settlement amount to	Filter to select the inclusive amount up to which instructed settlement amount value/s should be included in the output. Must be used in conjunction with: • instructed settlement amount from

Screenshot

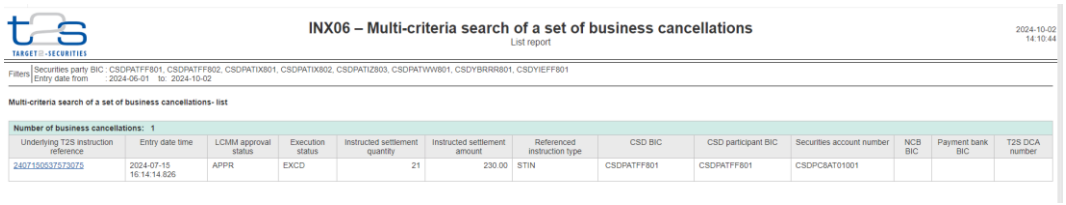

Figure 422 - INX06 list screen

Field Description

INX06 – Multi-criteria search of a set of business cancellations – List Screen	
Number of business cancellation	Shows the number of cancellation instructions found matching the criteria
(For each cancellation matching the selection criteria, one line will be displayed)	

Underlying T2S instruction reference	Shows the T2S reference of the settlement instruction or settlement restriction.
Entry date time	Shows the date and time the cancellation instruction entered T2S. Displayed format is: YYYY-MM-DD hh:mm:ss The value displayed in the report differs from the view in the T2S GUI. This is a technical entry timestamp and it takes place between Entry (according to the GUI) and Execution (according to the GUI).
LCMM approval status	Shows the LCMM approval status. Possible values: - APPR (approved (default value)) - AWAP (awaiting approval) - REJT (rejected) - RVKD (revoked)
Execution status	Shows the execution status of the cancellation instruction. Possible values: - EXCD (executed) - NEXD (not executed)
Instructed settlement quantity	Shows the instructed quantity of the securities of the underlying instruction in units or face amount.
Instructed settlement amount	Shows the instructed amount of the underlying instruction in the instruction’s currency.
Referenced instruction type	Shows the type of the referenced instruction: Possible values: - STIN (settlement instruction) - STRN (settlement restriction)
CSD BIC	Shows the BIC of the CSD
CSD participant BIC	Shows the BIC of the CSD participant
Securities account number	Shows the securities account number of the underlying instruction.
NCB BIC	Shows the parent party BIC of the payment bank (if applicable)
Payment bank BIC	Shows the BIC of the payment bank (if applicable)

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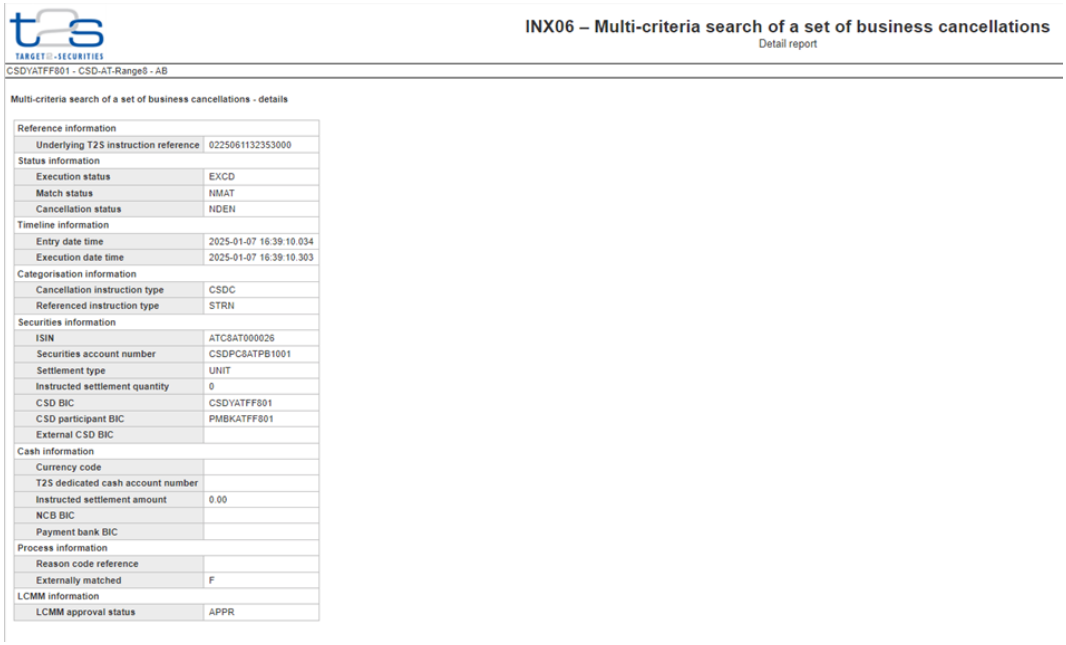
T2S dedicated cash account number	Shows the T2S dedicated cash account number of the underlying instruction.
Securities account number	Shows the impacted securities account number as per the SR.
NCB BIC	Shows the parent party BIC of the payment bank (if applicable)
Payment bank BIC	Shows the BIC of the payment bank (if applicable)

Screenshot


INX06 – Multi-criteria search of a set of business cancellations
Detail report

CSDYATFF801 - CSD-AT-Range8 - AB

Multi-criteria search of a set of business cancellations - details

Reference information	
Underlying T2S instruction reference	0225061132353000
Status information	
Execution status	EXCD
Match status	NMAT
Cancellation status	NDEN
Timeline information	
Entry date time	2025-01-07 16:39:10.034
Execution date time	2025-01-07 16:39:10.303
Categorisation information	
Cancellation instruction type	CSDC
Referenced instruction type	STRN
Securities information	
ISIN	ATC8AT000026
Securities account number	CSDPC8ATPB1001
Settlement type	UNIT
Instructed settlement quantity	0
CSD BIC	CSDYATFF801
CSD participant BIC	PMBKATFF801
External CSD BIC	
Cash information	
Currency code	
T2S dedicated cash account number	
Instructed settlement amount	0.00
NCB BIC	
Payment bank BIC	
Process information	
Reason code reference	
Externally matched	F
LCMM information	
LCMM approval status	APPR

Figure 423 - INX06 details screen

Field Description

INX06 – Multi-criteria search of a set of business cancellations – Details Screen	
Reference information	
Underlying T2S instruction reference	Shows the T2S reference of the settlement instruction or the settlement restriction.
Status information	
Execution status	Shows the execution status of the cancellation instruction. Possible values: - EXCD (executed) - NEXD (not executed)
Match status	Shows the matching status of the cancellation instruction.

	Possible values: - MACH (matched) - NMAT (unmatched)
Cancellation status	Shows the cancellation status of the cancellation instruction. Possible values: - DEND (denied) - NDEN (not denied)
Timeline information	
Entry date time	Shows the date and time the cancellation instruction entered T2S. Displayed format is: YYYY-MM-DD hh:mm:ss The value displayed in the report differs from the view in the T2S GUI. This is a technical entry timestamp and it takes place between Entry (according to the GUI) and Execution (according to the GUI).
Execution date time	Shows the execution date time of the cancellation instruction. Displayed format is: YYYY-MM-DD
Categorisation information	
Cancellation instruction type	Shows the type of cancellation. Possible values: - PTYC (party cancellation) - CSDC (CSD cancellation) - COSD (CoSD cancellation)
Referenced instruction type	Shows the type of the referenced instruction: Possible values: - STIN (settlement instruction) - STRN (settlement restriction)
Securities information (Please note, that this part will not be filled for cancellations for settlement restrictions on cash)	
ISIN	Shows the ISIN.
Securities account number	Shows the securities account number of the underlying instruction.
Settlement type	Shows the settlement type. Possible values: - FAMT (nominal)

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	l UNIT (units)
Instructed settlement quantity	Shows the instructed quantity of the securities of the underlying instruction in units or face amount.
CSD BIC	Shows the BIC of the CSD
CSD participant BIC	Shows the BIC of the CSD participant
External CSD BIC	Shows the BIC of the external CSD
Cash information (Please note, that this part will not be filled for cancellations for restrictions on securities or for cancellations for settlement instructions “FOP”)	
Currency code	Shows the currency code.
T2S dedicated cash account number	Shows the T2S dedicated cash account number of the underlying instruction.
Instructed settlement amount	Shows the instructed amount of the underlying instruction in the instruction’s currency.
NCB BIC	Shows the BIC of the NCB
Payment bank BIC	Shows the BIC of the payment bank
Process information	
Reason code reference	Shows the reason code reference of the cancellation instruction.

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Externally matched	Shows if the instruction is already matched or not when it enters T2S. Possible values: - True (already matched outside T2S) - False (unmatched)
LCMM information	
LCMM approval status	Shows the LCMM approval status. Possible values: - APPR (approved (default value)) - AWAP (awaiting approval) - REJT (rejected) - RVKD (revoked)

6.3.7 INX07 – Multi-criteria search of a set of amendment instructions

Context of Usage

This report shows a list of details for selected amendment instructions (AI), which it performs on two levels. In the first level, the report produces a list of AIs corresponding to user-supplied filter criteria. In the second level, the user may select one AI from the list and the detailed report provides a full list of attributes for the selected AI

The attributes shown in the detailed report output provide business details related to the selected AI.

This report can be used by CB and CSD users.

Report Access

This report can be reached in the following way:

- Content >> Team Content >> T2S >> Predefined Reports >> INX - T2S Instructions >> INX07

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Screenshot

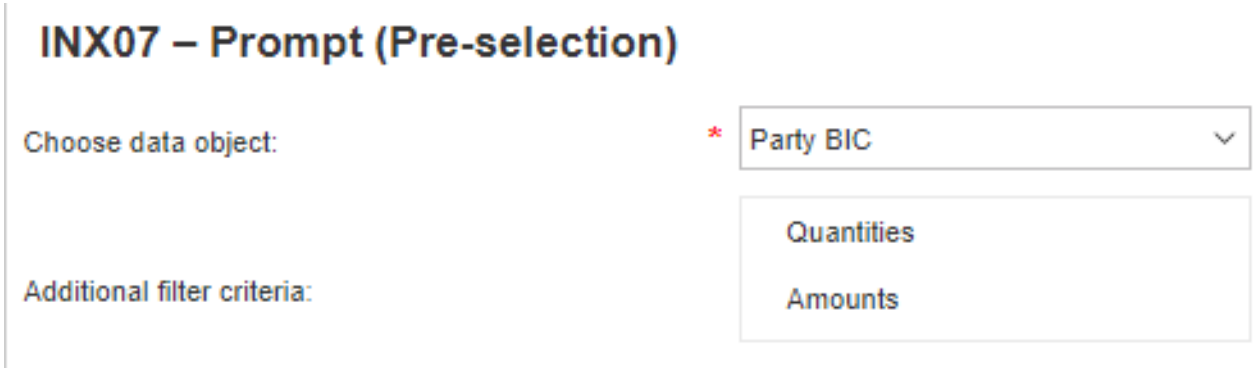

Figure 424 - INX07 pre-selection screen

Field Description

INX07 – Multi-criteria search of a set of amendment instructions – Pre-selection screen	
Choose data object (one of both objects has to be chosen)	
Party BIC	Provides fields for searching securities party BICs or cash party BICs in the next screen
Account number	Provides fields for searching for securities account numbers or cash account numbers in the next screen

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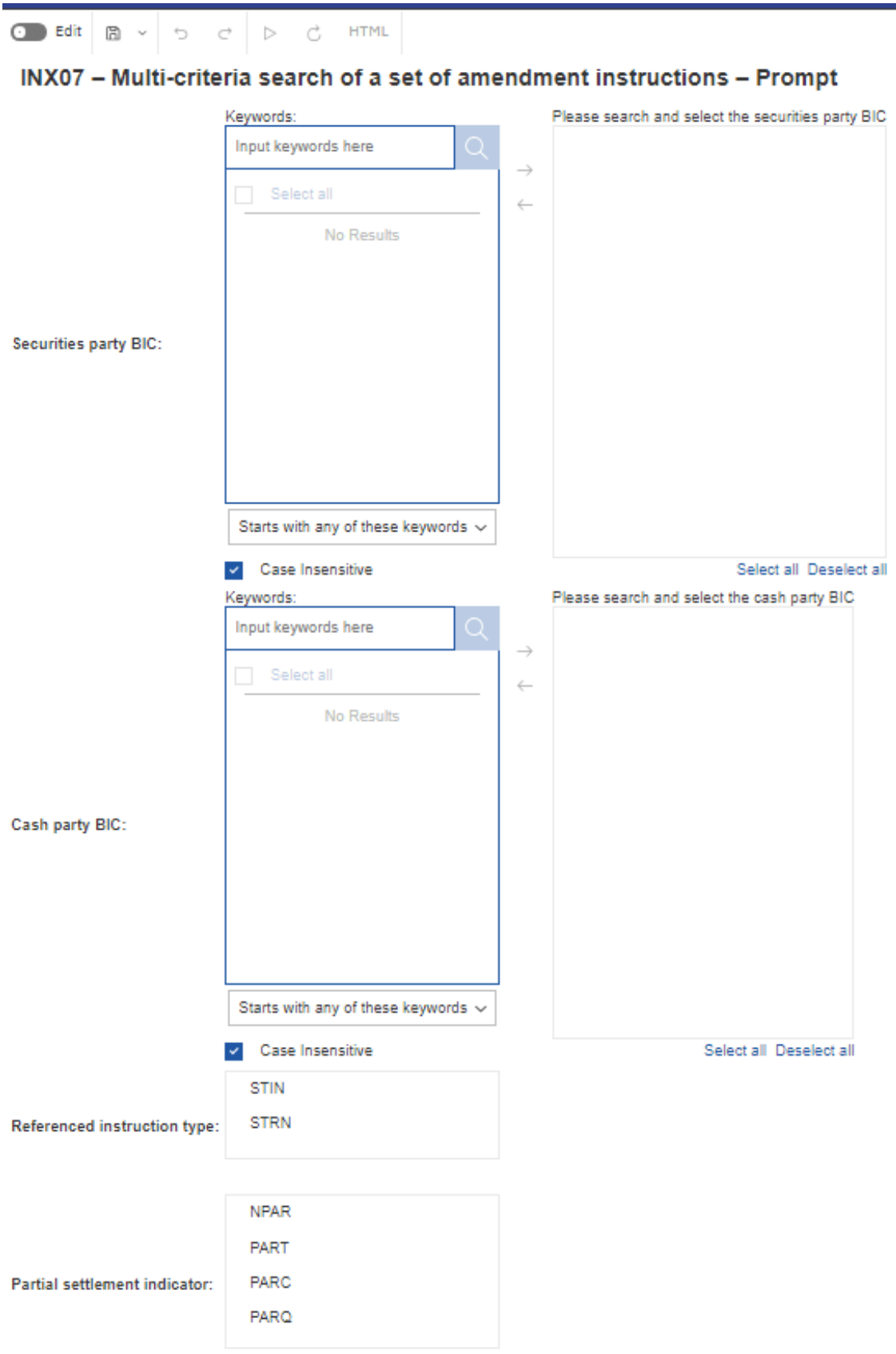
Additional search criteria (both objects are optional)	
Quantites	Provides fields for searching different quantity ranges in the next screen
Amounts	Provides fields for searching different amount ranges in the next screen

Screenshot

All rights reserved.


Edit
HTML
INX07 – Multi-criteria search of a set of amendment instructions – Prompt
Keywords:
Input keywords here
Select all
No Results
Please search and select the securities party BIC
Securities party BIC:
Starts with any of these keywords
Case Insensitive
Select all Deselect all
Keywords:
Input keywords here
Select all
No Results
Please search and select the cash party BIC
Cash party BIC:
Starts with any of these keywords
Case Insensitive
Select all Deselect all
Referenced instruction type:
STIN
STRN
Partial settlement indicator:
NPAR
PART
PARC
PARQ

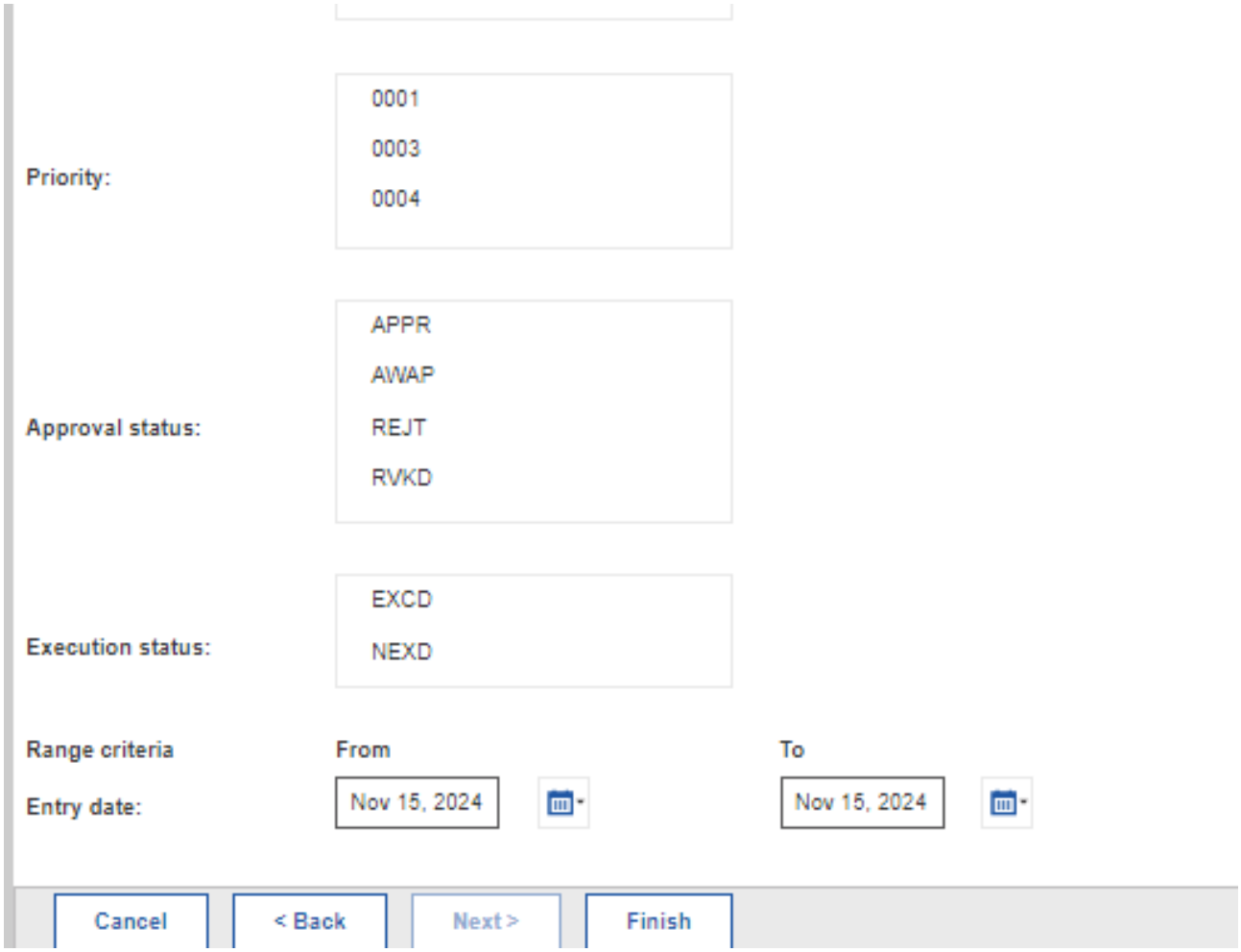


Figure 425 - INX07 prompt screen 2 - Party BIC

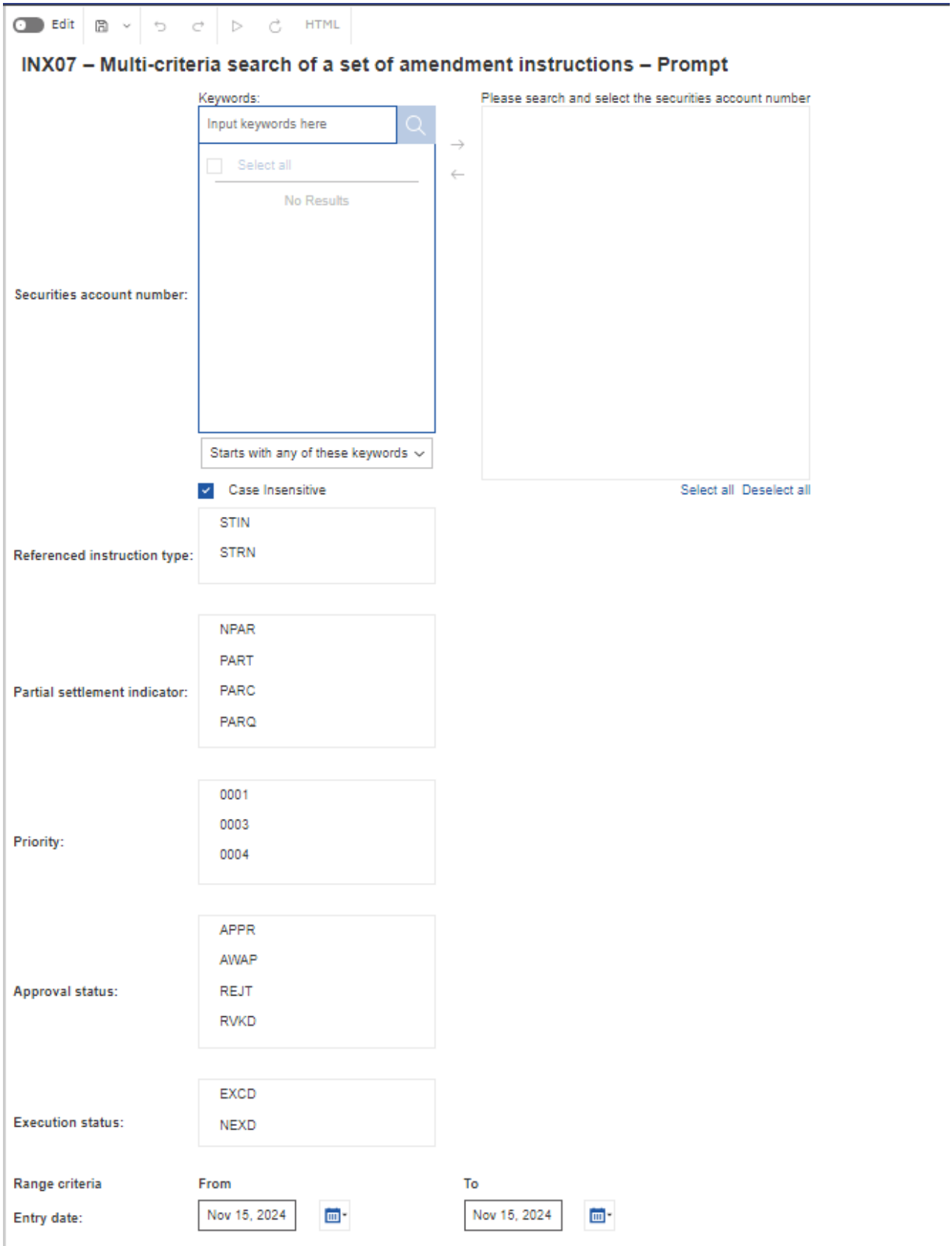


Figure 426 - INX07 prompt screen 2- (CSD User login)- Account number

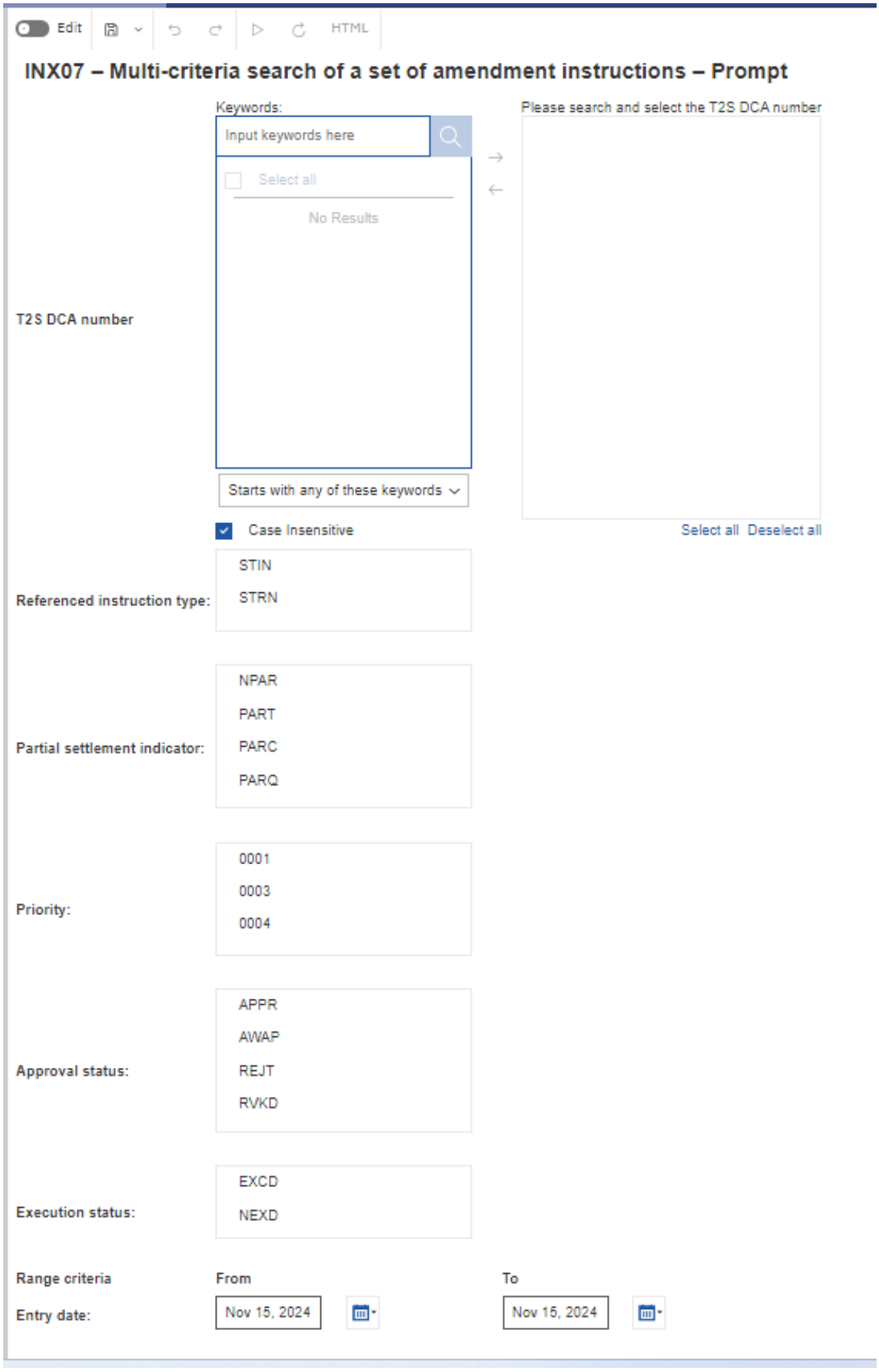


Figure 427 - INX07 prompt screen 2- (CB User login)- Account number

Field Description

INX07 – Multi-criteria search of a set of amendment instructions – Prompt Screen	
Displayed fields when selecting Party BIC	
Securities party BIC	Filter to select which securities party BIC (CSDs, CSD participants or ECSDs) value/s should be included in the output.
Cash party BIC	Filter to select which cash party BIC (NCB or payment bank) value/s should be included in the output.
Displayed fields when selecting Account number	
Securities account number	Filter to select which securities account number value/s should be included in the output.
T2S DCA number	Multiple selection text field to enter T2S DCA number value/s that should be included in the output.
Referenced instruction type	Filter to select which referenced instruction types should be included in the output. Possible values: - STIN (Settlement instruction) - STRN (Settlement restriction)
Partial settlement indicator	Filter to select which partial settlement indicator value/s should be included in the output. Possible values: - NPAR - PART - PARC - PARQ
Priority	Filter to select which priority value/s should be included in the output. Possible values: - 0001 - 0003 - 0004
Approval status	Filter to select which approval status value/s should be included in the output. Possible values: - APPR - AWAP

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	▪ REJT ▪ RVKD
Execution status	Filter to select which execution status value/s should be included in the output. Possible values: ▪ EXCD ▪ NEXD
Entry date time from	Filter to select the inclusive date from which entry date value/s should be included in the output. Must be used in conjunction with: ▪ entry date time to
Entry date time to	Filter to select the inclusive date up to which entry date value/s should be included in the output. Must be used in conjunction with: ▪ entry date time from
The following criteria are only shown in case that “Quantity of securities” was chosen as additional search criteria	
Instructed settlement quantity from	Filter to select the inclusive quantity from which instructed settlement quantity value/s should be included in the output. Must be used in conjunction with: ▪ instructed settlement quantity to
Instructed settlement quantity to	Filter to select the inclusive quantity up to which instructed settlement quantity value/s should be included in the output. Must be used in conjunction with: ▪ instructed settlement quantity from

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The following criteria are only shown in case that “Amounts” was chosen as additional search criteria	
Instructed settlement amount from	Filter to select the inclusive amount from which instructed settlement amount value/s should be included in the output. Must be used in conjunction with: • instructed settlement amount to
Instructed settlement amount to	Filter to select the inclusive amount up to which instructed settlement amount value/s should be included in the output. Must be used in conjunction with: • instructed settlement amount from

Screenshot

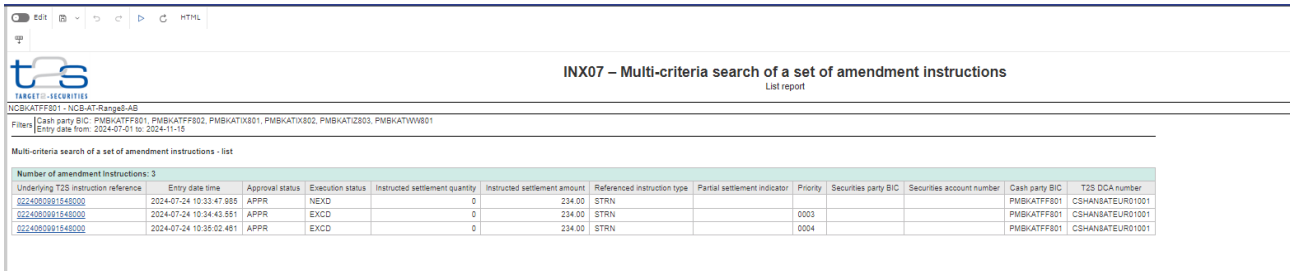

Figure 428 - INX07 list screen

Field Description

INX07 – Multi-criteria search of a set of amendment instructions – List Screen	
Number of amendment instructions	Shows the number of amendment instructions found matching the criteria
(For each amendment instruction matching the selection criteria, one line will be displayed)	
Underlying T2S instruction reference	Shows the underlying T2S reference of the settlement instruction or settlement restriction.
Entry date time	Shows the date and time the amendment instruction entered T2S. Displayed format is: YYYY-MM-DD hh:mm:ss:µsµsµsµsµs
Approval status	Shows the matching status of the amendment instruction. Possible values: • APPR (Approved) • AWAP (Awaiting approval)

	• REJT (Rejected) • RVKD (Revoked)
Execution status	Shows the execution status of the amendment instruction. Possible values: • EXCD (executed) • NEXD (not executed)
Instructed settlement quantity	Shows the instructed quantity of securities of the underlying instruction in units or face amount.
Instructed settlement amount	Shows the instructed amount of the underlying instruction in the instruction's currency.
Referenced instruction type	Shows the type of instruction of the referenced instruction: Possible values: • STIN (settlement instruction) • STRN (settlement restriction)
Partial settlement indicator	Shows if the amendment instruction allows partial settlement and indicates the threshold type. Possible values: • NPAR (partial not allowed • PART (partial allowed • PARC (partial settlement cash threshold allowed) • PARQ (partial settlement quantity threshold allowed)
Priority	Shows the priority of the amendment instruction from the possible values: • 0001 (Reserved) • 0002 (Top) • 0003 (High) • 0004 (Normal)
Securities party BIC	Shows the BIC of the securities account owner.

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Securities account number	Shows the securities account number of the underlying instruction.
Cash party BIC	Shows the BIC of the cash account owner.
T2S dedicated cash account number	Shows the T2S dedicated cash account number of the underlying instruction.

Screenshot

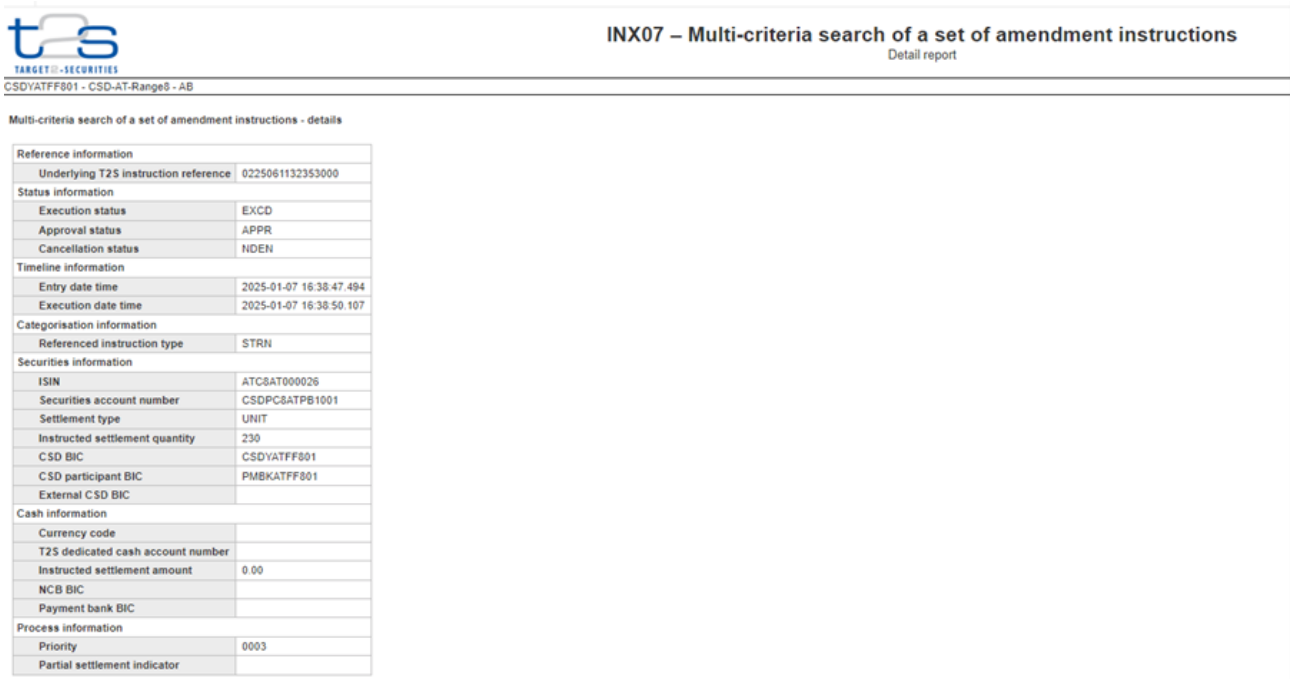

Figure 429 - INX07 details screen

Field Description

INX07 – Multi-criteria search of a set of amendment instructions – Details Screen	
Reference information	
Underlying T2S instruction reference	Shows the T2S reference of the settlement instruction or the settlement restriction.
Status information	
Execution status	Shows the execution status of the amendment instruction. Possible values: - EXCD (executed) - NEXD (not executed)
Approval status	Shows the matching status of the amendment instruction. Possible values:

	l APPR (Approved) l AWAP (Awaiting approval) l REJT (Rejected) l RVKD (Revoked)
Cancellation status	Shows the cancellation status of the amendment instruction. Possible values: l DEND (denied) l NDEN (not denied)
Timeline information	
Entry date time	Shows the date and time the amendment instruction entered T2S. Displayed format is: YYYY-MM-DD hh:mm:ss,ssss
Execution date time	Shows the execution date time of the amendment instruction. Displayed format is: YYYY-MM-DD
Categorisation information	
Referenced instruction type	Shows the type of the referenced instruction: Possible values: l STIN (settlement instruction) l STRN (settlement restriction)
Securities information (Please note, that this part will not be filled for cancellations for settlement restrictions on cash)	
ISIN	Shows the ISIN.
Securities account number	Shows the securities account number of the underlying instruction.
Settlement type	Shows the settlement type. Possible values: l FAMT (nominal) l UNIT (units)
Instructed settlement quantity	Shows the instructed quantity of the securities of the underlying instruction in units or face amount.
CSD BIC	Shows the BIC of the CSD
CSD participant BIC	Shows the BIC of the CSD participant
External CSD BIC	Shows the BIC of the external CSD

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Cash information (Please note, that this part will not be filled for cancellations for restrictions on securities or for cancellations for settlement instructions “FOP”)	
Currency code	Shows the currency code.
T2S dedicated cash account number	Shows the T2S dedicated cash account number of the underlying instruction.
Instructed settlement amount	Shows the instructed amount of the underlying instruction in the instruction’s currency.
NCB BIC	Shows the BIC of the NCB
Payment bank BIC	Shows the BIC of the payment bank
Process information	
Priority	Shows the priority of the amendment instruction from the possible values: - 0001 (Reserved) - 0002 (Top) - 0003 (High) - 0004 (Normal)
Partial settlement indicator	Shows if the amendment instruction allows partial settlement and indicates the threshold type. Possible values: - NPAR (partial not allowed - PART (partial allowed - PARC (partial settlement cash threshold allowed) - PARQ (partial settlement quantity threshold allowed)

6.3.8 INX08 – Multi-criteria search of a set of hold and release instructions

Context of Usage

This report shows a list of details for selected hold and release instructions (HR), which it performs on two levels. In the first level, the report produces a list of HRIs corresponding to user-supplied filter criteria. In the second level, the user may select one HR from the list and the detailed report provides a full list of attributes for the selected HR.

The attributes shown in the detailed report output provide business details related to the selected HR.

This report can be used by CSD users.

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Report Access

This report can be reached in the following way:

- Content >> Team Content >> T2S >> Predefined Reports >> INX - T2S Instructions >> INX08

Screenshot

Figure 430 - INX08 prompt screen

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Field Description

INX08 – Multi-criteria search of a set of hold and release instructions – Prompt Screen	
Securities party BIC	Filter to select which securities party BIC (CSDs, CSD participants or ECSDs) value/s should be included in the output. This field is mandatory.
Approval status	Filter to select which approval status value/s should be included in the output. - APPR - AWAP - REJT - RVKD
Hold status type	Filter to select which hold status type value/s should be included in the output. Possible values - PTYH - Party hold - CSDH – CSD hold - CVAL CSD validation hold - CDEL – CoSD hold

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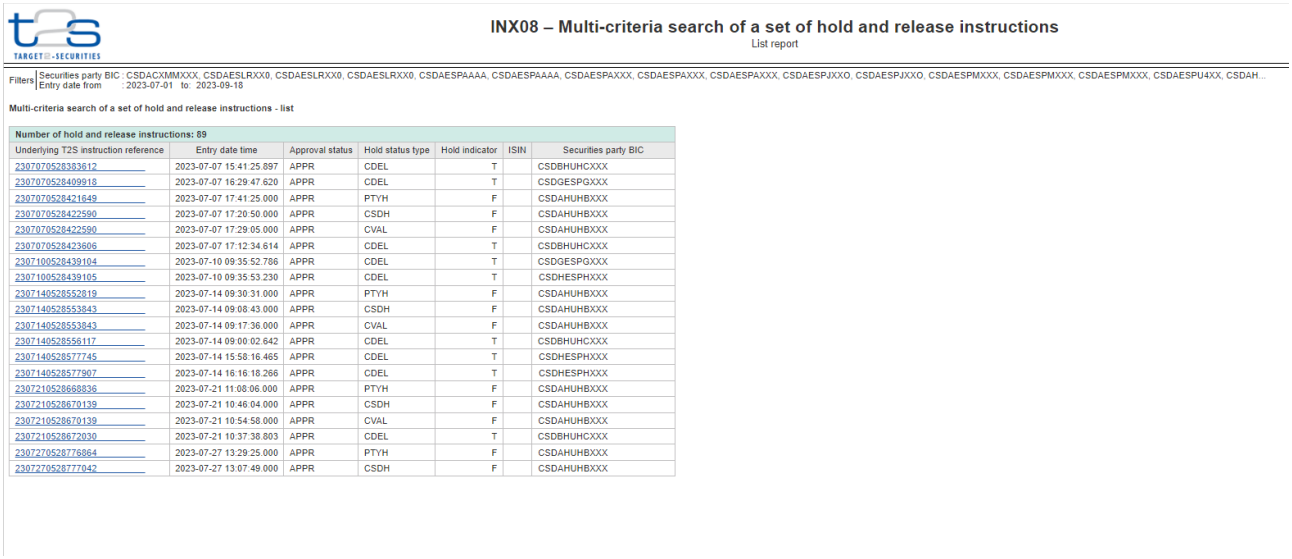
Hold indicator	Filter to select which hold status type value/s should be included in the output. Possible values - T – On hold - F - Released
Entry date time from	Filter to select the inclusive date from which entry date value/s should be included in the output. Must be used in conjunction with: - Entry date time to
Entry date time to	Filter to select the inclusive date up to which entry date value/s should be included in the output. Must be used in conjunction with: - Entry date time from

Screenshot



INX08 – Multi-criteria search of a set of hold and release instructions

List report

Filters | Securities party BIC : CSDACXMMXXX, CSDAESLRXX0, CSDAESLRXX0, CSDAESLRXX0, CSDAESPAAAA, CSDAESPAAAA, CSDAESPAXXX, CSDAESPAXXX, CSDAESPAXXX, CSDAESPJXXO, CSDAESPJXXO, CSDAESPMXXX, CSDAESPMXXX, CSDAESPMXXX, CSDAESPU4XX, CSDAH...
Entry date from : 2023-07-01 to: 2023-09-18

Multi-criteria search of a set of hold and release instructions - list

Number of hold and release instructions: 89

Underlying T2S instruction reference	Entry date time	Approval status	Hold status type	Hold indicator	ISIN	Securities party BIC
2307070528383612	2023-07-07 15:41:25.897	APPR	CDEL	T		CSDBHUHCXXX
2307070528409918	2023-07-07 16:29:47.620	APPR	CDEL	T		CSDGESPGXXX
2307070528421649	2023-07-07 17:41:25.000	APPR	PTYH	F		CSDAHUHBXXX
2307070528422590	2023-07-07 17:20:50.000	APPR	CSDH	F		CSDAHUHBXXX
2307070528422590	2023-07-07 17:29:05.000	APPR	CVAL	F		CSDAHUHBXXX
2307070528423606	2023-07-07 17:12:34.614	APPR	CDEL	T		CSDBHUHCXXX
2307100528439104	2023-07-10 09:35:52.786	APPR	CDEL	T		CSDGESPGXXX
2307100528439105	2023-07-10 09:35:53.230	APPR	CDEL	T		CSDHESPHXXX
2307140528552819	2023-07-14 09:30:31.000	APPR	PTYH	F		CSDAHUHBXXX
2307140528553843	2023-07-14 09:08:43.000	APPR	CSDH	F		CSDAHUHBXXX
2307140528553843	2023-07-14 09:17:36.000	APPR	CVAL	F		CSDAHUHBXXX
2307140528556117	2023-07-14 09:00:02.642	APPR	CDEL	T		CSDBHUHCXXX
2307140528577745	2023-07-14 15:58:16.465	APPR	CDEL	T		CSDHESPHXXX
2307140528577907	2023-07-14 16:16:18.266	APPR	CDEL	T		CSDHESPHXXX
2307210528668836	2023-07-21 11:08:06.000	APPR	PTYH	F		CSDAHUHBXXX
2307210528670139	2023-07-21 10:46:04.000	APPR	CSDH	F		CSDAHUHBXXX
2307210528670139	2023-07-21 10:54:58.000	APPR	CVAL	F		CSDAHUHBXXX
2307210528672030	2023-07-21 10:37:38.803	APPR	CDEL	T		CSDBHUHCXXX
2307270528776864	2023-07-27 13:29:25.000	APPR	PTYH	F		CSDAHUHBXXX
2307270528777042	2023-07-27 13:07:49.000	APPR	CSDH	F		CSDAHUHBXXX

Figure 431 - INX08 list screen

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Field Description

INX08 – Multi-criteria search of a set of hold and release instructions – List Screen	
Number of hold and release instructions	Count of the number of hold and release instructions resulting from the filter screen.
(For each hold/release instruction matching the selection criteria, one line will be displayed)	
Underlying T2S instruction reference	Shows the reference of the underlying T2S instruction (settlement instruction or settlement restriction)
Entry date time	Shows the date and time the hold or release instruction entered T2S. Displayed format is: YYYY-MM-DD hh:mm:ss
Approval status	Shows the matching status of the hold or release instruction. Possible values: - APPR (Approved) - AWAP (Awaiting approval) - REJT (Rejected) - RVKD (Revoked)
Hold status type	Shows the hold status for the instructions. Possible values: - CoSD hold - Party hold - CSD hold - CSD validation hold

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Hold indicator	Shows the CSD hold status. Possible values: - Yes (when the instruction intends to hold an instruction) - No (when the instruction intends to release an instruction)
ISIN	Shows the unique identification of the securities from a business point of view.
Securities party BIC	Shows the BIC of the owner of the securities account.

Screenshot

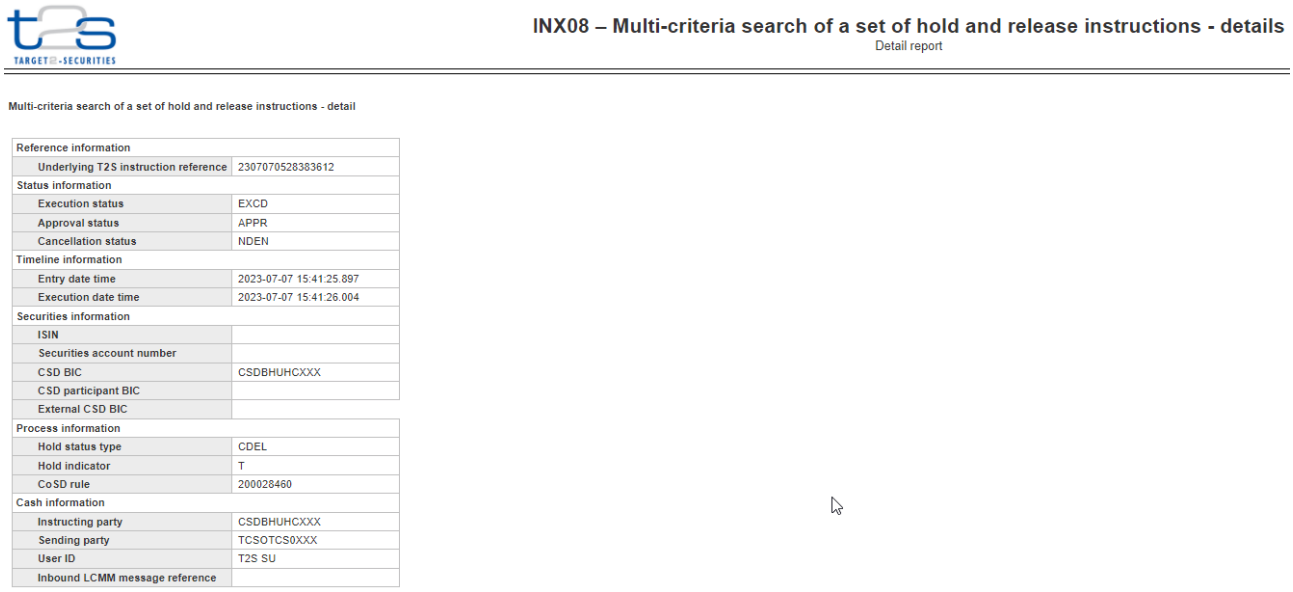

Figure 432 - INX08 details screen

Field Description

INX08 – Multi-criteria search of a set of hold and release instructions – Details Screen	
Reference information	
Underlying T2S instruction reference	Shows the T2S reference of the settlement instruction or the settlement restriction.
Status information	
Execution status	Shows the execution status of the hold or release instruction. Possible values: - EXCD (executed) - NEXD (not executed)
Approval status	Shows the matching status of the hold or release instruction.

	Possible values: - APPR (Approved) - AWAP (Awaiting approval) - REJT (Rejected) - RVKD (Revoked)
Cancellation status	Shows the cancellation status of the hold or release instruction. Possible values: - DEND (denied) - NDEN (not denied)
Timeline information	
Entry date time	Shows the date and time the hold or release instruction entered T2S. Displayed format is: YYYY-MM-DD hh:mm:ss
Execution date time	Shows the date and time of the execution of the hold/release instruction. Displayed format is : YYYY-MM-DD and hh:mm:ss.
Securities information	
ISIN	Shows the ISIN.
Securities account number	Shows the securities account number of the underlying instruction.
CSD BIC	Shows the BIC of the CSD
CSD participant BIC	Shows the BIC of the CSD participant
External CSD BIC	Shows the BIC of the external CSD
Process Information	
Hold status type	Shows the hold status for the instructions. Possible values: - CoSD hold - Party hold - CSD hold - CSD validation hold
Hold indicator	Shows the CSD hold status. Possible values: - On hold (when the instruction intends to hold an instruction) - Released (when the instruction intends to release an instruction)

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CoSD rule	Shows the T2S reference for the CoSD rule.
Communication information	
Instructing party	Shows the T2S reference of the party that instructs the LCMM instruction.
Sending party	Shows the T2S reference of the party that sent the LCMM instruction.
User Id	Shows the T2S reference of the user.
Inbound LCMM message reference	Shows the incoming message reference assigned by the T2S actor.

6.3.9 INX09 – Multi-criteria search of a set of liquidity transfers

Context of Usage

This report shows a list of details for selected finalised liquidity transfers (LT), which it performs on two levels. In the first level, the report produces a list of LTs corresponding to user-supplied filter criteria. In the second level, the user may select one LT from the list and the detailed report provides a full list of attributes for selected LT.

The attributes shown in the detailed report output provide business details related to the selected LT.

This report can be used by CB users.

Report Access

This report can be reached in the following way:

- Content >> Team Content >> T2S >> Predefined Reports >> INX - T2S Instructions >> INX09

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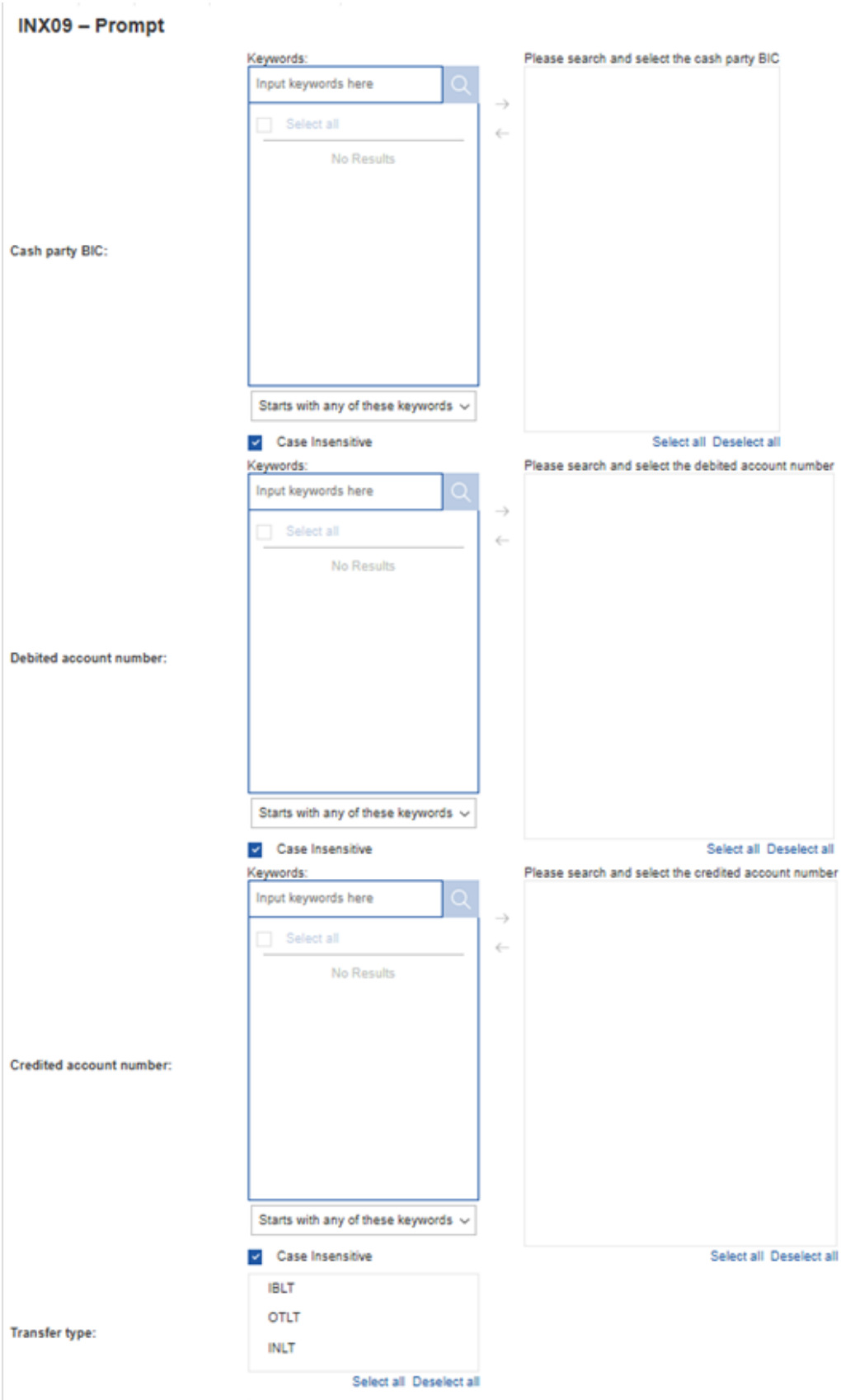
Screenshot



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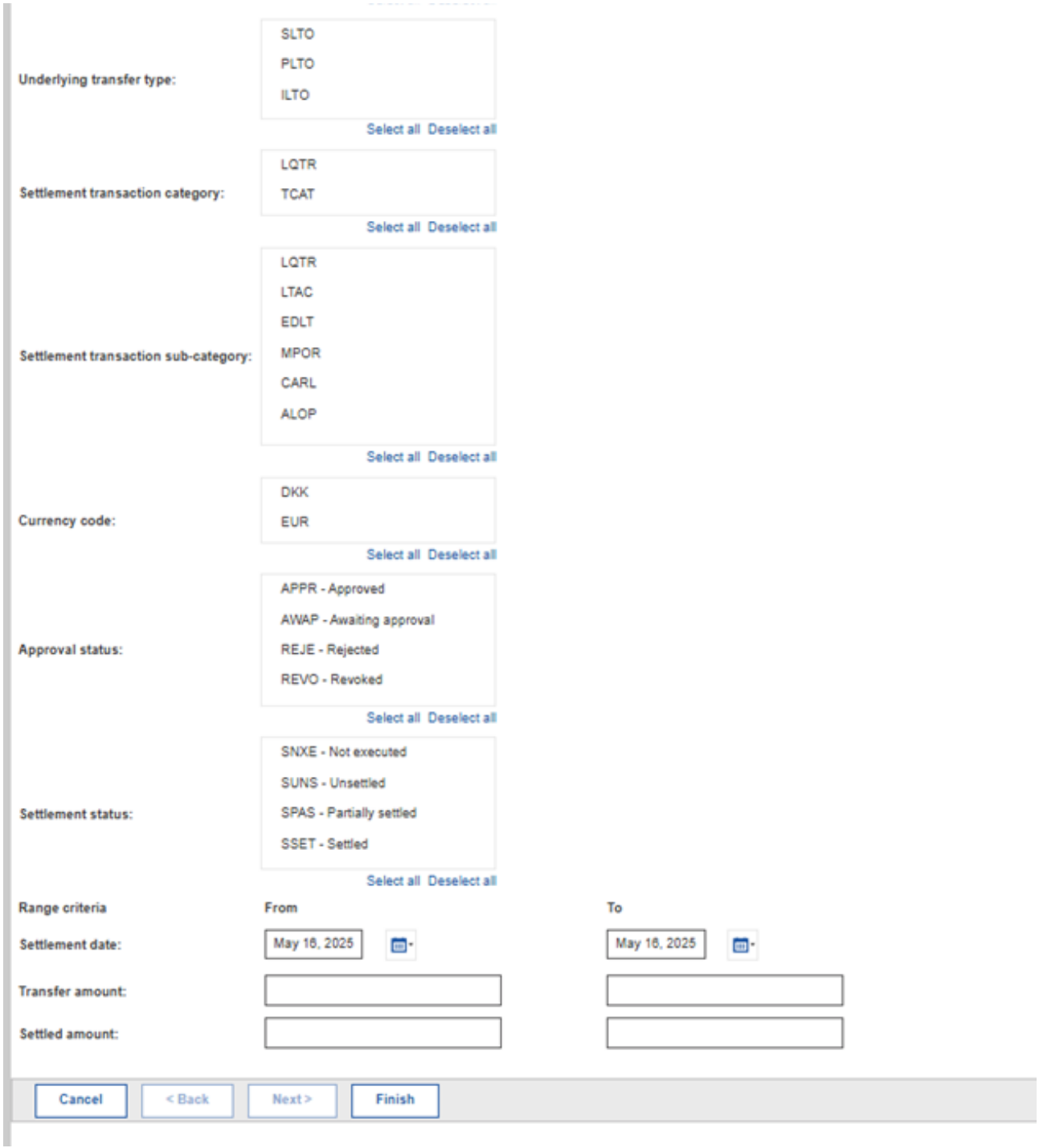

Figure 433 - INX09 prompt screen

Field Description

INX09 – Multi-criteria search of a set of liquidity transfers – Prompt Screen	
Cash party BIC	Filter to select which cash party BIC value/s should be included in the output.
Debited account number	Filter to select which T2S DCA number value/s should be included in the output.

Credited account number	Filter to select which T2S DCA number value/s should be included in the output.
Transfer type	Filter to select which transfer types should be included in the output. Possible values: - IBLT - OTLT - INLT
Underlying transfer type	Filter to select which underlying transfer types should be included in the output. Possible values: - SLTO - PLTO - ILTO
Settlement transaction category	Filter to select which settlement transaction categories should be included in the output. Possible values: - LQTR - TCAT
Settlement transaction sub-category	Filter to select which settlement transaction sub-categories should be included in the output. Possible values: - LQTR - LTAC - EDLT - MPOR - CARL - ALOP
Currency code	The report output contains only settlement instructions with the selected settlement currency codes.
Approval status	Filter to select which approval status value/s should be included in the output. Possible values: - APPR (Approved) - AWAP (Awaiting approval) - REJE (Rejected) - REVO (Revoked)

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Settlement status	Filter to select which settlement status value/s should be included in the output. Possible values: - SNXE - SUNS - SPAS - SSET
Settlement date from	Filter to select the inclusive date from which settlement date value/s should be included in the output. Must be used in conjunction with: - settlement date to
Settlement date to	Filter to select the inclusive date up to which settlement date value/s should be included in the output. Must be used in conjunction with: - settlement date from
Transfer amount from	Filter to select the inclusive amount from which transfer amount value/s should be included in the output. Must be used in conjunction with: - Transfer amount to - Currency code

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Transfer amount to	Filter to select the inclusive amount up to which transfer amount value/s should be included in the output. Must be used in conjunction with: - Transfer amount from - Currency code
Settled amount from	Filter to select the inclusive amount from which actual amount value/s should be included in the output. Must be used in conjunction with: - Settled amount to - Currency code
Settled amount to	Filter to select the inclusive amount up to which actual amount value/s should be included in the output. Must be used in conjunction with: - Settled amount from - Currency code

Screenshot

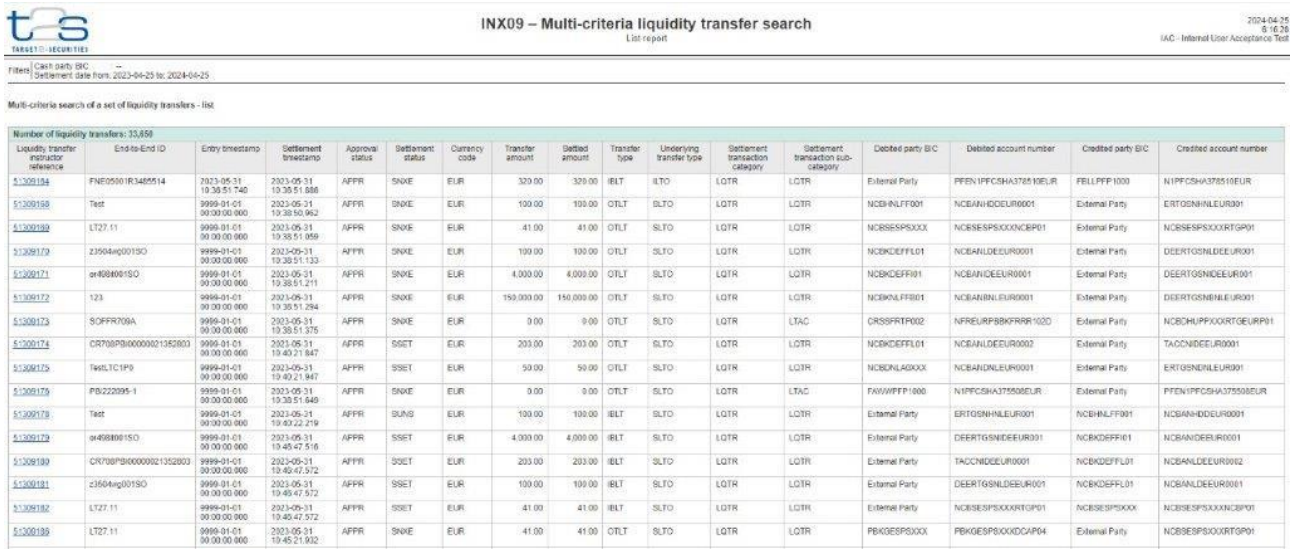

Figure 434 - INX09 list screen

Field Description

INX09 – Multi-criteria search of a set of liquidity transfers – List Screen	
Number of liquidity transfers	Count of the number of settlement instructions resulting from the filter screen.
(For each liquidity transfer matching the selection criteria, one line will be displayed)	
Liquidity transfer instructor reference	Shows the instructor reference of the liquidity transfer.
End-to-End ID	Shows the End-to-End ID provided by the originator of the liquidity transfer order.
Entry timestamp	Shows the date and the time the liquidity transfer entered or was generated in T2S. Displayed format: YYYY-MM-DD hh:mm:ss,sssss
Settlement timestamp	Shows the date and the time of the attempted settlement in T2S. Displayed format: YYYY-MM-DD hh:mm:ss,sssss
Approval status	Shows approval status of the liquidity transfer. Possible values: - APPR (Approved) - AWAP (Awaiting approval) - REJE (Rejected) - REVO (Revoked)
Settlement status	Shows the settlement status of the liquidity transfer. Possible values: - SNXE (Not executed) - SUNS (=Unsettled) - SPAS (=Partially settled) - SSET (=Settled)
Currency code	Shows the settlement currency of the liquidity transfer.
Transfer amount	Shows the amount to be credited or debited by the liquidity transfer.
Settled amount	Shows the amount actually settled by the liquidity transfer.
Transfer type	Shows the direction of the transferred liquidity. Possible values: - IBLT (inbound liquidity transfer) - OTLT (outbound liquidity transfer) - INLT (internal liquidity transfer order)

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Underlying transfer type	Shows the type of the transferred liquidity. Possible values: - SLTO (standing liquidity transfer order) - PLTO (predefined liquidity transfer order) - ILTO (immediate liquidity transfer order)
Settlement transaction category	Shows the settlement transaction category of the liquidity transfer. Possible values: - LQTR (liquidity transfer) - TCAT (technical cash transfer)
Settlement transaction sub-category	Shows the settlement transaction sub-category of the liquidity transfer. Possible values: - LQTR (liquidity transfer) - LTAC (Liquidity transfer all cash) - EDLT (EoD liquidity transfer) - MPOR (monetary policy operation cash rebalancing) - CARL (corporate action cash rebalancing) - ALOP (auto-collateralisation liquidity optimization)
Debited party BIC	Shows the BIC of the payment bank which owns the debited account.

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Debited account number	Shows the account number from which the liquidity is sent.
Credited party BIC	Shows the BIC of the payment bank which owns the credited account.
Credited account number	Shows the account identification or number to where the liquidity is sent.

Screenshot

INX09 – Multi-criteria search of a set of liquidity transfers
Detail report

NCBKATFF801 - NCB-AT-Range8-AB

Multi-criteria search of a set of liquidity transfers - details

Reference information	
Liquidity transfer instructor reference	51310988
End-to-End ID	0000000051310988
Status information	
Approval status	APPR
Settlement status	SSET
RTGS status	RNAP
Timeline information	
Entry timestamp	9999-01-01 00:00:00.000
Settlement timestamp	2023-06-06 11:45:01.629
Categorisation information	
Transfer type	INLT
Underlying transfer type	SLTO
Settlement transaction category	TCAT
Settlement transaction sub-category	LQTR
Cash information	
Currency code	EUR
Transfer amount	0.00
Settled amount	2,323.00
Value date	2023-06-06
Cash parties	
Debited party BIC	PMBKATFF801
Debited account number	CSHAN8ATEUR01002
Credited party BIC	PMBKATFF801
Credited account number	CSHAN8ATEUR01001
NCB BIC	NCBKATFF801
Process information	
Partial settlement flag	F

Figure 435 - INX09 details screen

Field Description

INX09 – Multi-criteria search of a set of liquidity transfers – Details Screen	
Reference information	
Liquidity transfer instructor reference	Shows the instructor reference of the liquidity transfer.
End-to-End-ID	Shows the reference of a settlement instruction to which the liquidity transfer is linked.
Status information	
Approval status	Shows approval status of the liquidity transfer. Possible values: - APPR (Approved) - AWAP (Awaiting approval) - REJE (Rejected) - REVO (Revoked)
Settlement status	Shows the settlement status of the liquidity transfer. Possible values: - SNXE (Not executed) - SUNS (=Unsettled) - SPAS (=Partially settled) - SSET (=Settled)
RTGS status	Shows the RTGS status of the liquidity transfer. Possible values: - RNXE (Not executed) - RNAP (Not applicable) - RREJ (RTGS rejection) - RCON (RTGS confirmation) - RBOK (RTGS rebooking)
Timeline information	
Entry timestamp	Shows the date and the time the liquidity transfer entered or was generated in T2S. Displayed format: YYYY-MM-DD hh:mm:ss,sssss
Settlement timestamp	Shows the date and the time of the attempted settlement in T2S. Displayed format: YYYY-MM-DD hh:mm:ss,sssss

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Securities information	
Transfer type	Shows the direction of the transferred liquidity. Possible values: - IBLT (inbound liquidity transfer) - OTLT (outbound liquidity transfer) - INLT (internal liquidity transfer order)
Underlying transfer type	Shows the type of the transferred liquidity. Possible values: - SLTO (standing liquidity transfer order) - PLTO (predefined liquidity transfer order) - ILTO (immediate liquidity transfer order)
Settlement transaction category	Shows the settlement transaction category of the liquidity transfer. Possible values: - LQTR (liquidity transfer) - TCAT (technical cash transfer)
Settlement transaction sub-category	Shows the settlement transaction sub-category of the liquidity transfer. Possible values: - LQTR (liquidity transfer) - LTAC (Liquidity transfer all cash) - EDLT (EoD liquidity transfer) - MPOR (monetary policy operation cash rebalancing) - CARL (corporate action cash rebalancing) - ALOP (auto-collateralisation liquidity optimization)
Cash information	
Currency code	Shows the settlement currency of the liquidity transfer.
Transfer amount	Shows the amount to be credited or debited by the liquidity transfer.
Settled amount	Shows the amount actually settled by the liquidity transfer.
Value date	Shows the date at which the liquidity transfer becomes effective. Displayed format is: YYYY-MM-DD
Cash parties	
Debited account number	Shows the account number from which the liquidity is sent.

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Debited party BIC	Shows the BIC of the payment bank which owns the debited account.
Credited account number	Shows the account identification or number to where the liquidity is sent.
Credited party BIC	Shows the BIC of the payment bank which owns the credited account.
NCB BIC	BIC of the NCB
Process information	
Partial settlement flag	Shows if partial execution was possible or not. Possible values: - F (false – partial not allowed) - T (true – partial settlement allowed)

6.4 T2S Restrictions (RES)

6.4.1 RES01 – Detailed cash restrictions

Context of Usage

This report shows volumes and values for all finalised cash restrictions at CB, PB or T2S DCA level, during a selected period of time. The restrictions are filtered according the currency that the user selects.

The report delivers the volume and value of cash restrictions finalised during the selected period whether settled or partially settled. The results are displayed aggregated per transaction sub-category, within origin, restriction type and function. Totals are presented at origin level, but also cross-totalled by function.

This report can be used by CB users.

Report Access

This report can be reached in the following way:

- Content >> Team Content >> T2S >> Predefined Reports >> RES - T2S Restrictions >> RES01

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Screenshot

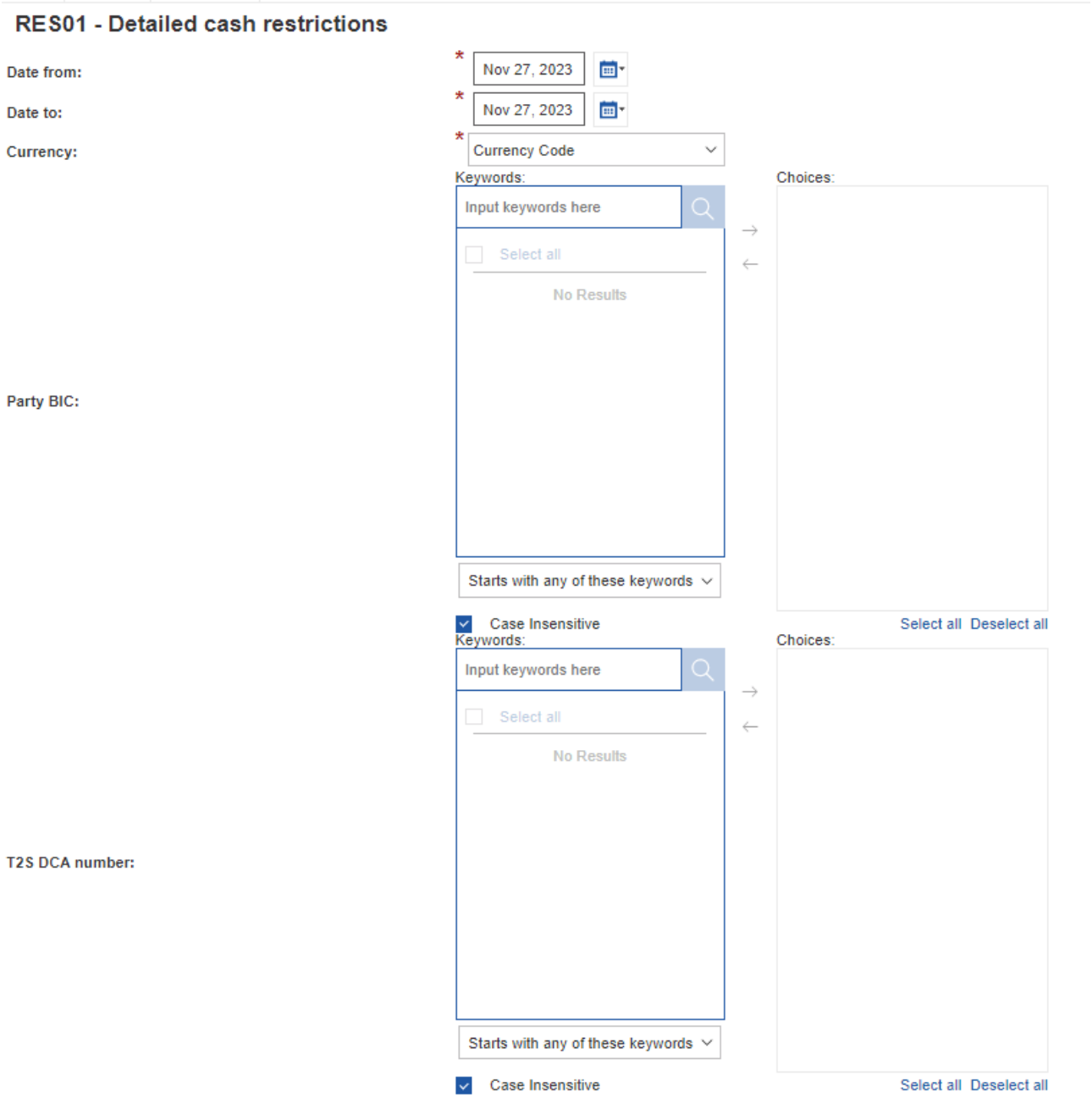

Figure 436 - RES01 prompt screen

Field Description

RES01 – Detailed cash restrictions – Prompt Screen	
Date From	You can select the date by clicking on the calendar. This field is mandatory.
Date To	You can select the end date of the period, for which the report should contain the data by clicking on the calendar. For valid report results, the current day cannot be selected. This field is mandatory.

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Currency	You can use this drop-down field to select the currency. This field is mandatory.
Party BIC	You can use this drop-down field to select one or several party BIC. This field will show all related BICs, which belong to the default data scope of the user's party. This field is optional.
T2S DCA number	You can use this drop-down field to select one or several T2S DCA numbers. This field will show all related T2S DCAs, which belong to default data scope of the user's party and which belong to the parties selected in field "Party BIC". If no Party BICs are selected, this field shows all T2S DCA numbers belonging to the default data scope of the user's party. This field is optional.

Screenshot

RES01 - Detailed cash restrictions

Filters | Date from : 2021-11-27 Date to: 2023-11-27
Currency : EUR

Detailed cash restrictions

Origin	Restriction type	Function	Settlement transaction sub-category	Volume of restrictions	Original value	Settled value
Business	Blocking	Decrease	BPDE	10	15,764.92	15,764.92
		Setup / increase	BPSU	1,857	1,633,508,159.23	1,633,508,134.23
			BPIN	24	21,936.00	21,936.00
	Reservation	Decrease	RPDE	159	153,980.20	86,580.20
		Setup / increase	RPSU	2,202	51,918,273.42	1,801,730.40
			RPIN	22	2,270,292.00	2,270,292.00
			Total Business cash restrictions	**4,274**	**1,687,888,405.77**	**1,637,704,437.75**
Technical	COSD Blocking	Decrease	COCP	271	1,800,201,904.00	1,800,201,904.00
		Setup / increase	COBR	879	10,601,322,842.00	10,601,322,842.00
			COBS	803	5,801,304,536.00	5,801,304,536.00
	End of day	Decrease	CORU	217	570,290.00	570,290.00
			EDRR	3,467	13,332,589,422.69	13,332,589,422.69
			Total Technical cash restrictions	**5,637**	**31,535,988,994.69**	**31,535,988,994.69**
Usage	Use	Use	RESU	521	9,873,933.92	9,873,933.92
			Total Usage cash restrictions	**521**	**9,873,933.92**	**9,873,933.92**
				5,620	32,380,258,774.42	32,380,212,829.42
			Total cash restrictions	**5,620**	**32,380,258,774.42**	**32,380,212,829.42**
			Total setup / increase	**5,787**	**18,090,346,038.65**	**18,040,229,470.63**
			Total decrease	**4,124**	**15,133,531,361.81**	**15,133,463,961.81**
			Total use	**521**	**9,873,933.92**	**9,873,933.92**
			Total	**16,052**	**65,614,010,108.80**	**65,563,780,195.78**

Figure 437 - RES01 output screen

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Field Description

RES01 – Detailed cash restrictions – Output Screen	
Origin	Describes a group of transaction sub-categories. Groups are: - Business - Technical - Usage
Restriction type	Describes a restriction type within an origin. Restriction types are: - Business - Blocking - Reservation - Technical - COSD blocking - End of day - Usage - Use
Function	Describes a function within a restriction type. Functions are: - Setup / increase - Decrease - Use (for Use restriction type only)
Transaction sub-category	The transaction sub-category of the restrictions for which the aggregations are performed. Values used, as per their origin and restriction type: - Business - Blocking - BPIN, BPSU, BPDE - Reservation - RPIN, RPSU, RPDE - Technical - COSD blocking - COBR, COBS, COCP - End of day - CORU, EDRR, RERV - Usage

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	• Use • CORT, RESU
Volume of restrictions	Count of the number of cash restrictions found per sub-category.
Instructed value	Sum over instructed values of the cash restrictions per sub-category
Settled value	Sum over settled values (totally or partially settled) per and sub-category
Revoked	A count of all finalised inbound LTs which were revoked after settlement, per transaction category / transaction sub-category / underlying transaction type.
Value of transfers	Sum of the original instructed transfer amounts of all finalised inbound LTs, per transaction category / transaction sub-category / underlying transaction type.
Value actually transferred	Sum of the actual settled amounts of all finalised inbound LTs, per transaction category / transaction sub-category / underlying transaction type.
Totals (per origin)	
Total business cash restrictions	Sums for ‘Volume of restrictions’, ‘Instructed value’ and ‘Settled value’ columns, within the origin ‘Business’.
Total technical cash restrictions	Sums for ‘Volume of restrictions’, ‘Instructed value’ and ‘Settled value’ columns, within the origin ‘Technical’.
Total usage cash restrictions	Sums for ‘Volume of restrictions’, ‘Instructed value’ and ‘Settled value’ columns, within the origin ‘Usage’.
Totals (per function)	
Total setup / increase	Sums for ‘Volume of restrictions’, ‘Instructed value’ and ‘Settled value’ columns, to include all lines with the function ‘Setup / increase’.
Total decrease	Sums for ‘Volume of restrictions’, ‘Instructed value’ and ‘Settled value’ columns, to include all lines with the function ‘Decrease’.

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Total use	Sums for ‘Volume of restrictions’, ‘Instructed value’ and ‘Settled value’ columns, to include all lines with the function ‘Use’.
Total (overall)	
Total	Sums for ‘Volume of restrictions’, ‘Instructed value’ and ‘Settled value’ columns, over all ‘Totals (per function)’.

6.4.2 RES02 – Detailed securities restrictions

Context of Usage

This report shows volumes and quantities for all finalised securities restrictions at CSD, CSDP, ECSD or securities account level, during a selected period of time. The restrictions are filtered according the settlement types of the securities that the user selects.

The report delivers the volume of securities restrictions finalised during the selected period whether settled or partially settled. The results are displayed aggregated per transaction sub-category, within origin, restriction type and function. Totals are presented at origin level, but also cross-totalled by function.

This report can be used by CSD users.

Report Access

This report can be reached in the following way:

- Content >> Team Content >> T2S >> Predefined Reports >> RES - T2S Restrictions >> RES02

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Screenshot

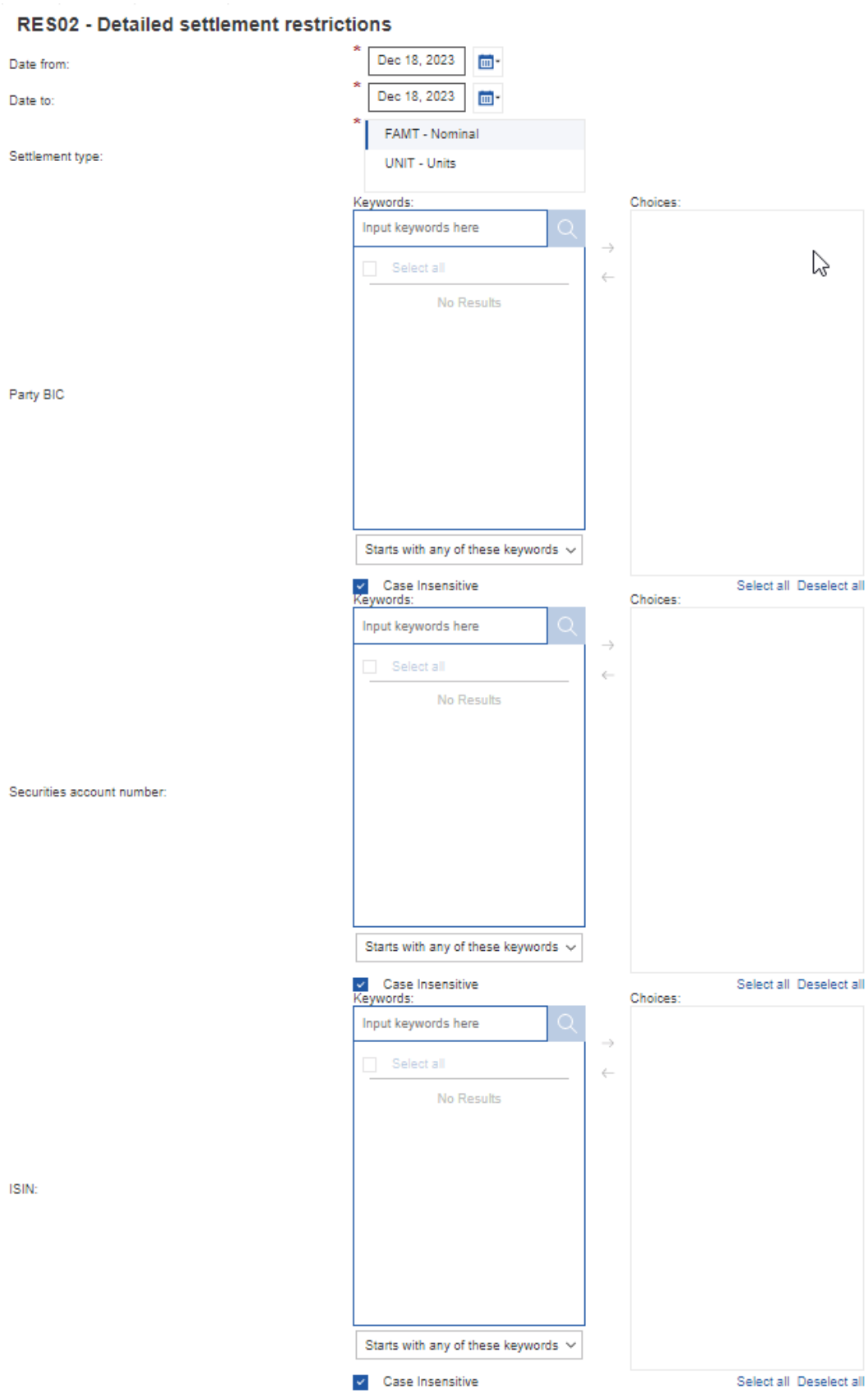

Figure 438 - RES02 prompt screen

Field Description

RES02 – Detailed securities restrictions – Prompt Screen	
Date from	You can select the date by clicking on the calendar. This field is mandatory.
Date to	You can select the end date of the period, for which the report should contain the data by clicking on the calendar. For valid report results, the current day cannot be selected. This field is mandatory.
Settlement type	This selection specifies the quantity type of the settlement for the security, stated in the restriction transaction. Possible values: - FAMT- Nominal - UNIT- Units This field is mandatory

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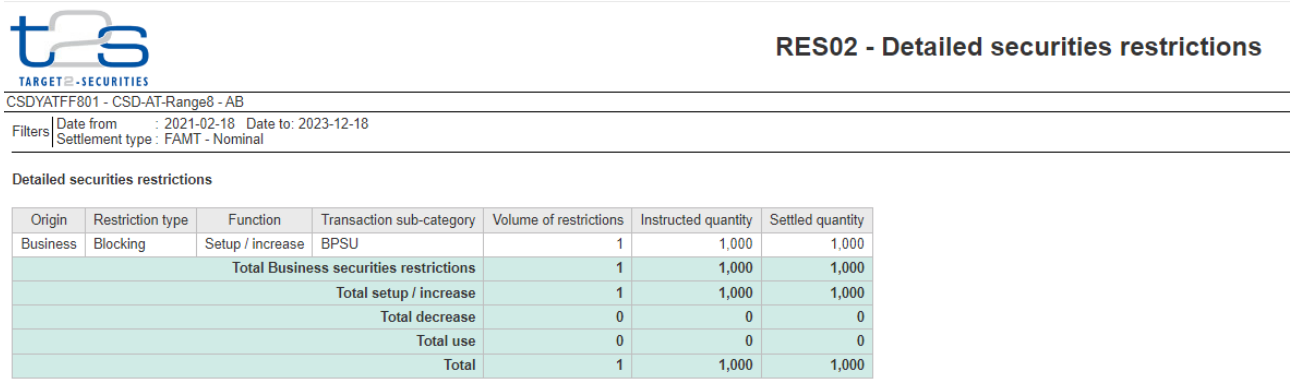
Party BIC	You can use this drop-down field to select one or several party BIC. This field will show all related BICs, which belong to the default data scope of the user's party. This field is optional.
Securities account number	You can use this drop-down field to select one or several securities account numbers. This field will show all related securities accounts which belong to default data scope of the user's party and which belong to the parties selected in field "Party BIC". If no Party BICs are selected, this field shows all securities account numbers belonging to the default data scope of the user's party. This field is optional.
ISIN	The report output contains only settlement instructions with the selected securities. This field is optional.

Screenshot



RES02 - Detailed securities restrictions

CSDYATFF801 - CSD-AT-Range8 - AB

Filters | Date from : 2021-02-18 Date to: 2023-12-18
Settlement type : FAMT - Nominal

Detailed securities restrictions

Origin	Restriction type	Function	Transaction sub-category	Volume of restrictions	Instructed quantity	Settled quantity
Business	Blocking	Setup / increase	BPSU	1	1,000	1,000
			Total Business securities restrictions	1	1,000	1,000
			Total setup / increase	1	1,000	1,000
			Total decrease	0	0	0
			Total use	0	0	0
			Total	1	1,000	1,000

Figure 439 - RES02 output screen

Field Description

RES02 – Detailed securities restrictions – Output Screen	
Origin	Describes a group of transaction sub-categories. Groups are: - Business - Technical - Usage
Restriction type	Describes a restriction type within an origin. Restriction types are: - Business - Blocking

	- Earmarking - Reservation - Technical - Collateralisation (COLA) - COSD blocking - End of day - Reverse Collateralisation (RCOL) - Usage - Use
Function	Describes a function within a restriction type. Functions are: - Decrease - Setup / increase - Use (for Use restriction type only)
Transaction sub-category	The transaction sub-category of the restrictions for which the aggregations are performed. Values used, as per their origin and restriction type: - Business - Blocking - BPDE, BPIN, BPSU - Earmarking - EPDE, EPIS - Reservation - RPDE, RPIN, RPSU - Technical - Collateralisation (COLA) - SPLE (COLA) - COSD blocking - COBS, COCP - End of day - CORU - Reverse Collateralisation (RCOL) - SPLE(RCOL) - Usage - Use

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	I CORT, RESU
Volume of restrictions	Count of the number of securities restrictions found per sub-category.
Instructed quantity	Sum over instructed quantities of the securities restrictions per sub-category
Settled quantity	Sum over settled quantities (totally or partially settled) per and sub-category
Totals (per origin)	
Total business securities restrictions	Sums for 'Volume of restrictions', 'Instructed quantity' and 'Settled quantity' columns, within the origin 'Business'.
Total technical securities restrictions	Sums for 'Volume of restrictions', 'Instructed quantity' and 'Settled quantity' columns, within the origin 'Technical'.
Total usage securities restrictions	Sums for 'Volume of restrictions', 'Instructed quantity' and 'Settled quantity' columns, within the origin 'Usage'.
Totals (per function)	
Total setup / increase	Sums for 'Volume of restrictions', 'Instructed quantity' and 'Settled quantity' columns, to include all lines with the function 'Setup / increase'.
Total decrease	Sums for 'Volume of restrictions', 'Instructed quantity' and 'Settled quantity' columns, to include all lines with the function 'Decrease'.
Total use	Sums for 'Volume of restrictions', 'Instructed quantity' and 'Settled quantity' columns, to include all lines with the function 'Use'.
Total (overall)	
Total	Sums for 'Volume of restrictions', 'Instructed quantity' and 'Settled quantity' columns, over all 'Totals (per function)'.

6.5 T2S Credit line (CMB)

6.5.1 CMB01 – Journaling of limit utilisations of primary CMB

Context of Usage

This report shows primary CMB limit utilisation journal activity at CB, T2S CB-DCA or primary CMB level during a selected period of time. The accounts are filtered according the currency that the user selects. Primary CMBs are those set by a CB for a payment bank.

The journal activity is displayed as a table of volumes and utilisation values according to the credit/debit indicator.

This report can be used by CB users.

Report Access

This report can be reached in the following way:

- Content >> Team Content >> T2S >> Predefined Reports >> CMB - T2S Credit line >> CMB01

All rights reserved.

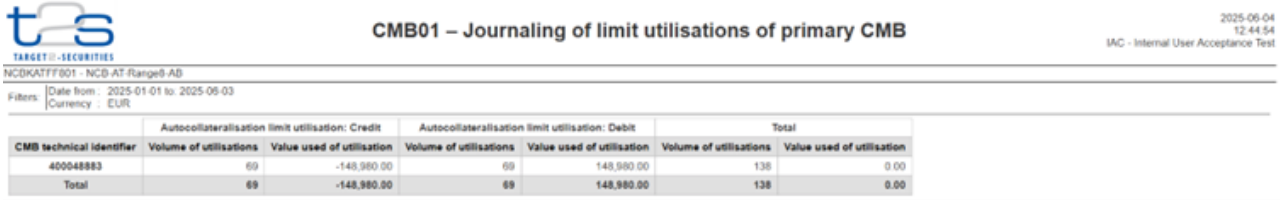
Screenshot

Figure 440 - CMB01 prompt screen

Field Description

CMB01 – Journaling of limit utilisations of primary CMB – Prompt Screen	
Date from	You can select the date by clicking on the calendar. This field is mandatory.
Date to	You can select the end date of the period, for which the report should contain the data by clicking on the calendar. For valid report results, the current day cannot be selected. This field is mandatory.
Currency	You can use this drop-down field to select the currency. This field is mandatory.
Party BIC	You can use this drop-down field to select one or several party BIC. This field will show all related BICs, which belong to the default data scope of the user's party. This field is optional.
T2S DCA number	You can use this drop-down field to select one or several T2S DCA numbers. This field will show all related T2S DCAs, which belong to default data scope of the user's party and which belong to the parties selected in field "Party BIC". If no Party BICs are selected, this field shows all T2S DCA numbers belonging to the default data scope of the user's party. This field is optional.

Screenshot



CMB01 – Journaling of limit utilisations of primary CMB

2025-06-04
12:44:54
IAC - Internal User Acceptance Test

NCBKATFF001 - NCB-AT-Range8-AB

Filters: Date from : 2025-01-01 to: 2025-06-03
Currency : EUR

	Autocollateralisation limit utilisation: Credit		Autocollateralisation limit utilisation: Debit		Total	
CMB technical identifier	Volume of utilisations	Value used of utilisation	Volume of utilisations	Value used of utilisation	Volume of utilisations	Value used of utilisation
400048883	69	-148,980.00	69	148,980.00	138	0.00
Total	69	-148,980.00	69	148,980.00	138	0.00

Figure 441 - CMB01 output screen

Field Description

CMB01 – Journaling of limit utilisations of primary CMB – Output Screen	
The following information is repeated for every CMB matching the selection criteria	
CMB technical identifier	The T2S internal identifier of a CMB
Autocollateralisation limit utilisation : Credit	

Volume of utilisations	Count of the number of credit side utilisations found per CMB technical identifier
Value used of utilisation	Sum over utilised values of credit side utilisations found per CMB technical identifier
Autocollateralisation limit utilisation : Debit	
Volume of utilisations	Count of the number of debit side utilisations found per CMB technical identifier
Value used of utilisation	Sum over utilised values of debit side utilisations found per CMB technical identifier
Total (per CMB technical identifier)	
Volume of utilisations	Sum of 'Volume of utilisations' over credit and debit per CMB technical identifier
Value used of utilisation	Sum of 'Value used of utilisations' over credit and debit per CMB technical identifier
Total (overall)	
Total	Sums of all volumes and values for each column, over all CMB technical identifiers.

6.6 T2S Collateral instructions (COL)

6.6.1 COL01 – Follow-up by time slot of settled collateralisation instructions

Context of Usage

This report shows the finalised settled collateralisation instructions at CSD, CSDP, external CSD or securities account level, during a selected period of time. The volume and value of the collateralisation instructions are shown for each time slot of the business day with a total per transaction category (Collateral, Reverse collateral, Relocation) and transaction sub-category (Repo, Pledge, Sub-pledge).

This report can be used by CSD users.

Report Access

This report can be reached in the following way:

- Content >> Team Content >> T2S >> Predefined Reports >> COL - T2S Collateral instructions >> COL01

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Screenshot

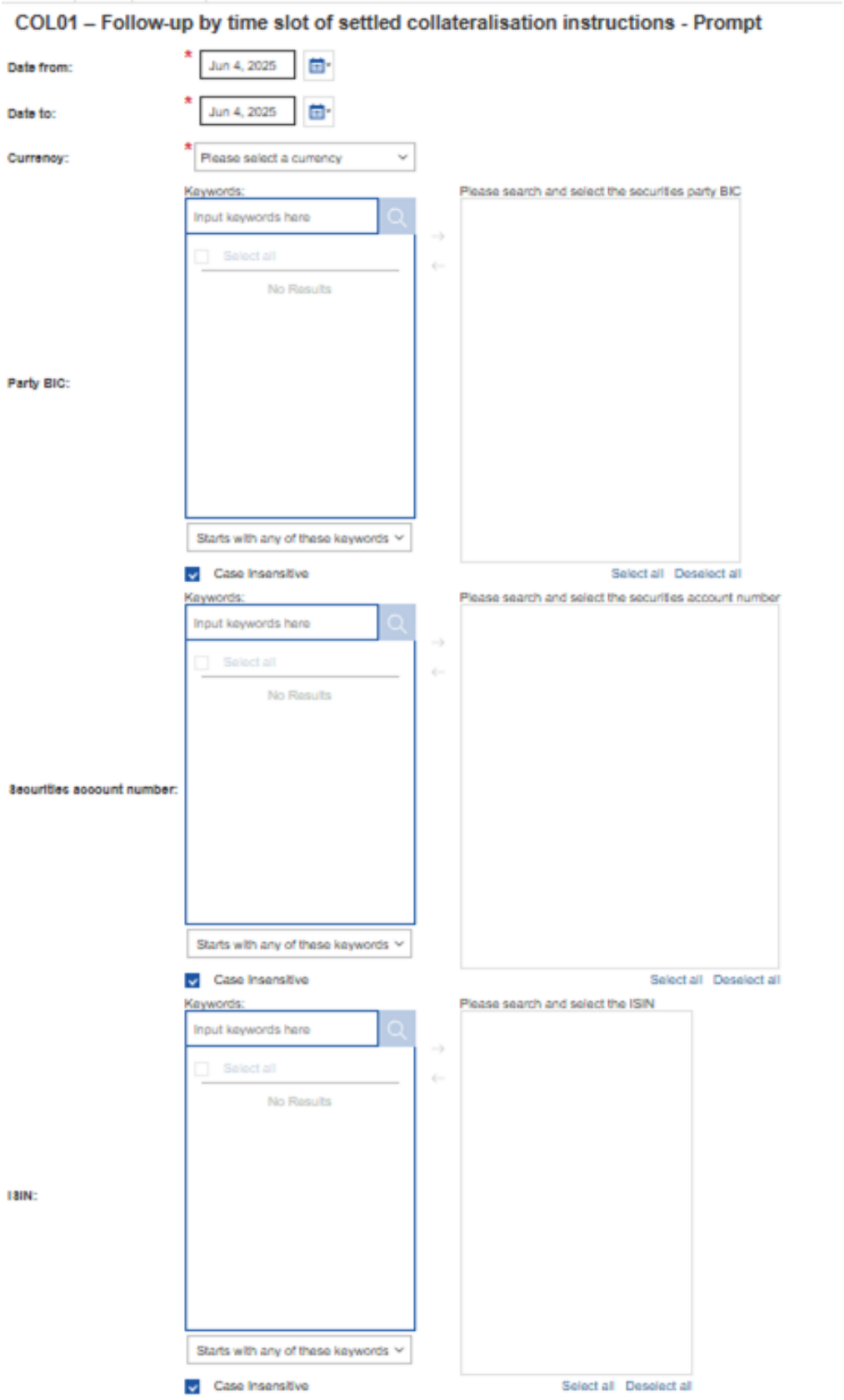
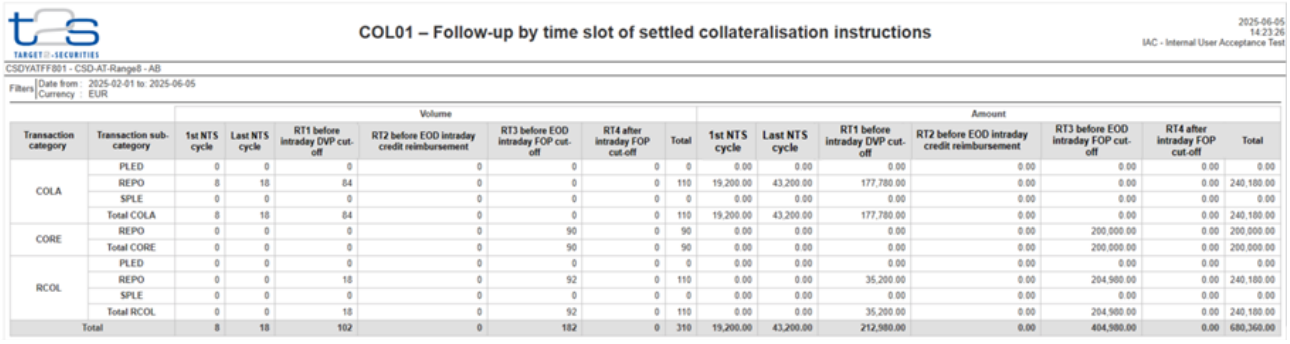


Figure 442 - COL01 prompt screen

Field Description

COL01 – Follow-up by time slot of settled collateralisation instructions – Prompt Screen	
Date from	You can select the date by clicking on the calendar. This field is mandatory.
Date to	You can select the end date of the period, for which the report should contain the data by clicking on the calendar. For valid report results, the current day cannot be selected. This field is mandatory.
Currency	Currency in which the amount of the collateral instructions must be denominated. This field is mandatory
Party BIC	You can use this drop-down field to select one or several party BIC. This field will show all related BICs, which belong to the default data scope of the user's party. This field is optional.
Securities account number	You can use this drop-down field to select one or several securities account numbers. This field will show all related securities accounts which belong to default data scope of the user's party and which belong to the parties selected in field "Party BIC". If no Party BICs are selected, this field shows all securities account numbers belonging to the default data scope of the user's party. This field is optional.
ISIN	The report output contains only settlement instructions with the selected securities. This field is optional.

Screenshot



COL01 – Follow-up by time slot of settled collateralisation instructions

2025-06-05 14:23:26
IAC - Internal User Acceptance Test

CSDYATFF801 - CSD-AT-Range8 - AB

Filters: Date from : 2025-02-01 to: 2025-06-05 | Currency : EUR

		Volume							Amount						
Transaction category	Transaction sub-category	1st NTS cycle	Last NTS cycle	RT1 before intraday DVP cut-off	RT2 before EOD intraday credit reimbursement	RT3 before EOD intraday FOP cut-off	RT4 after intraday FOP cut-off	Total	1st NTS cycle	Last NTS cycle	RT1 before intraday DVP cut-off	RT2 before EOD intraday credit reimbursement	RT3 before EOD intraday FOP cut-off	RT4 after intraday FOP cut-off	Total
COLA	PLED	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	REPO	8	18	84	0	0	0	110	19,200.00	43,200.00	177,780.00	0.00	0.00	0.00	240,180.00
	SPLE	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total COLA	8	18	84	0	0	0	110	19,200.00	43,200.00	177,780.00	0.00	0.00	0.00	240,180.00
CORE	REPO	0	0	0	0	90	0	90	0.00	0.00	0.00	0.00	200,000.00	0.00	200,000.00
	Total CORE	0	0	0	0	90	0	90	0.00	0.00	0.00	0.00	200,000.00	0.00	200,000.00
RCOL	PLED	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	REPO	0	0	18	0	92	0	110	0.00	0.00	35,200.00	0.00	204,980.00	0.00	240,180.00
	SPLE	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total RCOL	0	0	18	0	92	0	110	0.00	0.00	35,200.00	0.00	204,980.00	0.00	240,180.00
Total		8	18	102	0	182	0	310	19,200.00	43,200.00	212,980.00	0.00	404,980.00	0.00	680,360.00

Figure 443 - COL01 output screen

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Field Description

COL01 – Follow-up by time slot of settled collateralisation instructions – Output Screen	
Transaction category	Shows the transaction category for which the collateralisation instructions are displayed from the possible values: - COLA (Collateral) - RCOL(Reverse collateral) - CORE (Relocation)
Transaction sub-category	Shows the transaction sub-category for which the collateralisation instructions are displayed from the possible values: - REPO (Repo) - PLED (Pledge) - SPLE (Sub-pledge) For Transaction category “CORE” only the transaction sub-category “REPO” is available.
Volume	
Time slots (one column per time slot): - 1st NTS cycle - Last NTS cycle - RT1 before intraday DVP cut-off - RT2 before EOD intraday credit reimbursement - RT3 before EOD intraday FOP cut-off - RT4 after intraday FOP cut-off	The aggregated number of finalised settled collateralisation instructions are displayed for each of the time slots within transaction category and sub-category combination.
Volume (Total)	Sum of ‘Volume’ information over all time-slots within transaction sub-category.
Amount	
Time slots (one column per time slot): - 1st NTS cycle - Last NTS cycle - RT1 before intraday DVP cut-off - RT2 before EOD intraday credit reimbursement	The aggregated amount of finalised settled collateralisation instructions are displayed for each of the above time slots within transaction category and sub-category combination.

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• RT3 before EOD intraday FOP cut-off • RT4 after intraday FOP cut-off	
Amount (Total)	Sum of 'Amount' information over all time-slots within transaction sub-category.
Total	
Total (per transaction category)	Sums of each 'Volume' and 'Amount' column over all transaction sub-categories within transaction category.
Total (overall)	Sums of each 'Volume' and 'Amount' column over all transaction categories.

6.7 Technical instructions (RAL)

6.7.1 RAL01 – Detailed realignment and other technical instructions

Context of Usage

This report shows detailed information on volume and quantities for all realignment and other technical settlement instructions (SIs) at CSD, CSDP/ECSD or securities account level, during a selected period of time. The settlement instructions are filtered according the settlement types of the securities that the user selects.

The volumes and quantities (original and the settled) are aggregated per ISIN per transaction type code, transaction category and transaction sub-category; and displayed by securities movement type and settlement status.

This report can be used by CSD users.

Report Access

This report can be reached in the following way:

- Content >> Team Content >> T2S >> Predefined Reports >> RAL - T2S Technical instructions >> RAL01

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Screenshot

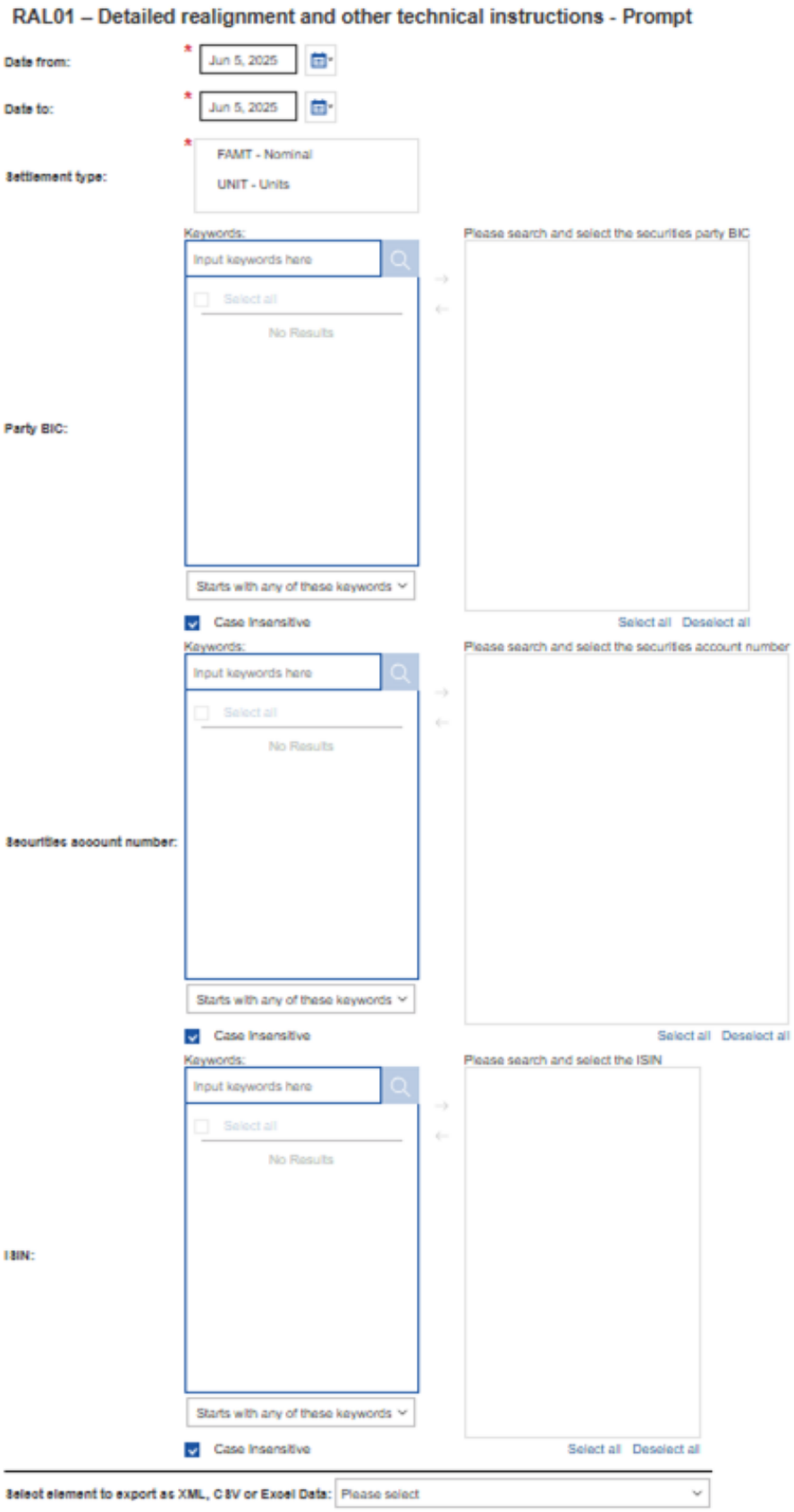

Figure 444 - RAL01 Prompt screen

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Field Description

RAL01 – Detailed realignment and other technical instructions – Prompt screen	
Date from	You can select the date by clicking on the calendar. This field is mandatory.
Date to	You can select the end date of the period, for which the report should contain the data by clicking on the calendar. For valid report results, the current day cannot be selected. This field is mandatory.
Settlement type	This selection specifies the quantity type of the settlement for the security, stated in the instruction. Possible values: - FAMT - Nominal - UNIT - Units This field is mandatory.
Party BIC	You can use this drop-down field to select one or several party BIC. This field will show all related BICs, which belong to the default data scope of the user's party. This field is optional.

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Securities account number	You can use this drop-down field to select one or several securities account numbers. This field will show all related securities accounts which belong to default data scope of the user's party and which belong to the parties selected in field "Party BIC". If no Party BICs are selected, this field shows all securities account numbers belonging to the default data scope of the user's party. This field is optional.
ISIN	The report output contains only settlement instructions with the selected securities. This field is optional.
Select element to export as XML, CSV or Excel Data	You can choose the elements you want to download as either XML, CSV or Excel Data. For this report, you can choose between the following tabs: - Detailed realignment and other technical instructions – volume - Detailed realignment and other technical instructions - quantity This field is optional.

Screenshot

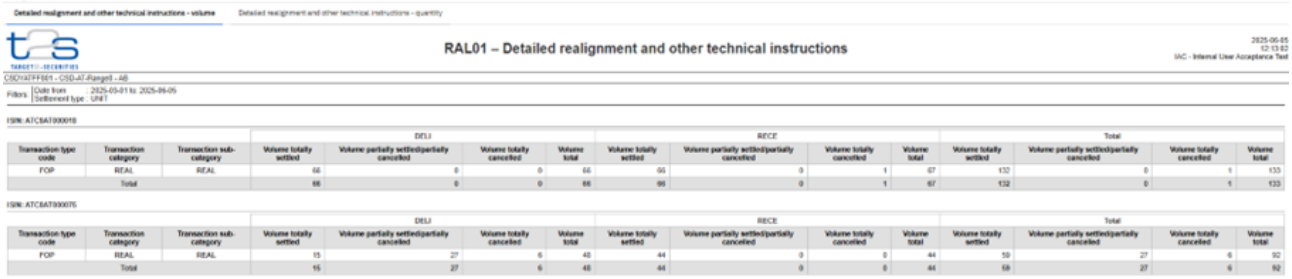

Figure 445 - RAL01 output screen, tab 1 - volume

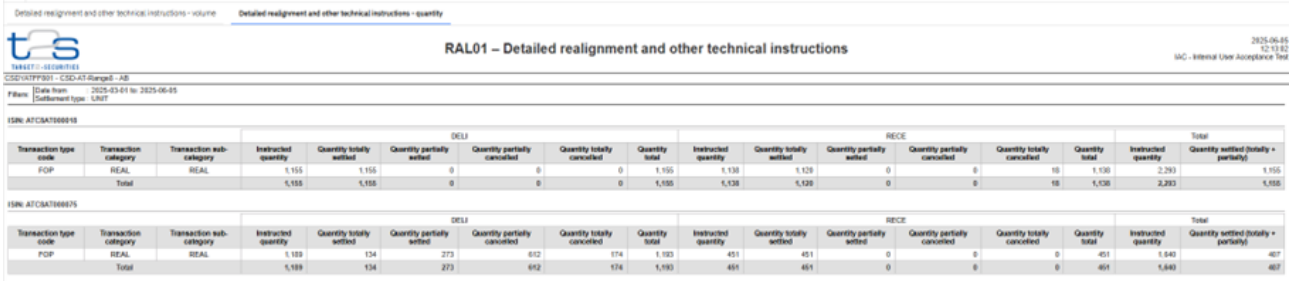

Figure 446 - RAL01 output screen, tab 2 - quantity

Field Description

RAL01 – Detailed realignment and other technical instructions – OUTPUT SCREEN Tab 1 - volume	
Transaction type code	Shows the settlement transaction type code set during the selected period duration of time from the possible values: - DVP (delivery versus payment) - DWP (delivery with payment) - FOP (free of payment) - PFOD (payment free of delivery)
Transaction category	Shows the category of the settlement transaction from the possible values: - REAL (realignment) - COTF (conditional technical FOP)
Transaction sub-category	Shows the subcategory of the settlement transaction from the possible values: - REAL (realignment) - PLED (pledge) - REPO (repurchase order) - COBS (CoSD blocking position setup) - STND (standard)
DELI	
Volume totally settled	A count of the number of totally settled SIs with security movement type DELI, per transaction type / transaction category and sub-category.
Volume partially settled / partially cancelled	A count of the number of partially settled/partially cancelled SIs with security movement type DELI, per transaction type / transaction category and sub-category.
Volume totally cancelled	A count of the number of totally cancelled matched SIs with security movement type DELI, per transaction type / transaction category and sub-category.
Volume total	Sum of 'Volume totally settled', 'Volume partially settled / partially cancelled' and 'Volume totally cancelled' with security movement type DELI, per transaction type / transaction category and sub-category.
RECE	
Volume totally settled	A count of the number of totally settled SIs with security movement type RECE, per transaction type / transaction category and sub-category.

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Volume partially settled / partially cancelled	A count of the number of partially settled/partially cancelled SIs with security movement type RECE, per transaction type / transaction category and sub-category.
Volume totally cancelled	A count of the number of totally cancelled matched SIs with security movement type RECE, per transaction type / transaction category and sub-category.
Volume total	Sum of 'Volume totally settled', 'Volume partially settled / partially cancelled' and 'Volume totally cancelled' with security movement type RECE, per transaction type / transaction category and sub-category.
Total	
Volume totally settled	Sum of 'Volume totally settled' over all DELI and RECE security movement types, per transaction type / transaction category and sub-category.
Volume partially settled / partially cancelled	Sum of 'Volume partially settled / partially cancelled' over all DELI and RECE security movement types, per transaction type / transaction category and sub-category.
Volume totally cancelled	Sum of 'Volume totally cancelled' over all DELI and RECE security movement types, per transaction type / transaction category and sub-category.
Volume total	Sum of the 'Total' over all DELI and RECE security movement types, per transaction type / transaction category and sub-category.

RAL01 – Detailed realignment and other technical instructions – OUTPUT SCREEN Tab 2 - quantity	
Transaction type code	Shows the settlement transaction type code set during the selected period duration of time from the possible values: - DVP (delivery versus payment) - DWP (delivery with payment) - FOP (free of payment) - PFOD (payment free of delivery)
Transaction category	Shows the category of the settlement transaction from the possible values: - REAL (realignment) - COTF (conditional technical FOP)
Transaction sub-category	Shows the subcategory of the settlement transaction from the possible values: - REAL (realignment) - PLED (pledge) - REPO (repurchase order)

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	- COBS (CoSD blocking position setup) - STND (standard)
DELI	
Instructed quantity	Sum of instructed settlement quantity of all totally and partially settled SIs with securities movement type DELI, per transaction type / transaction category and sub-category.
Quantity totally settled	Sum of settled settlement quantity of all totally settled SIs with securities movement type DELI, per transaction type / transaction category and sub-category.
Quantity partially settled	Sum of settled settlement quantity of all partially settled SIs with securities movement type DELI, per transaction type / transaction category and sub-category.
Quantity partially cancelled	Sum of unsettled amount of all partially settled SIs with securities movement type DELI, per transaction type / transaction category and sub-category.
Quantity totally cancelled	Sum of unsettled amount of all totally cancelled SIs with securities movement type DELI, per transaction type / transaction category and sub-category.
Quantity total	Sum of 'Quantity totally settled', 'Quantity partially settled / partially cancelled' and 'Quantity totally cancelled' with security movement type DELI, per transaction type / transaction category and sub-category.
RECE	
Instructed quantity	Sum of instructed settlement quantity of all totally and partially settled SIs with securities movement type RECE, per transaction type / transaction category and sub-category.
Quantity totally settled	Sum of settled settlement quantity of all totally settled SIs with securities movement type RECE, per transaction type / transaction category and sub-category.
Quantity partially settled	Sum of settled settlement quantity of all partially settled SIs with securities movement type RECE, per transaction type / transaction category and sub-category.
Quantity partially cancelled	Sum of unsettled amount of all partially settled SIs with securities movement type RECE, per transaction type / transaction category and sub-category.
Quantity totally cancelled	Sum of unsettled amount of all totally cancelled SIs with securities movement type RECE, per transaction type / transaction category and sub-category.

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Quantity total	Sum of ‘Quantity totally settled’, ‘Quantity partially settled / partially cancelled’ and ‘Quantity totally cancelled’ with security movement type RECE, per transaction type / transaction category and sub-category.
Total	
Instructed quantity	Sum of ‘Original quantity’ for ‘DELI’ and ‘RECE’ per transaction type / transaction category and sub-category.
Quantity settled (totally + partially)	Sum of ‘Quantity totally settled’ plus ‘Quantity partially settled’’ for ‘DELI’ and ‘RECE’ per transaction type / transaction category and sub-category.

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7 Understanding user rights and access rights (advanced users)

Every user is linked to one party in CRDM and member of one role and group in DWH.

In order to identify to which group, role you belong and the capabilities assigned to you follow the steps:

- Personal menu > My preferences > Personal > Advanced > Groups and roles > View details
- Personal menu > My preferences > Personal > Advanced > My capabilities > View details

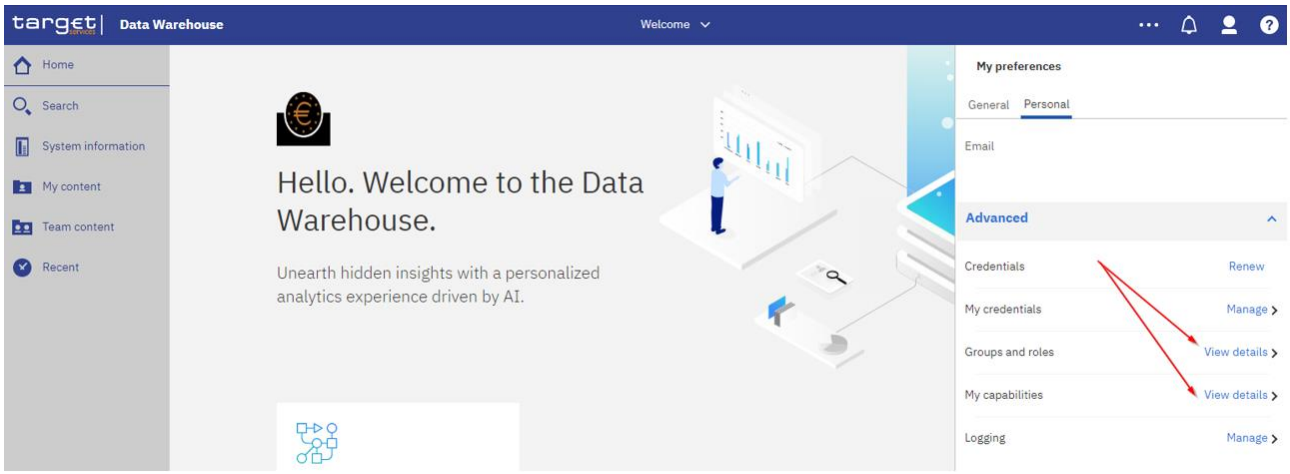

Figure 447 - Groups and roles and capabilities

Based on the above attributes a two level security is defined in the DWH:

- Functional security
- Data security

7.1 Functional security

The functional security is defined as what a user is able to access and do in the DWH, which means access to content and product features.

User Groups and Roles

In CRDM two privileges for the usage of DWH are available: Data Warehouse Normal User and Data Warehouse Advanced User. Each of these privileges is linked to one role/group in DWH. Ther roles/groups define the DWH capabilities, assigned to user.

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User groups	Can be assigned to party type	DWH Role	Description
Normal	Central Bank Payment Bank Ancillary System	Consumers	Members can read, execute and schedule public content, such as predefined reports.
Advanced	Central Bank	Authors	Members have the same access permissions as Consumers. They can also schedule a report and create user defined reports or adapt predefined reports.

Table 143 - Functional security - User Groups and Roles

Note: Roles “Everyone” and “All Authenticated Users” are system roles, which are assigned to all users who are allowed to access the DWH.

The party types CB, Pb and AS define the access to the DWH content.

All users of these three party types have access to the “Team content” folder. It contains the following sub-folders, visible to the users according to the group they belong to:

- CB shared folder (only visible to CB users), containing following sub-folders:
  - CB – XX shared folder (XX is the country code of the CB)

    Contains reports shared among all users of the same CB
  - Central Banks shared folder

    Contains reports shared among all CBs
- Data packages (visible to all users)

  Packages are model subsets or the whole model that ensure users are provided with data appropriate for the reporting they need to do, and that the data is structured in ways that make sense from a business perspective. A model serves as an insulating layer between DWH users and the database.

  Contains data used for running or developing reports – it is read-only.
- Predefined Reports (visible to all users)

  Contains all predefined reports grouped in sub-folders in the hierarchy of chapter Predefined reports [▸ 154]. Only those predefined reports are visible to the user, which are accessible to his user group (according to his party type). See chapter Predefined reports [▸ 154] for details.

Users are not allowed to create or delete entries in the “Team content”, “CB shared”, “Data packages” and “Predefined Reports” folder.

The users according to their party type (CB, PB, AS) have access to different reports in the Predefined Reports folder. For example in the folder ‘TRN - Transaction Reports’ under Team content – Predefined Reports,

A Central Bank user can see the following reports:

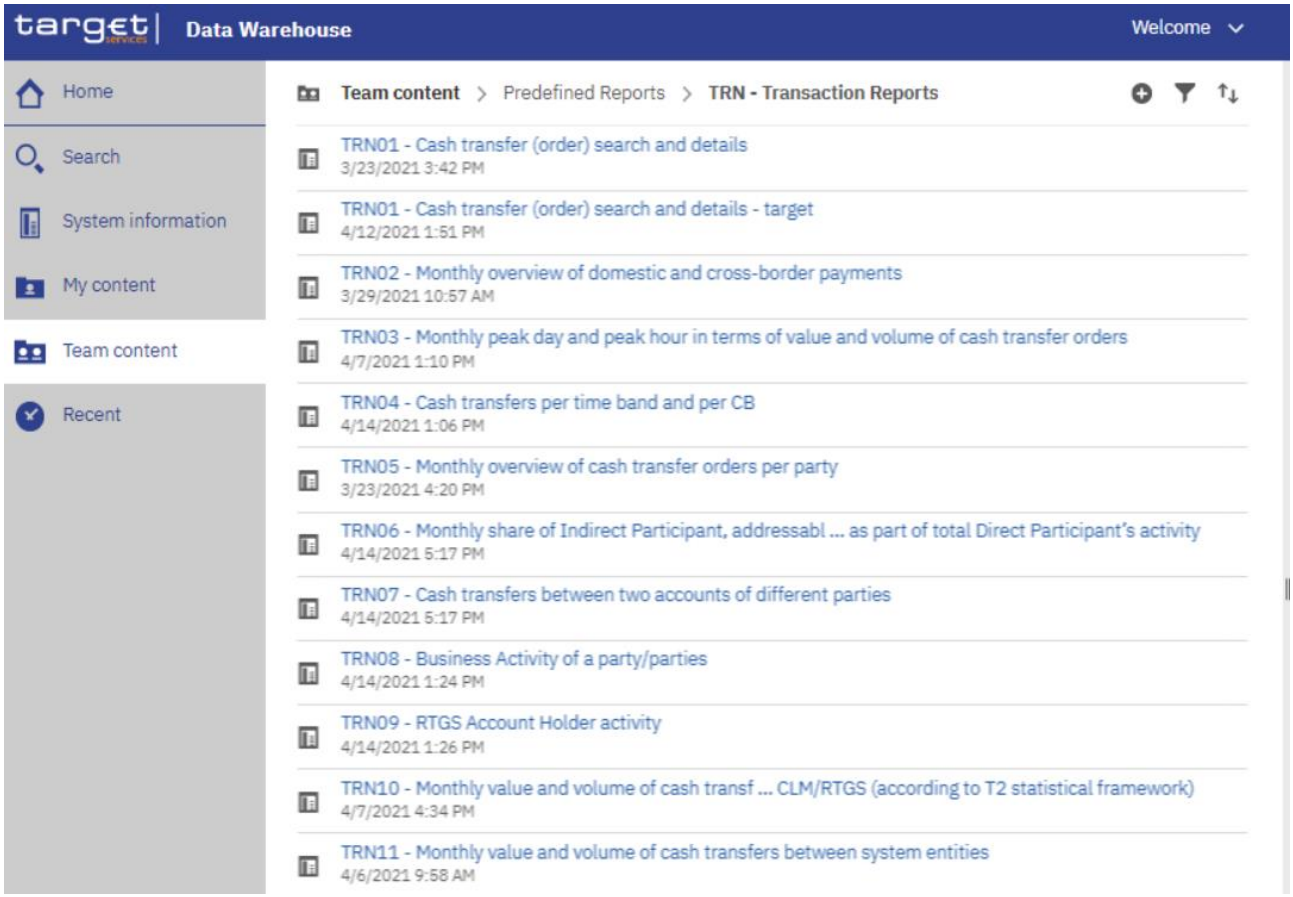

Figure 448 - Functional security - Central Bank user

A Payment Bank user can see the following reports:

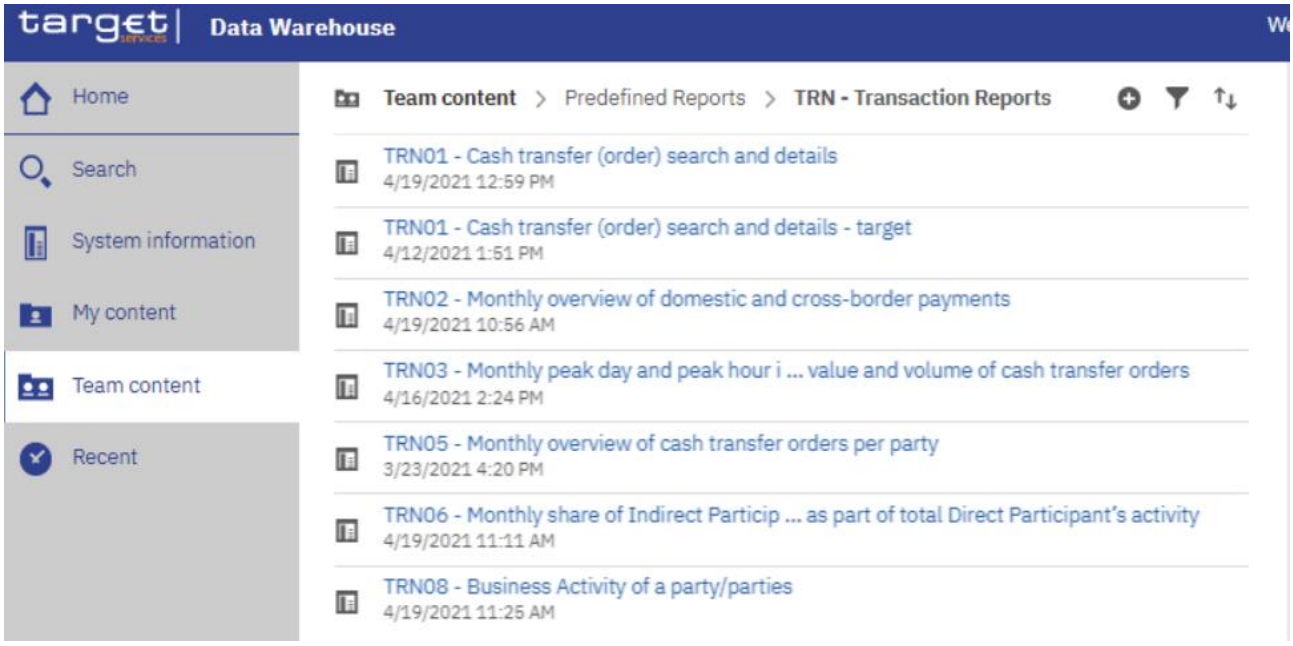

Figure 449 - Functional security - Payment bank user

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An Ancillary System user can see the following reports:

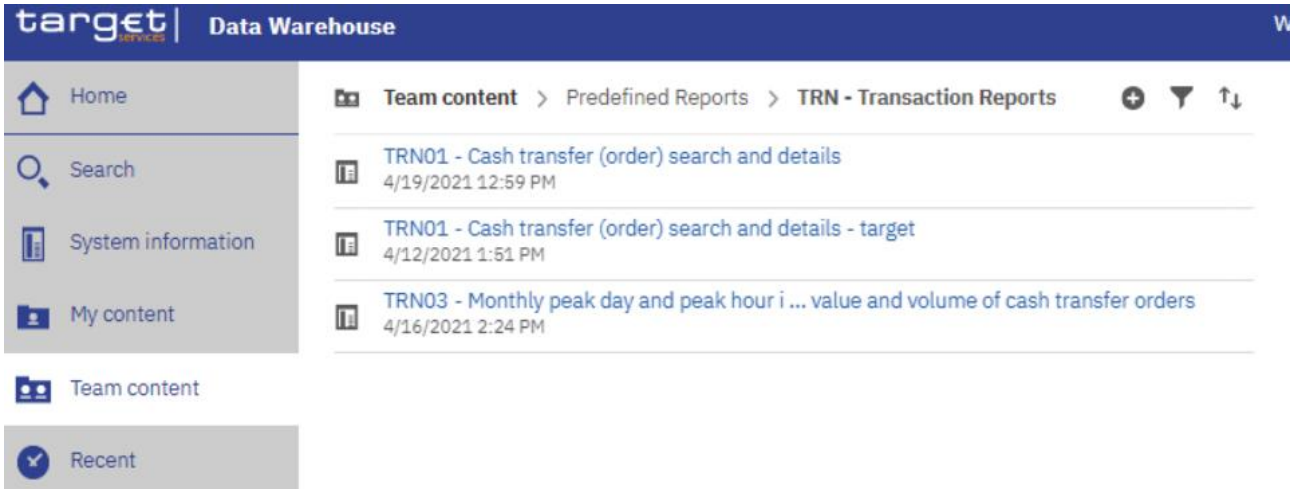

Figure 450 - Functional security - Ancillary System user

7.2 Data security

Users are accessing data through predefined reports or reports they develop themselves (only advanced users).

In both cases, a report is related to one Data package, which describes the database in business terms allowing advanced users to easily develop reports.

The package also dictates the access to the data according to user-id, which is related to one party and the relevant cash accounts.

The general rules followed are:

- PB and AS users are allowed to see granular and aggregated data provided by predefined reports and related to their party / cash accounts. They are also able to see data of Cash Accounts that do not belong to them, e.g. as Co-manager, or Account Monitoring group leader.
- CB users are allowed to see granular and aggregated data related to their party / cash accounts along with the data that parties within their system entity are able to see. Additionally, they are also able to see aggregated system-wide data.

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8 Creating reports (just advanced users)

Create a report by clicking the “**Open menu**” icon ( ) on the left side of the Global application bar and then clicking on “New” and “Report". When you create a report, you are actually creating a report specification. The report specification defines the queries and prompts that are used to retrieve data and the layouts and styles used to present the data. For simplicity, the report specification is named by the same name as the report.

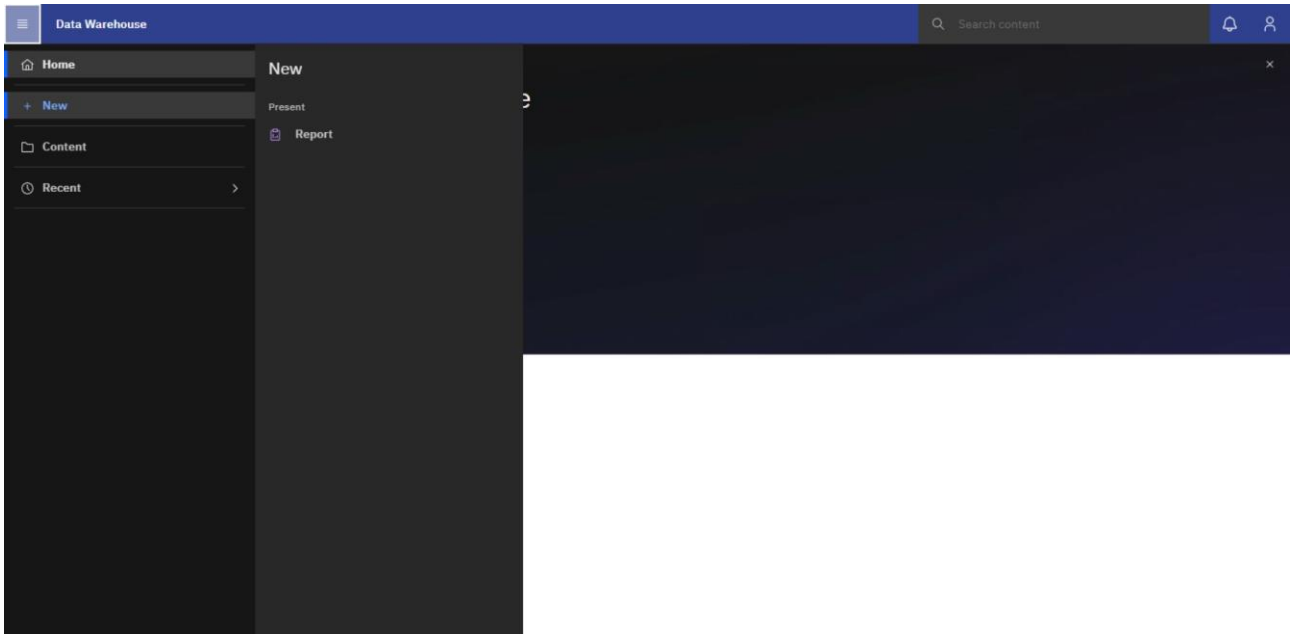


Figure 451 - Creating reports - Welcome page – Open menu - New - Report

To adapt predefined reports, navigate to the report click on “**Action menu**” and select “**Edit report**”. The report will be displayed in the edit view. All report adaptions can be executed in the same way as how to create a new report from scratch.

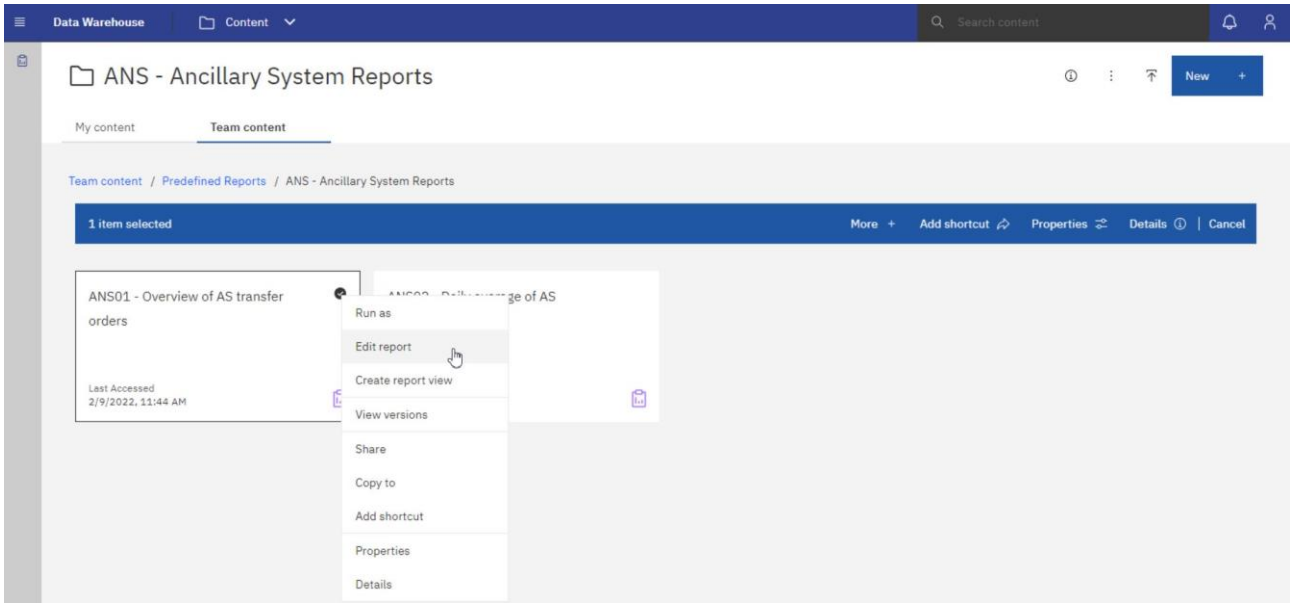


Figure 452 - Creating reports - Predefined Reports - Edit report

8.1 The user interface

This chapter gives an overview in the creation of a new report.

This is the first screen when creating a new report.

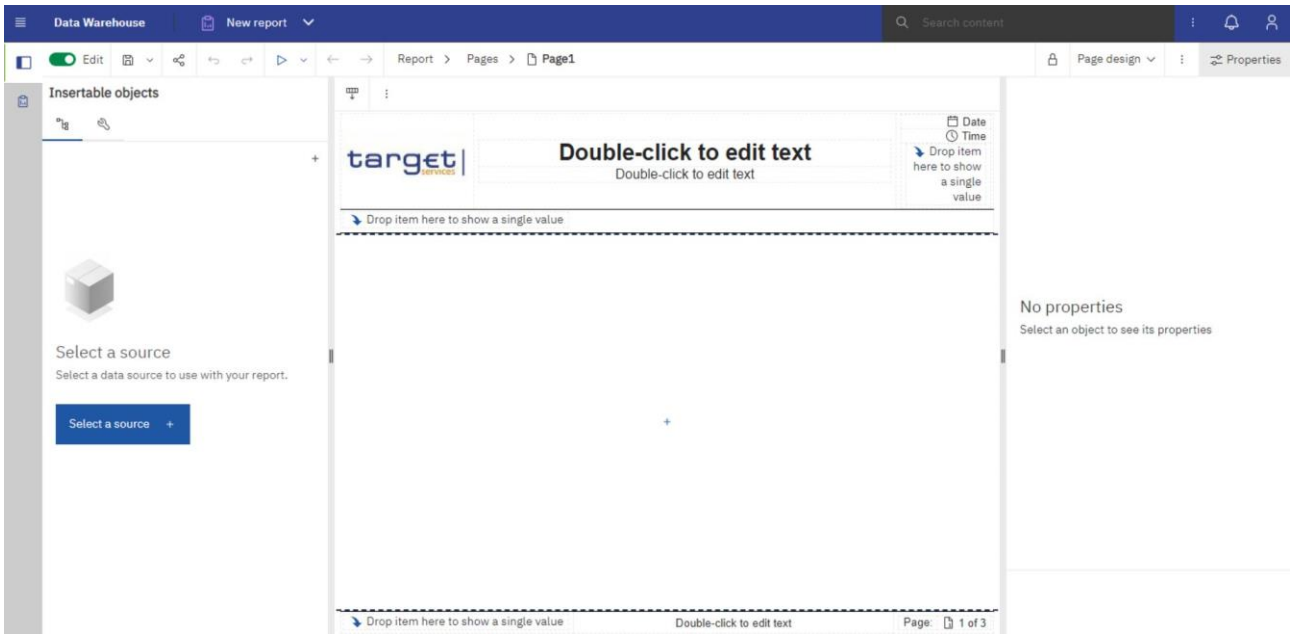
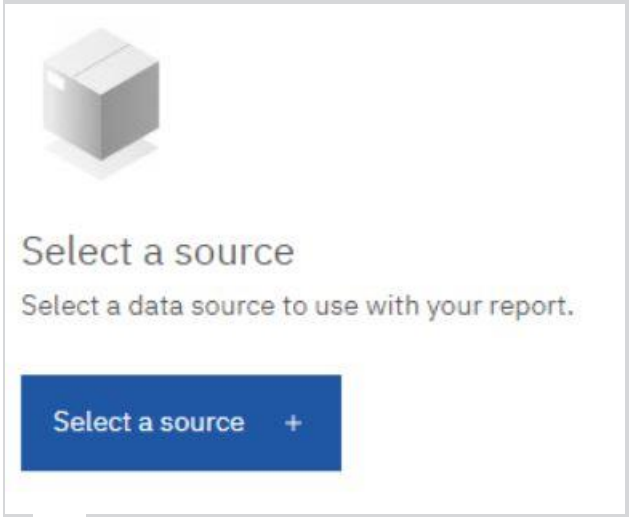
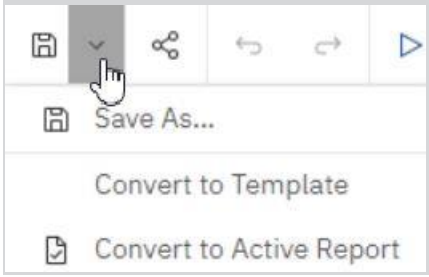
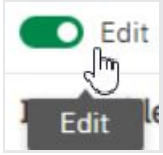


Figure 453 - The user interface- Creating a report

Reporting icon	Description
	Navigation menu
	Data source
 or	Data items The first Symbol is only visible if you did not select a source. Than you can select the source you need from the team content.
	Toolbox
	Save as Convert to Template Convert to Active Report
	Toggle between editing the report and viewing the report. **Tip:** These two states are referred to as edit mode and view mode.
	Undo last action you made to the report
	Redo the last change you made to the report

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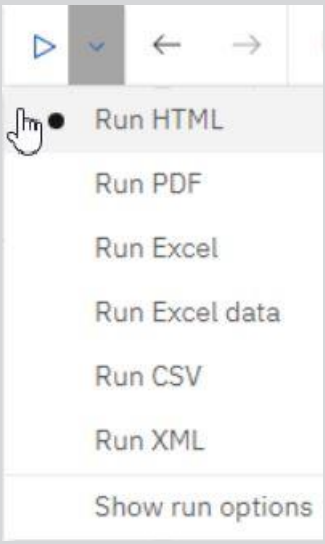
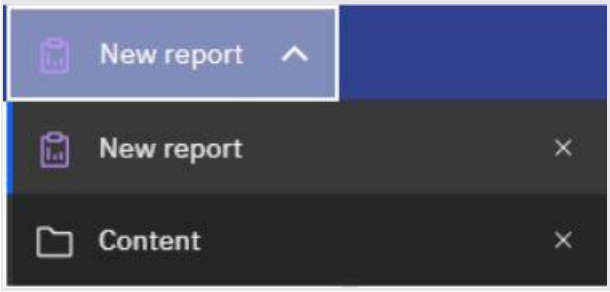
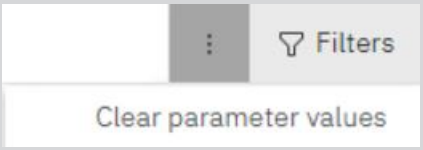
	Specify run options for the report and run the report. Run options include output format, orientation of the report, how much data to return, language, rows per page, accessibility features, bidirectional support and performance details. Appears only in edit mode.
	Run the report using the current run options. The data is refreshed (database re queried) only if you change the output format from the last time you ran the report. To change the output format, click the down arrow. Appears only in view mode.
	Refresh the report using the same prompt values. Appears only in view mode. **Note:** To ensure that the data is refreshed, disable the “Use local cache” property in the properties for the query.
	Switch between the Welcome page and other views that you have open in the DWH GUI.
	Parameter values stored by the DWH server include sign-on, validation, and prompt information. For example, if you define two data source connections in the DWH portal that point to the same data source, you are prompted to choose one when you run a report. This information is stored so that you are not prompted each time you run the report.
	Toggle between locking and unlocking objects on the canvas. To manipulate the contents of some objects, you must first unlock the object. For example, you have a list that contains the column “**Product Name**”. You want to insert a graphic inside the “**Product Name**” column to show

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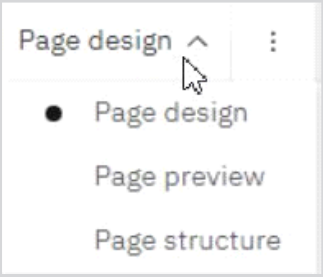
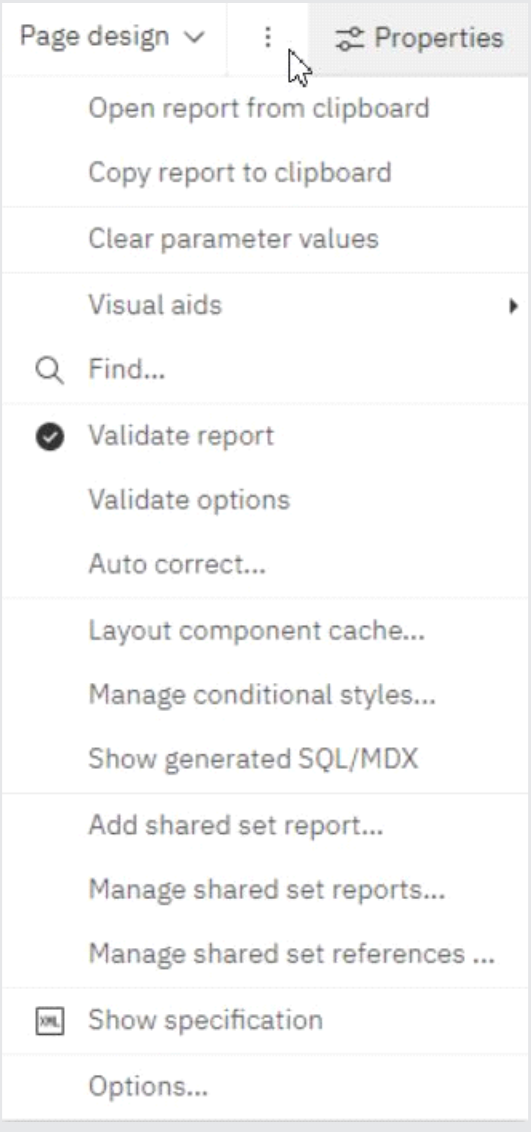
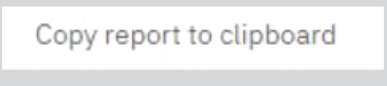
	an image of each product. Unlock the list to insert the image object inside a list column.
	Switch between page design, page preview, or page structure view.
	When you click on the "**More**" icon ( ) the following options are available to choose: - Open report from clipboard - Copy report to clipboard - Visual aids - Find... - Validate report - Validate options - Auto correct - Layout component cache - Manage conditional styles - Show generated SQL/MDX - Add shared set report - Manage Shared Set Reports - Manage Shared Set References - Show specification - Options...
	You can copy a report specification to the clipboard so you can open it from the clipboard later.

Open report from clipboard	You can open a report specification that was previously copied to the clipboard. This is useful for importing an XML report specification from outside the DWH environment.
Visual aids	Visual aids include options to help you when you are designing reports in the layout.
Find...	You can quickly locate specific objects in a report by using “Find”.
Validate report	Validate your report to ensure that it contains no errors.
Validate options	If you require more details from the validation process.
Auto correct...	If you encounter validation errors and want to identify incorrect objects in your report
Layout component cache...	In the layout component cache you can see which template (report) is used. In case there is a change in the template (report) you can see where the source of the change is.
Manage conditional styles...	You can view, modify, or delete the conditional styles that are applied to your report. You can also define a new conditional style.
Show generated SQL/MDX	View the SQL or MDX for the entire report.
Show specification	A report specification is an XML file that you can view.
Options...	Please see Chapter “**Options in Reporting**” for detailed information.
Properties	Toggle between showing and hiding the Properties pane for the active object. The properties that are displayed are different, depending on the object.

Table 144 - The user interface - Report icons and functions

DWH - Reporting has three views in which you can author reports: Page design view, Page preview view, and Page structure view.

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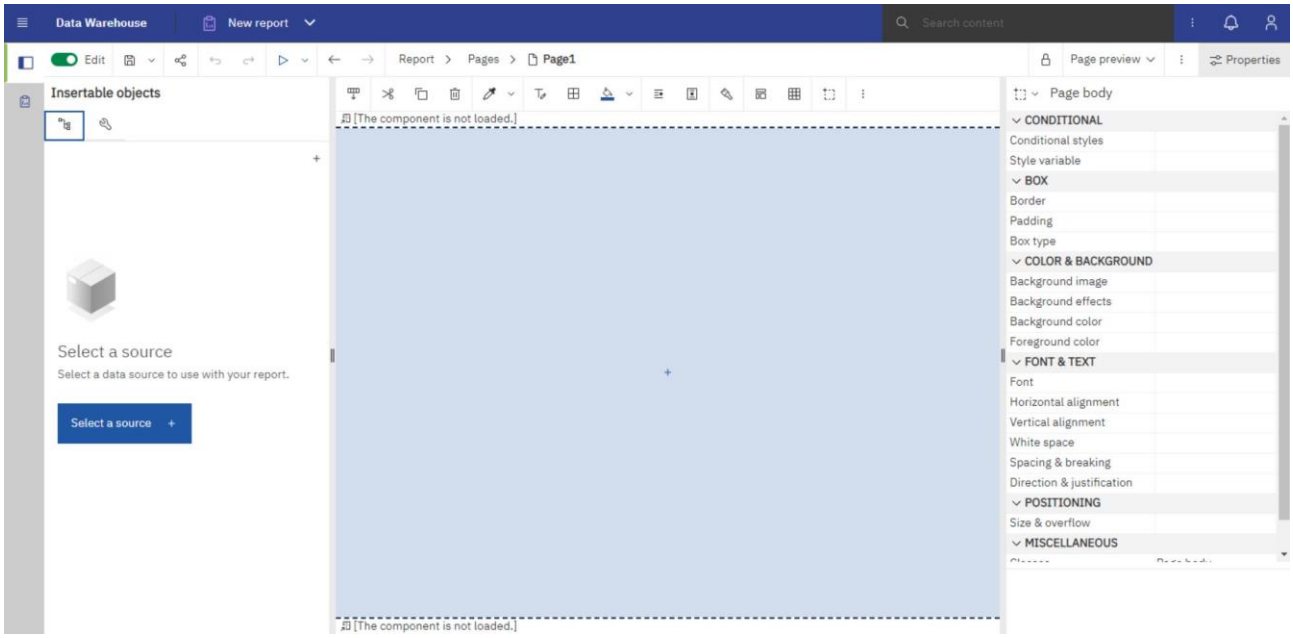

Figure 454 - The user interface - Page Preview

You choose a report authoring view by selecting one of them on the application bar. Different options are available in each view, so you often need to use all views. For example, you must use the "**Page design**" and "**Page structure**" views to remove sections in relational reporting.

Page design view:

The default view in DWH - Reporting. In this view, you can see what your report will look like after you run it.

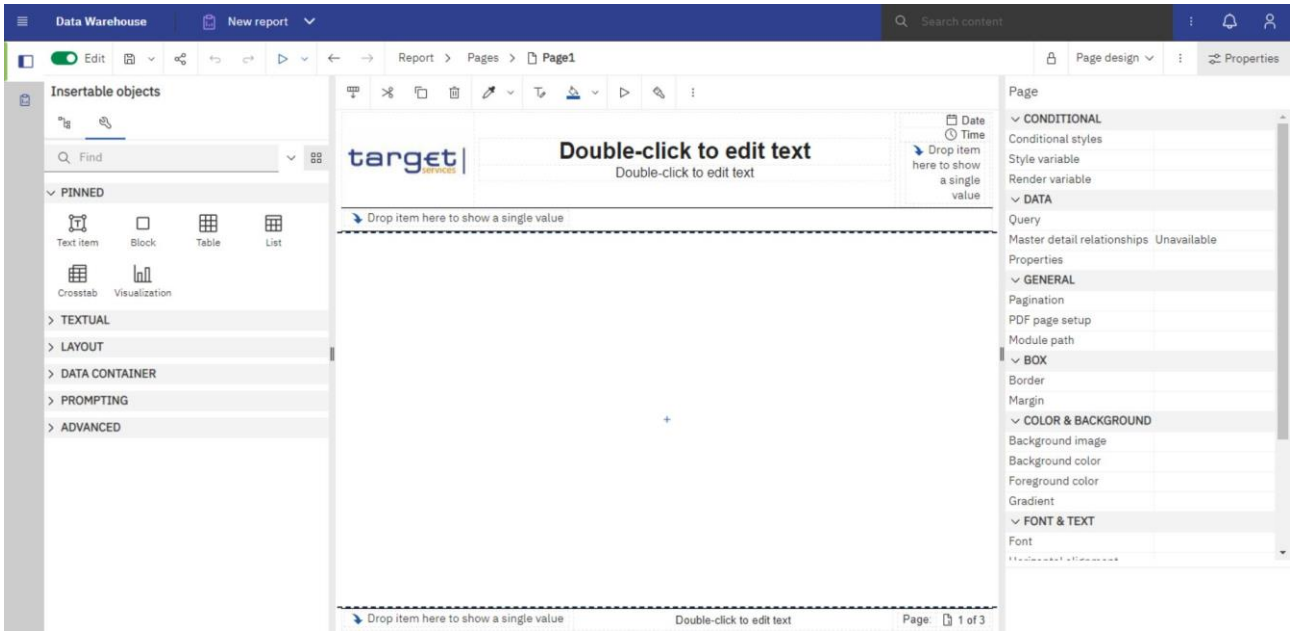

Figure 455 - The user interface - Page design view

Page preview view:

Shows you the current report page with live data. In this view, you can edit the report, such as inserting data items into empty data containers.

When you are authoring an DWH Active Report, the “**Page preview**” view shows you live data as you format the report.

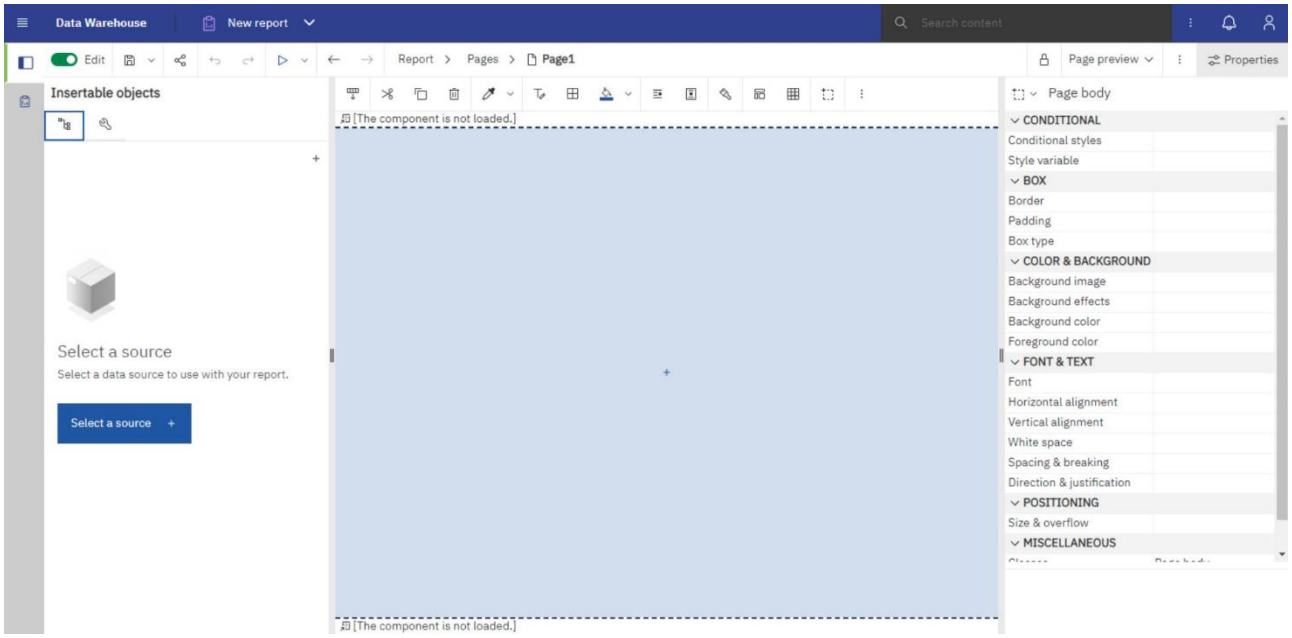

Figure 456 - The user interface - Page structure preview

Here it looks the same as the design view, but you cannot add objects (plus symbol) here.

Page structure view:

Displays an overview of all of the report objects in your report in a tree structure, which is organized by page.

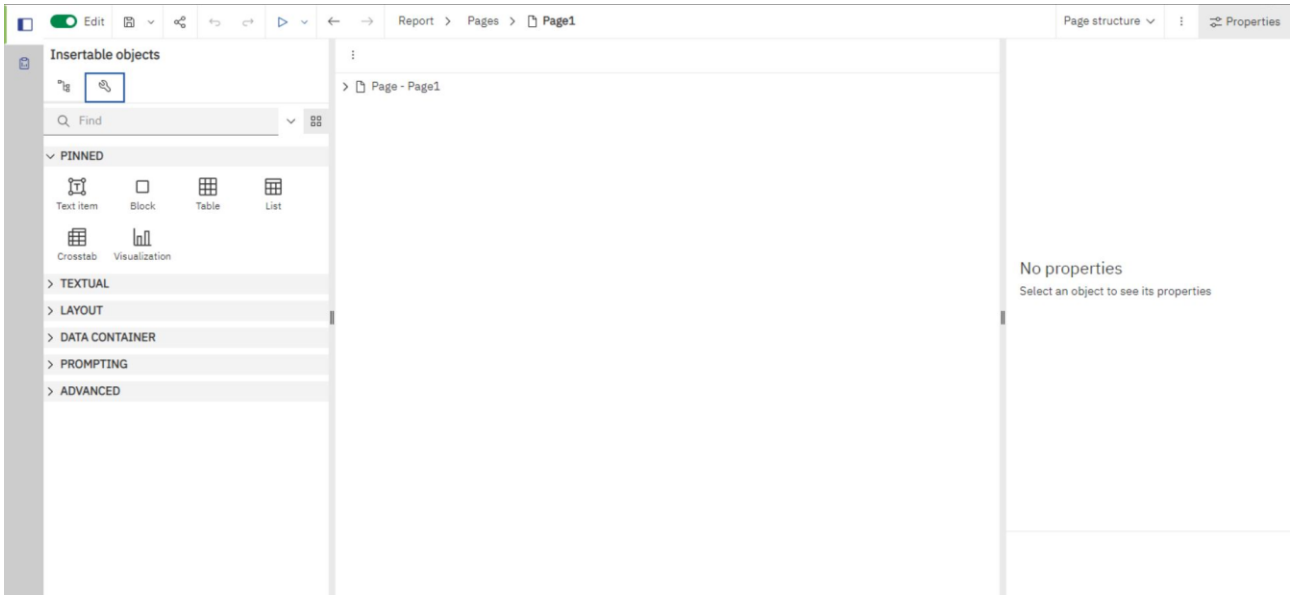

Figure 457 - The user interface - Page structure view

Create a report [648] details the process of report creation further by providing a step-by-step guidance.

8.1.1 On-demand toolbar

The on-demand toolbar (formerly known as the report object toolbar) contains the actions you can perform on an object.

You can disable the on-demand toolbar.

The following list shows the actions that are available from the on-demand toolbar. The actions that appear depend on the type of object that is active on the canvas:

Pin and Unpin

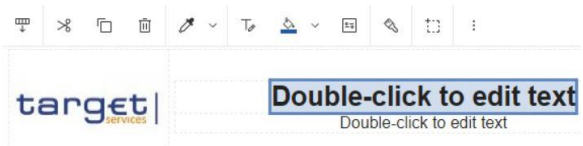

Figure 458 - On-demand toolbar - Pin and Unpin

When the on-demand toolbar is pinned, it stays at the upper left corner of the canvas, regardless of which object is active.

When it is unpinned, it floats near the object that is active.

You can also control the display of the on-demand toolbar by setting the “**Show on demand toolbar on right-click**” option

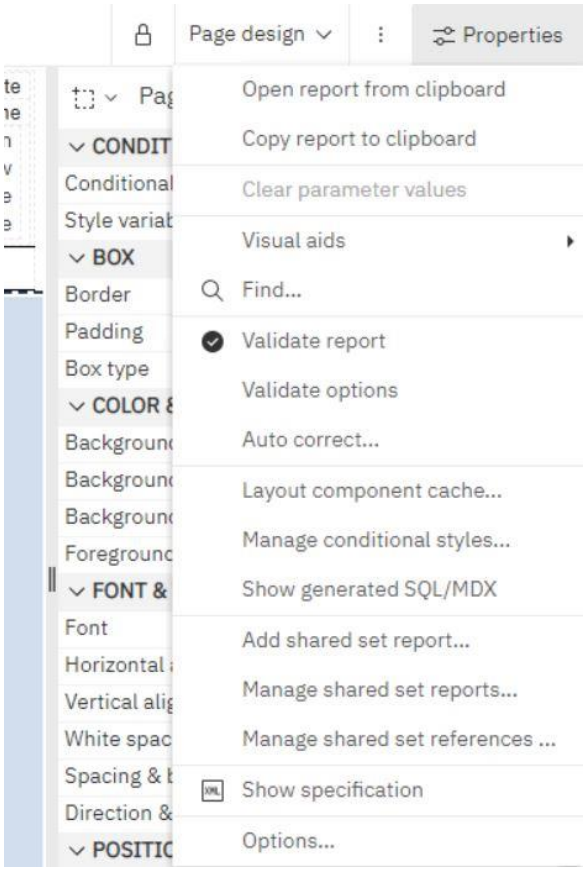

Figure 459 - On-demand toolbar - More icon

Click the “**More**” icon ( ).

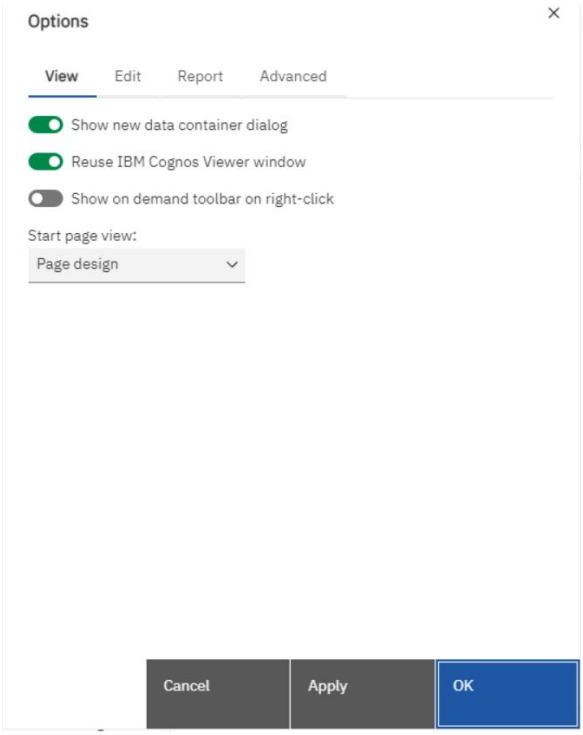

Figure 460 - On-demand toolbar - More icon - Options

When the "**Show on demand toolbar on right-click**" check box is selected, the on-demand toolbar displays when you right-click an object. When cleared, the on-demand toolbar displays when you click an object. If the on-demand toolbar is pinned, it appears at the top left corner of the canvas, regardless of the setting of the "**Show on demand toolbar on right-click**" option.

"Cut" ( ), "Copy" ( ), "Paste" ( ) and "Delete" ( )

Cut, copy, paste, or delete an object

"Filters" ( )

Click the "**Filters**" icon to add, edit, or delete filters or add filter text to the visualization

"Swap rows and columns" ( )

In a table, switch the row and columns around

You can only swap columns and rows in a crosstab or in a Visualization from the Visualization gallery window "**Charts**"

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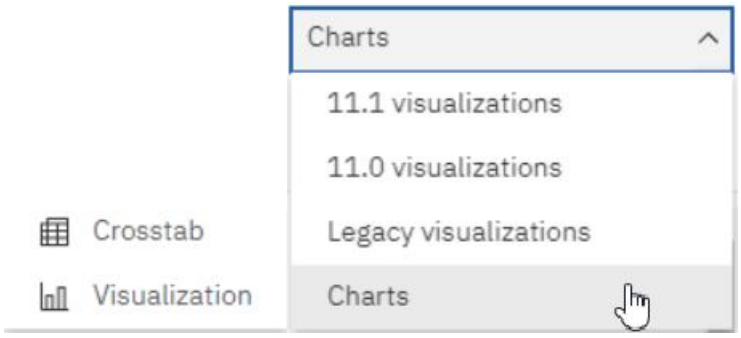

“Apply style” ( )

Apply a custom or default style

“Font” ( )

Edit the font for an object

“Border” ( )

Apply a border. You can choose the style, width, and colour.

“Background colour” ( )

Apply a background colour

“Horizontal alignment” ( )

Change the horizontal alignment

“Vertical alignment” ( )

Change the vertical alignment

“Style current selection” ( )

Create and apply a custom style to the selected object

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“Apply layout” ( )

Select a different layout for the report

“Insert table” ( )

Insert a table

“Select ancestor” ( )

Select the layout component that is the ancestor of our current selection.

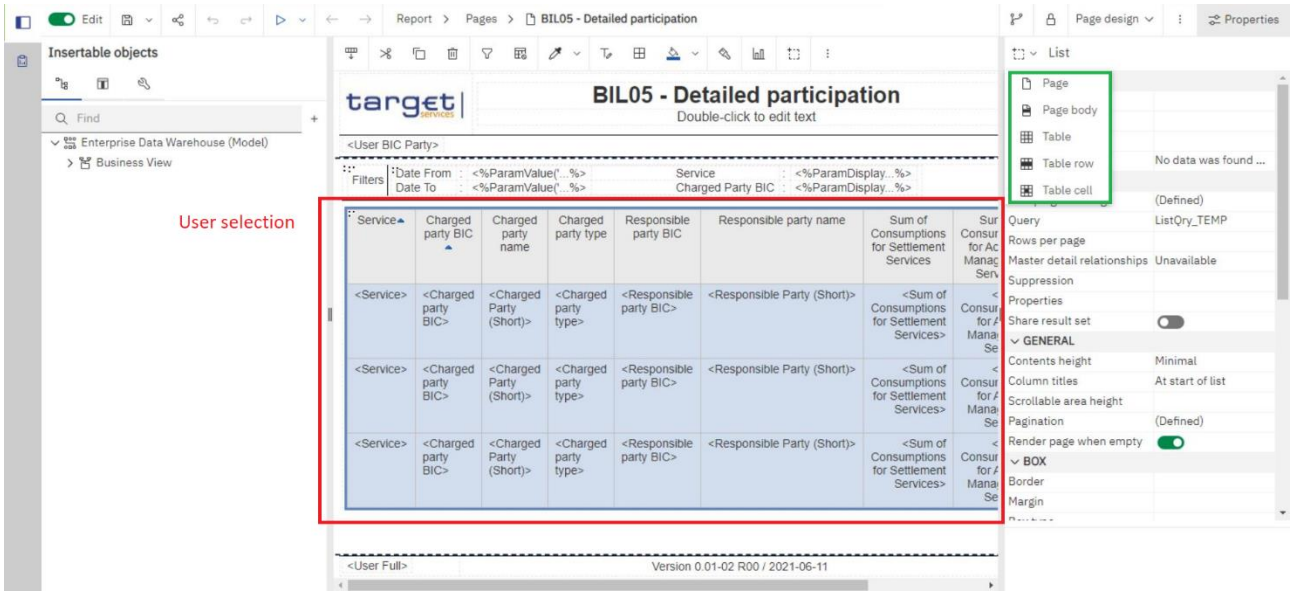

Figure 461 - On-demand toolbar - Select ancestor

“More” ( )

Other actions that vary, depending on the type of object that is active. For example, for a visualization, you can change the headers and footers. For a table, you can apply a table style. For a table cell, you can build a prompt page.

8.1.2 Sources tab

The “**Sources**” tab ( ) contains items from the package selected for the report, such as data items and calculations. When you drag an item to the canvas, the visualization recommender chooses a visualization to represent the data. If you do not like the visualization, you can change it.

Search through the sources by typing a value in the “**Find**” field (Find). As you type, the items that match your search string appear in the tab.

All the items in the “**Sources**” tab ( ) have an icon that describes the item purpose.

	Package
	Namespace
	Folder
	Dimension
	Hierarchy
	Level
	Member
	Query Subject
abc	Character
	Measure
#	Integer
	Date / Time

Figure 462 - Sources tab - Sources items

8.1.3 Data items tab

The “**Data Items**” tab ( ) shows the queries in the report.

8.1.4 Toolbox bar

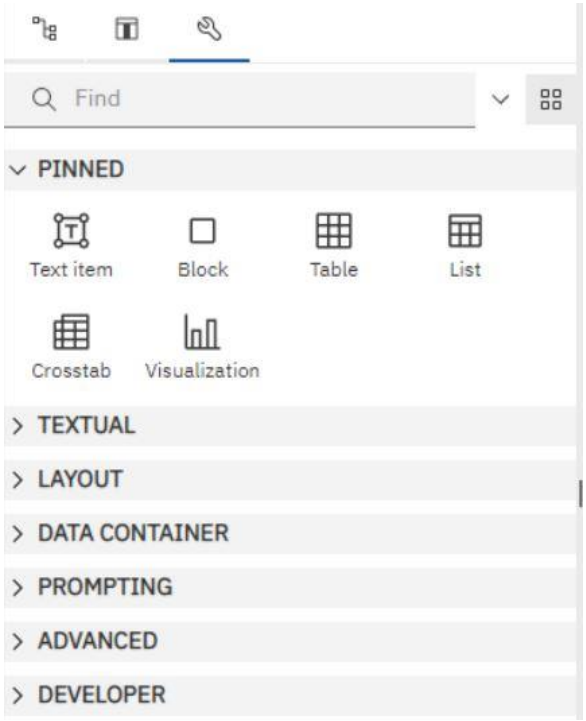

Figure 463 - Toolbox bar

The “**Toolbox**” tab ( ) contains various objects that you can add to a report, such as visualizations, text, layout objects, and prompts. You can also add advanced objects such as custom controls and hyperlinks. Depending on the type of object, you can drag it from the Toolbox to the canvas or double-click it to open a window in which you define values for the object. When the object is placed on the canvas, its properties are displayed in the “**Properties Pane**”.

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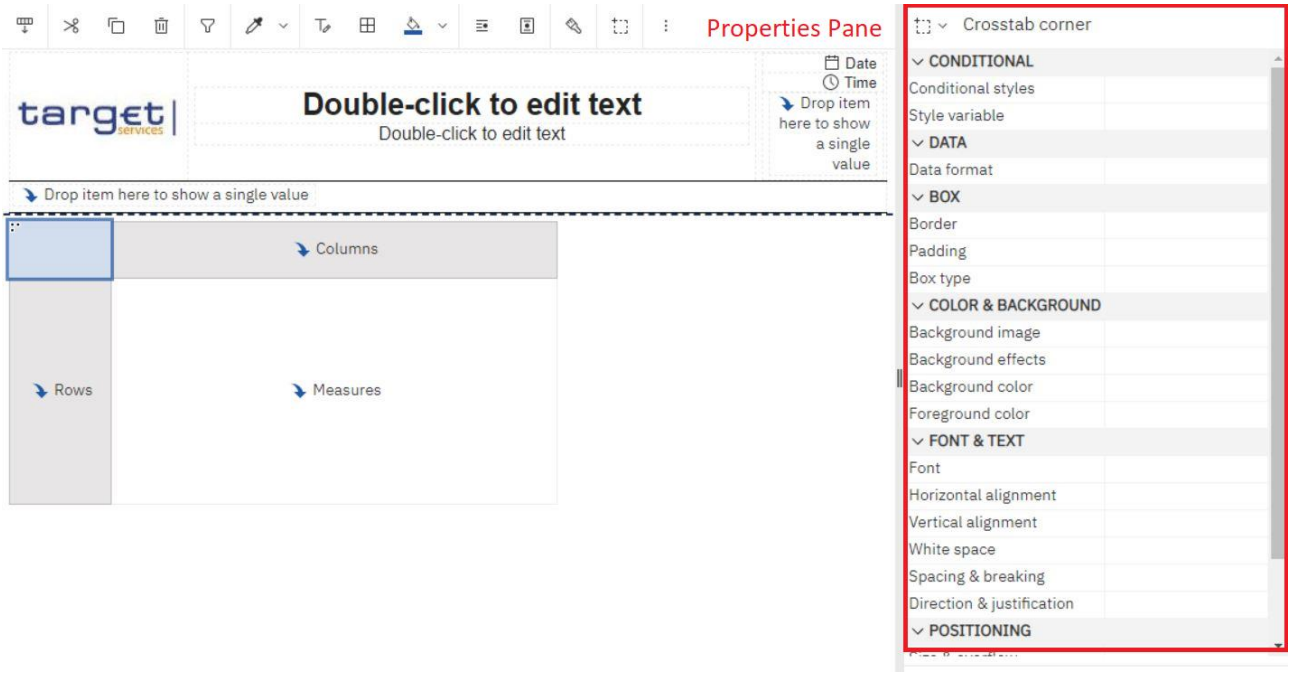

Figure 464 - Toolbox bar - Properties Pane

Search through the objects by typing a value in the "**Find**" field (Find). As you type, the items that match your search string appear in the tab.

Toolbox items are organized into groups. Click ( ) to show all of the items available in each group or ( ) to collapse the groups. Click ( ) to toggle between a list view or a tree view of the items in the groups.

Add items that you use often to the **PINNED** group. Items in the **PINNED** group appear in the "**Add circular menu**" icon ( ) on the canvas when you create a new report. To add a toolbox item to the "**PINNED**" group, right-click the item and click "**Add to pinned toolbox items**" (Add to pinned toolbox items). To remove an item from the "**PINNED**" group, right-click the item and click on "**Remove from pinned toolbox items**" (Remove from pinned toolbox items).

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8.1.5 Report overview pane

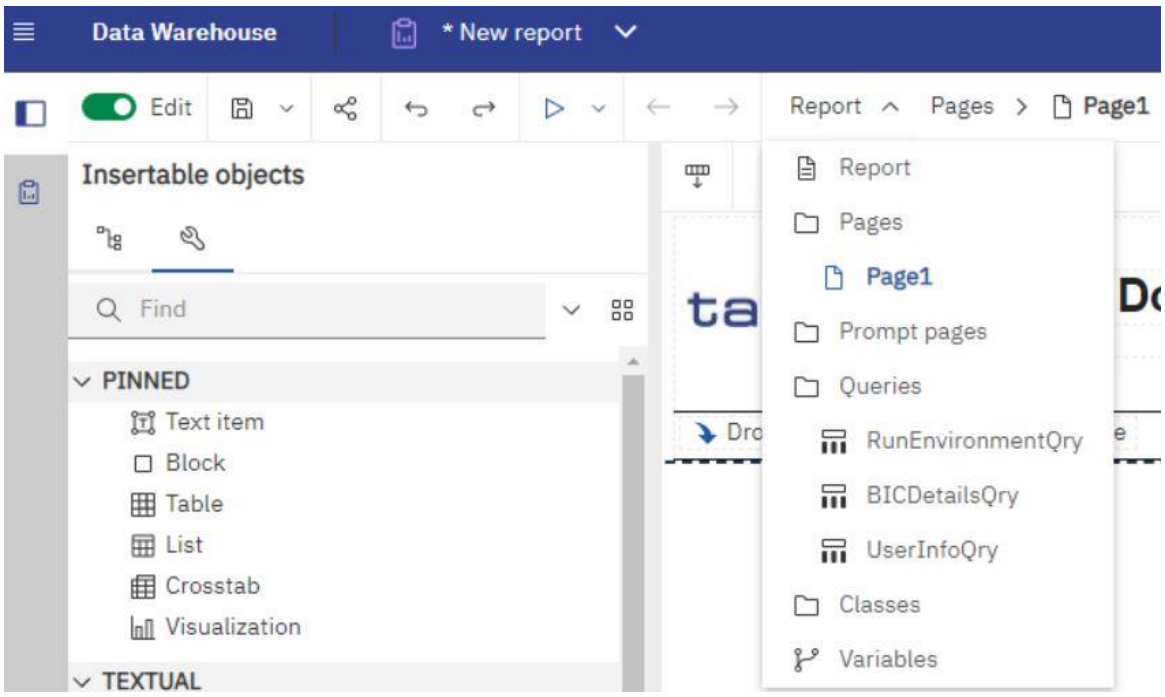


Figure 465 - Report overview pane

Click Report in the navigation drop-down to see the following information:

1. A description of the report
2. Data sources used in the report
3. The parameters used in the report
4. Number of report objects
5. Number of page objects

Click “**Validate report**” ( ) to validate the report specification.

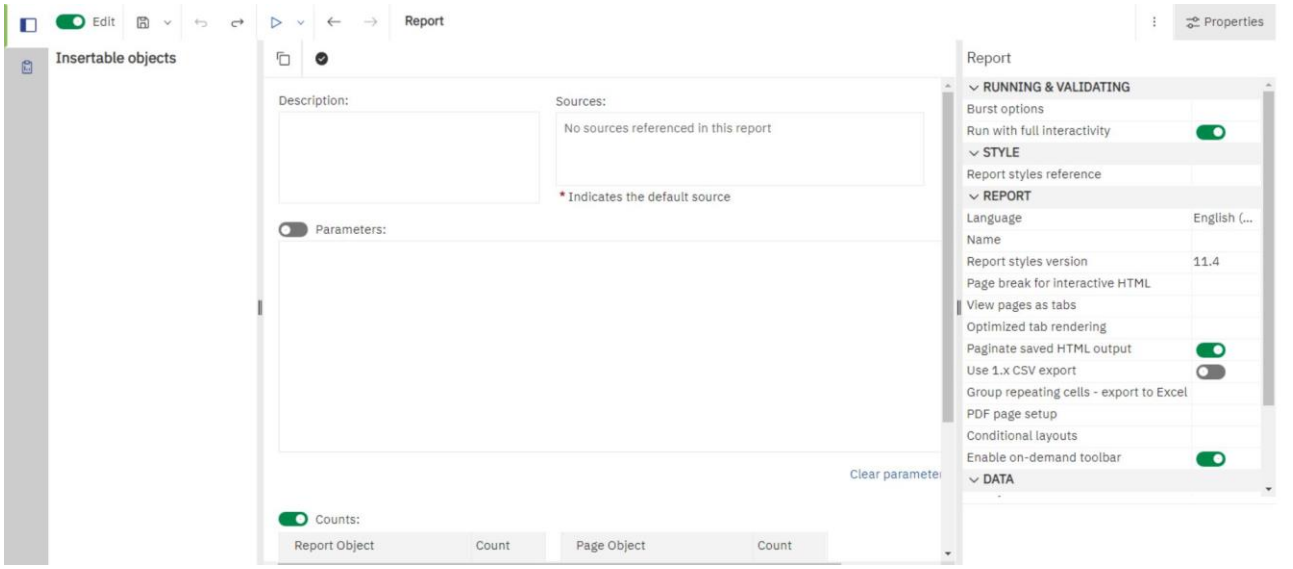


Figure 466 - Report overview pane - Validate report

8.1.6 Pages pane

Click on “**Pages**” (Pages) to view or create new report pages and prompt pages, and to create and modify classes. You can insert a page, a set of pages, or a reference to a report from the pages pane.

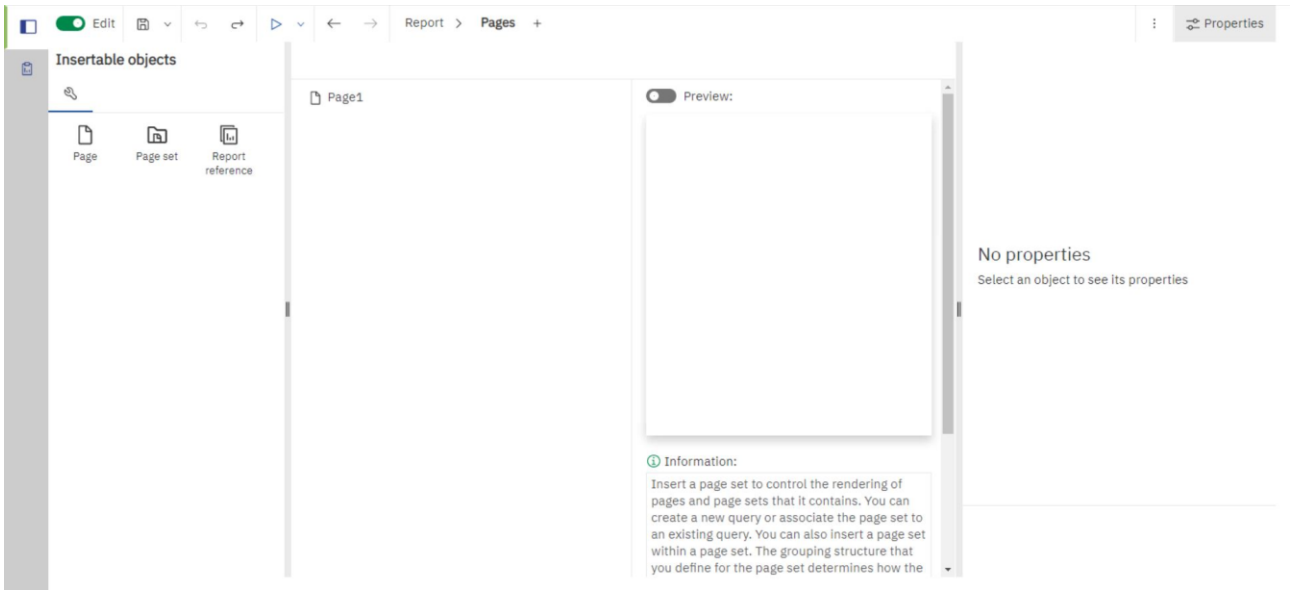
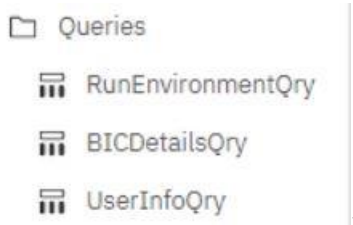


Figure 467 - Pages pane

8.1.7 Queries pane



Click on ( ) to create or modify queries in relational reporting or dimensional reporting and to perform complex tasks, such as defining joins, unions, intersects, excepts, and writing SQL and MDX statements.

Click a specific query to add a calculation, detail or summary filter, or a set expression.

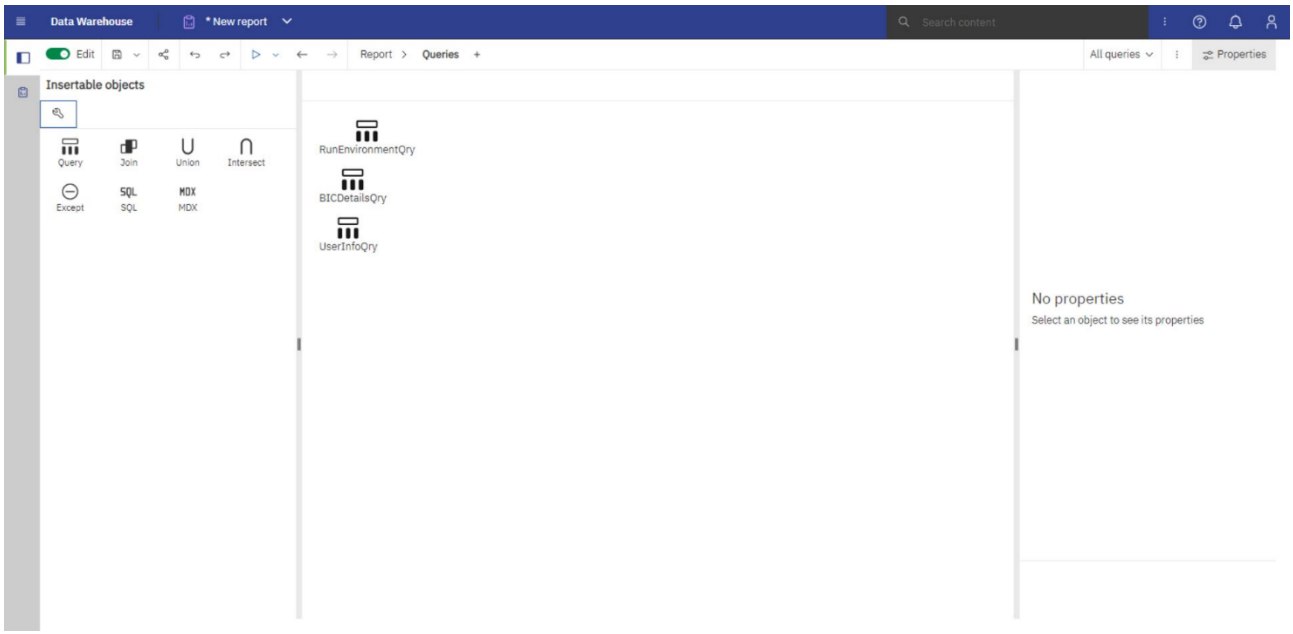


Figure 468 - Queries pane

8.1.8 Classes pane

Click on “**Classes**” (Classes) to define a style. For example, you can define a style for the title of an axis. You can then apply the style to all axis titles in the report.

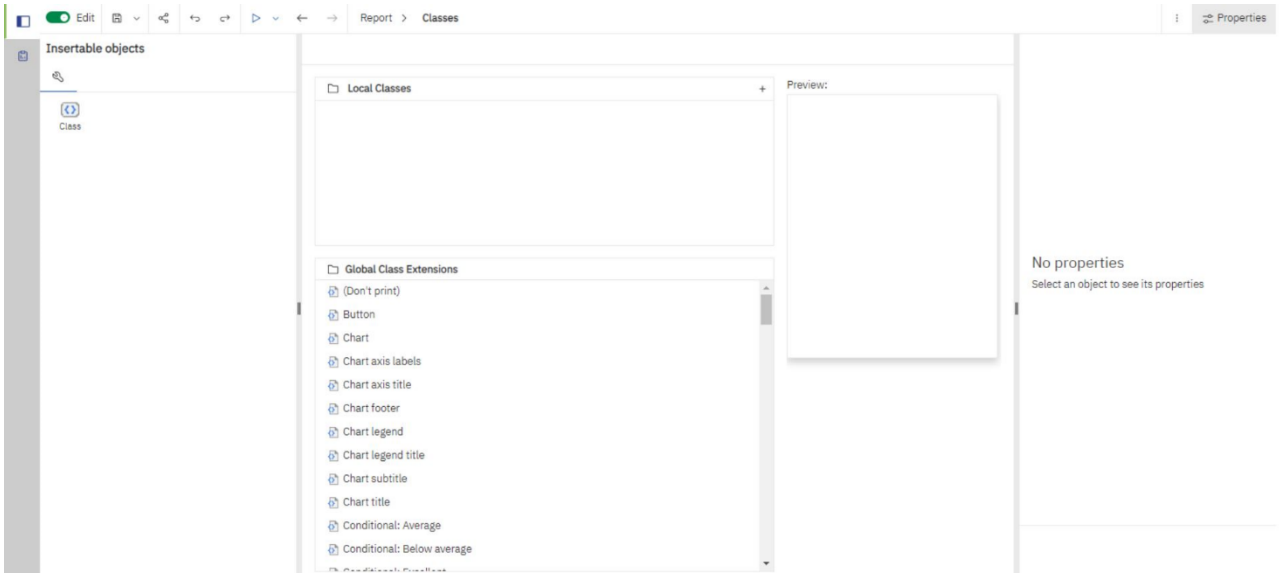


Figure 469 - Classes pane

8.1.9 Variables pane

Click on "**Variables**" (Variables) to add a variable that has values in a different language, values as strings, and values in Boolean.

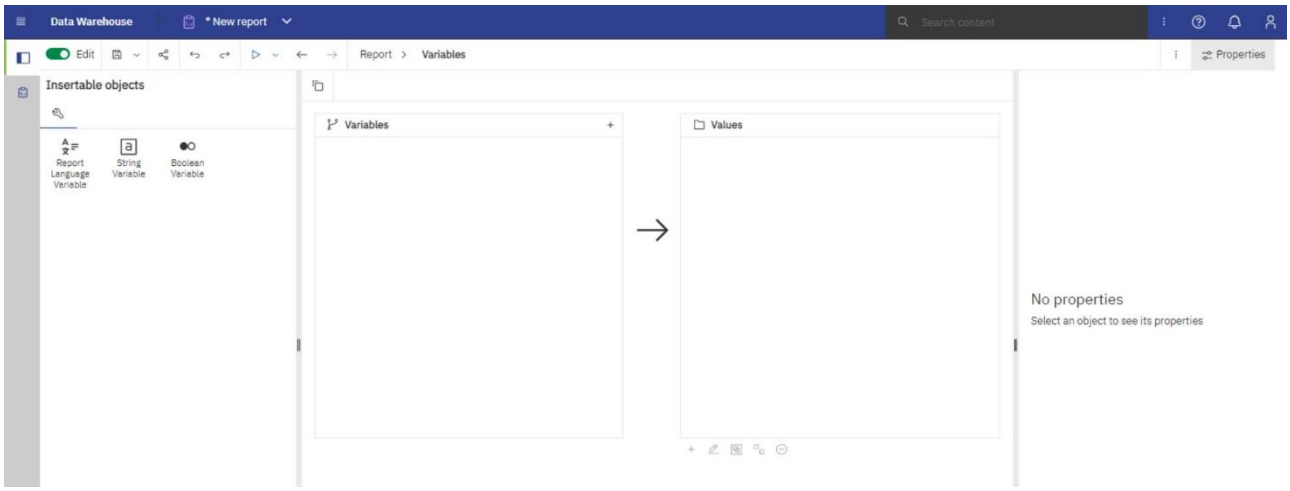


Figure 470 - Variables pane

8.1.10 Filters pane

The Filters pane is ( ) available when the user runs the report in HTML. It displays all filters that are created by the report consumer on the report output. When you click a filter in this pane, all data containers that use the selected filter are automatically highlighted in the report. When a data container is selected, the

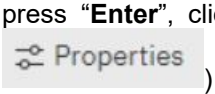
filter pane is updated instantly to display only filters that are applied to the selected data container. You can edit or delete the filter directly in the pane.

You can resize the filter pane, and pin or unpin the pane depending on the screen resolution. Report authors can also make an authored filter visible to report consumers so that they can interact with it in this pane.

The pane cannot be used to create or view low-level filter expressions that are manually created in the expression editor. By default, interactive filtering is disabled for filters that were created in earlier versions of the DWH software.

This feature is not available for active reports.

8.1.11 Properties pane

The properties pane lists the properties that you can set for an object in a report or for the entire report. The properties that are displayed vary depending on the type of object. When you specify a value for a property, press "**Enter**", click another property, or save the report to ensure that the value is saved. Click on (

) to show or hide the properties pane.

At the "**Report**" level, you can set the following properties:

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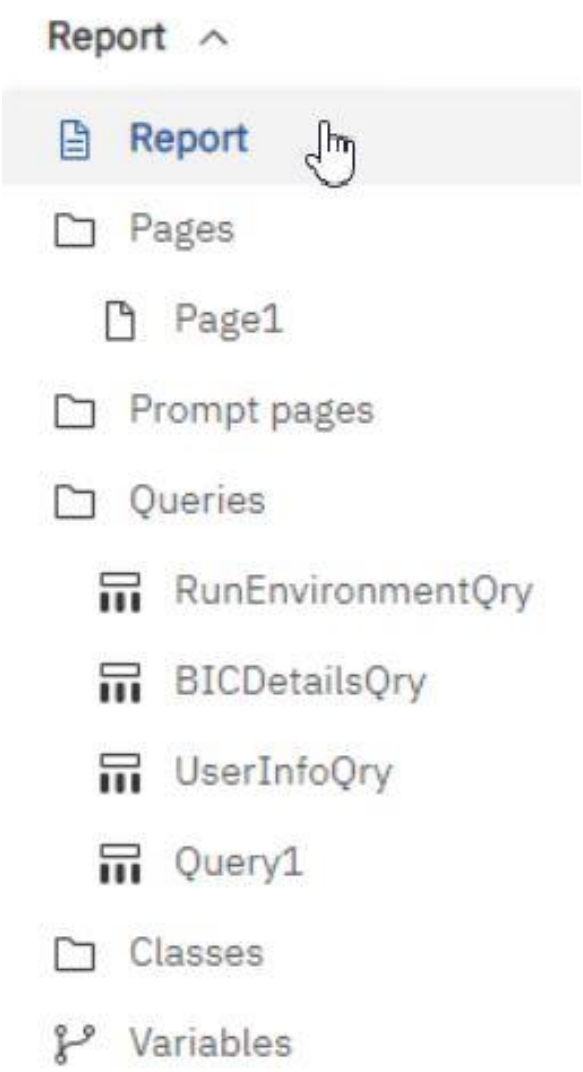

Figure 471 - Properties pane - Report level

Burst options

Specifies the data item on which to burst reports. Specify recipients.

Bursting a report is running a report and sending the report to recipients, dividing the results according to which results they have access.

By clicking on the right side of the "**Burst options**" property, the following window pops out

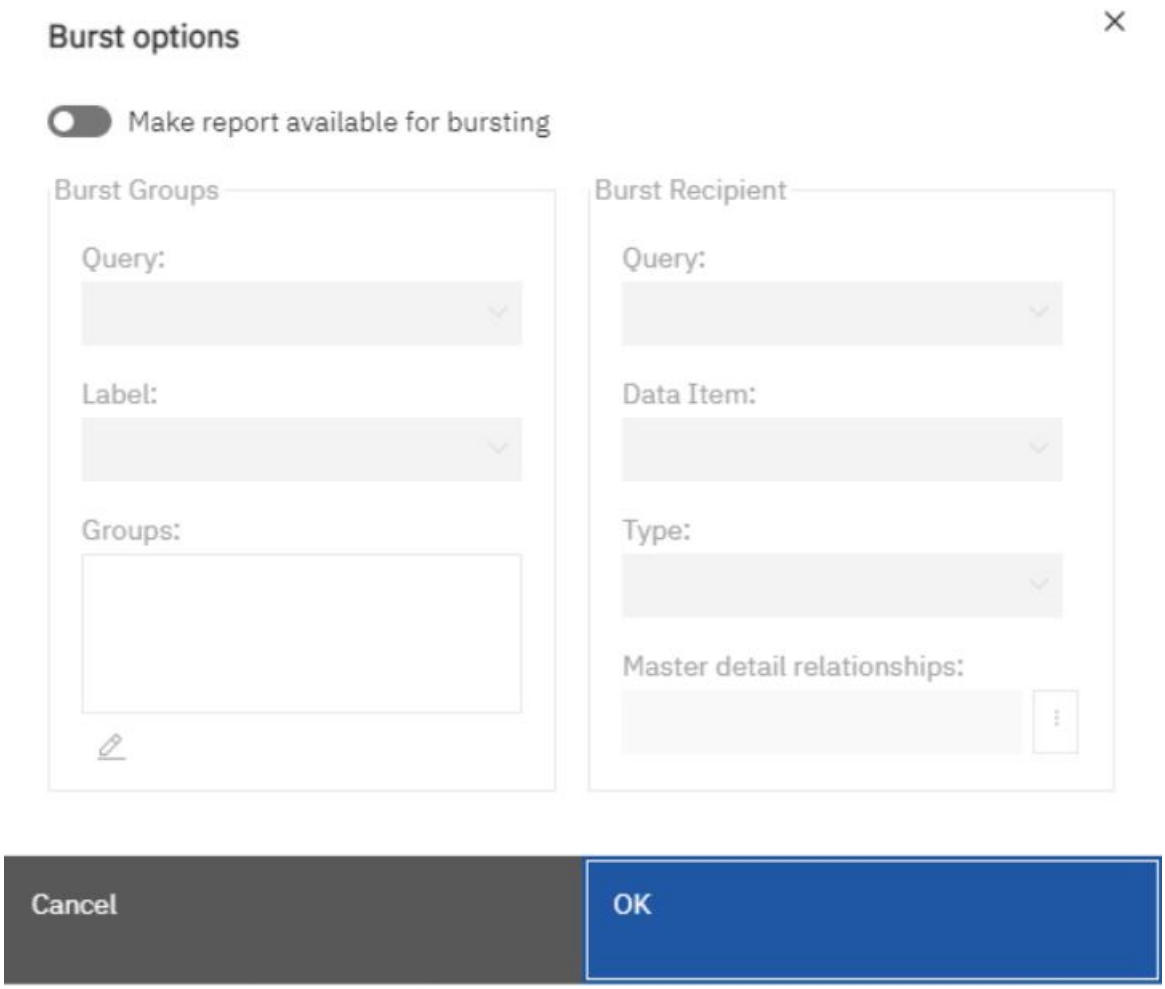

Figure 472 - Properties pane - Report level – Burst options (2)

By clicking on the right side, or dragging the marble to the right of the checkbox ( ) at the left of "**Make report available for bursting**" the user is presented with the bursting properties:

Burst Groups: in the **Query** box you can select the query that contains the data item on which to burst

Label: you can select the data item with which to label each burst report.

By clicking on the edit button ( ), you can drag from the "**Data items**" the data item on which to burst to the Groups folder and then click on "**OK**".

Under **Burst Recipient**, in the **Query** box, you can select the query that contains the data item to be used as the distribution list.

In the **Data Item** box, you can select the data item that contains the recipients.

In the **Type** box, choose the method to burst the report:

Directory entries: you can distribute reports to folders that recipients can access in the Cognos Analytics portal.

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Run with full interactivity

Enable users to change the report

By default, reports that are created are set to run with full interactivity

Style

Apply local and global styles from another report

Language

Specifies the language package

Name

Name of the report, specified when you save it

Report styles

Specifies the product classes used to format objects. You can select between1.x, 8.x, 10.x, 11.x, 11.4 and 11.5.

Page break for interactive HTML

For reports with multiple data containers, specifies whether to render the default number of rows of each data container on each page.

View pages as tabs

In HTML output, specifies whether to show each report page in its own tab, and the location where the tabs appear in the browser.

Paginate saved HTML output

Specifies whether to create multiple pages or one scrollable page.

Use 1.x CSV export

Not applicable.

Group repeating cells - export to Excel

When you produce reports in Excel format, you can choose to group repeating cells into a single merged cell.

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PDF page setup

Sets PDF page options

Conditional layouts

Add layouts to a report based on conditions

Data formats

Specifies the default data format properties for each type of data

Package-based drill-through source

Enable or disable the report to be used as the source during a package drill-through. This property can also be set in the drill through definitions property.

Dynamic filtering

When the report is a drill-through target, specifies whether to apply more filtering when names from the context in the source report match names of items in the target report. This property can also be set in the drill through definitions property.

For other types of objects, like containers, you can set conditional styles, queries, pagination, margins, colour and background, font and text, and many other properties.

8.2 Report Layout, queries and objects

All reports have two components: a layout component that defines the report appearance and a query component that defines report data. Understanding these components will help you design effective reports.

8.2.1 Layout

A layout is a set of pages that defines the appearance and formatting of a report. When you design the layout of a report, you:

- present the data in a meaningful way by using lists, crosstabs, charts, and maps
- add formatting, such as borders, colour, images, and page numbers
- specify how the data flows from one page to the next

When you create a report, consider the following structural elements:

- Define the page structure.

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Determine what goes into the page header, body, and footer. The page header contains information that appears at the top of each page. The page body contains information that starts on the first instance of the page. If there is too much data to fit on a single page, it continues across all instances of the page. The page footer contains information that appears at the bottom of each page.

- Identify horizontal bands of information.

  Look for natural bands of information running across the page. Each of these bands typically translates into a block.

- Identify vertical bands of information.

  In each horizontal band of information, look for bands that run up and down the page. Each of these bands typically translates into table cells.

- Decide which data frames to use to lay out the data.

  Choose a list, crosstab, chart, repeater, or text frame.

- Set properties at the highest level item possible.

  By setting properties at the highest level, you set them once instead of setting them for each child object. For example, if you want all text items in a report to appear in a specific font, set the font for the page.

  When setting properties for an object, click the “**Select ancestor**” icon ( ) in the Properties pane title bar to see the different levels available.

- Use padding and margins to create white space.

  Do not use fixed object sizing unless it is absolutely necessary. When you specify that an object has a fixed size, your layout becomes less flexible.

8.2.1.1 The Function of the page structure view

When you add objects to a report, you usually work in the layout. An alternative view of the report is avail-able. To view the report in a different way, select at the right of the top Page design and then click “**Page structure**”.

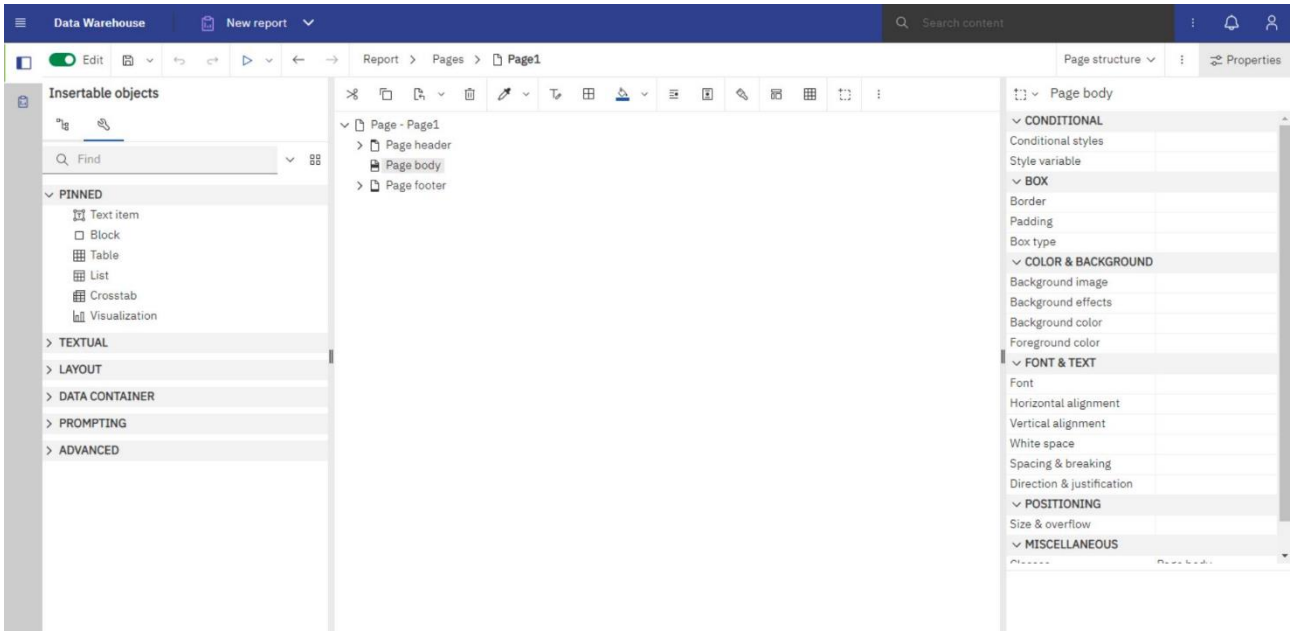

Figure 473 - The user interface - Report Layout, queries and objects - Layout - Page structure

Use the page structure view to view the entire contents of a report page in a tree structure. Using a tree structure is useful for locating the objects in a page and troubleshooting problems with nested objects.

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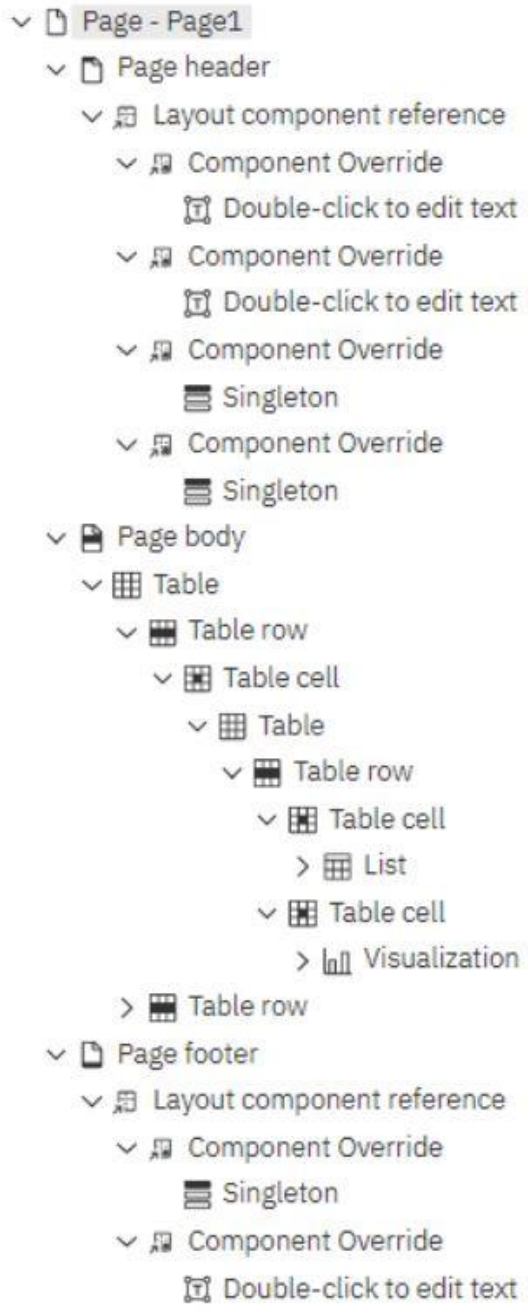

Figure 474 - The Function of the page structure view

Use the “**Page structure**” view:

- To quickly move objects from one area of a page to another. If you have a complex layout, it may be difficult to select, cut, and paste objects in the layout view. Objects are easier to locate in the “**Page structure**” view.
- When you want to modify object properties, you can navigate to the layout or in the “**Page structure**” view. To switch back to the report layout, select “**Page design**” at the right of the top.

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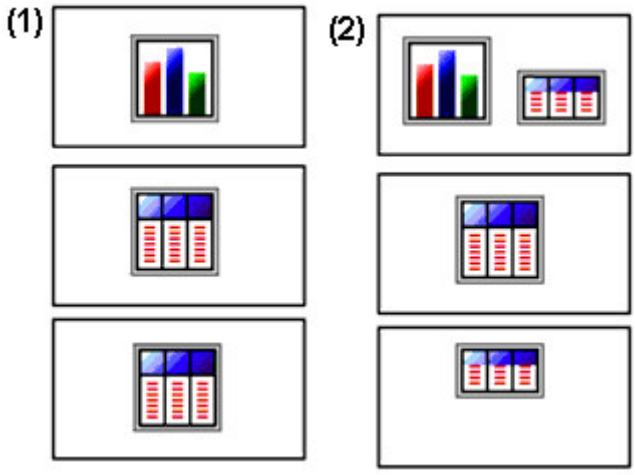
8.2.1.2 Pages

Pages are containers for the layout objects that you use to build a report. A page is made up of the following mandatory and optional components:

- page header (optional)
- page body (mandatory)
- page footer (optional)

When you run a report, the amount of data queried often exceeds one page. As a result, a page will repeat until all the data is shown. You have control over how data flows from one page to the next. For example, here are alternative representations of a report that contains a chart and a lengthy list.



1. The chart appears on its own page. The list begins on the next page and fills subsequent pages until all rows appear.

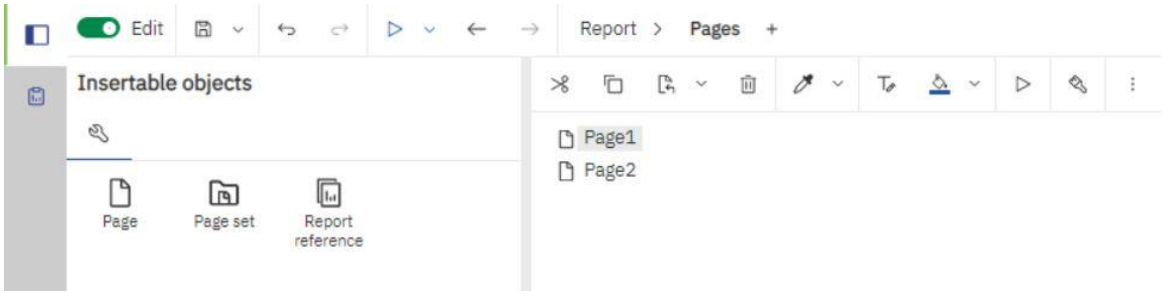


Figure 475 - Report Layout, queries and objects - Pages

It is necessarily to create two pages for this approach.

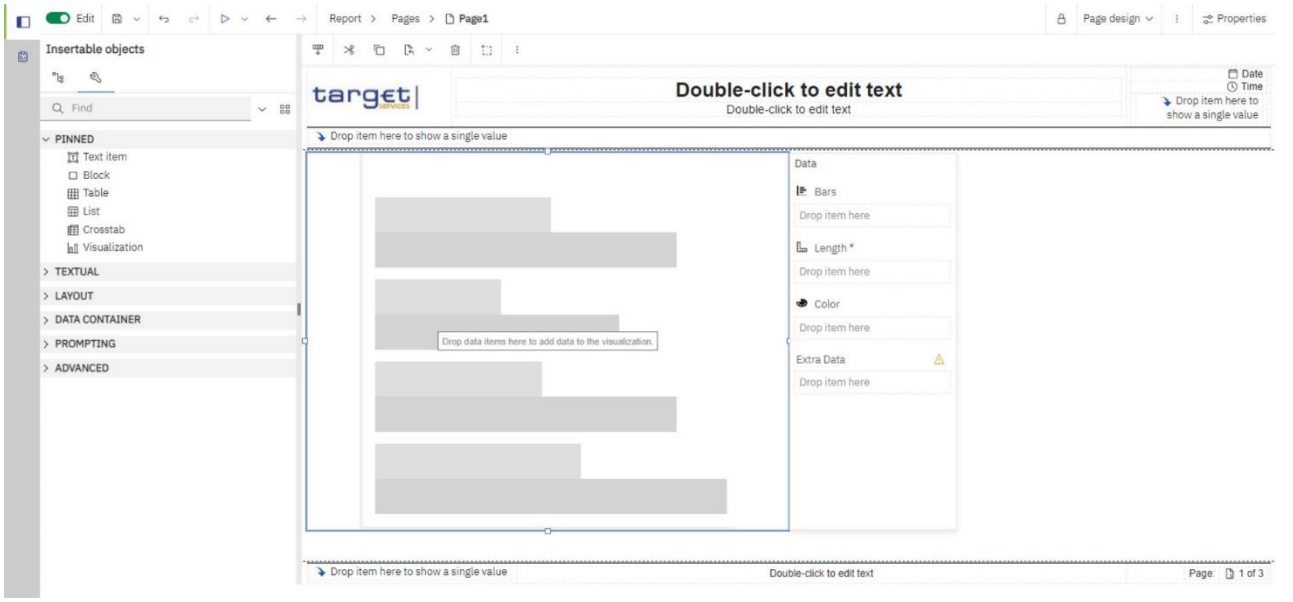


Figure 476 - Report Layout, queries and objects - Pages - First page

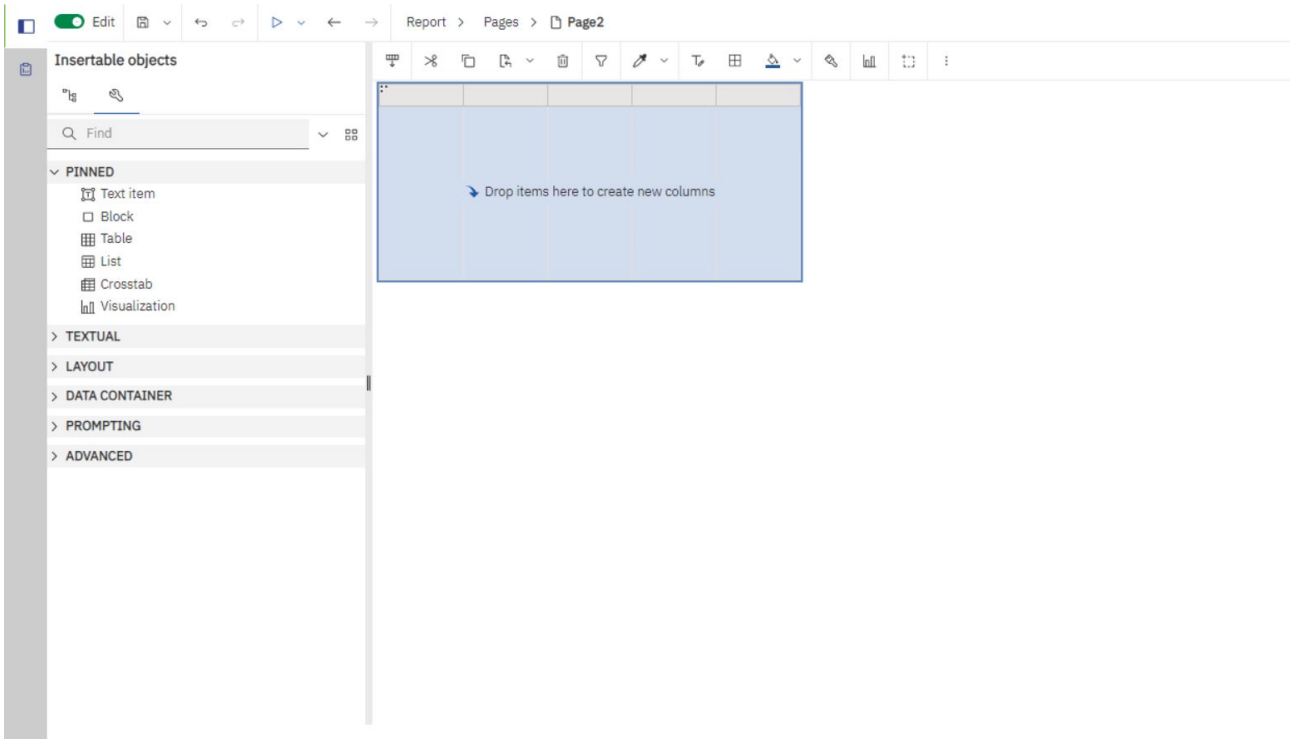


Figure 477 - Report Layout, queries and objects - Pages - Second page

2. The chart and the first few rows of the list appear on the first page. The rest of the data in the list appears on the subsequent pages.

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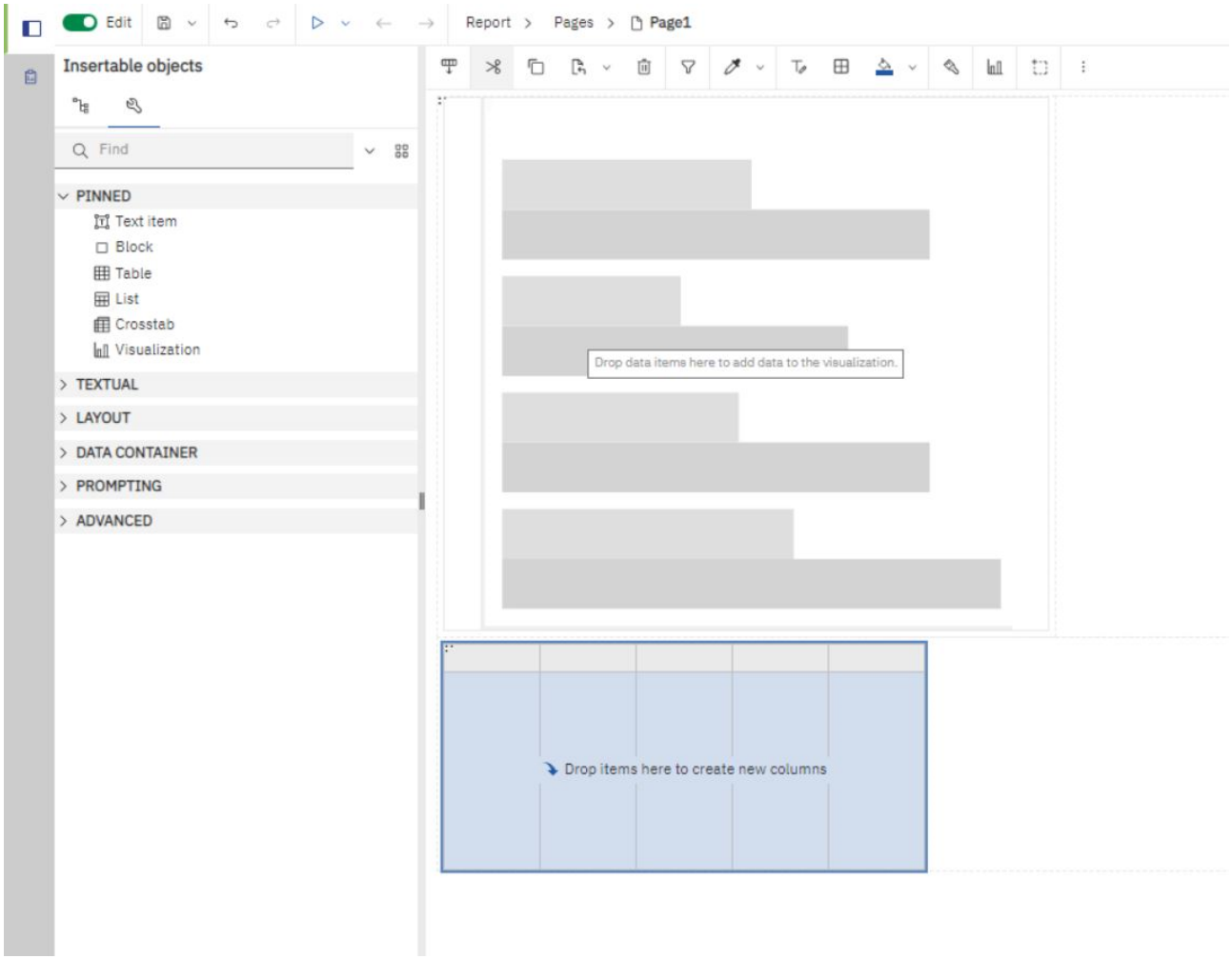

Figure 478 - Report Layout, queries and objects - Pages - Chart and first rows of the table on the first page

8.2.1.3 Guided Report Layout

Guided report layout helps you to create a report layout more quickly and dynamically by simplifying the process of adding objects to the canvas.

Here are some of the features of guided report layout:

- Visual indicators that show you where an object is going to be placed before you drop it on to the canvas.
- When you drag a measure on to the canvas, you get a summarized text item with a descriptive la-bel and formatting.
- When you drag a column that is not a measure on to the canvas, you get a list with a descriptive title.
- You can place objects on the left, in the middle, right, top, or bottom of a container with one gesture.
- Tables use percentage sizing which ensures that different screen resolutions are supported.
- You can resize an object by dragging one of its grippers.
- You cannot drop a crosstab space object on to the canvas.

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Guided report layout is enabled by default for the benefit of users that are new to report authoring. If you prefer not to use guided report layout, you can disable it.

1. Click on the “**More**” icon ( ), click on “**Options**” icon (Options...), and then click on the Report tab.

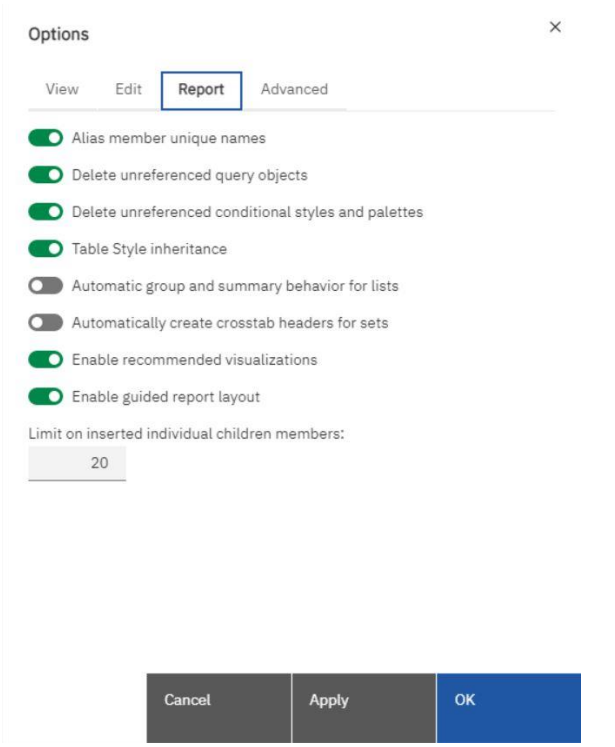

Figure 479 - Guided Report Layout - More icon - Options - Report

2. Clear the Enable guided report layout check box.

3. Click OK.

The "**Apply**" button is present in every pop up window next to the "**OK**" button. It serves as a preview. When the user wants to make any change and see the outcome step by step, can click the "**Apply**" button to see the effect the change has made to the result and when the result is the expected, click on "**OK**" button.

8.2.1.4 Specify the font for a report

You can specify the font for text in a report.

Procedure

Click the object.

To specify the default font for the report, click the page.

Do one of the following:

From the report object toolbar, click the “**Font**” icon and then specify the font properties.

In the Properties pane, double-click the “**Font**” property and specify the font properties.

To specify the colour of the text, from the report object toolbar, click the “**Font**” icon, and then click Foreground colour. Alternatively, you can specify the colour of the text by clicking the Foreground colour property for the object.

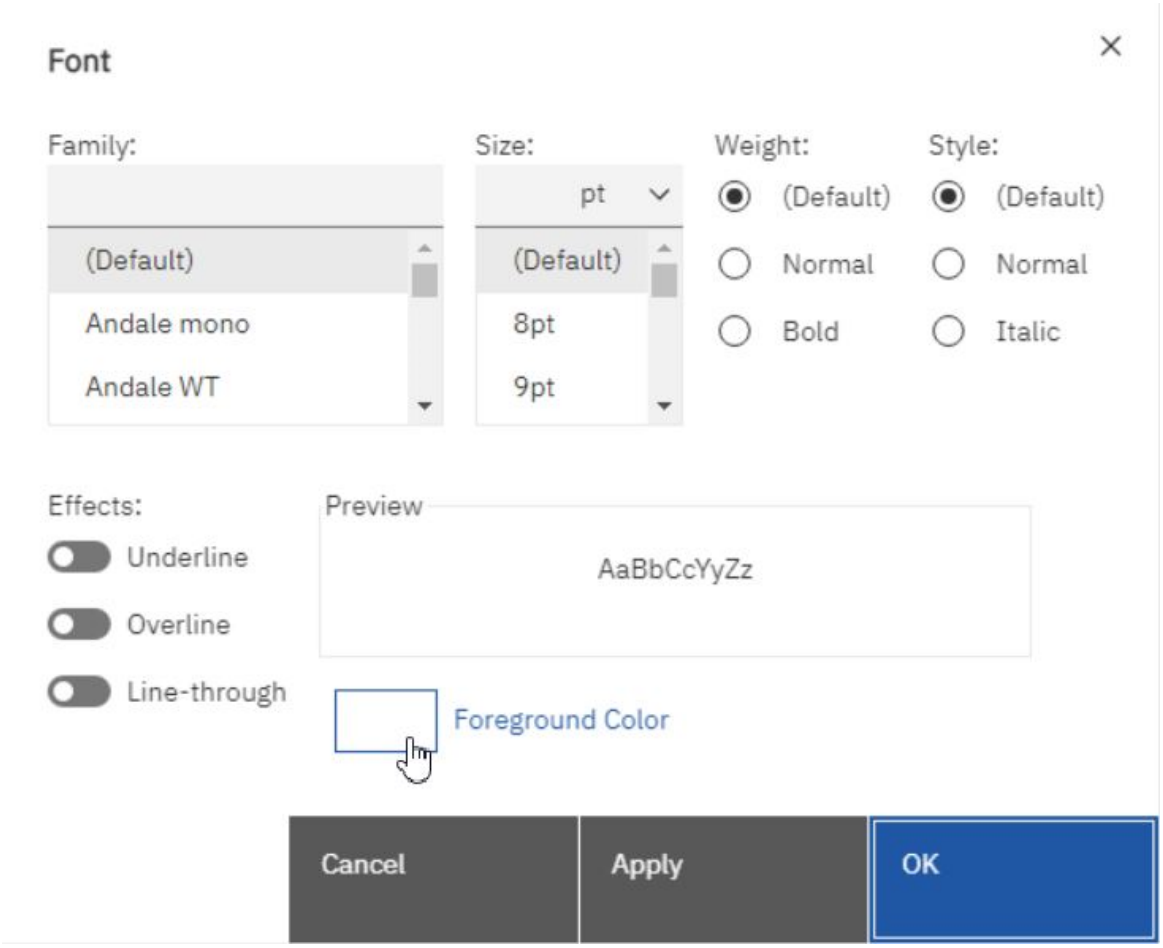

Figure 480 - Specify the font for a report - Font icon - Foreground Color

Type a list of fonts in the Family box if you are not sure whether a specific font is installed on a user's computer. For example, if you type Times New Roman, Arial, monospace, The Reportstudio checks to see if Times New Roman is installed. If it is not, Reporting checks for Arial. If Arial is not installed, the mono-space font used by the computer is used.

If you clicked “**Default**” for any of the font properties, the default value for the property is used. Default values are stored in a style sheet that is used across all DWH tools. You can modify default values by modifying classes.

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8.2.2 Queries

Queries determine what data items appear in the report. Sometimes you want detailed rows of data, which you obtain by using a simple SELECT statement. Other times you must calculate totals or averages using summary functions and grouped columns or must apply filters to show only the data you want.

DWH - Reporting automatically creates the queries you need as you build reports. However, you can modify these queries or create your own custom queries to get the results you want.

The Queries are depending on the templates and the package you have selected when you are creating a report. Here is an Example how the query looks if you selected "**Eurosystem2**" in the templates of the report.

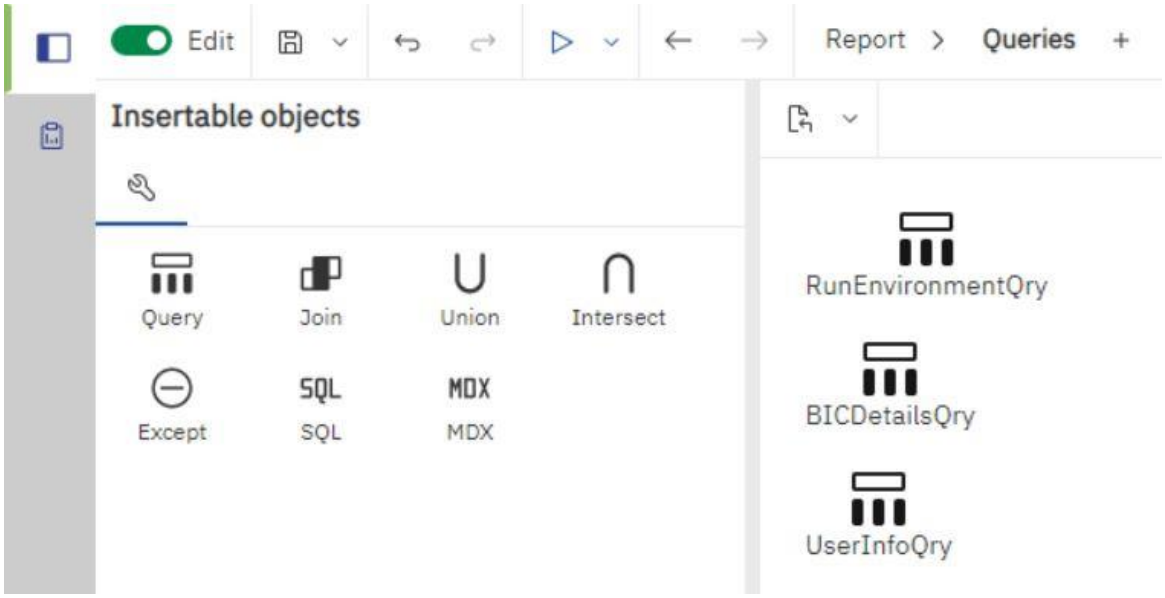

Figure 481 - Queries - Query example of Eurosystem2 template

8.2.3 Report objects

You build reports by adding objects and manipulating them to obtain the results you want. To understand how to work with objects in DWH - Reporting, you must be familiar with the following concepts:

Objects as containers

Objects, such as tables, blocks, and any report frame, are containers in which you can insert other objects. For example, you can insert a list in one cell of a table and a chart in another.

You can also nest objects to create a sophisticated layout. For example, you can insert a map and a list in a cell of table.

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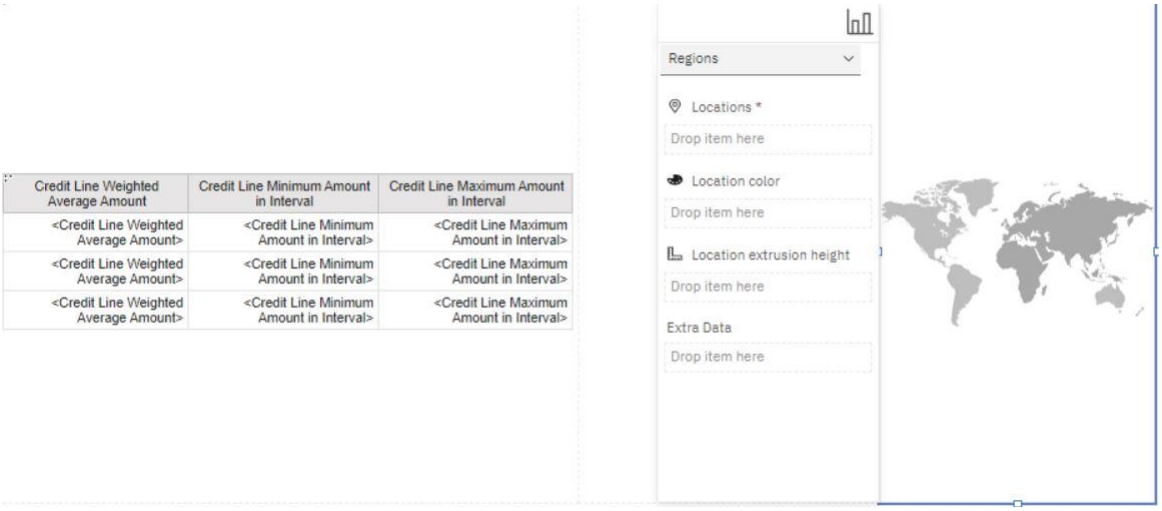

Figure 482 - Report objects - Insert map and list in a cell of table

Locking and unlocking objects

To manipulate the contents of some objects, you must first unlock the object. For example, you have a list that contains the column "**Product Name**". You want to insert a graphic inside the "**Product Name**" column to show an image of each product. Unlock the list to insert the image object inside a list column.

To unlock a report, click the "**Lock**" icon ( ) in the application bar. All layout objects in a report are unlocked. Note that this setting is not saved with the report.

Hierarchy of objects

In DWH - Reporting, objects are organized hierarchically. For example, a list contains list columns, and each list column contains a text item, which is the name of the inserted data item.

The hierarchy of objects is useful to remember when you apply formatting because formatting is applied to the child objects of the object. For example, you can specify that all list column titles in a list have red as the background colour. The formatting is automatically applied to any new columns you add to the list be-cause the formatting is applied to the list and is therefore applied to the objects in the list. If you apply for-matting to a specific object, it will override the same formatting specified for the parent object.

Searching

You can quickly locate specific objects in a report by using "**Find**":

- Click the "**More**" icon ( ).
- Click "**Find**" (Find...).

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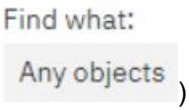
- Click “**Find what**” () and choose the type of object to find.
- In the “**Options**” ( ) box, specify the search criteria.

For example, if you want to find the objects that reference a specific data item, you must specify the query that contains the data item and the data item name.

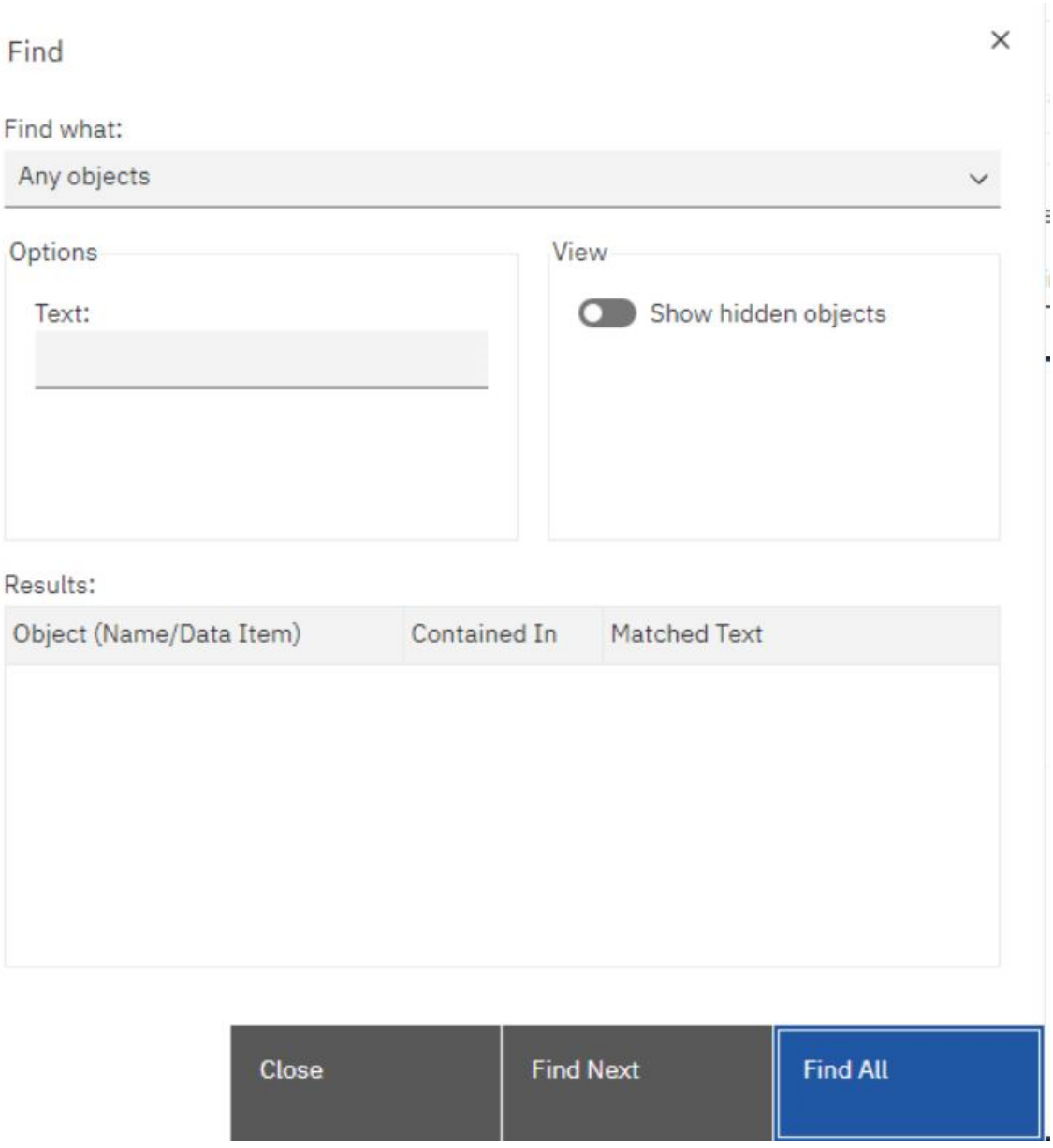
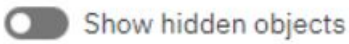
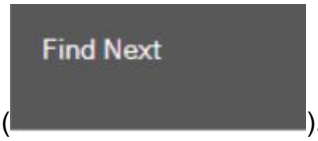


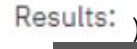
Figure 483 - Report objects - Find - Find objects in the query

- To search for objects that are hidden in the report, in the "**View**" box (

), select the Show hidden objects check box.
- Click "**Find All**" (

) or "**Find Next**" (

).

All objects that meet the search criteria are listed under "**Results**"(

). The first object that meets the search criteria is highlighted in the list. Continue clicking "**Find Next**"(

) to show all other objects that meet the search criteria.

In some cases, such as searching for a data item that is used to define a conditional style, the Report Studio cannot directly select the object in the report. Instead, Reporting selects the object that uses the object for which you are searching.

8.2.3.1 Mostly Used Objects

You add layout objects to a page when you create a report. Below are objects that you will use often when building reports in DWH - Reporting:

- **List**

  Add a list to show data in rows and columns.

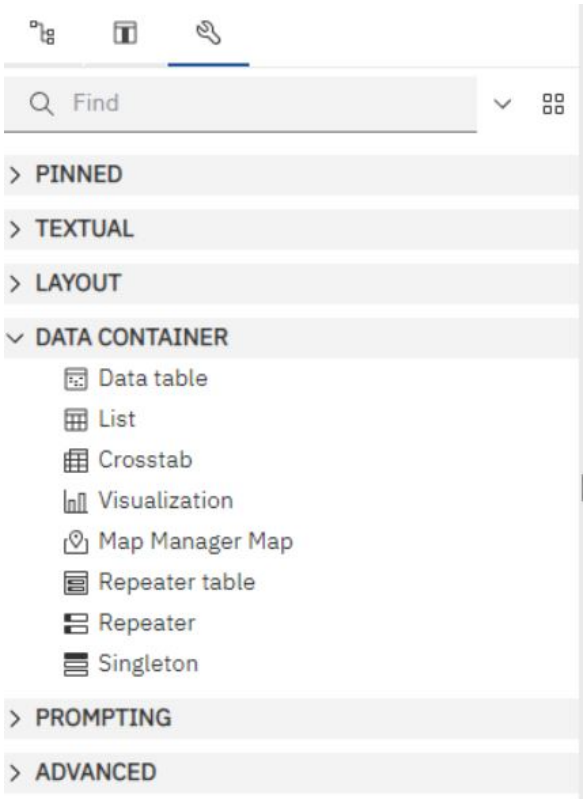


Figure 484 - Report objects - Mostly Used Objects - Data container - List

- **Crosstab**

  Add a crosstab to show data in a grid with dimensions along the rows and columns and measures in the cells or intersection points. (see list)

- **Chart or Visualization** (see list)

- **Map**

  (see list)

- **Repeater**

  Add a repeater to show each instance of a certain column or data item in a separate frame. (see List)

- **Text**

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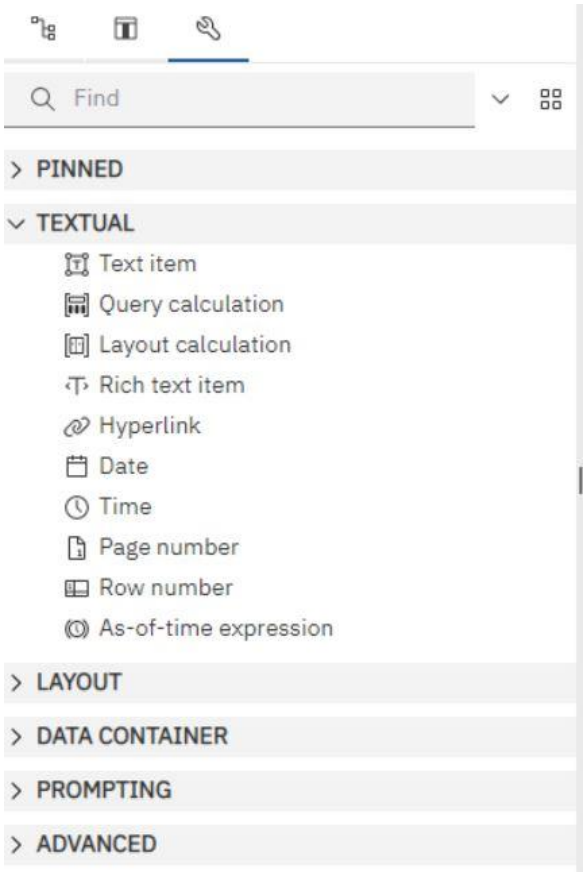


Figure 485 - Report objects - Mostly Used Objects - Textual

- **Block**

  Add a block to hold text or other information. Blocks are often used to lay out horizontal bands of information.

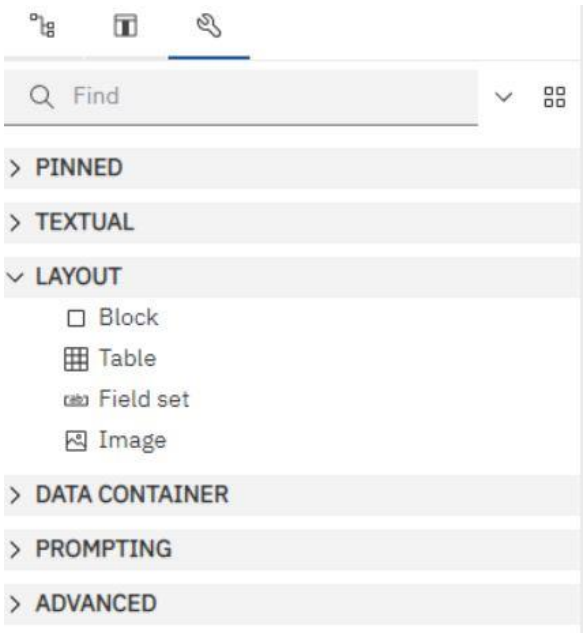


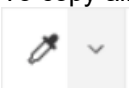
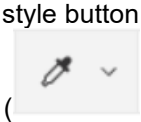
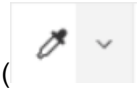
Figure 486 - Report objects - Mostly Used Objects - Layout

All rights reserved.

(See Block)

8.2.3.2 Copy object formatting

You can quickly copy the formatting of items in your report, such as fonts, colours, borders, and number formats, and apply that formatting to other items.

- Click an item that has the formatting to copy.
- Do one of the following:
  - To copy all the formatting applied to the item, from the object toolbar, click the "**Pick up style**" icon (), by clicking on the down arrow to the right, click the item to format, and then click the "**Apply style**" icon ( ).
  - To copy only one of the formatting styles, click the down arrow to the right of the pick-up style button  and click the style to copy. Then click the item to format and click the "**Apply style**" button ( ).
- If you want to make changes to a style that you copied, click the "**Pick-up style options**" button () and click "**Edit dropper style**" (

).

In the Style dialog box, specify basic and advanced style characteristics.

8.2.3.3 Add borders to a formatting object

You can add borders to objects in a report such as a column, a header, or a footer or to the whole report.

You can also add borders using the report object toolbar by clicking the "**Border**" icon ( ).

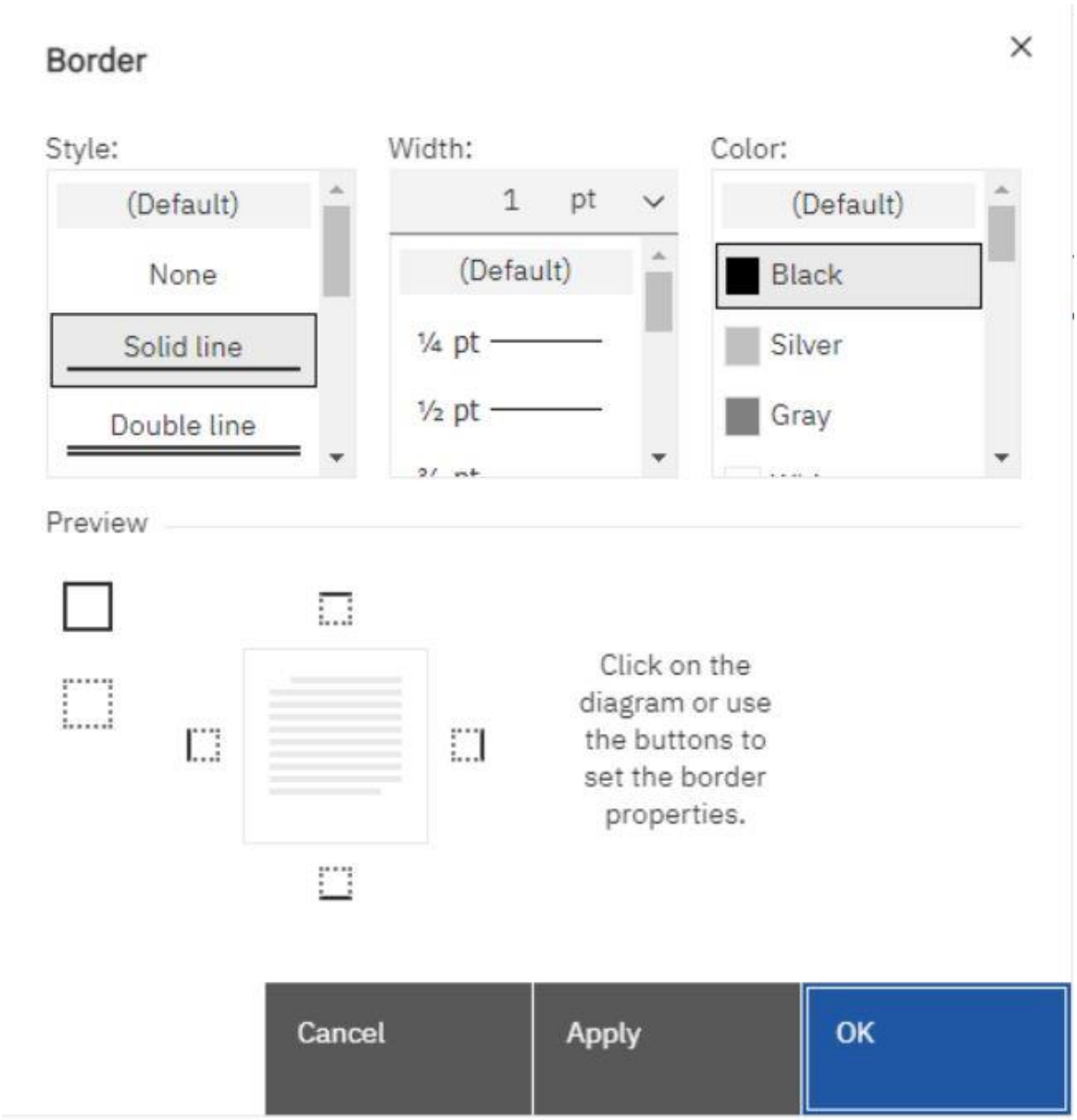


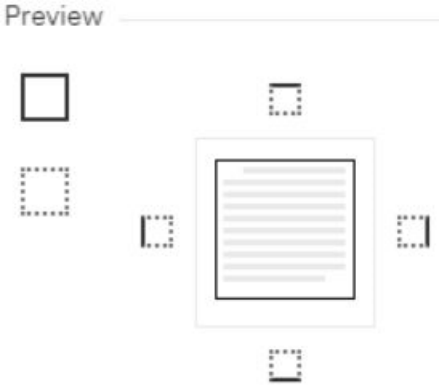
Figure 487 - Report objects - Add borders to a formatting object

- Alternatively click on the object to which to add a border.

  To quickly select the parent of an object, click the object, and then click the "**Select ancestor**" icon select ( ) in the title bar of the Properties pane.

- In the Properties pane, double-click the "**Border**" property (BOX Border) and select values in the Colour, Style, and Width boxes.

  Specifying a width using % as the unit of measure is not supported when producing reports in PDF.

- Apply the selected values to the top, bottom, left side, right side, or all sides of the object by clicking the appropriate button in the “**Preview**” section (

).

8.3 Relational and Dimensional Reporting

You can create reports in DWH - Reporting using either a relational reporting style or a dimensional reporting style.

The Reporting tools and query language are the same for both styles. However, it is important to choose a reporting style to ensure that you are making the most of your data and to avoid mixing dimensional and relational concepts.

8.3.1 How to choose a reporting style

When authoring a report, first choose your preferred reporting style for working with data: relational or dimensional. You can choose a reporting style from your viewpoint:

- If you think about your data as tables and columns, you have a relational viewpoint and should use a relational reporting style.
- If you think about your data as a number of dimensions intersecting at cells, you have a dimensional viewpoint and should use a dimensional reporting style.

8.3.2 Relational reporting style

The relational reporting style consists of lists. You focus the data with filters and summarize with header and footer summaries.

- If your data is purely relational, then only query subjects and query items appear in the “**Source**” tab ( ), and you must use the relational reporting style.

- If your data is dimensional, then dimensions appear in the "**Source**" tab ( ), and you can still use a relational reporting style, but instead of query items (columns) and query subjects (tables), you use measures, levels, and level properties.

Here is an example of relational style reporting with dimensional data.

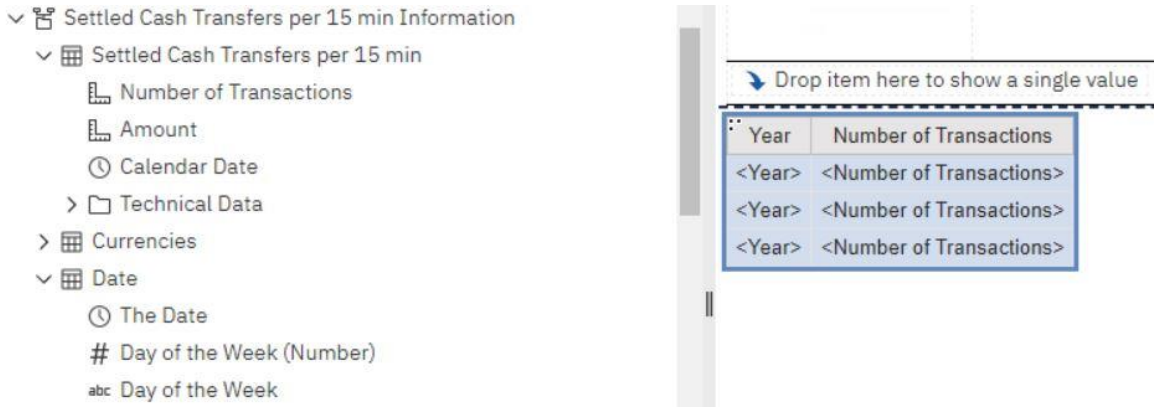


Figure 488 - Relational reporting style - Dimensional data

8.3.3 Dimensional reporting style

The dimensional reporting style consists of measures and members from different hierarchies arranged in a crosstab with cell values at the intersections. You focus the data with set expressions that navigate from specific members in the hierarchy and summarize with set summaries.

Here is an example of dimensional style reporting with dimensional data.

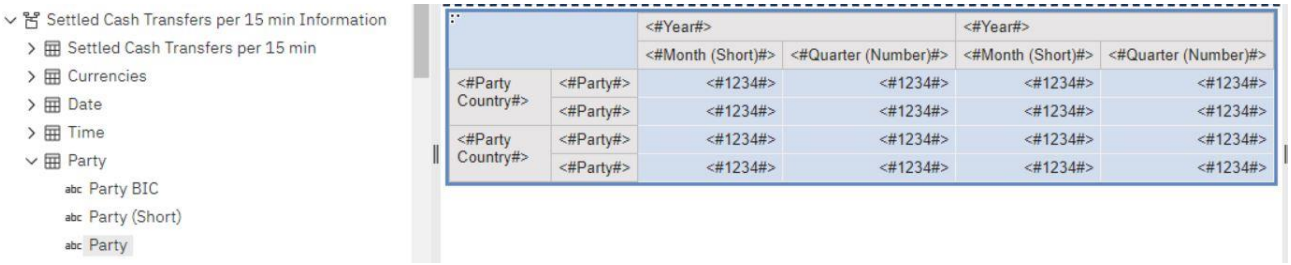


Figure 489 - Dimensional reporting style - Dimensional data (2)

8.3.4 Insert a Query Calculation

When working with dimensional data, insert a query calculation into your report to add a new row or column with values that are based on a calculation. For example, you create a query calculation named Euros that converts dollars to euros by multiplying an existing dollar measure by a conversion rate. Euros can then be displayed to end users in a separate row or column.

In the Report studio you can create the following types of calculations:

Create calculated members or calculated measures where the expression is a member or a tuple-based (as opposed to property-based) value expression. For example, [2013] - [2012] is a calculated member and [Revenue] - [Planned Revenue] is a calculated measure.

Use set expressions to create calculated sets of members. For example, children ([2012]) is a set expression that displays the child members of 2012.

You must base each set expression on a hierarchy and the set expression must contain only members from this hierarchy.

Create value expressions when you want to insert a string, number, date, or interval value.

Procedure

1. Click the "**Toolbox**" icon ( ) and drag "**Query calculation**" (Query calculation) to the report.

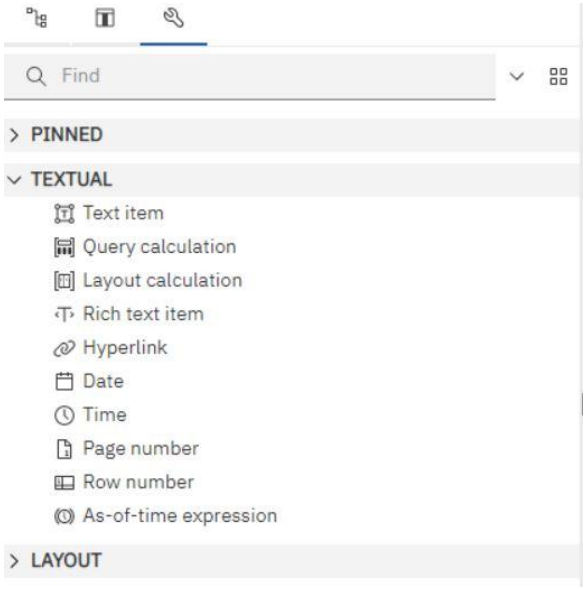


Figure 490 - Insert a Query Calculation

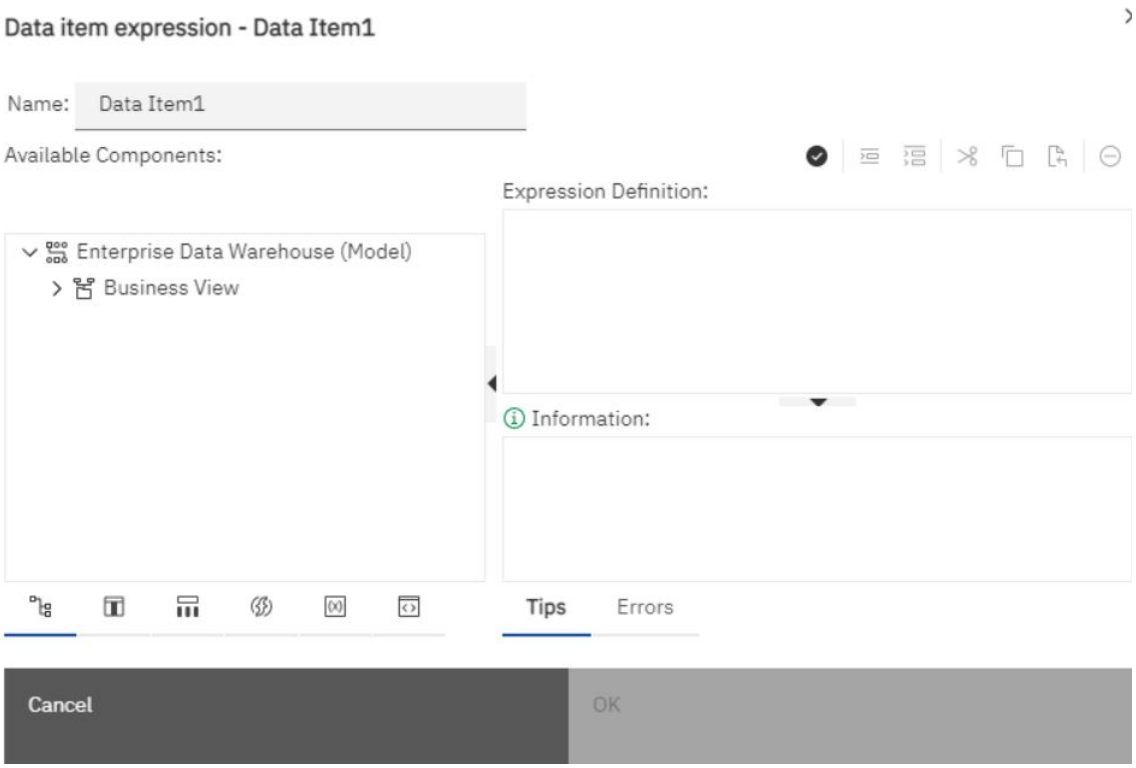
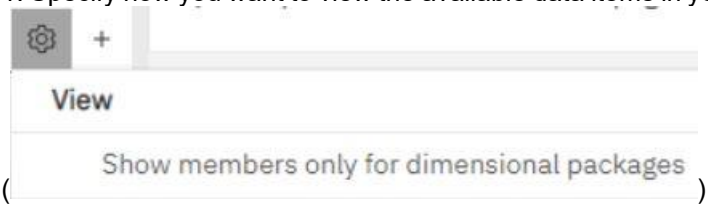
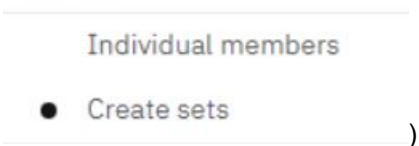


Figure 491 - Insert a Query Calculation - Specify Query Calculation

- Click the type of calculation you want to create and if required, select the hierarchy that contains the data that is the focus of your calculation.
- In the "**Name**" box ( ), type a meaningful name for the calculation.

  For example, if you are calculating the difference between 2012 revenue and 2011 revenue, you could name your expression 2012 - 2011 Revenue.
- In the Available Components pane, define the calculation:

  1. Specify how you want to view the available data items in your data package by clicking the "**View**" button () and than select "**Show members only for the dimensional packages**" (left one) if you want to select only one item or the "**Insert**" button () if you want to select multiple items.

2. To add data items that are not shown in the report, on the "**Source**" tab ( ), double-click the data items.

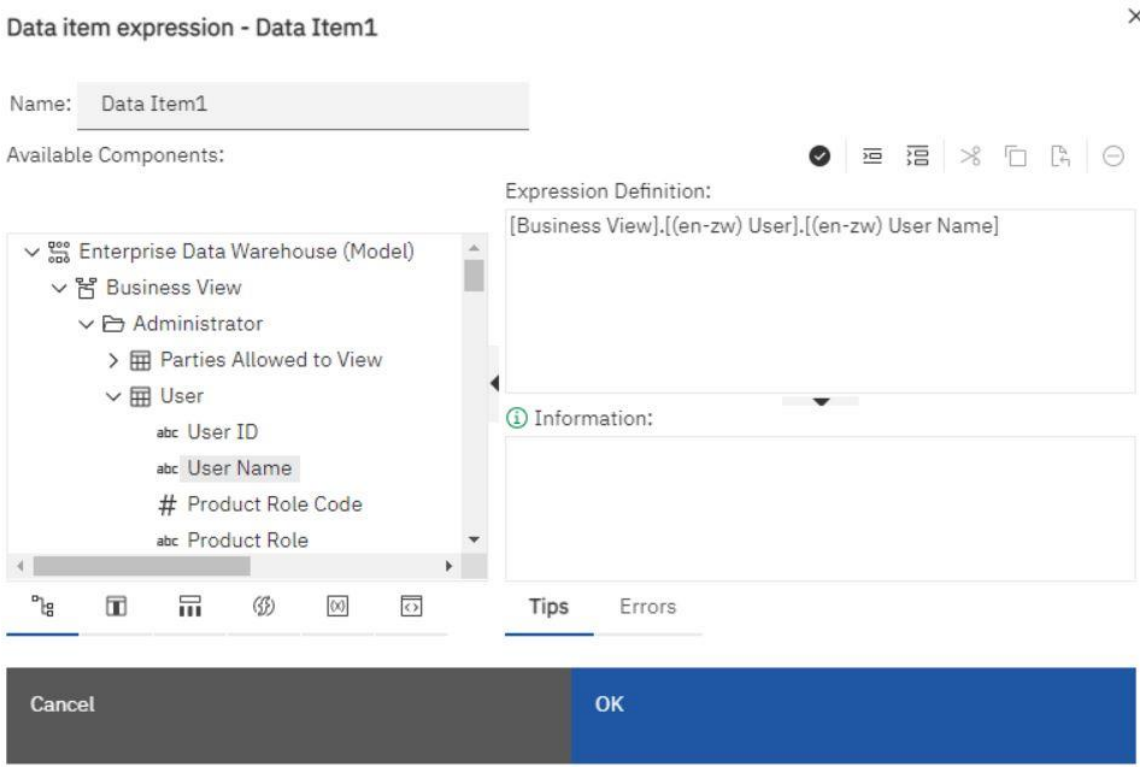


Figure 492 - Insert a Query Calculation - Specify Query Calculation - Data items

3. To add data items that are in the report but not necessarily in the model, such as calculations, on the "**Data items**" tab ( ), double-click the data items.

4. To add data items from a specific query, on the "**Queries**" tab ( ), double-click data items. The items you will see are the items you already placed in your report.

5. To add functions, summaries, and operators, on the "**Functions**" tab ( ), double-click elements.

6. To add a value that is derived from a parameter, on the "**Parameters**" tab ( ), double-click a parameter. The items you will see are the parameters you already set in the report.

Parameters define prompts, drill-through reports, and master detail relationships.

You can also type the calculation directly in the "**Expression Definition**" (Expression Definition:) box.

When typing date values, ensure that the date format is correct for your database type.

To copy and paste expression components in the Expression Definition pane, you can use the "**Copy**" button copy icon and the "**Paste**" button paste icon

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- Click the “**Validate**” button ( ).

  Any validation errors appear on the Errors tab of the Information pane.

  To copy and paste expression components in the “**Expression Definition**” pane, you can use the “**Copy**” button ( ) and the “**Paste**” button ( ).

8.3.4.1 Functions for data items

When you insert a calculation there are a lot of functions you can do with the data. Try to use the functions that are appropriate for the selected data type. For example a percentage function only makes sense for decimal number data in contrast to the date or a text. Double-click the function to add it to the data item. When you click only one time on the function you can see the information in the information box what the function is for, an Example of the function, the Result and the correct Syntax you have to use.

Operators:

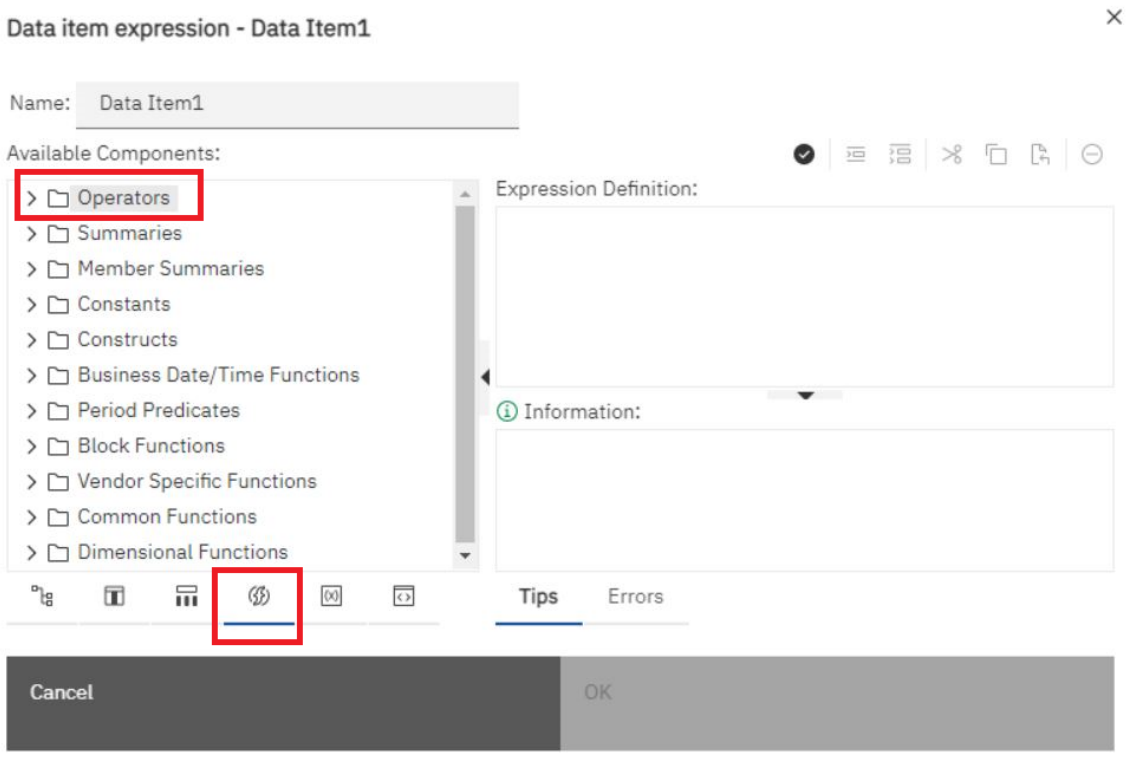

Figure 493 - Insert a Query Calculation - Operators

In the operator functions you can add the general mathematical functions like plus, minus, for all, or a combination of it like for all ‘data item’ < 15 and > 18.

You can also find the functions “**like**” and “**contains**” that can be helpful when searching within data.

The “**like**” function can be used when searching a string within a string. Here, the percent sign (%) represents zero, one or multiple characters, and the underscore sign (_) represents any character. You can find the “**like**” function under “**Operators**” folder in “**Functions**” tab.

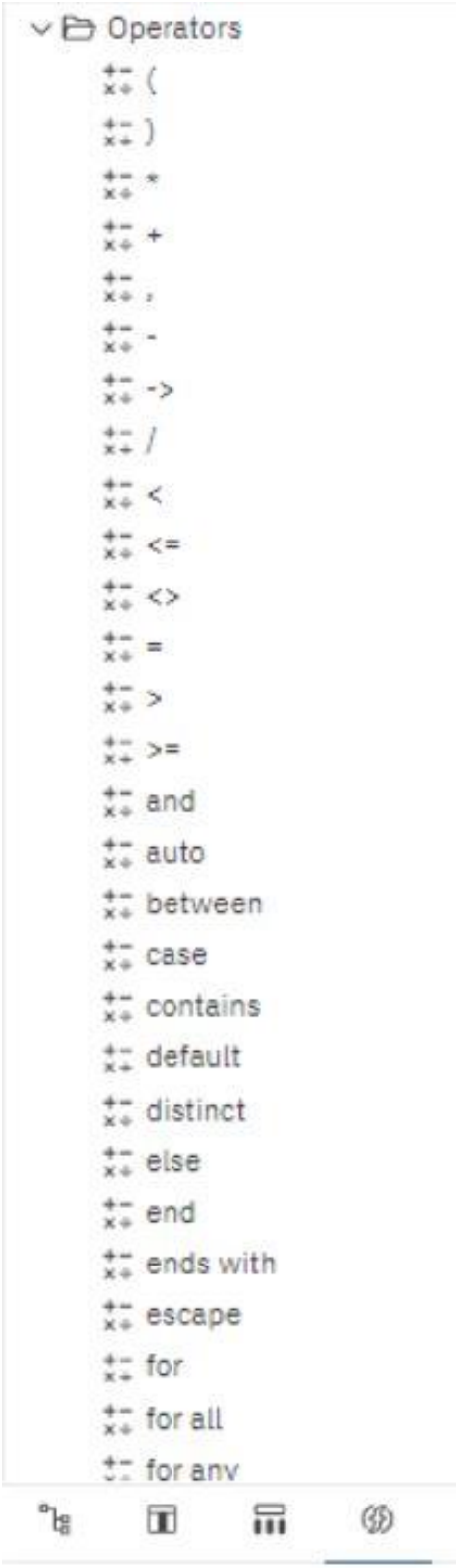

Figure 494 - Insert a Query Calculation - Operators - Function tab

In the following example we are searching for any Party that contains the string “**Ban**” in its name:

```
CASE
WHEN [(en-zw) Invoice Data Info].[(en-zw) Party Charged Name CRDM].[(en-zw) Party Short Name] like '%Ban%'
THEN 1
ELSE 0
END
```

Figure 495 - Insert a Query Calculation - Searching the string

That is the result:

Party (Short)	Flag
Ærø Pensionsbank	0
America First Savings & Loans	0
Aphrodite's Mutual	0
Apollon Bank	1
Ares Bank	1
Årø Land Pandebrev	0
Artemis Bank	1
Athena National Bank	1
Auslandskassenverein i.L.	0
Bågø Credit	0
Banca de Bondi	1
Banco de Isthmus	1
Banco di San Giorgio	1
Banco Português de Negócios	1
Bank of Korea	1
Bank of New England	1
Bankhaus Goldscheider	1
Bankhaus Medici	1
Banki Kiribati	1
Bankia	1

Figure 496 - Insert a Query Calculation - Searching the string - Results

In the next example the use of underscore sign (_) twice in the function like '%Ban__' returns Parties that have the string “Ban” followed by exactly two characters:

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```
CASE
WHEN [(en-zw) Parties - Cash Accounts - Other Info].[(en-zw) Parties].[(en-zw) Party (Short)] like '%Ban__%'
THEN 1
ELSE 0
END
```

Figure 497 - Insert a Query Calculation - Searching the string (2)

That would be the result:

Party (Short)	Flag
Ærø Pensionsbank	0
America First Savings & Loans	0
Aphrodite's Mutual	0
Apollon Bank	0
Ares Bank	0
Årø Land Pandebrev	0
Artemis Bank	0
Athena National Bank	0
Auslandskassenverein i.L.	0
Bågø Credit	0
Banca de Bondi	1
Banco de Isthmus	1
Banco di San Giorgio	1
Banco Português de Negócios	1
Bank of Korea	1
Bank of New England	1
Bankhaus Goldscheider	1
Bankhaus Medici	1
Banki Kiribati	1
Bankia	1

Figure 498 - Insert a Query Calculation - Searching the string - Results (2)

You can find tips about this function in the "**Tips**" tab in the expression definition window:

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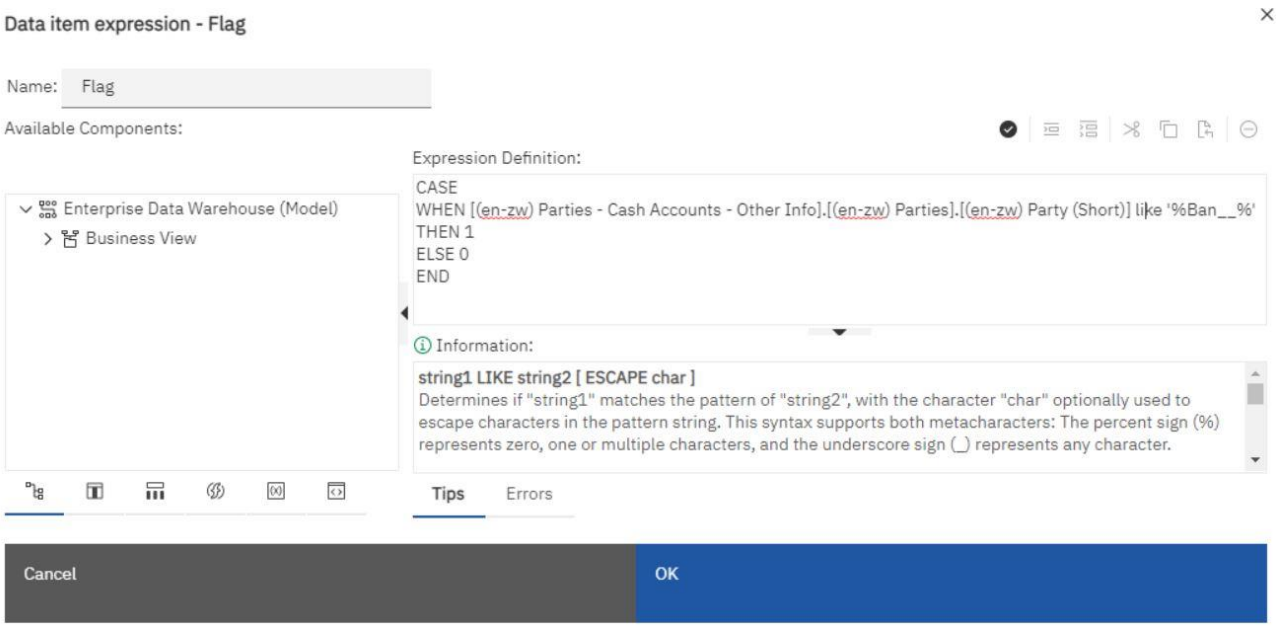

Figure 499 - Insert a Query Calculation - Data item expression - Tips tab – Information

The “**contain**” function, can also be found under “**Operators**” folder in “**Functions**” tab:

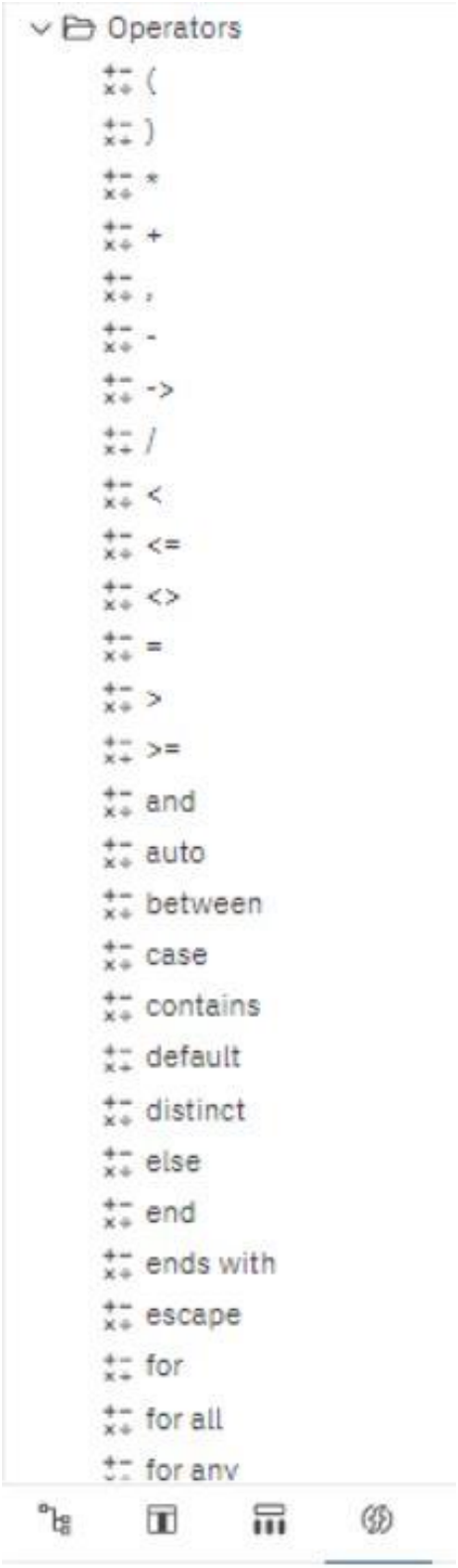

Figure 500 - Insert a Query Calculation - Operators

This function determines if a string exists in a string, but in a different context than the "**like**" function. In the following example we are looking for any Party that has the string "**Ban**" in its name:

```
CASE
WHEN [(en-zw) Parties - Cash Accounts - Other Info].[(en-zw) Parties].[(en-zw) Party (Short)] contains 'Ban'
THEN 1
ELSE 0
END
```

Figure 501 - Insert a Query Calculation - Searching the string - Different context than the “like” function

That would be the result:

Party (Short)	Flag
Ærø Pensionsbank	0
America First Savings & Loans	0
Aphrodite's Mutual	0
Apollon Bank	1
Ares Bank	1
Årø Land Pandebrev	0
Artemis Bank	1
Athena National Bank	1
Auslandskassenverein i.L.	0
Bågø Credit	0
Banca de Bondi	1
Banco de Isthmus	1
Banco di San Giorgio	1
Banco Português de Negócios	1
Bank of Korea	1
Bank of New England	1
Bankhaus Goldscheider	1
Bankhaus Medici	1
Banki Kiribati	1
Bankia	1

Figure 502 - Insert a Query Calculation - Searching the string - Different context than the “like” function - Results

The “**contain**” function could be useful when you wish to search for a string that could have the character “%” or “_”, by also using the term “**literal**”

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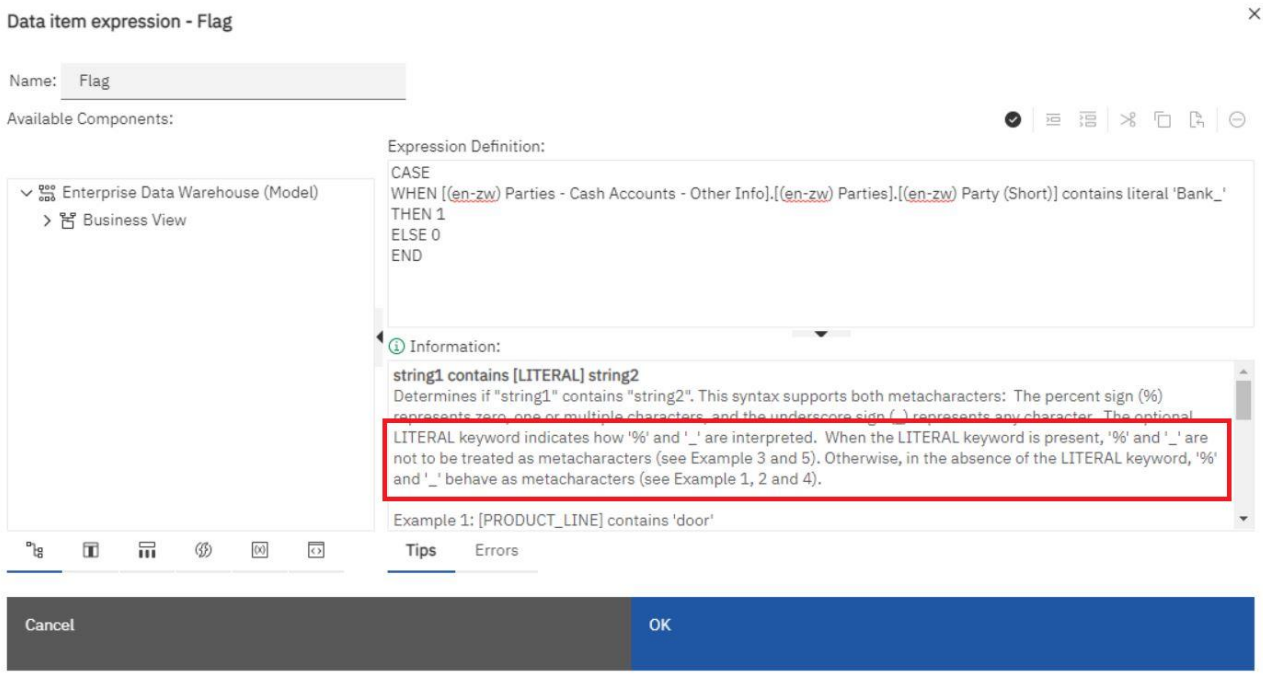

Figure 503 - Insert a Query Calculation - Data item expression - Tips tab - Information - Literal

You can find tips about this function in the "**Tips**" tab of the expression window

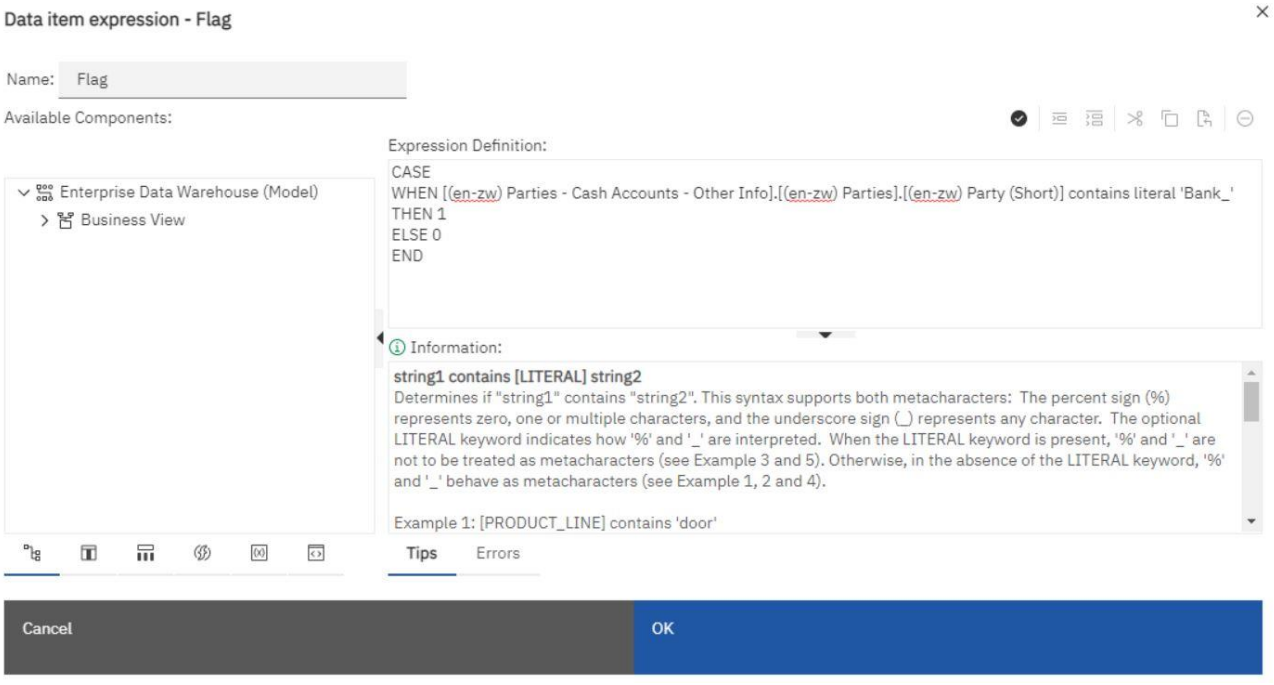

Figure 504 - Insert a Query Calculation - Data item expression - Tips tab - Information - Literal (2)

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Summarize Functions:

Figure 505 - Insert a Query Calculation - Summarize Functions

The summarize function are very useful when you have a large amount of decimal data. It will help you to show the data that is more important to you.

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Member Summaries:

Figure 506 - Insert a Query Calculation - Member Summaries

The member Summaries only work with dimensional data. Ask your Administrator if you do not know about the data item you like to select. If it work you can categories and summarize the whole or a part of the hierarchy of the dimensional selected item.

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Constants:

Figure 507 - Insert a Query Calculation - Constants

The Constant functions help you to add, as the name says, a Constant. This can be a date, time or a special Number you select if you make a double click on the function you want.

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Constructs:

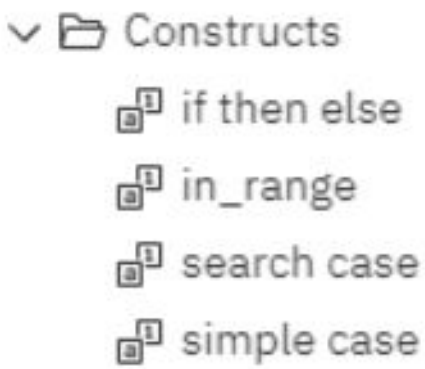

Figure 508 - Insert a Query Calculation - Constructs

The Constructs functions are useful if you want to mark a scenario. You can select here a condition to the data item. For example you can select if then else and combine it with a Constant you want to pop up in the report. It could look like that:

If ‘NumberofTransactions’ is > 1000 then Timestamp with timezone.

Business Date/Time functions:

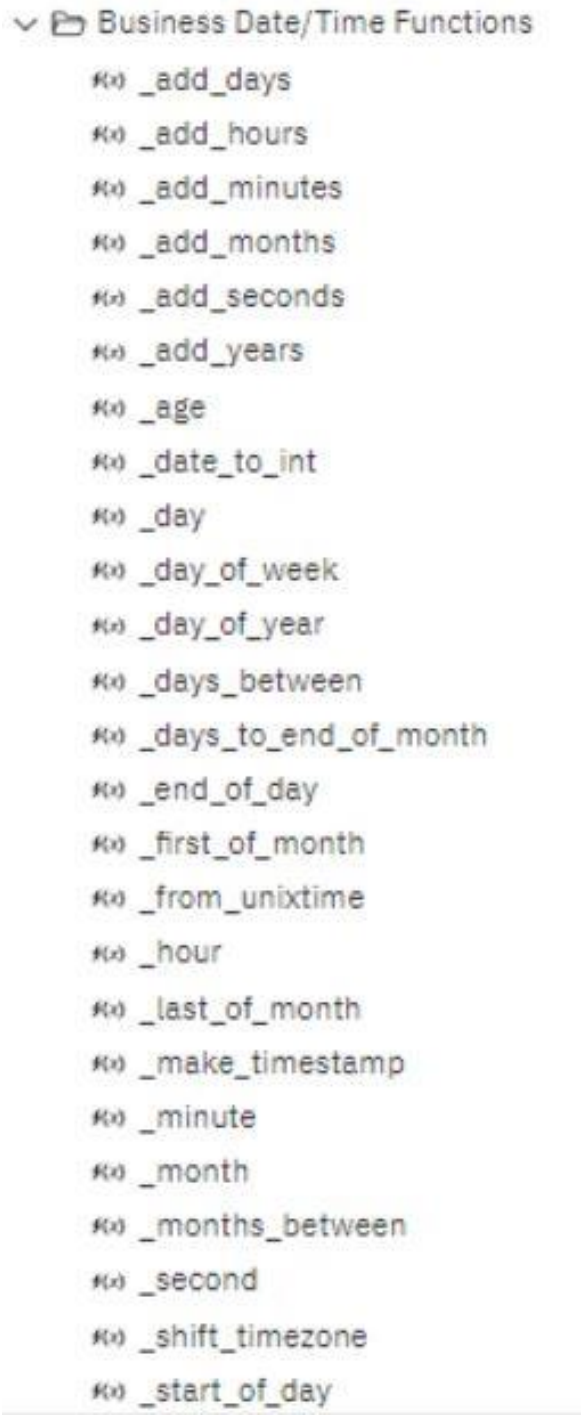

Figure 509 - Insert a Query Calculation - Business Date/Time Functions

These functions help you to calculate time-data. Just double-click the function you need and add the data item to it.

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Period Predicates:

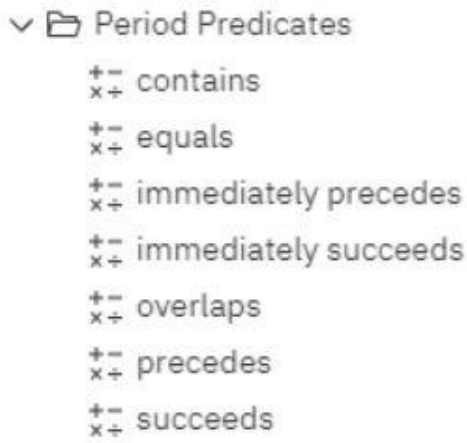

Figure 510 - Insert a Query Calculation - Period Predicates

This functions help you to search in the data to the data item you want to highlight. You can set the function for example equal to a constant.

Block functions:

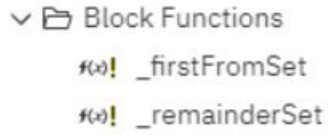

Figure 511 - Insert a Query Calculation - Block Functions

The Block function are use full when you want to select a block of multiple data in the report. You just have to specify which data items should be marked.

Vendor Specific functions:

This function is not recommended for beginners. You can change the datatype into another. First of all it is necessary to know which data type the selected data item has. Do this only if really necessary. It could be that the data is not readable after adding the function to the data item.

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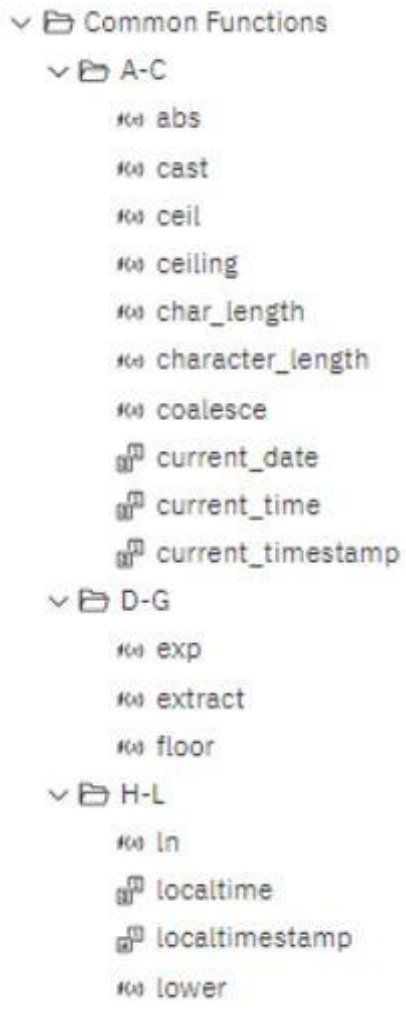
Common functions:



All rights reserved.

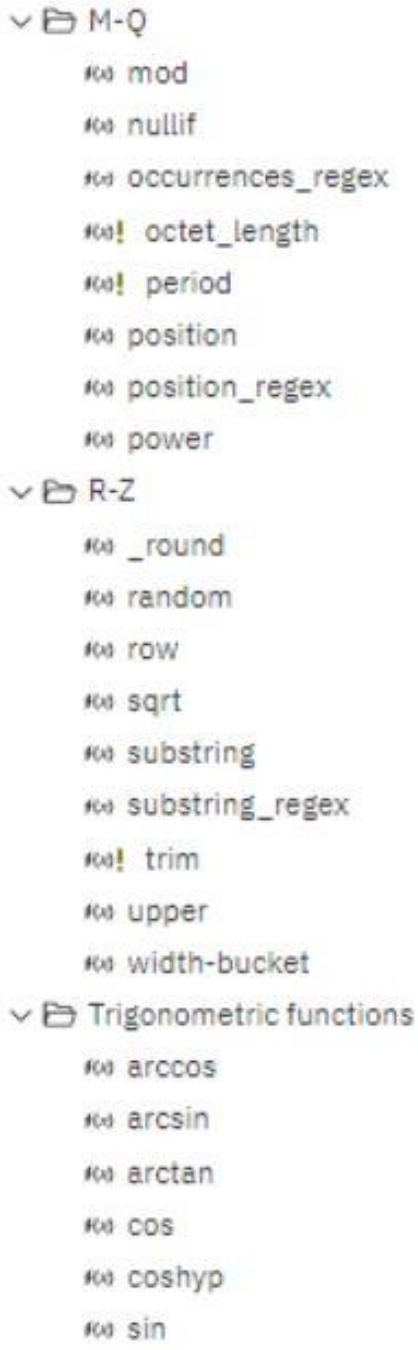


Figure 512 - Insert a Query Calculation - Common Functions

These function are used to return a different value from the selected data item. You can return the position, the sinus, or if it is null able from the data item.

Dimensional functions:

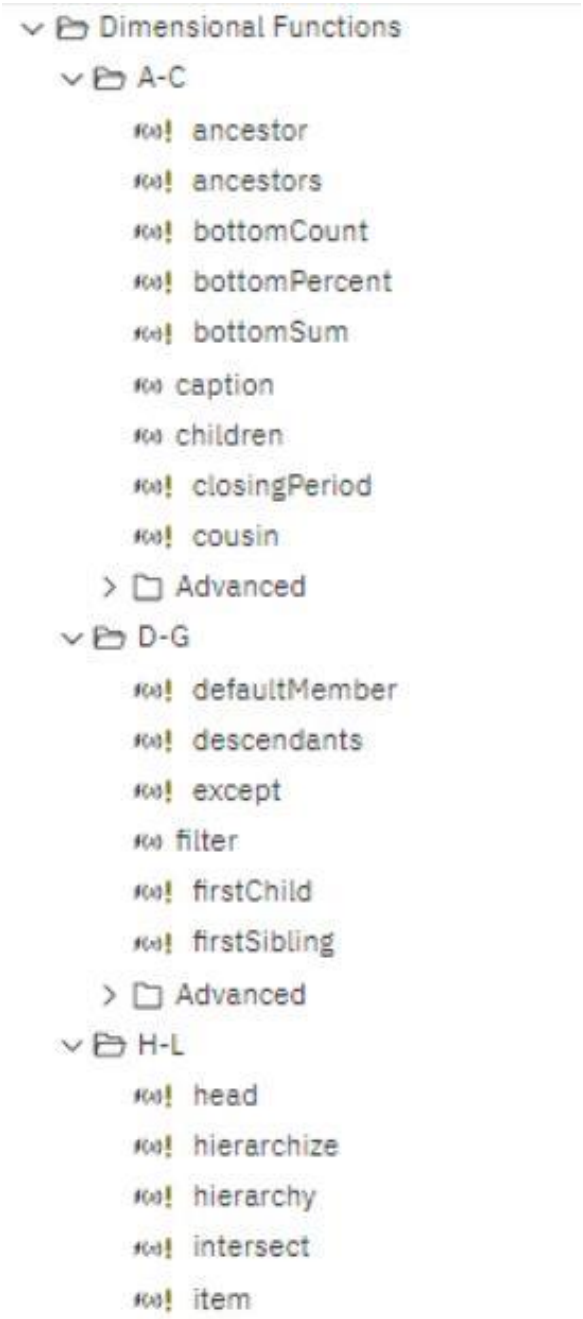


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Figure 513 - Insert a Query Calculation - Dimensional Functions

These functions are used if you want to select a “partner” of the dimensional data item. You can choose the parent the Child or the previous member next to the data item you selected. For Example the selected data item is Month and you choose in the Source of the Data item the April 2019. Then will the function return the value the parent the second quarter, the Child all Days of April and the previous member the Month March 2019.

8.3.5 Guidelines for each reporting style

This user guide is divided into relational and dimensional reporting sections so that you can follow the best practices for using this product with the reporting style that you have chosen. The following table outlines the best practices for both reporting styles.

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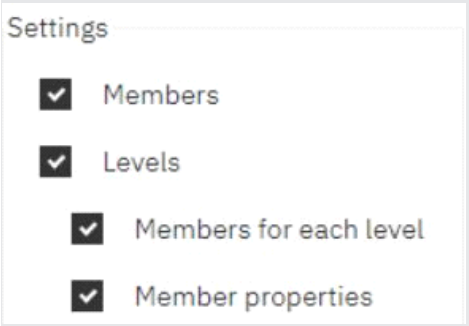
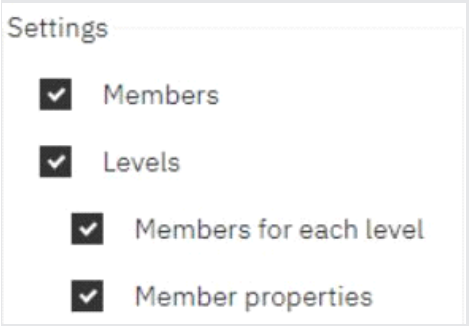
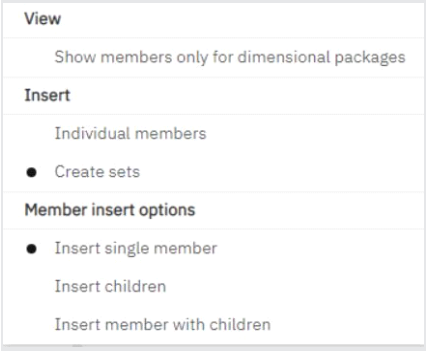
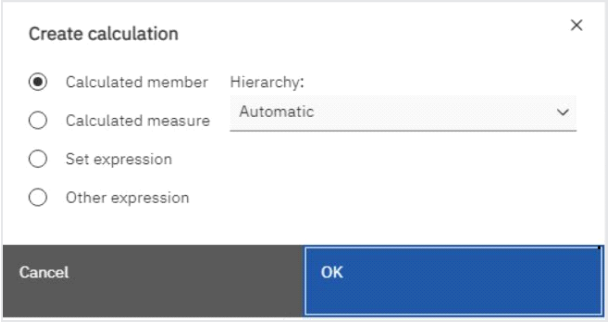
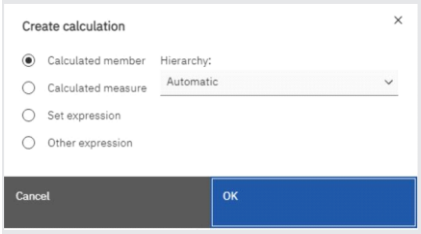
Item	Relational reporting	Dimensional reporting
Report type	Lists Crosstabs pivoted from lists Charts created from lists Maps created from scratch or from lists	Crosstabs Charts created from scratch or from crosstabs Maps created from scratch or from crosstabs
Package tree	In the “**Source**” tab ( ), click the “**Options**” icon ( ), and then click ”Show members only for dimensional package”. If you are using dimensional data, hide members in the source tree by right-clicking the tree, clicking “**Package Tree Settings**” ( ), and clearing the check boxes for “**Members**”  and “**Members for each level**”.  The view will include the following: l package l folder l namespace l query subject	In the “**Source**” tab ( ), click the “**Options**” icon ( ), and then click ”**Show members only for dimensional package**”. Ensure that the option “**Create sets**” is selected.  The view will include the following: l package l folder l measure l member l named set

	query item measure level	
Inserting data	From the package tree, add query items or levels to the report. Avoid using hierarchies directly in the report. Avoid using named sets.	From the package tree, add sets of members to the report. You can also choose to insert just the member, just the children of the member, or the member and its children.
Calculating data	Add query calculations using only relational and common constructs. Choose only "**Other expression**". 	Add query calculations using only dimensional and common constructs. Use "**Other expression**" only for value calculations. Avoid "**Common functions**"  that are marked with an exclamation mark (!) because they have limited support.
Summarizing data	Headers and footers in lists Crosstab member summaries; for example, aggregate within detail	Member set summaries; for example, aggregate within set

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Focusing data	Add detail or summary filters to view only the data you want to see. For example, add the "**Quarter**" query item to a list and filter by Q3.	Add only the relevant members to an edge of the crosstab or to the context filter. For example, only add the Q3 member to your report. Use a set expression such as "**Topcount**" or "**Filter**".
Drilling	Drilling through by value	Drilling through by member Drilling up and down
Page and section breaks	Simple page breaks Page sets Sections Master detail relationships using parameterized filters	Simple page breaks Page sets Page layers Master detail relationships using parameterized edge or slicer expressions

Table 145 - Guidelines for each reporting style

8.4 Create a report

Create a report by clicking the "**Open menu**" icon ( ) and then clicking on "**New**" icon (

) and "**Report**" icon (

) in the DWH portal on the left side.

8.4.1 Templates and themes

The DWH includes several basic report templates and colour themes that you can choose from when you create a new report.

The templates and themes are stored in the Templates.zip deployment file. If you do not see the list of templates and themes when you create a new report, ask your administrator to import the deployment file into the DWH Administration. After the deployment file is imported, the templates appear in the Templates folder in Team content.

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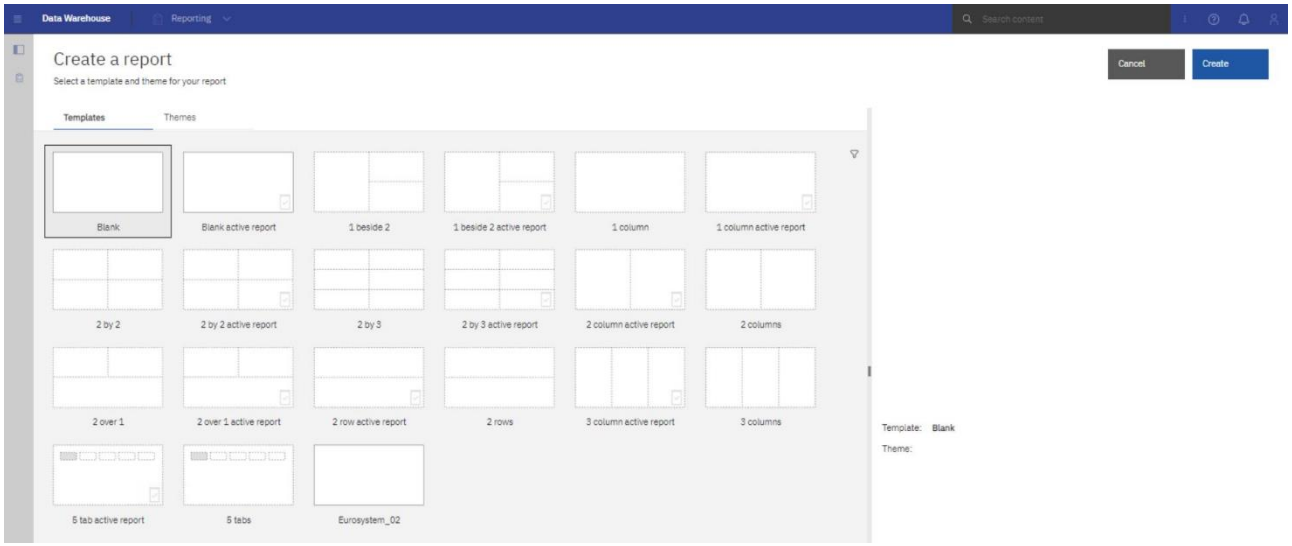

Figure 514 - Templates and themes - Templates

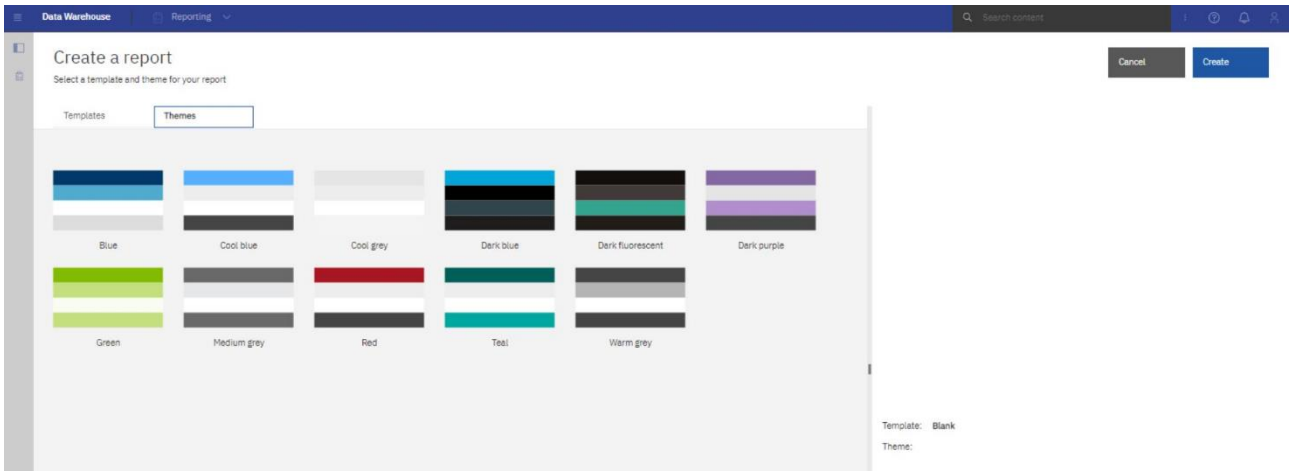

Figure 515 - Templates and themes - Themes

8.4.2 Adding data

You can add data from multiple packages that use the dynamic query mode, from a single package that uses the compatible query mode, or from a single data module.

The following list provides information about authoring reports that reference multiple packages.

You must set one of the packages as the default package.

When a report is run, the DWH checks the package capabilities of the package that is used by the report. In a report that references multiple packages, package capabilities are checked only for the default package.

- A query can reference only one package.

- Query set operations (join, union, intercept, except), master detail relationships, and the Build prompt page tool are not supported.
- Drill through and external data are supported only for the default package.

Click the “**Data items**” icon ( ).

Click the “**Add a source**” icon ( ).

Open the packages that you want or open a single data module.

If you opened multiple packages, to specify a package as the default package, right-click an item in the package and select “**Set default package**”.

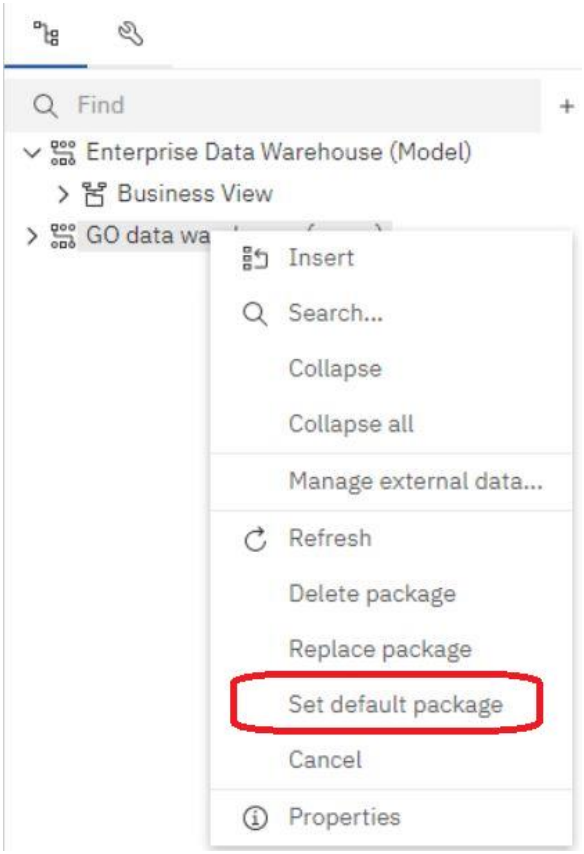

Figure 516 - Adding data - Add a source - Right click item - Set default package

To delete a package, right-click an item in the package and select “**Delete package**”.

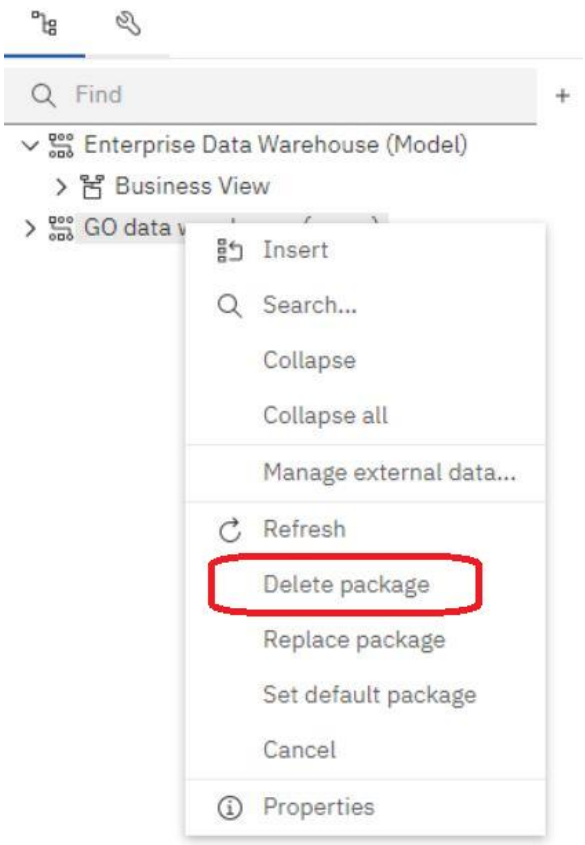

Figure 517 - Adding data - Add a source - Right click item - Delete package

To replace a package by another package, right-click an item in the package and select “**Replace package**”.

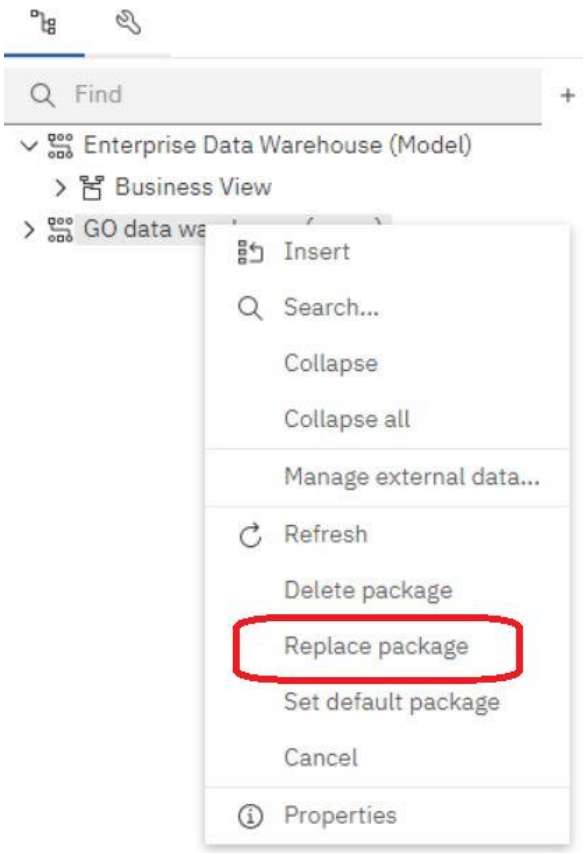

Figure 518 - Adding data - Add a source - Right click item - Replace package

If queries exist that use the package that you are replacing, model paths in the queries are updated to the new package.

8.4.3 Insert a single data item

You can insert a single data item anywhere in your report using the singleton object. The singleton object retrieves only the first row value for that query. Inserting a single data item is useful when you want to show a value that is independent from the rest of the values in the report or when you want to insert some boilerplate text, such as a company name and address. For example, you can add the total revenue value in the header of each page in a report.

You can associate multiple singleton objects with a single query in relational reporting and dimensional reporting to optimize performance, such as when all the data items in the singleton are from the same database table. In addition, two or more singletons can reference data items from the same query. This is useful when using a single query is more efficient to display a set of single values than using multiple queries.

You can also filter the data item in the singleton. For example, you can show the total revenue for only the year 2012.

Queries that are associated to a singleton object are not supported when producing report output in delim-ited text (CSV) format.

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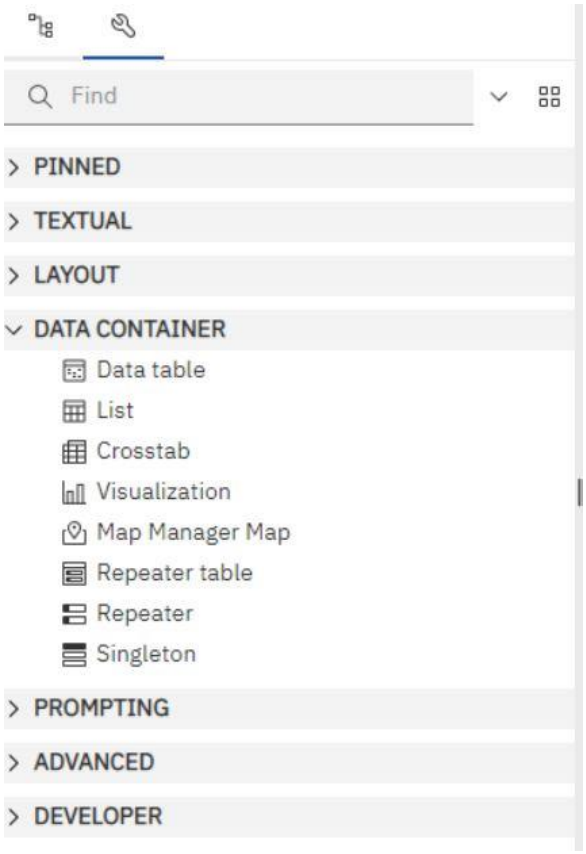


Figure 519 - Insert a single data item - Data container - Singleton

Click the "**Toolbox**" icon ( ) and drag Singleton to the report. An empty data container is created.

Click the "**Source**" tab ( ), and drag a data item into the Singleton container.

To change the query associated to the singleton object, select the singleton, click on the "**Show properties**" icon (Properties) and in the Properties pane, click the down arrow at the right of the "**Query**" property and make changes (DATA Query Query1).

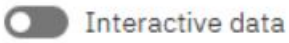
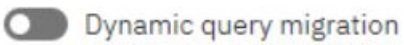
8.4.4 Validate a report

Validate your report to ensure that it contains no errors. When you open a report created in a previous version, it is automatically upgraded and validated.

- Click the "**More**" icon ( ), and click "**Validate**" Report ( ).
- A message box appears indicating whether any errors were found in the report.

Validation level	Description
Error	Retrieves all errors returned from the query
Warning	Retrieves all errors and warnings returned from the query. This is the default validation level.
Key transformation	In addition to errors and warnings, retrieves informational messages describing important transformation steps from the report specification to the native query sent to the data source. These messages can show the cause of errors and warnings returned from the query.
Information	Retrieves errors, warnings, key transformations and other information related to query planning and execution.

Table 146 - Validate a report

- If you require more detail from the validation process, click the "**More**" icon ( ), click the "**Validate options**" property, and do the following:
  - Click one of the following validation levels.
  - Click the right side of the "**Interactive data check**" box () to specify that no query optimization is to be used.
  - The Interactive data check box controls how queries will be processed during validation.
  - Clear the Interactive data check box to set the query property Execution optimization property to All Rows.
  - A message box appears indicating whether any errors were found in the report.
  - To view messages that result from the conversion of your report to use the dynamic query mode instead of the compatible query mode, click the right side of the "**Dynamic query migration**" check box ().
  - Revalidate your report.

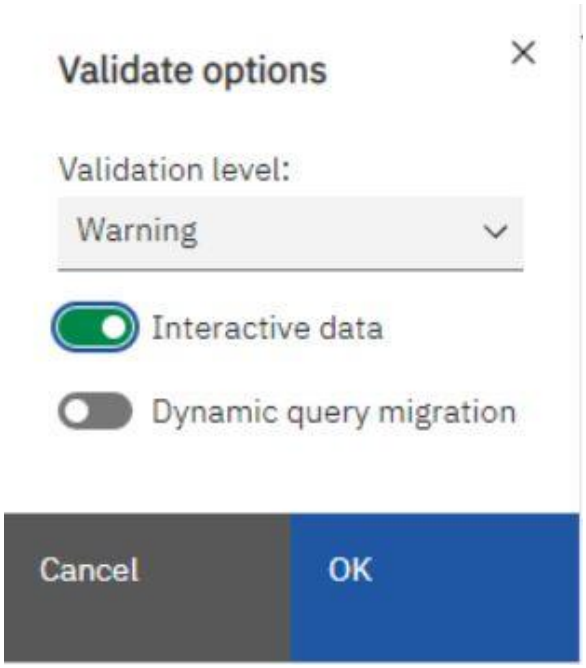


Figure 520 - Validate a report - Validate options

8.5 Options in Reporting

8.5.1 View Options

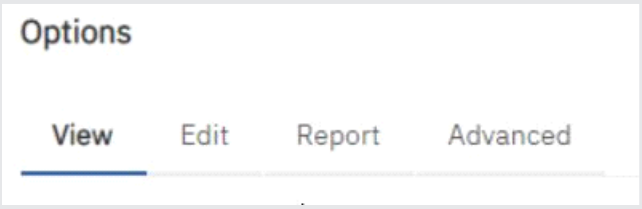


Table 1. Descriptions of the options on the “**View**” tab ( ) of the “**Options**” window

Click the “**More**” icon ( ), and click “**Options**”.

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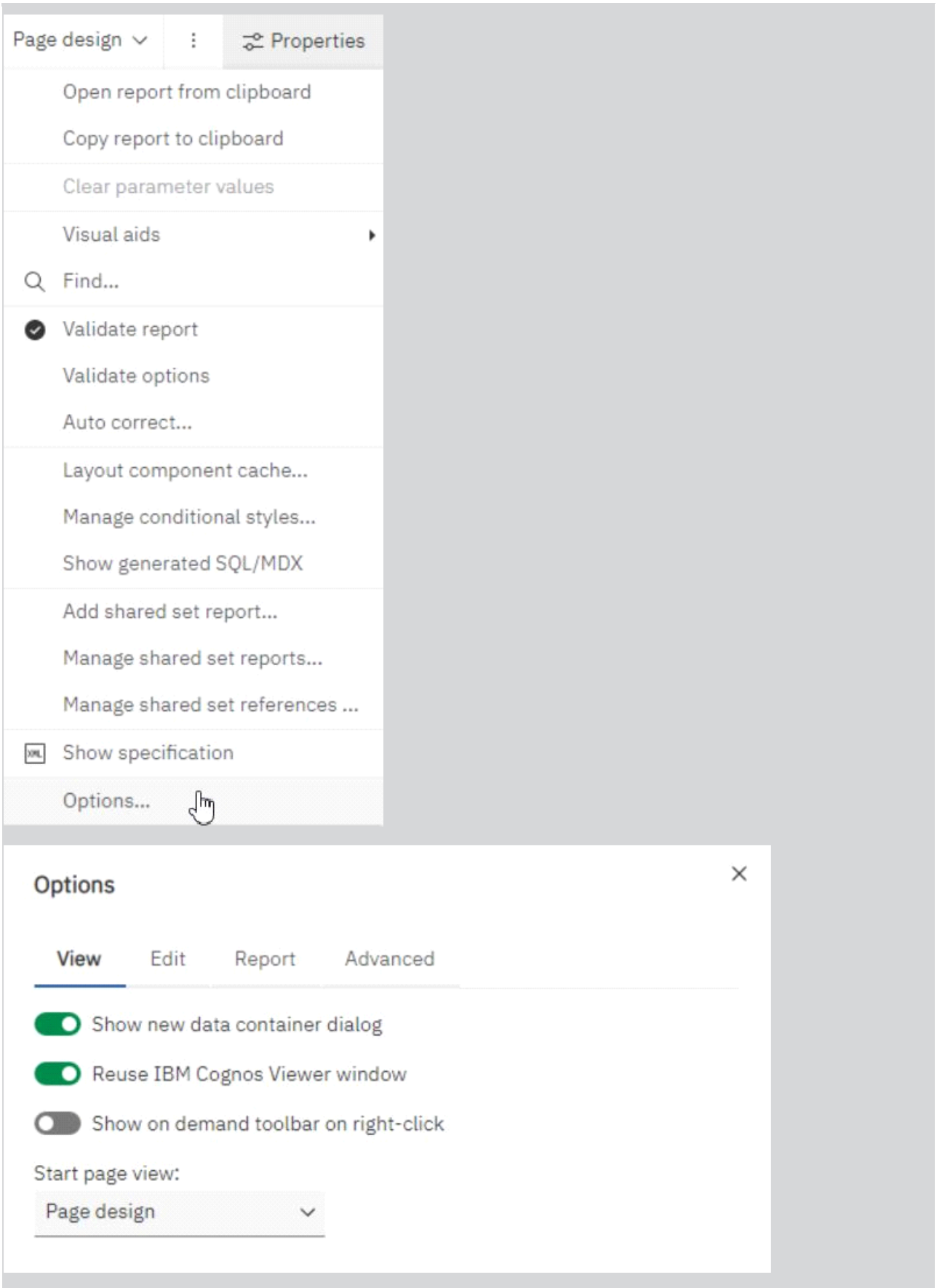
Page design
Properties
Open report from clipboard
Copy report to clipboard
Clear parameter values
Visual aids
Find...
Validate report
Validate options
Auto correct...
Layout component cache...
Manage conditional styles...
Show generated SQL/MDX
Add shared set report...
Manage shared set reports...
Manage shared set references ...
Show specification
Options...
Options
View
Edit
Report
Advanced
Show new data container dialog
Reuse IBM Cognos Viewer window
Show on demand toolbar on right-click
Start page view:
Page design

Option	Description
Show new data container dialog	Shows the new data container dialog boxes when the Show this dialog in the future check box was previously cleared.
Reuse IBM Cognos Viewer window	Reuses the same DWH Viewer window when you rerun a report without first closing the window.
Show on demand toolbar on right-click	Show the report object toolbar only when you right-click the object. The default setting is to show report object toolbars when you highlight an object. You can control when you want to see these toolbars by enabling this feature, which is also used for accessibility. When you author reports with accessibility features enabled, the Show on-demand UI on right click option is automatically selected. As a result, report object toolbars do not appear. To show an object's toolbar, navigate to the object and press the Enter key.
Start page view	Enables you to start Reporting in Design, Structure, or Preview view. For the change to take effect, you must close and then restart Reporting.

Table 147 - View Options

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8.5.2 Edit Options

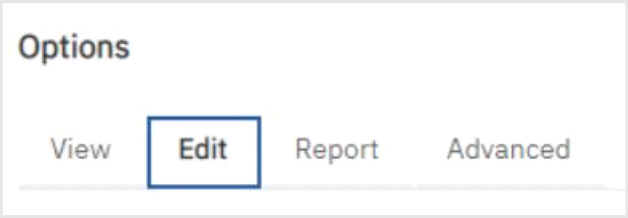
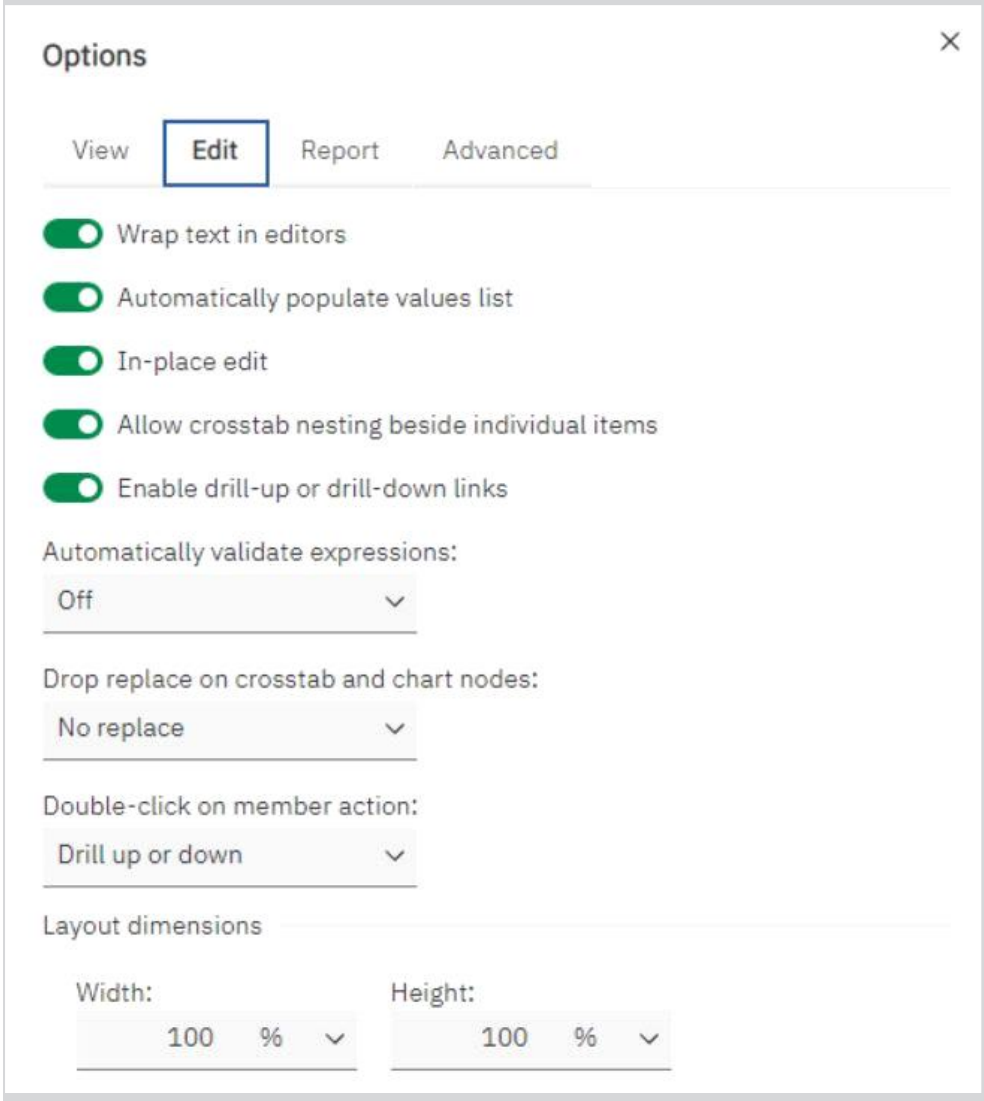


Table 2. Descriptions of the options on the “**Edit**“ tab ( ) of the “**Options**” window



Option	Description
Wrap text in editors	Automatically wraps text in all editors where you can define expressions.
Automatically populate values list	When building expressions in the expression editor, automatically shows values when you browse the data of a data item.

Automatically validate expressions	Automatically validates calculations, such as filters, created in the expression editor.
In-place edit	Enables the editing of text in place when double-clicking.
Allow crosstab nesting beside individual items	Specifies to create a crosstab node when a data item is inserted in a crosstab. This option allows nesting under individual items instead of only on the entire crosstab edge.
Enable drill-up or drill-down links	For data items where drill-up or drill-down is possible, enables drill-up or drill-down links. When you select a data item, it becomes a link that you can click to drill up or down. Also, you can still double-click data items to drill up and down. By default, this option is enabled. You can also control drill options in the Properties pane. At the report level, in the Data section.
Drop replace on crosstab and chart nodes	When you use drag-and-drop techniques, this setting determines the behaviour for replacing an item.
Double-click on member action	When working with dimensional data, specifies what happens when you double-click a member data item. By default, you drill down or up on the item that you double-click.
Layout dimensions	Specifies the width and height of the area where you will create reports.

Table 148 - Edit Options

8.5.3 Report Options

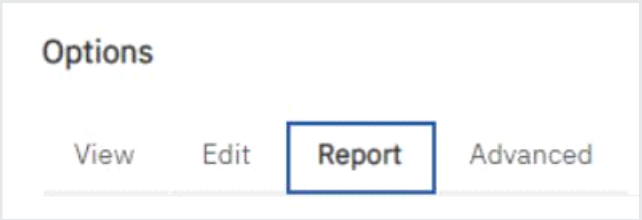
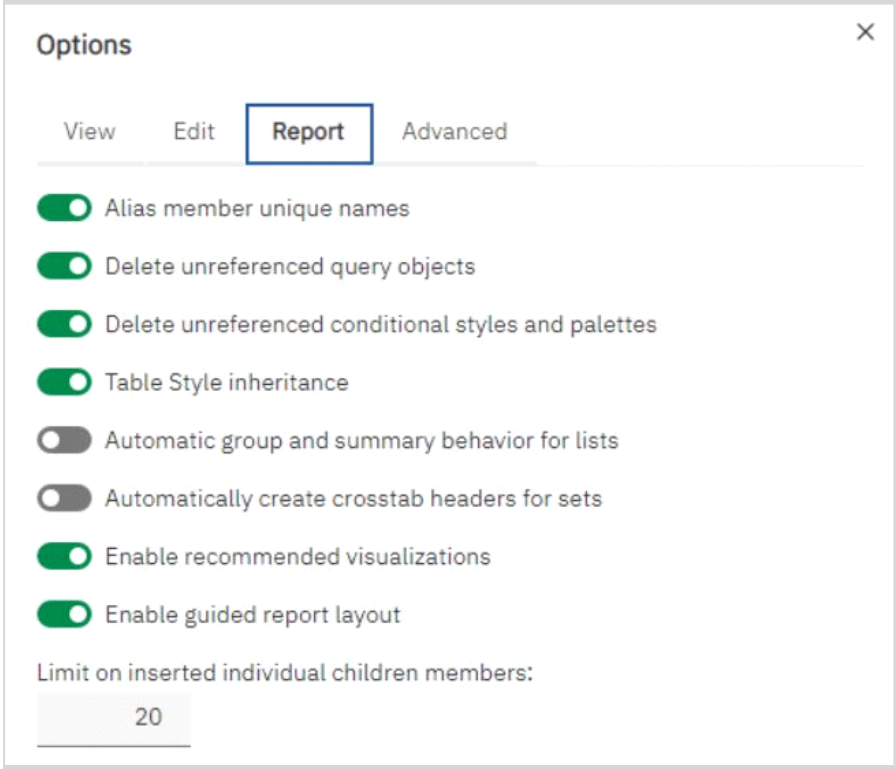


Table 3. Descriptions of the options on the “**Report**” tab ( ) of the “**Options**” window



Option	Description
Alias member unique names	When working with a dimensional data source, creates an alias when you add a member to the report or to an expression.
Delete unreferenced query objects	Automatically deletes query objects linked to another object. For example, if you delete a list, the query linked to the list is deleted as well.
Delete unreferenced conditional styles and palettes	Automatically deletes conditional styles or palettes when the last data item that refers to the conditional style or palette is also deleted.
Table Style inheritance	When a table style is applied to a list or crosstab, specifies whether new objects inserted in the list or crosstab should inherit the style.

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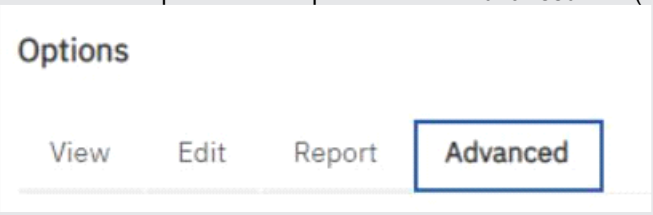
Automatic group and summary behaviour for lists	When working with lists, automatically adds an overall aggregate summary in the list footer and a summary for any groups in the list. When grouping a column, automatically makes it the first column in the list.
Automatically create crosstab headers for sets	When adding sets in a crosstab that uses a dimensional data source, automatically adds header labels on new columns and rows. The headers help consumers of the report to understand where the data is in the hierarchy.
Enable recommended visualizations	Enable or disable the visualization recommender.
Enable guided report layout	Enable or disable guided report layout.
Limit on inserted individual members	This is an option used in dimensional data sources that is a different form than the one used in the DWH.

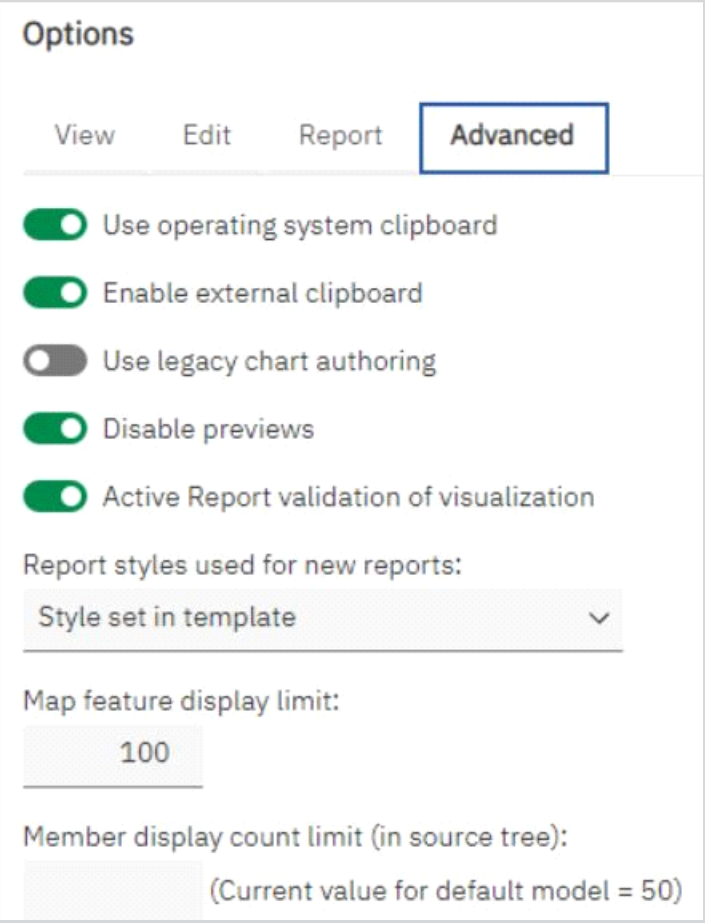
Table 149 - Report Options

8.5.4 Advanced Options

Table 4. Descriptions of the options on the “**Advanced**” tab (



) of the “**Options**” window



Option	Description
Use operating system clipboard	Uses the Microsoft Windows (or other operating system) clipboard instead of the internal Reporting clipboard.
Use legacy chart authoring	Enables you to create new reports using the legacy charts instead of the default charts and disables the automatic upgrade of charts in existing reports to the current default charts. Select this check box if you do not want to upgrade the charts in your existing reports.
Disable previews	When editing properties such as date and number formatting, does not display a sample of the formatting that is applied to data. When this option is not

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	enabled, either sample data or data from your data source is displayed with formatting options applied. Additionally, when in Page Design view, displays a static image for a chart instead of updating the chart with a preview of your chart, using simulated data.
Active Report validation of visualization	Specifies whether to validate visualizations in an active report when the report is run from Reporting.
Report styles used for new reports	Specifies which report styles to use by default when creating new reports.
Map feature display limit	When working with maps, specifies the maximum number of features that can appear in a map.
Member display count limit (in source tree)	When working with dimensional data, specifies the maximum number of members that can appear in the Source tab before you must perform a search.

Table 150 - Advanced Options

8.6 Working with lists

Lists are used to show detailed information from your database, such as product lists and customer lists.

A list shows data in rows and columns. Each column shows all the values for a data item in the database or a calculation based on data items in the database.

User ID	User Name	User BIC	Environment Name	Environment ID
<User ID>	<User Name>	<User BIC>	<Environment Name>	<Environment ID>
<User ID>	<User Name>	<User BIC>	<Environment Name>	<Environment ID>
<User ID>	<User Name>	<User BIC>	<Environment Name>	<Environment ID>

A list showing User ID, User Name, User BIC, Environment Name and Environment ID.

You can specify whether to automatically add an overall aggregate summary in the list footer and a summary for any groups in the list by selecting Automatic group and summary behaviour for lists in the DWH - Reporting options. The default aggregation as specified in your enterprise data source is used.

8.6.1 Set list properties

Format lists to give them the appearance you want. You can specify formatting for individual column titles or bodies or for all columns in a list. When you specify formatting for all columns in a list, the formatting is automatically applied to new columns you subsequently add.

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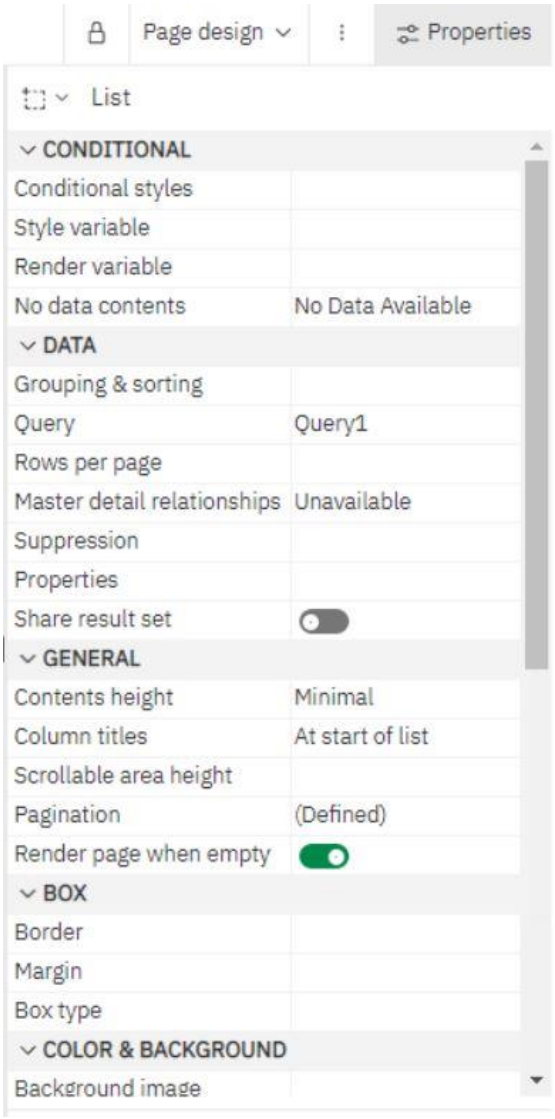

Figure 521 - Set list properties

You can also quickly format lists by applying table styles.

Formatting for specific columns overrides formatting for entire columns. For example, you specify red as the background colour for a specific column body and green as the background colour for all columns. When you run the report, the specific column body is red and the remaining columns in the list are green. New columns added to the list will be green.

Procedure

1. To format an individual column, do the following:
   - Click the column title or column body.
   - To format the text in the column title or the data in the column body, click the "**More**" icon (⋮), then click on "**Columns title style**" (Columns title style) or "**Column body style**" (Columns body style), and then select the formatting style in the properties pane.

– To format the whole column, click the “**Select ancestor**” icon ( ) in the title bar of the Properties pane and click “**List column**” ( ).

– In the Properties pane, set the property value.

For example, to specify a background colour, click “**Background colour**” and choose the colour.

2. To format all columns, do the following:

– Click a column in the list.

– To format list column bodies, click the “**Select ancestor**” ( ) icon in the title bar of the Properties pane and click “**List columns body style**” ( ).

– To format list column titles, click the “**Select ancestor icon**” ( ) In the title bar of the Proper-ties pane and click “**List columns title style**” ( ).

– To format entire columns, click the “**Select ancestor**” icon ( ) in the title bar of the Properties pane and click “**List columns**” ( ).

– To format the entire list, click the “**Select ancestor**” button ( ) in the title bar of the Properties pane and click “**List**” ( ).

You can also click the container selector (three orange dots) of the list to select it.

– In the Properties pane, set the property value.

For example, to specify a background colour, click “**Background colour**” and choose the colour.

8.6.2 Hide column in reports

You can hide columns from the output of list reports. If you select to hide a column, the query for that column is still executed.

- Select the column that you want to hide.
- Click the “**Select ancestor**” icon ( ) in the title bar of the Properties pane and click “**List column**” ( ).
- Set the “**Render**” property to “**No**”.

Figure 522 - Hide column in reports -List column properties - Conditional - Set Render to No

So the result is: When you run your report, the column is hidden in the report output.

8.6.3 Create a scrollable list

When the list contains many rows of data, it is clever to use a list you can scroll:

- Select the entire list by clicking the container selector (three orange dots) of the list.

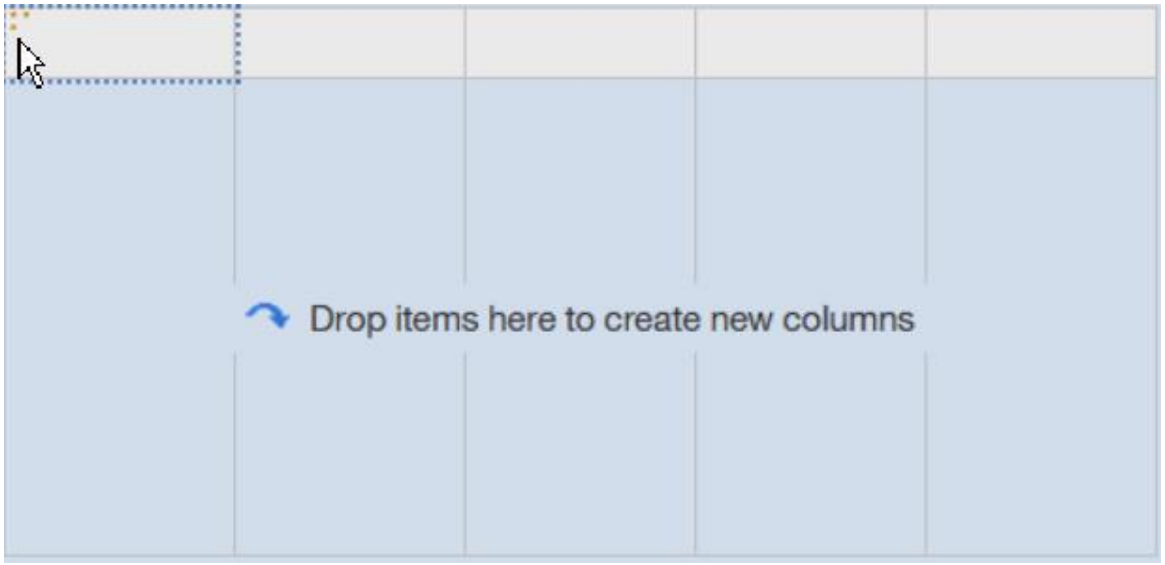

Figure 523 - Create a scrollable list

- In the DWH toolbar, click the "**Show properties**" icon (Properties).
- In the properties sheet of the list, specify the height of the scrollable area, in pixels, that you want by typing a value in the Scrollable area height property.

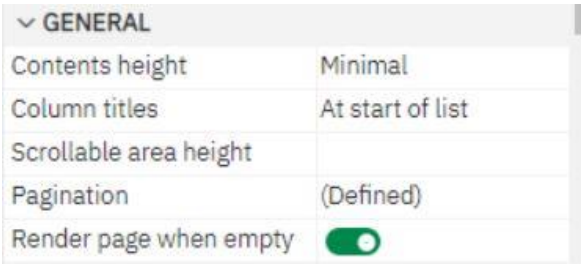

Figure 524 - Create a scrollable list - Properties - General - Scrollable area height

8.6.4 Using Repeaters

Use repeaters to repeat items when you run the report. For example, you can use repeaters to create mailing labels, including customer names and addresses.

To build a repeater, drag the "**Repeater**" or "**Repeater table**" object from the "**Toolbox**" tab to the work area

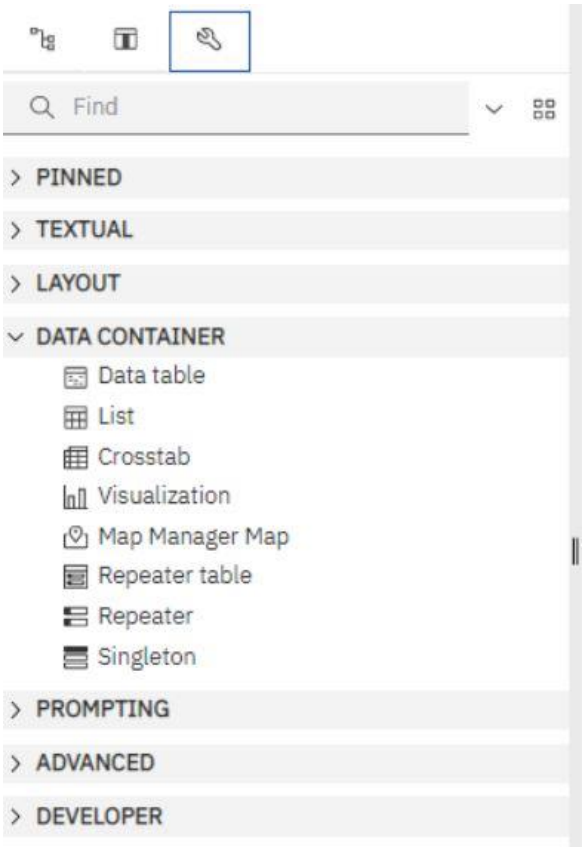

Figure 525 - Using Repeaters - Data container - Repeater/Repeater table

Use repeaters to repeat items across a single row without a particular structure. For example, you want to create a list that contains Year, and Number of Transactions. For each year, you want all "**Number of Transactions**" to appear in a single row. To do this, create a list with Year as a column and a repeater as a second column.

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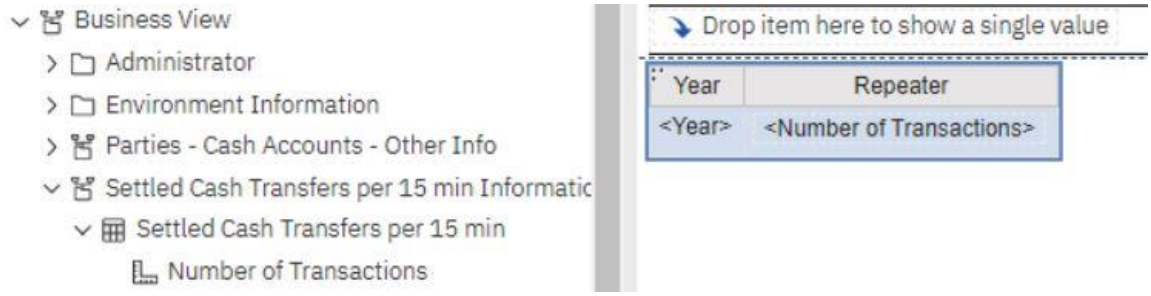

Figure 526 - Using Repeaters - List with all Number of Transactions in a single row

Then insert "**Number of Transactions**" into the repeater.

Use "**Repeater table**" to repeat items in a table structure. Drop the items in the repeater, and modify the properties of the repeater to obtain the results you want.

For example, you can specify how many frames appear per page in a repeater table by typing values in the "**Across**" and "**Down**" properties.

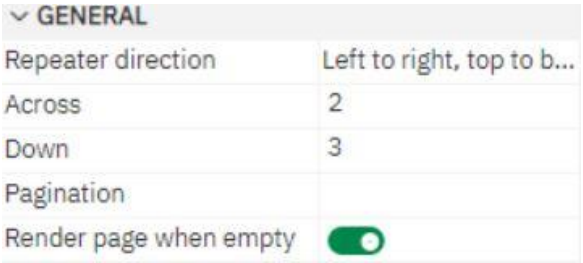

Figure 527 - Using Repeaters - Properties - General - Across and Down

Horizontal pagination is not supported for data containers, such as lists or crosstabs, which are nested in repeater tables.

8.6.5 Change a list into a crosstab

Change a list into a crosstab to view your data from a different perspective.

Click the columns to appear as columns or nested columns in the crosstab.

From the report object toolbar, click the "**More**" icon (⋮) and choose "**Pivot List to Crosstab**".

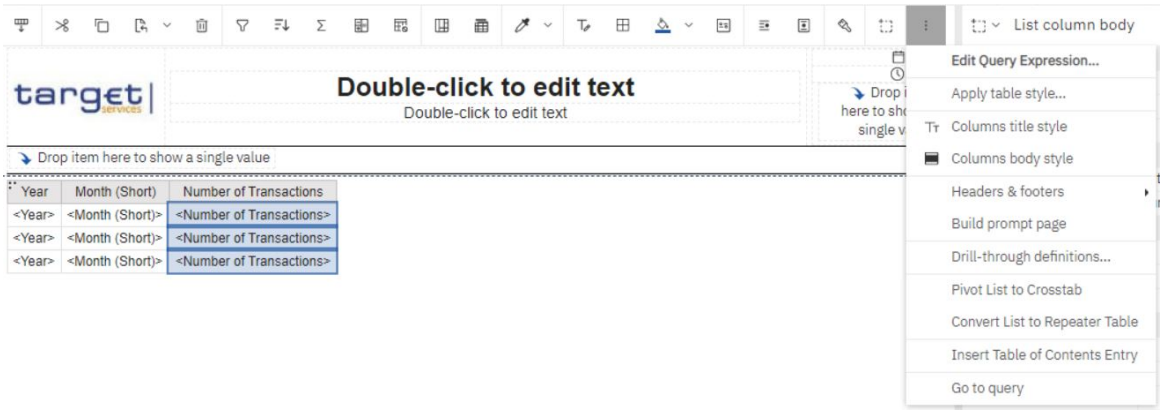

Figure 528 - Change a list into a crosstab - More icon - Pivot List to Crosstab

The list becomes a crosstab with the columns you selected in step 2 appearing as columns and nested columns. The unselected columns, except for measures, appear as rows and nested rows. If you have one measure, it becomes the cells of the crosstab. If you have more than one measure, they appear as columns.

To make all measures appear as rows, swap columns and rows (⇄).

8.7 Working with crosstabs

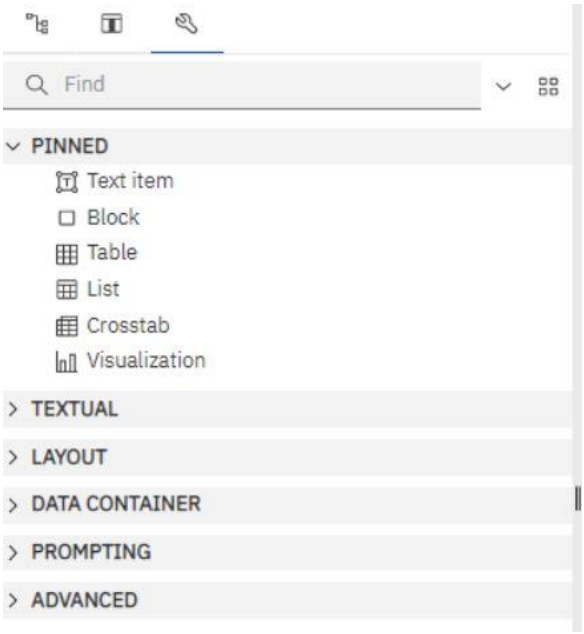

Figure 529 - Working with crosstabs - Data container - Crosstab

Use crosstab reports, also known as matrix reports, to show the relationships between three or more query items. Crosstab reports show data in rows and columns with information summarized at the intersection points.

Swap columns and rows to look at information from a different perspective. This may help you discover high and low points in the data that you had not previously noted.

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You can only swap columns and rows in a crosstab or chart. In a chart, you swap the x- and y-axes.

From the toolbar, click the “**Swap rows and columns**” button (⇄)

In the report, the rows become the columns and the columns become the rows.

8.7.1 Crosstab nodes and Crosstab nodes members

When you add data items to crosstabs rows and columns, you create crosstab nodes and crosstab node members. These objects allow you to easily create crosstabs, by dragging data items to crosstabs. Cross-tabs are dimensional objects that have row edges and column edges. Each edge is composed of a set of crosstab nodes. Each crosstab node contains the following:

- One or more crosstab node members.
- Zero or one nested crosstab node, which contains one or more crosstab node members or nested crosstab nodes.

Each crosstab node member refers to a data item that contains an expression to define the members in the crosstab. The following crosstab contains four crosstab nodes.

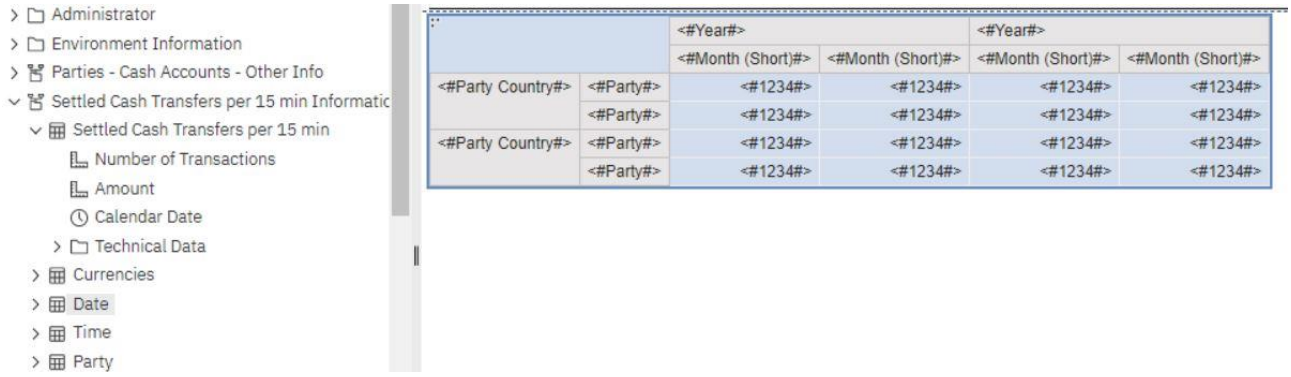

Figure 530 - Crosstab nodes and Crosstab nodes members

1. Crosstab node 1 contains a single node member for the total. This node refers to the data item Total (Party Country).
2. Crosstab node 2 contains a crosstab node member that refers to the data item Party Country. This member has a nested crosstab node containing a crosstab node member that refers to the data item Party.
3. Crosstab node 3 contains a single node member for the average. This node refers to the data item Average (Party Country).
4. Crosstab node 4 contains a crosstab node member that refers to the data item “**Year**”. This member has two nested crosstab nodes. The first node contains a crosstab node member that refers to the data item “**Month**”. The second node contains a crosstab node member for the total. This node refers to the data item “**Total**” (Month).

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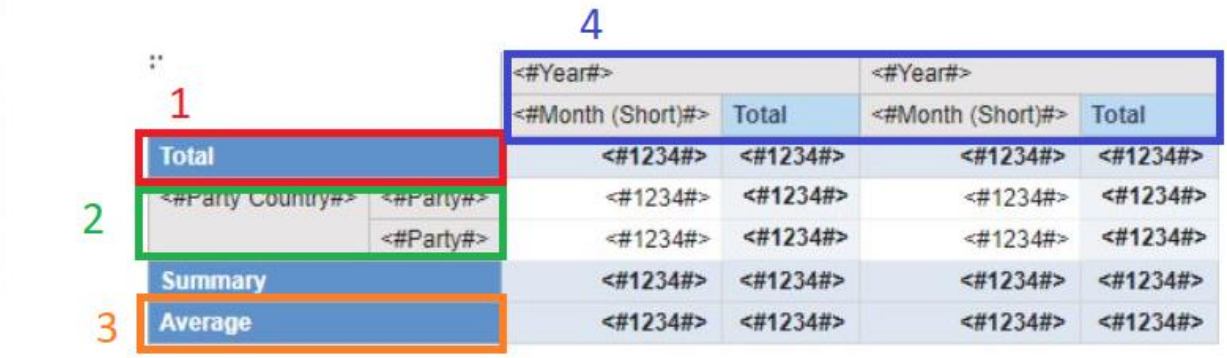

Figure 531 - Crosstab nodes and Crosstab nodes members (2)

Nodes are also created when you add data items to charts.

Crosstab nodes can be placed anywhere in the crosstab. For example, in the previous diagram, you can drag "**Month**" under "**Average**" to create a row edge.

To move nested items from one edge to another, ensure that you select the crosstab node and not the crosstab node member. For example, in the previous diagram, you want to move "**Party Country**" and "**Party**" to the column edge. To do this, click "**Party Country**" and, in the Properties pane, click the "**Select ancestor**" ( ) button and click "**Crosstab**" (Crosstab).

Node. Both "**Party Country**" and "**Party**" are selected.

The DWH - Reporting option Allow crosstab nesting beside individual items ("**More**" icon in the application bar ( ), Options, Edit tab) affects the drag-and-drop behaviour in crosstabs. When the option is turned on and you add a data item to a crosstab, the item is created as a crosstab node. In addition, you can nest items under individual items instead of only on the entire crosstab edge. If the option is turned off, the item is created as a crosstab node member to an existing crosstab node.

For example, in the previous diagram, if the option is turned on and you drag "**Week**" or "**Day**" from the "**Source**" tab to beneath Year, Day or Week becomes a new peer node to "**Year**". If the option is turned off, "**Day**" or "**Week**" becomes a new peer node to "**Year**" and has "**Month**" as a nested crosstab node. This happens because instead of adding a new node, you are adding a new member to the existing node that already contains "**Year**".

To create discontinuous crosstabs, turn the option on. If you want the items on the edges of crosstabs to be related (contain the same nested items), turn the option off.

8.7.2 Set Crosstabs properties

Format crosstabs to give them the appearance you want. You can specify formatting for rows, columns, and fact cells in a crosstab or for the entire crosstab. When you specify formatting for all rows, columns, fact cells,

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or the crosstab, the formatting is automatically applied to any new items you add. If you apply the same styles, such as font colour, to crosstab rows, columns, and crosstab intersections, the styles are applied in the following order:

- Crosstab fact cells
- fact cells in the outermost rows
- fact cells in the innermost rows
- fact cells in the outermost columns
- fact cells in the innermost columns
- crosstab intersections

The style applied to the last object in the list overrides styles applied to previous objects. In addition, class styles are applied before styles that you apply manually.

You can also quickly format crosstabs by applying table styles and add white space to a crosstab by inserting crosstab space objects.

In cases where fact cell formatting applied to rows conflicts with fact cell formatting applied to columns, you can set the ”**Fact cells precedence**” property in the Properties pane to determine whether the row formatting or the column formatting precedence has. To set this property, click anywhere in the crosstab, click the “**Select ancestor**” icon ( ) in the title bar of the Properties pane, and click “**Crosstab**”.

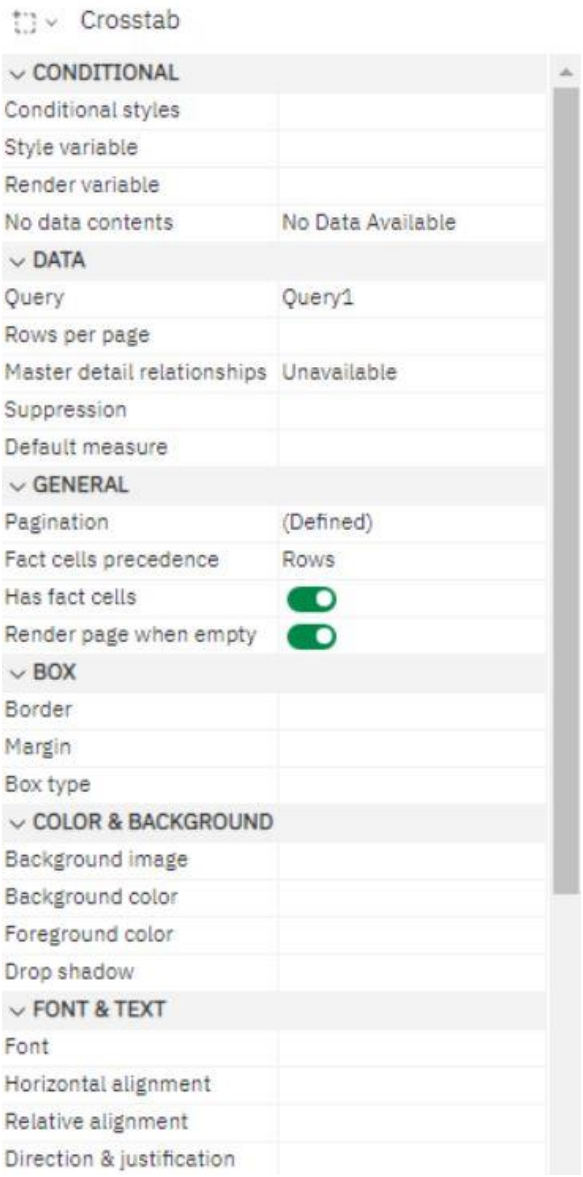

Figure 532 - Set Crosstabs properties

Or you can click the container selector (three orange dots) of the crosstab to select it.

1. To format the entire crosstab, do the following:
   - Click anywhere in the crosstab.
   - Click the “**Select ancestor**” icon ( ) in the title bar of the Properties pane and click “**Crosstab**”.
   - In the Properties pane, set the property value.

     For example, to specify a background colour, click “**Background colour**” and choose a colour.
2. To format all rows, columns, or fact cells, click a row, column, or fact cell in the crosstab and then do the following:

– If you clicked a row, click the "**Select ancestor**" icon ( ) in the title bar of the Properties pane and click "**Crosstab rows**".

– If you clicked a column, click the "**Select ancestor**" icon ( ) in the title bar of the Properties pane and click Crosstab Columns.

– If you clicked a fact cell, click the "**Select ancestor**" button ( ) in the title bar of the Properties pane and click "**Crosstab fact cells**".

– In the Properties pane, set the property value.

For example, to specify a background colour, click "**Background colour**" and choose the colour.

You can also right-click the row or column and click "**Select fact cells**".

3. To format all crosstab cells for a specific row or column, do the following:

– Click the row or column.

– Click the "**Select ancestor**" icon ( ) in the title bar of the Properties pane and click "**Crosstab member fact cells**".

You can also right-click the row or column and click "**Select member fact cells**".

– In the Properties pane, set the property value.

For example, to specify a background colour, click "**Background colour**" and choose the colour.

4. To format all row or column titles, do the following:

– Click a row or column title.

– Click the "**Select ancestor**" icon ( ) in the title bar of the Properties pane and click "**Crosstab rows" or "Crosstab columns**".

– In the Properties pane, set the property value.

For example, to specify a background colour, click "**Background colour**" and choose the colour.

5. To format an individual row, column, or intersection, do the following:

– Click the row, column, or intersection.

To format the data in a row, column, or intersection, click the "**Lock page objects**" ( ) icon to unlock then click the text item to format.

– In the Properties pane, set the property value.

For example, to specify a background colour, click "**Background colour**" and choose the colour.

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8.7.3 Create a Single-Edge crosstab

Create a single-edge crosstab report to show data in a list-like form. For example, to show the quantity of products sold for each year and for each order method, you could create a crosstab with Year and Month as rows and Number of Transactions per Day as the measure.

Click the "**Toolbox**" icon (), and drag a crosstab object to the work area.

From the "**Sources**" tab (), drag data items to the "**Rows**" or "**Columns**" drop zone.

A black bar indicates where you can drop the data item.

Repeat step 2 to insert additional data items:

If you dragged the data item in step 2 to the "**Rows**" drop zone, drag the additional items above or below the first item.

If you dragged the data item in step 2 to the "**Columns**" drop zone, drag the additional items to the left or right of the first item.

To add measures to the crosstab, drag the measures to the "**Measures**" drop zone.

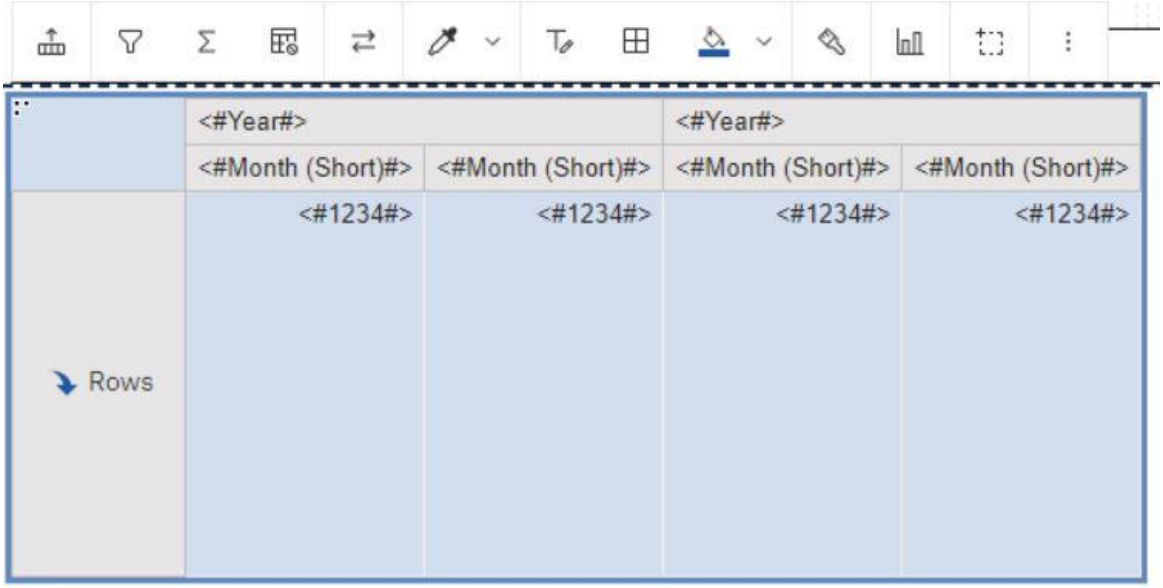

Figure 533 - Create a Single-Edge crosstab

When you run the report, a crosstab is produced that has only one edge.

8.7.4 Create a nested Crosstab

Nest data in a crosstab report to compare information by using more than one data item in a column or row. For example, a report shows the number of transactions by country party per year. You decide to add a data

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item to further break down the number of transactions by “**Month**”. When nesting columns in a crosstab report, there are four distinct drop zones where you can insert a new data item. The drop zone you choose will define the relationship between the data item and the column.

The following relationships are created when you insert a data item as a row:

Inserting a data item to the left or right of a column creates a parent-child relationship between them. When you insert a data item to the left of a column, the data item becomes a parent to the column. When you insert a data item to the right of a column, the data item becomes a child of the column.

Inserting a data item above or below a column creates a union relationship between them.

The following relationships are created when you insert a data item as a column:

Inserting a data item to the left or right of a column creates a union relationship between them.

Inserting a data item above or below a column creates a parent-child relationship between them. When you insert a data item above a column, the data item becomes a parent to the column. When you insert a data item below a column, the data item becomes a child of the column.

For example, you have a crosstab with “**Country Party**” as rows and “**Party**” as nested row. For columns, you have “**Year**” with “**Month short**” or “**Month**” as a nested column.

In this crosstab, “**Party Country**” is a parent to “**Party**”.

“**Month**” and “**Month short**” are peers.

“**Year**” is a parent to “**Month**” or “**Month short**”.

- From the “**Sources**” tab ( ), click the data item to add.
- Drag the data item to the report as a nested column or nested row.

  A black bar indicates where you can drop the data item.
- Repeat steps 1 to 2 to add other nested columns or rows.

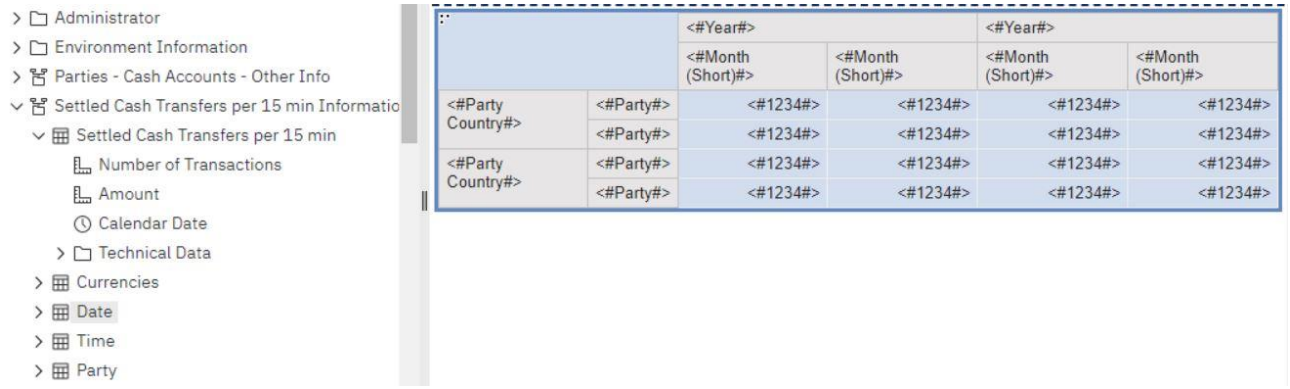

Figure 534 - Create a nested Crosstab

8.7.5 Creating headers automatically for sets in crosstabs

You can automatically add header labels on columns and rows when working with sets in a crosstab that uses a dimensional data source. The headers help consumers of the report to understand where the data is in the hierarchy.

Header labels are added only when you add new sets to your crosstab. The labels are not added to existing sets. After you enable this option, it remains on until you disable it, and applies to any new crosstabs that you create.

Click the "**More**" icon ( ), click "**Options**", then click the "**Report**" tab.

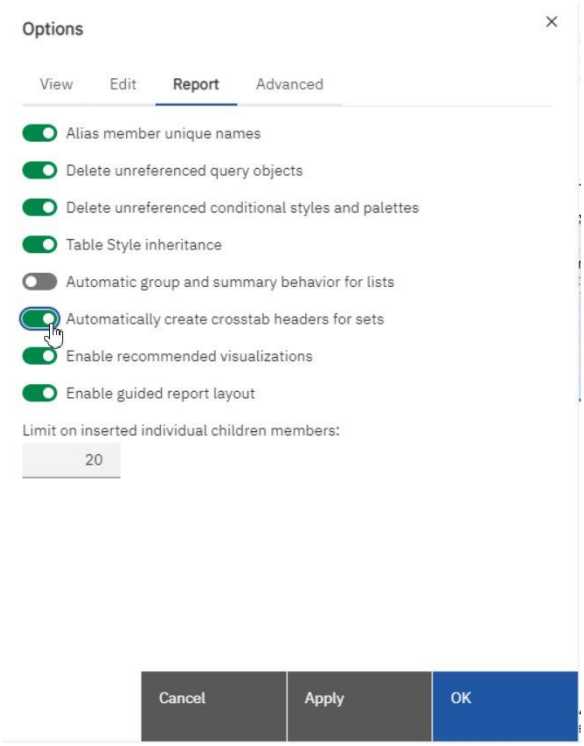

Figure 535 - Creating headers automatically for sets in crosstabs

Select "**Automatically create crosstab headers for sets**".

Click OK.

Header labels are now created in the rows and columns in a crosstab.

8.7.6 Showing Crosstab values as percentages

When you work with dimensional data sources, you can show crosstab values as a percentage of a sum-mary instead of the actual values. When you show values as a percentage, you can compare the contribution of an item to the whole.

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You can show crosstab values as a percentage of a summary on the rows, the columns, or the rows and columns.

By default, the summary type that is used to calculate the percentages is Automatic summary. When you show values as a percentage, a percentage measure data item is created.

You can also create a custom percentage calculation. For example, you can show values as a percentage of an intersection (tuple). Or you can show values as a percentage of a different summary type, such as "**Maximum**".

When you show values as a percentage, the fact cells are formatted with the percent data format. When you show the actual values, the fact cells are formatted with the number format. If you modify the data for-mat of the actual values, the change is lost when you switch between showing the actual values and percentage values.

You can show values as a percentage only in crosstabs. If you insert a chart, you cannot fill the chart with data from a crosstab that shows values as a percentage. If you create a chart from a crosstab that shows values as percentages, an empty chart is created in the report.

- Select the measure for which you want to show values as a percentage.

  If there is only one measure in the crosstab, click the crosstab corner.

- From the report object toolbar, click the "**More**" icon ( ), click "**Show value as**", and click the percentage values that you want to show.
- If you click Custom, provide the information that is required to calculate the percentage values.
  - To change the default name of the percentage data item that you are creating, type the new name in the Name field.
  - In the Percentage based on box, choose to build the percentage data item based on a summary of sets in the crosstab or based on an intersection (tuple).
  - If you choose to build the percentage data item based on a summary of sets, in the Choose sets box, click the sets that you want to use. Then, click "**Summary type**" and select the summary that you want to use to calculate the percentage values.

    If there is more than one data item on the crosstab edge that you chose for the sets, select which data item that you want to use.
  - If you choose to build the percentage data item based on an intersection (tuple), click the ellipsis and select the items that you want to use to create the intersection.
  - Click "**OK**".
- To edit a measure percentage data item, follow these steps.
  - Select the measure.
  - From the report object toolbar, click the "**More**" icon ( ), click "**Show value as**" > Edit.

– Modify the information for the data item as described in step 3.

– If you replaced a set in the crosstab with a different set, in the Choose sets box, click “**Existing sets**” when you want to base the percentage values on the set that you replaced.

8.7.7 Specify the Default Measure

You can specify the default measure for crosstabs and certain chart types. Specify the default measure to be used when the measures cannot be determined by what is on the edges. For example, you create a crosstab with “**Order method**” as rows and “**Product line**” as columns. You add “**Quantity**” and “**Revenue**” as nested rows, making “**Order method**” their parent. You then add “**Country**” or “**Region**” under “**Order method**”. Since there is no measure specified for “**Country**” or “**Region**”, you specify the default measure so that data is returned for each country or region.

In crosstabs, DWH - Reporting automatically sets the default measure when you insert a measure into the crosstab cells.

To specify the default measure for a crosstab, do the following:

– Click any part of the crosstab, and then click the “**Select ancestor**” icon ( ) in the title bar of the Properties pane.

– Click Crosstab.

You can also click the container selector (three orange dots) of the crosstab to select it.

Set the “**Default measure**” property to the default measure.

Figure 536 - Specify the Default measure

To specify the default measure for a chart, drag the measure to the Default measure box in the chart.

8.7.8 Indent data

You can indent crosstab node members to set them apart from surrounding data.

When you insert a hierarchy in rows, all members are automatically indented according to their level. By default, the first member in a set is not indented. If you insert a hierarchy in columns, the members are not automatically indented. You can change the indentation properties of members in the report.

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Relative indentation means that the member will shift by one tab when the member's level increases relative to the previous member in the hierarchy.

Indenting based on the level in the hierarchy means that the member will shift the number of tabs equivalent to the level in the hierarchy.

You can also indent objects by applying padding.

- Click the crosstab node member to indent.
- In the Properties pane, set the “**Level indentation**” property to your indentation type, length, and direction.

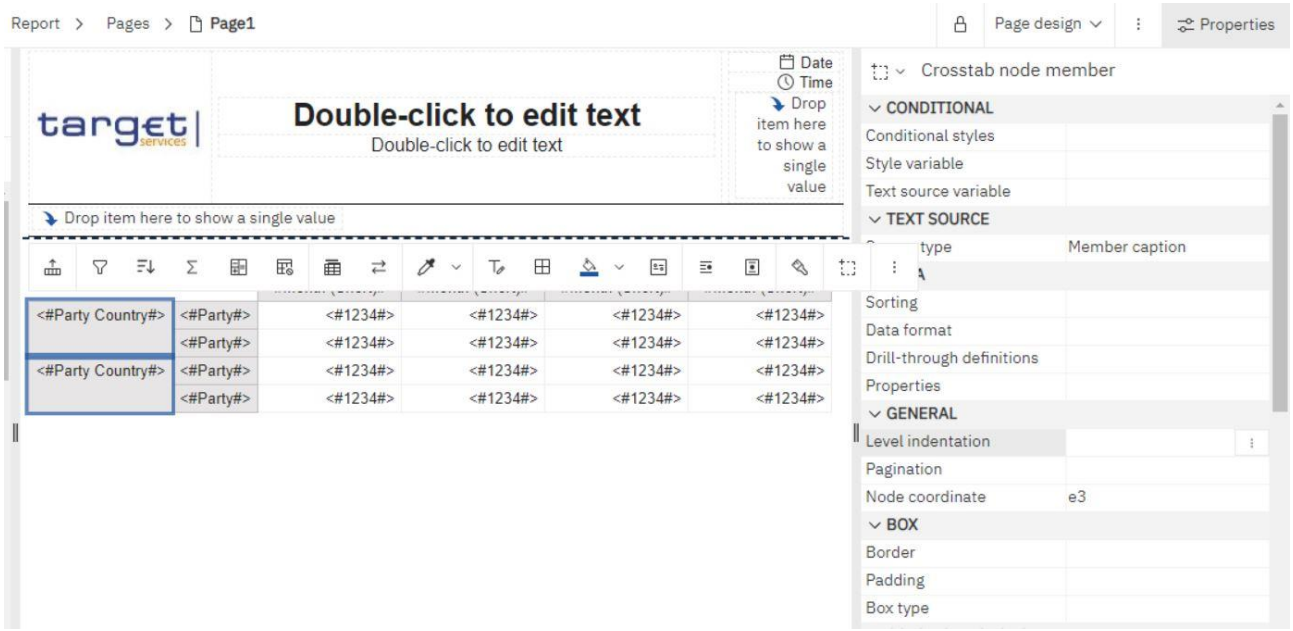


Figure 537 - Indent data - Properties pane - General - Level indentation

8.8 Working with Visualisations

Before creating visualizations, review the available visualisations to select the best type for your needs.

To view the available visualization types, add a Visualization object from the “**Toolbox**” pane ( ) to an existing report.

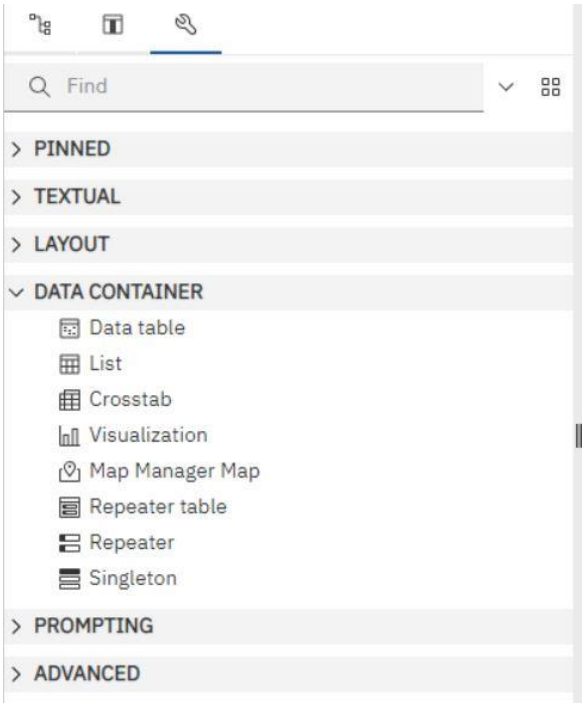


Figure 538 - Working with Visualisations - Data container - Visualization

In the Visualization gallery window, select "**11.1 Visualizations**" from the menu.

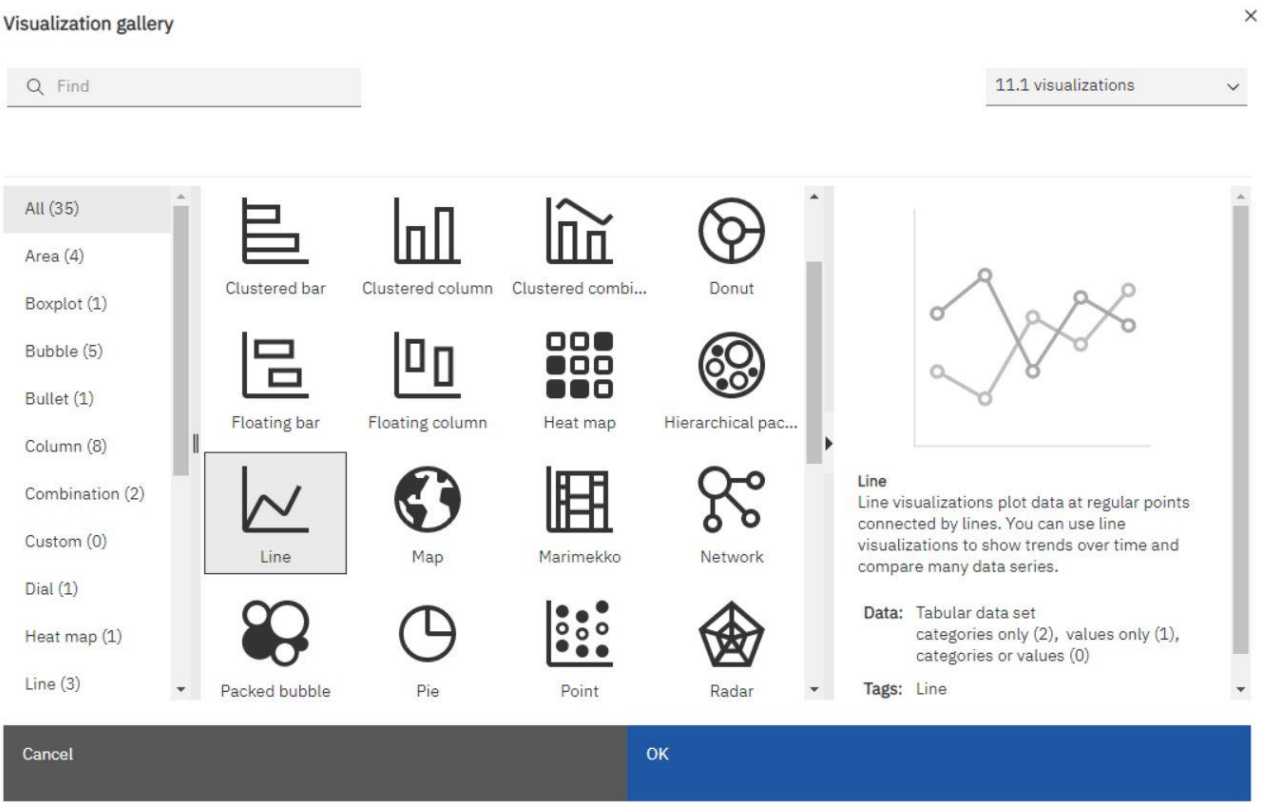


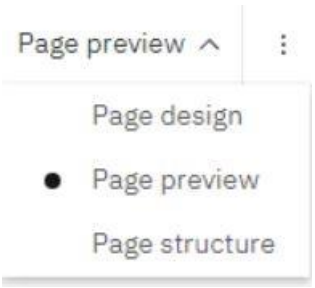
Figure 539 - Working with Visualisations - Visualization gallery

To create charts, drag data items from the "**Source**" tab ( ) to the measures, data series and categories drop zones.

When you are working with dimensional data sources, do not insert member properties in the series or categories of a chart. By default, DWH - Reporting groups items that are inserted in these areas. Grouping member properties produces a warning when you validate the report.

To help you when creating visualizations, you can do the following:

- Preview your visualization style changes:



As you author your visualization and edit the visualization properties, DWH - Reporting provides you with a preview of your visualization, using simulated data. This allows you to view your style changes without running your report. You need to run your report to see the visualization with your actual data. You can disable the visualization preview in the options.

- Resize your visualization:
- Move the visualization drop zones into flyouts so that they appear only when you pause your pointer over the visualization.

After you create a basic visualization, modify the various chart objects to customize your visualization.

The DWH provides a number of recommended visualisations based on the data that you are working with.

Using a machine learning pipeline that is derived from training data and the input from visualization specialists, the DWH matches your data with the visualizations that illustrates your data.

When you drag a measure or column on to the canvas, the DWH chooses a recommended visualization for you. You can change it by selecting another visualization from either recommended visualizations or from all visualizations.

8.8.1 Comparing measures in a visualization

You can compare measures from the same category in a visualization by adding multiple measures to the measure fields

For example, you can compare the unit price with the unit sale price.

- Create a bar or column visualization.

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- Drag a member to the Bars field.

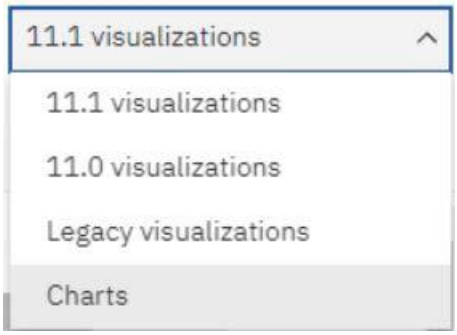
The visualization display different bars for the measures. The colouring is determined by the measures from the Length field.

Comparing measures is only available for the following visualization:

Area, Bar, Column, Hierarchical packed bubble, Packed bubble, Point, Clustered combination, Stacked combination, Line, Tiled map, Pie, Radar, Treemap, Waterfall and Wordcloud.

8.8.2 Adding a baseline to a visualization

Baselines are horizontal or vertical lines that cut through the "**chart**" to indicate major divisions in the data. Baselines can be used only in the "**Charts**"



For example, you can add a baseline to show a sales quota or break-even point.

In visualizations, you can define baselines by values on the numeric axis or the category axis.

Each baseline represents a value on an axis.

Depending on the type of visualization, you can use the following options to position the baseline.

Option	Description
Numeric Value	Uses a static numeric value.
Category Index	Uses the index value of the data item in the categories axis. For example, a Category index value of 1 indicates that the baseline is at the first data item. This is the default.
Percent on Axis (%)	Uses a percentage of the full range of the axis.

Table 151 - Adding a baseline to a visualization

For example, if the axis range is "**-500 to 1100**", a Percent on Axis value of 25% puts the baseline at "**-100**" (25% of the range, 1600).

- Click the visualization in a report.

- Depending on your chart and the type of baseline you want to add, in the Properties pane , under "**Visualizations**" > "**Annotations**", select the "**Baselines**"

CHART ANNOTATIONS	
Legend	Top right
Numeric baselines	
Category baselines	

- Click the "**New**" icon (+) and choose the type of baseline from the list.

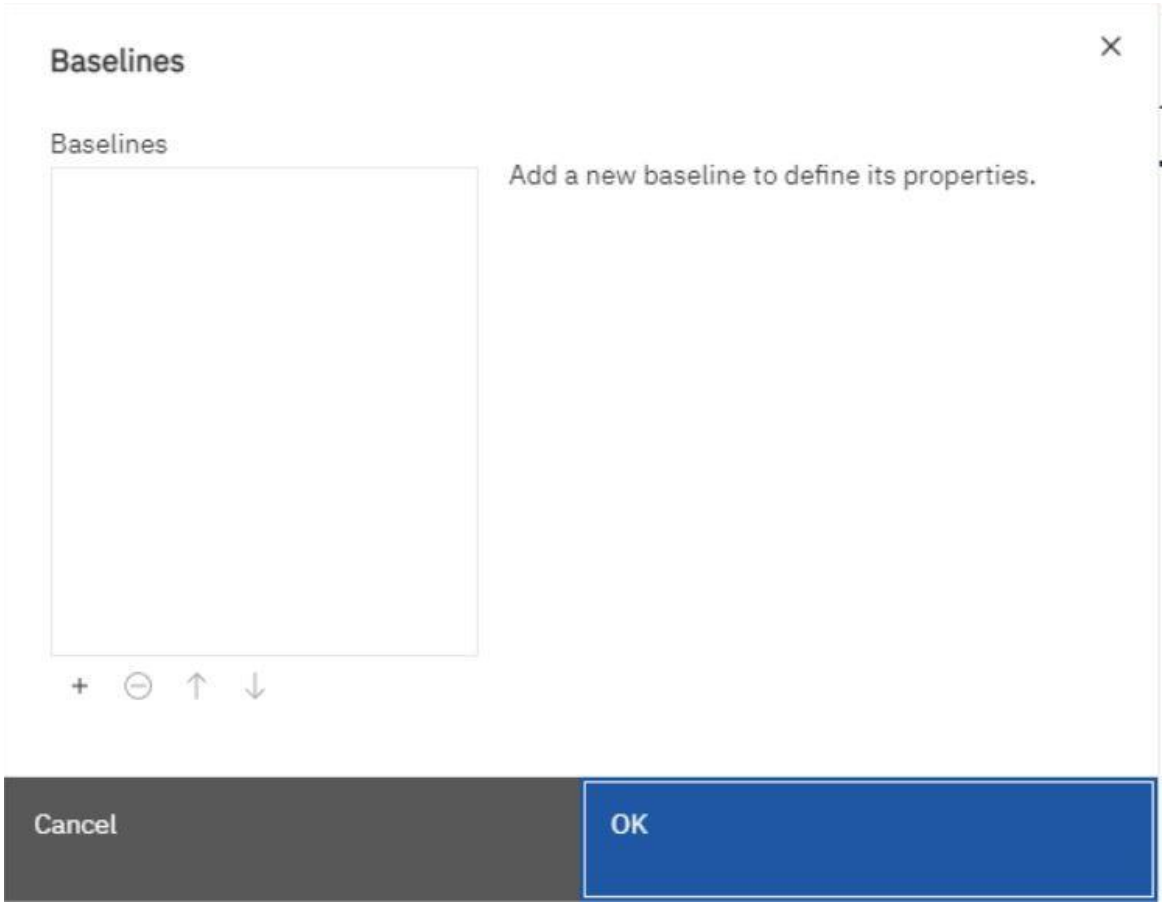


Figure 540 - Adding a baseline to a visualization

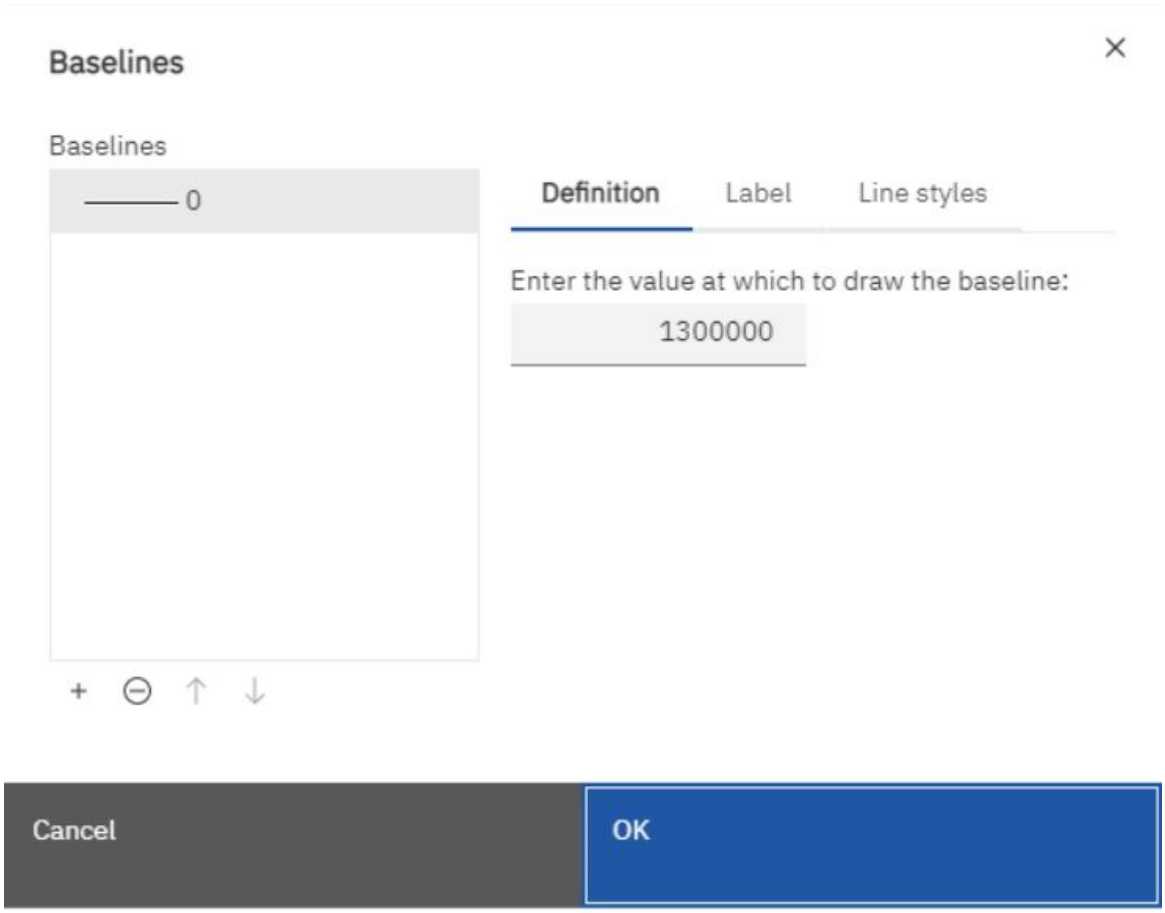


Figure 541 - Adding a baseline to a visualization - Baselines

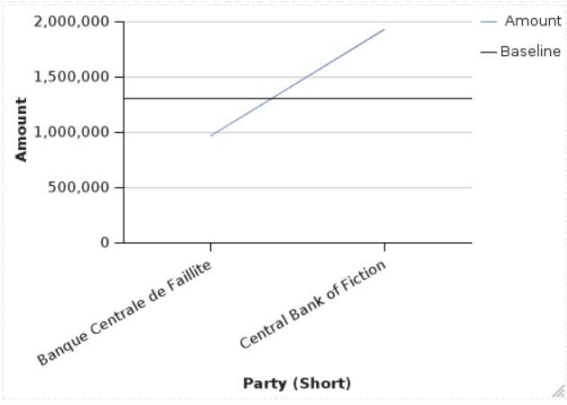


Figure 542 - Adding a baseline to a visualization - Baseline at 1.300.000

- Specify the necessary criteria for the baseline position.
- Under "**Baseline Properties**", type a label for the baseline and specify the line style and colour and the position of the label from the Baseline menu.

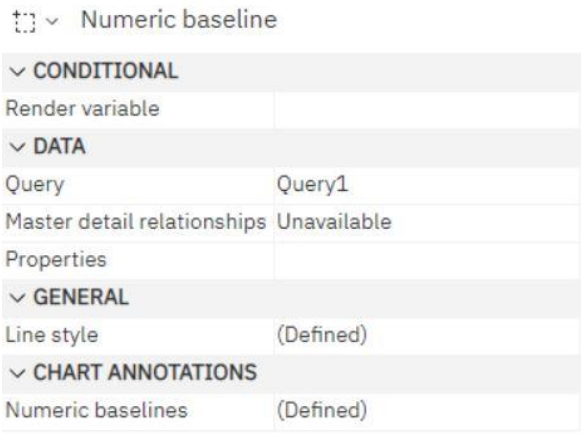


Figure 543 - Adding a baseline to a visualization - Baseline properties

The new baselines appear in the Baselines box.

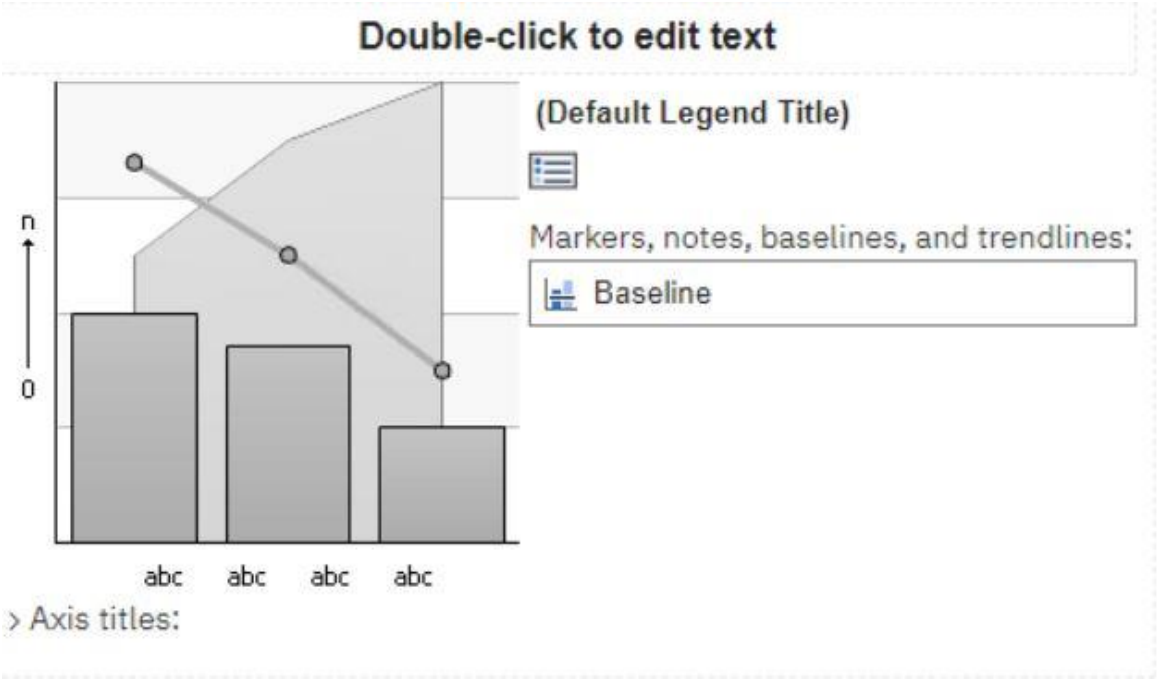


Figure 544 - Adding a baseline to a visualization - Baselines box

- To delete a baseline, select the baseline in the Baselines box and click the "**Delete**" icon ( ).

8.8.3 Change visualization from one type to another

You can change a visualization from one type (for example, a bar chart) to another type (for example, a line chart).

When you change an existing visualization to a new visualization type, DWH - Reporting keeps the proper-ties from the existing visualization if those properties exist in the new chart type. For example, if you change a pie

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visualization to a bar visualization, Reporting maps your visualization palette to the new visualization, but does not map the exploding slices, because the exploding slices property does not exist in a bar visualization.

- Click a visualization and, from the report object toolbar, click the "**Change chart type**" icon ( ).
- From the list, select a new chart type.
- If some chart properties cannot be converted, the "**Chart property changes dialog box**" appears notifying you of the properties that cannot be converted.

8.9 Charts

You can use reporting to create many chart types, such as column, bar, area, and line charts. To add a "**Chart**" to your report, you have to click on the "**Toolbox**" ( ) and select "**Visualization**". In the "**Visualization gallery**" window select "**Charts**" instead of "**11.1 visualization**".

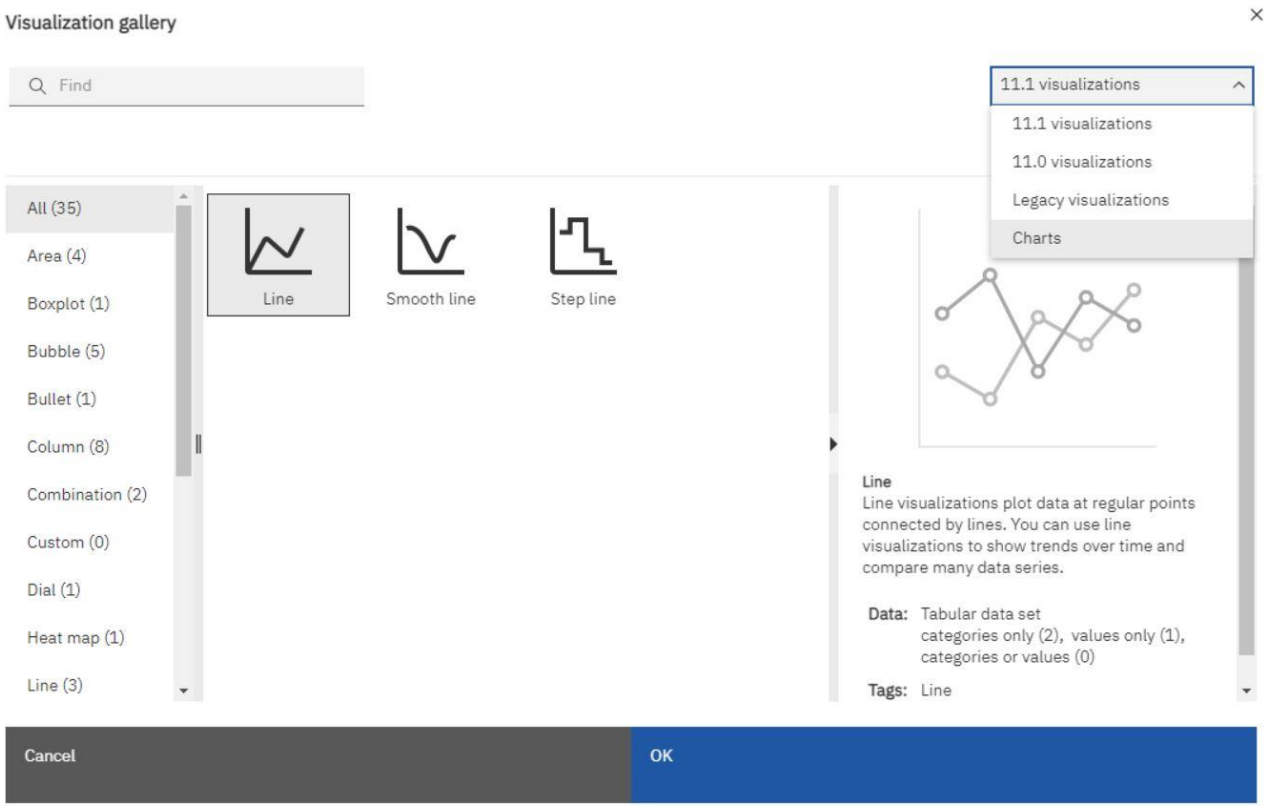


Figure 545 - Charts - Visualization gallery

8.9.1 Change Chart from one type to another

You can convert a chart from one type (for example, a bar chart) to another type (for example, a line chart).

When you convert an existing chart to a new chart type, DWH - Reporting keeps the properties from the existing chart if those properties exist in the new chart type. For example, if you convert a pie chart to a bar chart, Reporting maps your chart palette to the new chart, but does not map the exploding slices, be-cause the exploding slices property does not exist in a bar chart.

- Click a chart and, from the report object toolbar, click the "**Change chart type**" icon ( ).

From the list, select a new chart type.

If some chart properties cannot be converted, the "**Chart property changes dialog box**" appears notifying you of the properties that cannot be converted.

8.9.2 Customizing chart properties

After you create a chart, you can customize it by changing its properties.

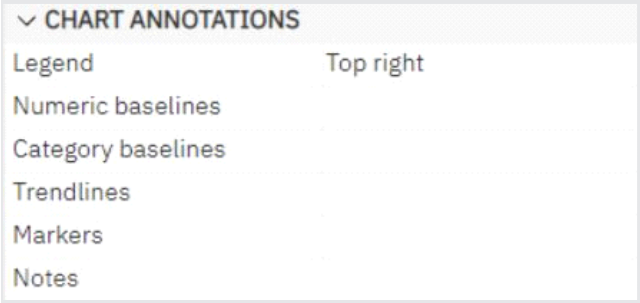
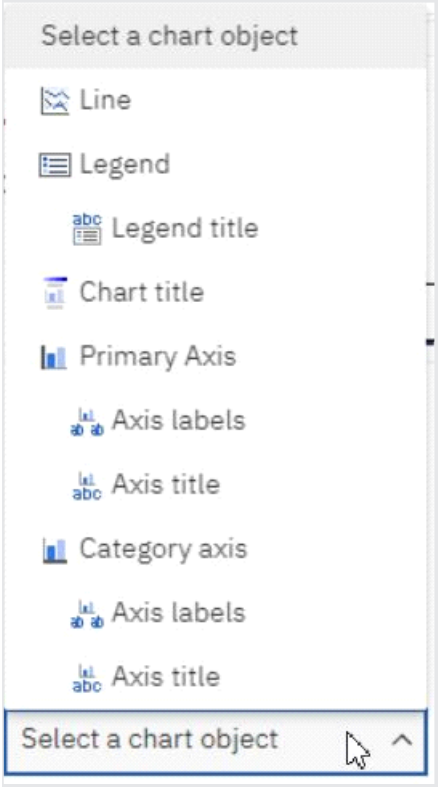
You select the chart object in DWH – Reporting to view its properties. Some properties are dependent on the existence of other properties.

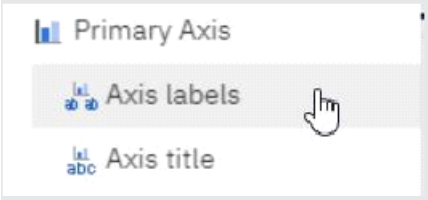
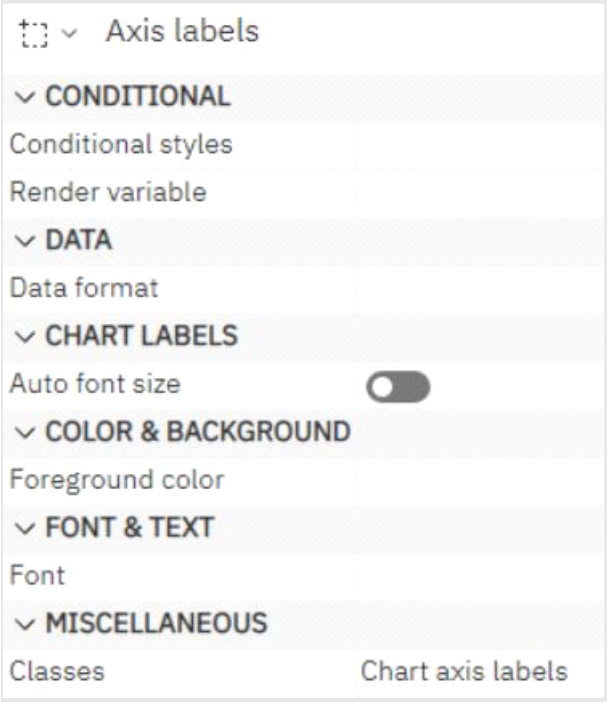
If you are familiar with using conditional variables, you can customize the chart to change its appearance or provide information in response to expressions or conditions.

As you edit the chart properties, Reporting provides you with a preview of your chart, using simulated data. This allows you to view your style changes without running the report. You can disable the chart preview in the options.

The following table shows some of the properties you can change in charts. These properties are available when you select the chart object unless specified otherwise in the Action to perform in the Properties pane column.

Goal	Action to perform in the Properties pane
Hide or show the title, subtitle, or footer	Select the chart. Under "**Chart Titles**", set the "Title", "**Subtitle**", or "**Footer**" property. CHART TITLES Title Show Subtitle Hide Footer Hide
Hide or show the legend	Select the chart. Under "**Chart Annotations**", set the "**Legend**" property.

	
Hide or show baselines	Select the chart. Under “**Chart Annotations**”, set the “**Baselines**” property.
Change the colours of the labels	Select ”**Select a chart object**”.  Then select one of the “**Axis labels**”

	 In this properties you can change everything which is related to the labels. 
Hide or show trendlines	Select the chart. Under “**Chart Annotations**”, set the “**Trendlines**”.
Hide or show markers	Select the chart. Under “**Chart Annotations**”, set the “**Markers**” property.
Hide or show notes	Select the chart. Under “**Chart Annotations**”, set the “**Notes**” property.
Hide or show the axes	Select the chart. Click “**Select a chart object**” Select the Y Axis (Primary Axis) or the X Axis (Category Axis).

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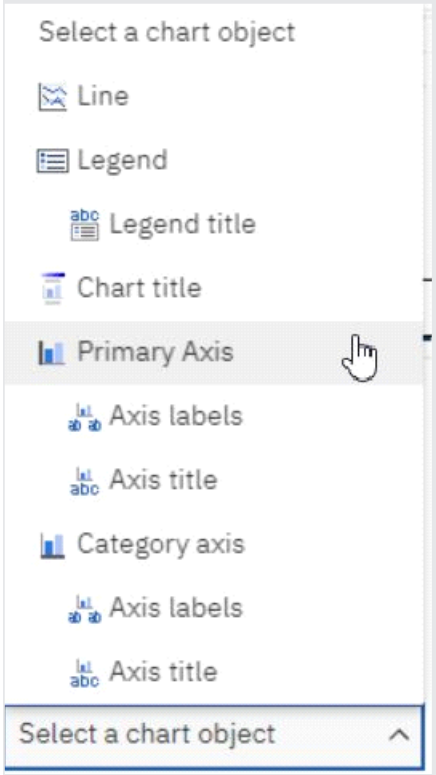
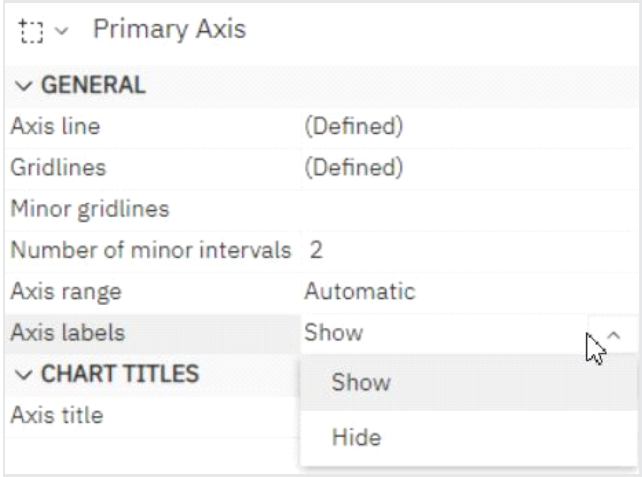
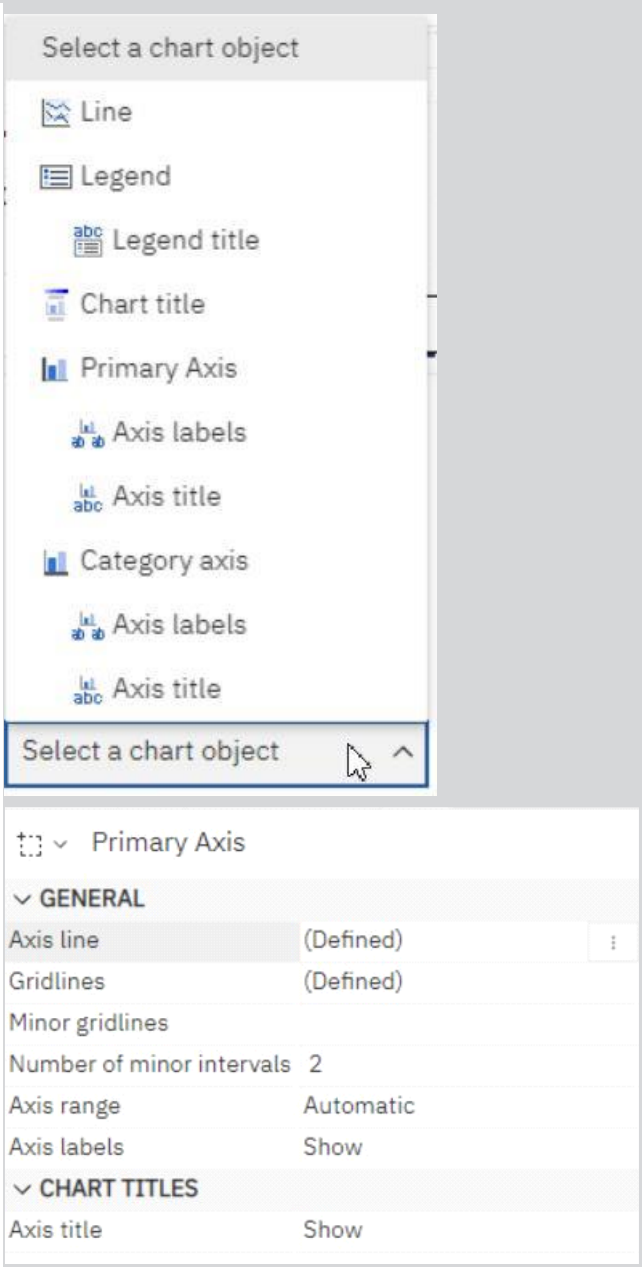
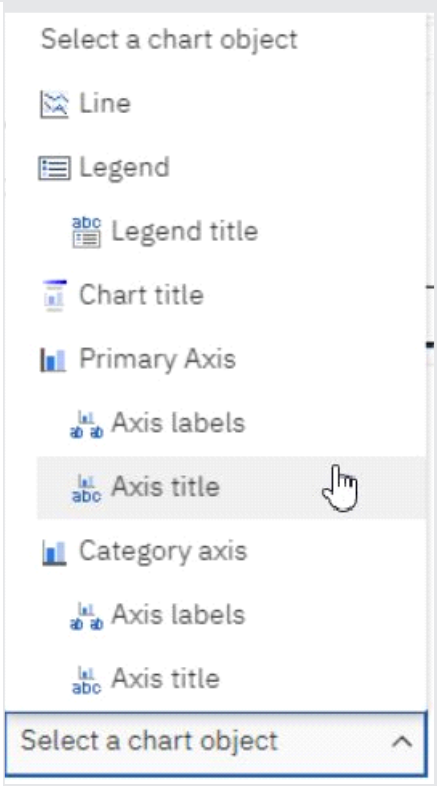


In the properties you can hide or show the Axis labels.

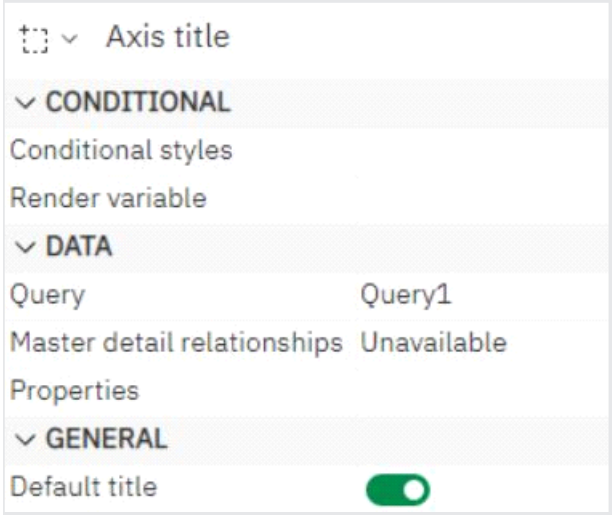


Hide or show the axis title or axis line	Select the axis. Under “**General**”, set the Axis Line or Axis Title property.

	
Change an axis title	Select the axis title.



Under “**General**”, set the “**Default title**” property to “**No**”, and then double-click the axis title and type a new title.



You can use the Properties pane to change the axis title properties, such as font, positioning, colour etc.

Change axis properties, such as range, scale interval etc.	Select the chart. Click “**Select a chart object**” Select the “Primary axis”. In the properties under “**General”** select “**Axis range**”.

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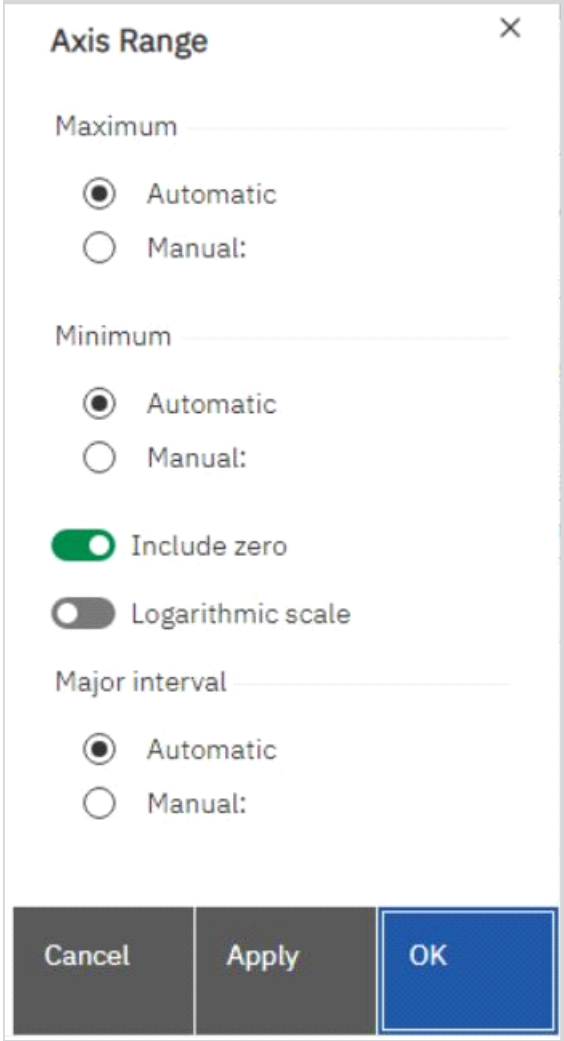
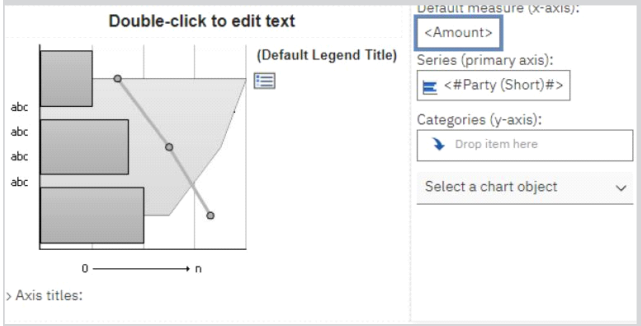
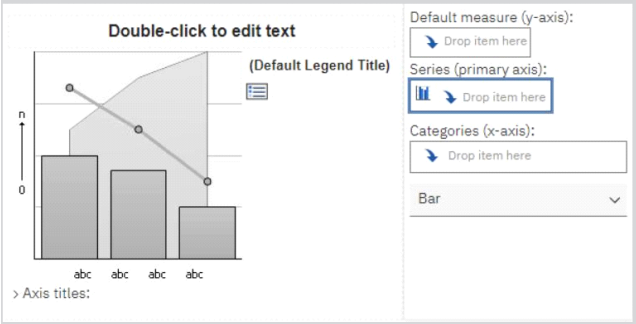
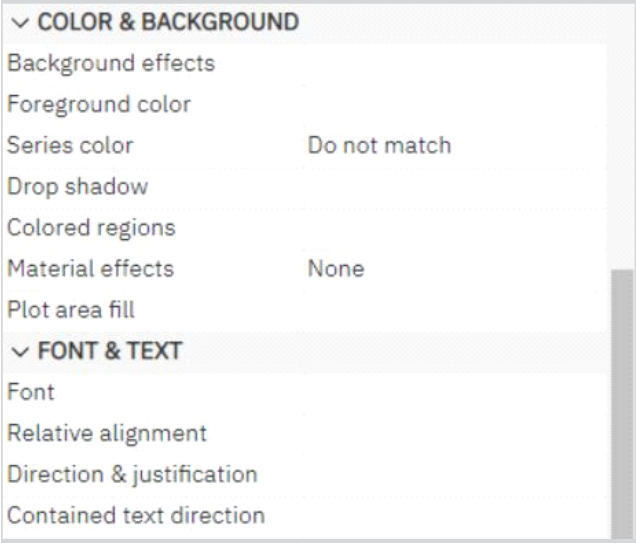
Set the “**Maximum**” value, “**Minimum**” value or “**Major interval**”



Hide or show the tooltips	Select the chart. Under “**General**” in the properties, set the “**Tooltips**” property.

	 When you pause your pointer over a data marker in the report output, the corresponding absolute or cumulative value appears in a tooltip. Tooltips are not supported in PDF output.
Change the data format	Select the item you want to change the data format from the chart object.  In the properties under “**Data**”, set the “**Data format**” property.
Change the white space around the chart	Select the chart. Under “**Box**”, set the “**Padding**” or “**Margin**” property.
Change the colour or pattern in the palette for columns, lines, and areas	Select the item “**Series**” from the chart object.

	 In the properties under "**Colour & Background**", set the palette or conditional palette property.
Change the chart orientation	Select the chart. In the Properties pane, under "**General**" select Chart Orientation, for Vertical or Horizontal presentation.
Change the default colour or font for all chart objects	Select the chart. Under "**Colour & Background**", set the "Background effects", "**Foreground colour**", or fill effects property. 
Override the default font or colour for axes and chart values	Click "**Select a chart object**" then select the "**Axis labels**" or "**Axis title**" to set the "**Font**", "**Foreground colour**", or fill effects property.

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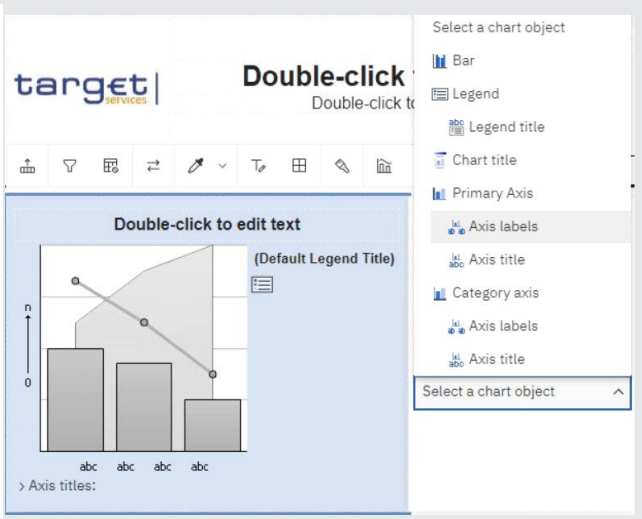

Axis labels

CONDITIONAL	
Conditional styles	
Render variable	
DATA	
Data format	
CHART LABELS	
Auto font size	No
COLOR & BACKGROUND	
Foreground color	
FONT & TEXT	
Font	
MISCELLANEOUS	
Classes	Chart axis labels

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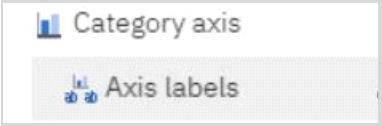
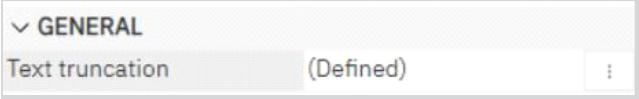
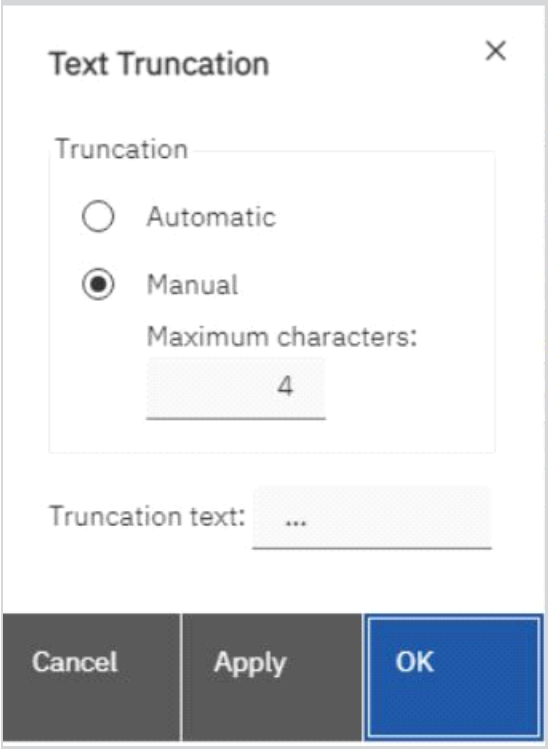
Insert a background image or watermark in the chart body.	Select the chart object. In the properties under “**Colour & Background**” select the “**Background effects**” to set the image.
Go to another report	Select the chart. Under “**Data**”, set the “**Drill-through definitions**” property.
Specify which labels and values to use when generating the text shown on the chart	Select the chart. Click “**Select a chart object**” then select the “**Category axis**” “**Axis labels**”.  In the properties under “General” select “**Text truncation**” to define the maximum of the characters for the values.   When you show all the labels and values on some chart types, such as scatter charts, bubble charts, and polar charts, the text shown might be too long

Table 152 - Customizing chart properties

8.9.3 Adding a note to a chart

You can add and position multiple notes on your chart.

- Select the chart object.
- In the Properties pane (Properties), under “**Chart Annotations**”, double-click the “**Notes**” property.
- Click the “**New**” icon (+).
- Type the note text in the “**Text box**” and click “**OK**”.
- To delete a note, click the note and click the “**Delete**” button (🗑). To move a note up or down in the list, click the up or down arrows.

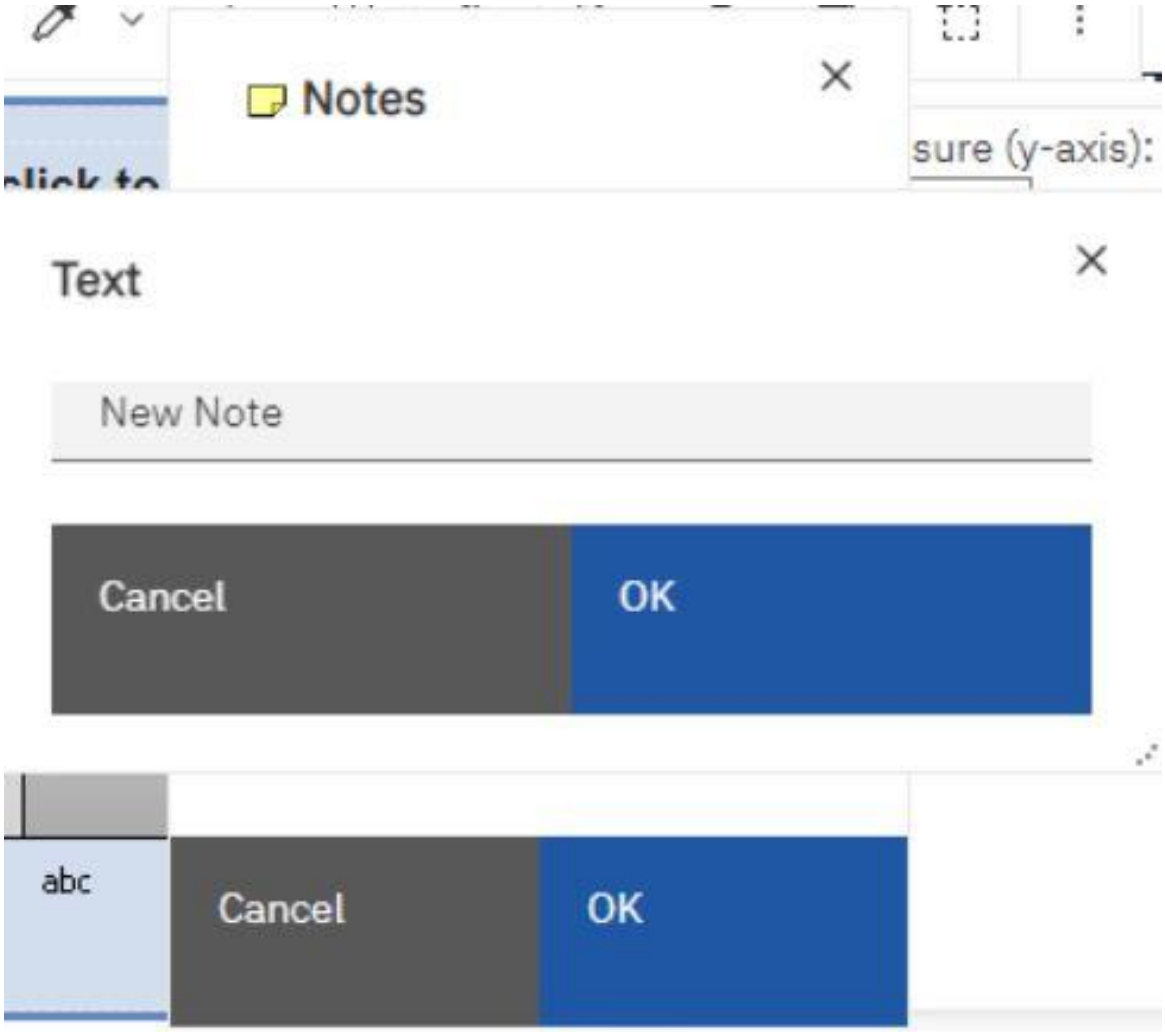


Figure 546 - Adding a note to a chart

- In the “Notes dialog box”, click “OK”.

- Only for Current Default Chart:
- To position the note, do the following :
  - Click the note icon ( ) in the chart.
  - In the Properties pane, under “**Positioning**”, double-click the “**Position**” property.
  - To align the note horizontally, click the left, middle, or right alignment button.
  - To align the note vertically, click the top, middle, or bottom alignment button.
  - To set the margins around the chart body, type margin values and choose margin units.
  - To display the note at a set distance from the sides of the chart area, from the “**Anchor**” list, click “**Relative to chart**”.
  - To display the note at a set distance from the sides of the chart body, from the “**Anchor**” list, click “**Relative to chart body**”.
  - To display the note at a set distance from a data item, from the “**Anchor**” list, click “**Report expression**”, click the three dots button beside “**Expression**”, and enter an expression in the “**Report expression dialog box**”.
  - To edit the text, double-click the text next to the note object ( ) in the chart.

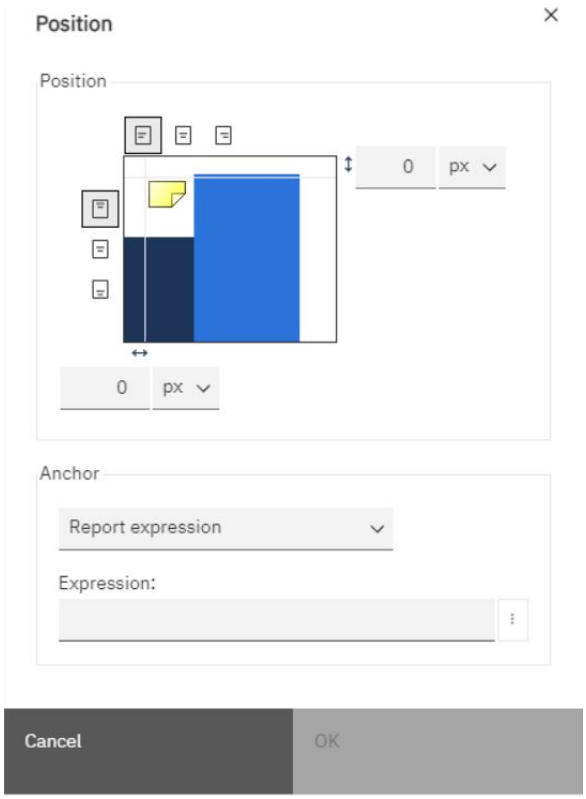


Figure 547 - Adding a note to a chart - Position the node / Expression

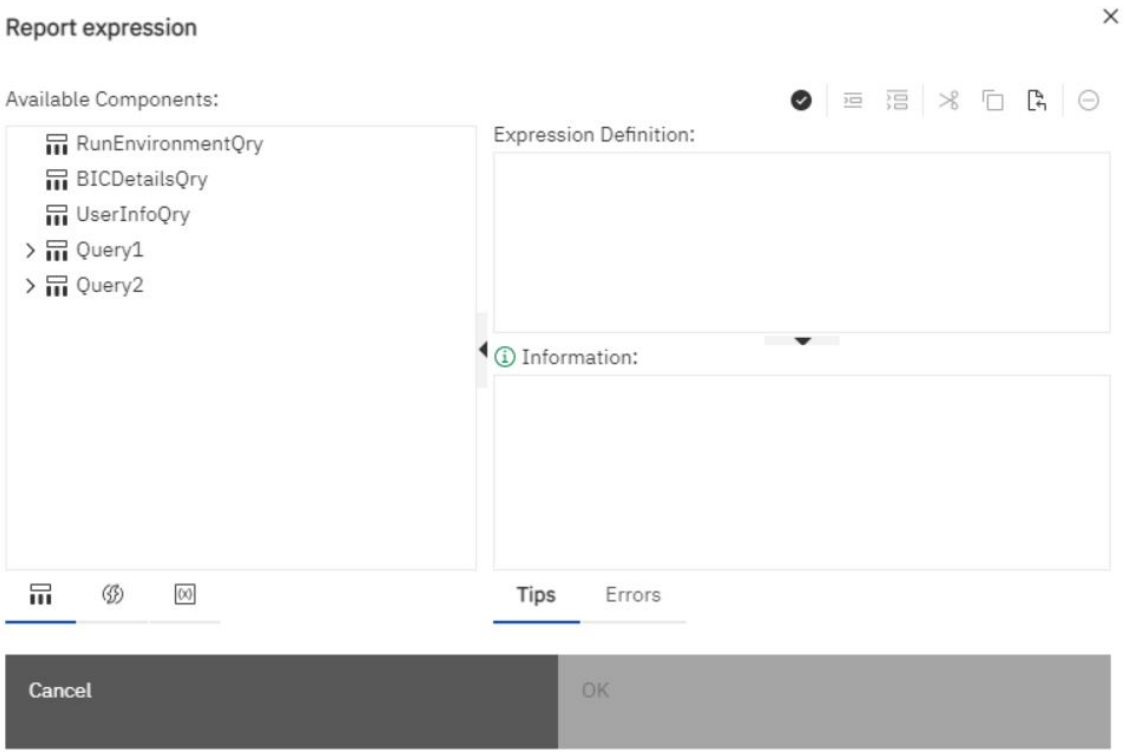


Figure 548 - Adding a note to a chart - Report expression

8.9.4 Adding a baseline to a chart

In charts, you can define baselines by values on the numeric axis or the category axis.

- Click the chart object.
- Depending on your chart and the type of baseline you want to add, in the Properties pane, under "**Chart Annotations**", double-click the "**Numeric baselines**" or "**Category baselines**" property.

CHART ANNOTATIONS	
Legend	Top right
Numeric baselines	
Category baselines	

- Click the "**New**" icon (+) and choose the type of baseline from the list.

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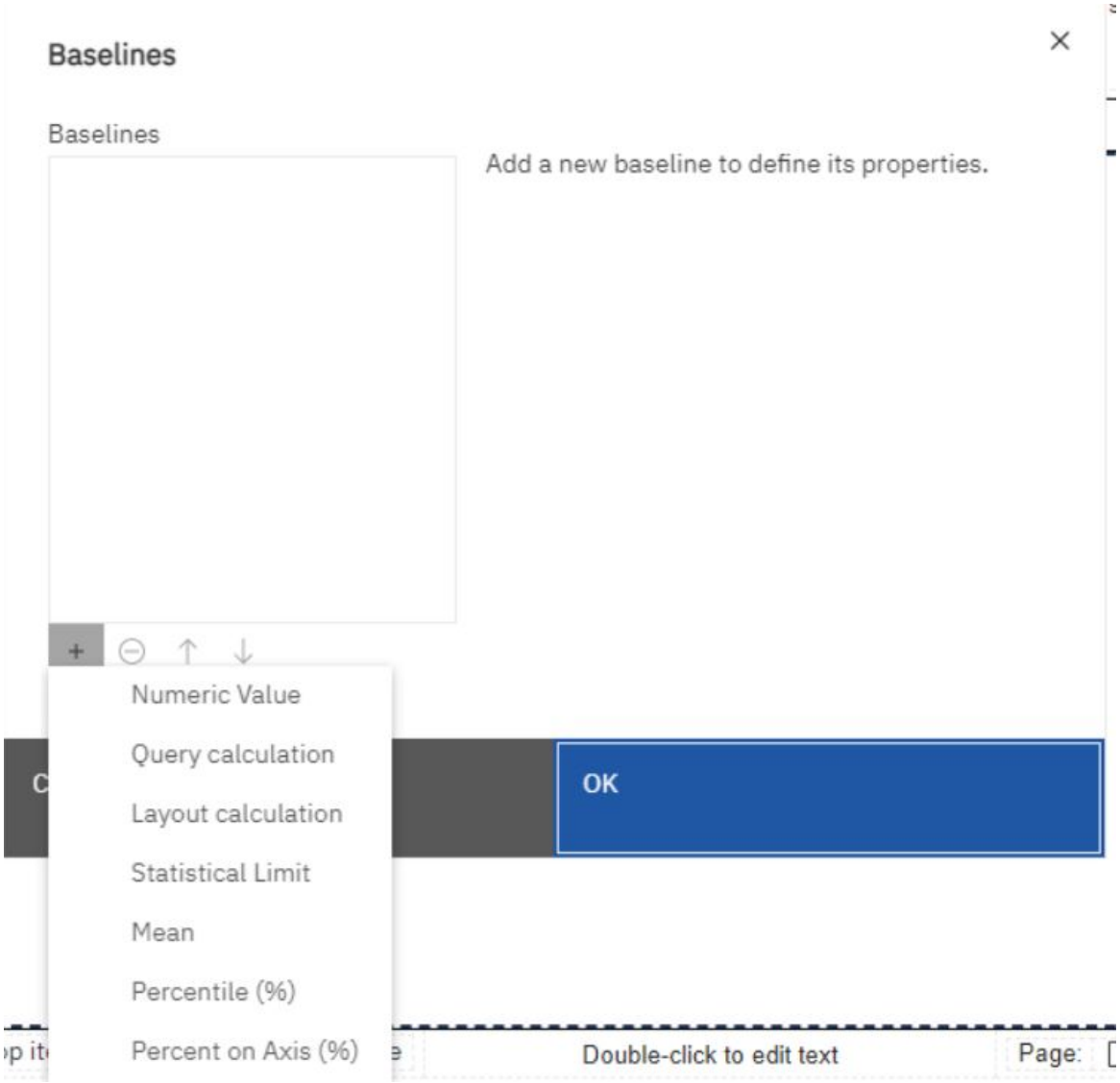

Figure 549 - Adding a baseline to a chart

- Specify the necessary criteria for the baseline position
- Under “**Baseline Properties**”, type a label for the baseline and specify the line style.
- To remove the baseline from the legend, delete the label.
- If you add more than one baseline, specify their order using the up and down arrows.
- The new baselines appear in the markers, notes, baselines, and trendlines box.
- To change the label that appears next to the baseline, under the markers, notes, baselines, and trendlines box, double-click the placeholder text next to the “**Baseline**” icon ( ) numeric and type your text.
- To change the line style, select the chart and in the Properties pane, under “**Chart Annotations**”, double-click the “**Baselines**”, “**Numeric baselines**”, or “**Category baselines**” property.
- To delete a baseline, select the “**Baseline**” icon ( ) and click the “**Delete**” button ( ).

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8.9.5 Adding a marker to a chart

Markers are symbols that you add to a chart to designate points of significance that can help you analyse or understand the data.

For example, you might want to add a marker to designate the time when a significant event happened, such as the date when a new product was launched.

You can add a marker to combination, progressive column, pareto, scatter, and bubble charts.

When you define the position of the marker, you define the X- and Y-axes coordinates for the placement of the symbol. You can position the marker in the chart using the following options.

Option	Position
Numeric Value	Uses a static numeric value.
Query Calculation	Uses a query calculation from the same query or from a different query.
Layout Calculation	Uses a layout calculation.
Statistical Minimum	Uses the following expression: 25th percentile value - 1.5 * (75th percentile value - 25th percentile value) For example, if 2.5 is the 25th percentile and 7.5 is the 75th percentile, the statistical minimum is -5 [2.5 -1.5(5) = -5]. Statistical minimum uses percentiles to determine values, and might not always appear in the chart if the values are off the axis.
Statistical Maximum	Uses the following expression: 75th percentile value + 1.5 * (75th percentile value - 25th percentile value) For example, if 2.5 is the 25th percentile and 7.5 is the 75th percentile, the statistical maximum is 15 [7.5 +1.5(5) = 15]. Statistical maximum uses percentiles to determine values, so the marker might not always appear on the chart if its value is off the axis.
Mean	Uses the statistical mean plus or minus a number of standard deviations based on all charted data values on the specified axis.
Percentile	Uses a specified percentile.
Percent on Axis	Uses a percentage of the maximum axis value.

Table 153 - Adding a marker to a chart

If you apply more than one marker, you can specify the order in which they should be drawn when the re-port runs. If you have two markers with the same coordinates, the first one in the list is drawn first and the next one is drawn after the first.

To add a marker in a current default chart do the following:

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1. Select the chart object.
2. In the Properties pane, under “**Chart Annotations**”, double-click the “**Markers**” property.
3. Click the “**New**” icon (+), and then set the marker properties
4. In the Based on box, select the chart object that will determine the marker position.
5. In the “**Numeric position**” box, specify how you want to define the position on the numeric (Y) ax-is.
6. In the “**Category position**” box, specify how you want to define the position on the category (X) axis.
7. In the marker “**Label**” box, type the label that you want to give to the marker.
8. In the marker “**Size**” box, specify the size of the marker symbol.
9. To specify the colour, fill, and shape of the marker symbol, click the “**Colour and style**” box.
10. If you add more than one marker, specify their order by using the up and down arrows.
11. The new markers appear in the “**markers, notes, and baselines box**”.

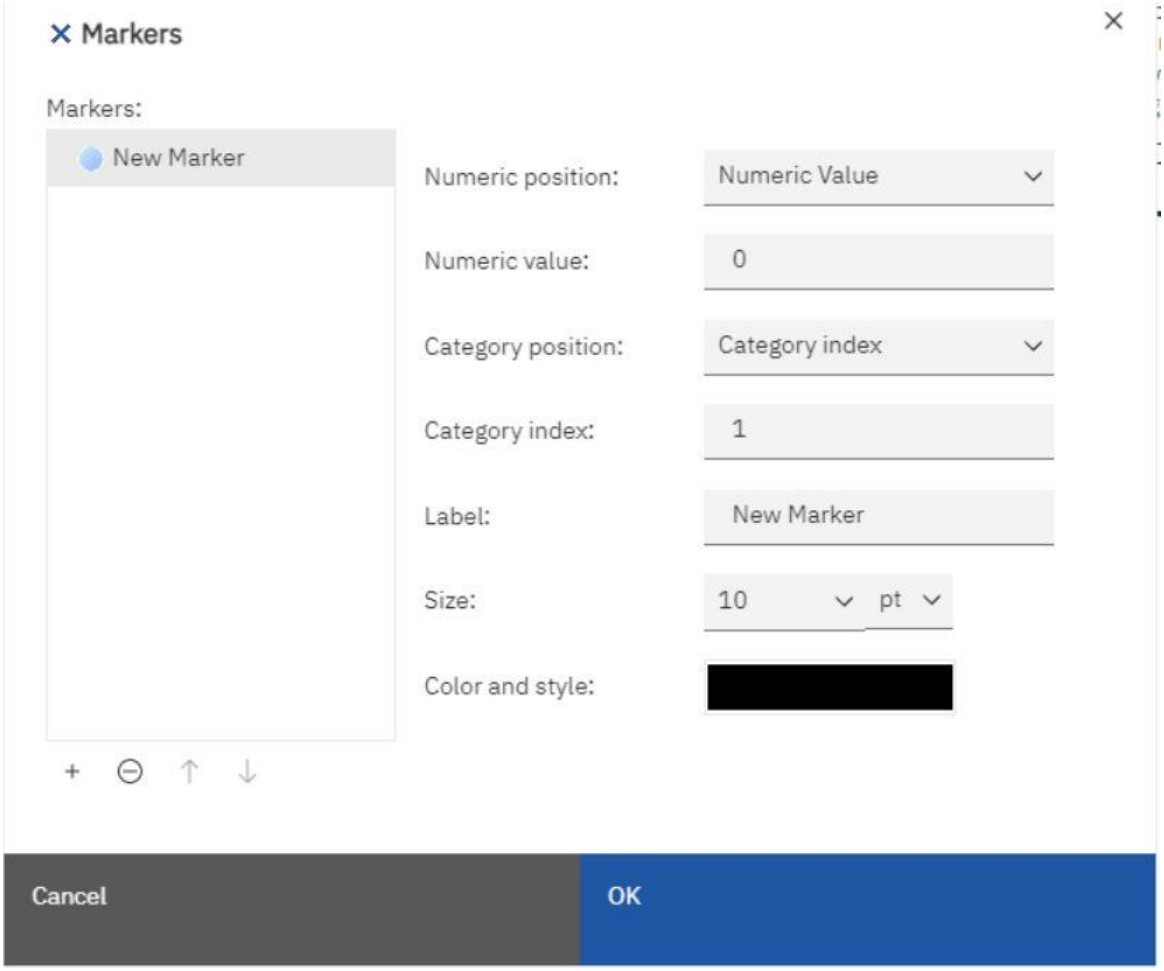


Figure 550 - Adding a marker to a chart

8.9.6 Creating a drill-down Chart

If you use a dimensionally-modelled data source, you can create a chart that allows you to drill down to lower-level data or drill up to higher-level data.

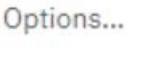
Drilling up and down allows you to view more general or more detailed information on your data within a predefined dimensional hierarchy.

This is an example of a dimensional hierarchy:

All Years - Year - Quarter - Month

Before you begin, ensure that you are using a dimensionally-modelled data source.

- Open a chart that uses a dimensionally-modelled data source.
- Click the “**Show properties**” icon (

), click the “**More**” icon (
), click “ **Options**” (

), and then, in the “ Edit” section, click on “**Enable drill-up or drill-down links**”.

By default, the system determines which items can be drilled on based on the dimensional structure.

The chart generates links for any item that can be drilled down on.

You can drill down or drill up by right-clicking and choosing the action from the context menu. The menu items are unavailable if an item cannot be drilled up or down on.

8.10 Adding prompts to filter data

You can add prompts to a report to add interactivity for users. Prompts act as questions that help users to customize the information in a report to suit their own needs. For example, you create a prompt so that users can select a product type. Only products belonging to the selected product type are retrieved and shown in the report.

Prompts are composed of three interrelated components: parameters, prompt controls, and parameter values. Parameters are based on parameterized filters and form the questions to ask users. Prompt controls provide the user interface in which the questions are asked. Parameter values provide the answers to the questions.

The Reportstudio provides several ways to create prompts.

- build your own prompt and prompt page
- create a parameter to produce a prompt
- insert prompts directly into the report page

In dimensional reporting, you can also define prompts using context filters.

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If you include reports from different packages in an interactive dashboard that uses global filters, ensure that you use the same parameter name for the prompt in all the reports. You can also use context filters, also known as slicer filters, to focus the data in your report.

Syntax of Prompt Expressions

Prompt expressions use the following syntax, where p represents the parameter name.

You can also use these expressions to create parameterized data items that you can then use in master detail relationships.

The type of expression you use depends on whether you have chosen relational or dimensional reporting style. For more information about reporting styles, see Relational and dimensional reporting styles.

Relational: Detail Filter Expressions	**Dimensional: Context (Slicer) or Edge Expressions**
[*data item*] = ?p? for single-select prompts and master detail relationships	[*level or hierarchy*]->?p? For single-select member prompts and master detail relationships
[*data item*] in ?p? for multi-select prompts	set([*level or hierarchy*]->?p?) For multi-select member prompts filter ([*set*], [*property expression*] = ?p?) For single-select value prompts and master detail relationships A property expression is an expression that is assigned to a property to enable dynamic update of the property when the report runs. filter ([*set*], [*property expression*] IN ?p?) For multi-select value prompts A property expression is an expression that is assigned to a property to enable dynamic update of the property when the report runs.

Table 154 - Adding prompts to filter data

8.10.1 Build your own Prompt and Prompt page

Create your own prompt and prompt page to control how they appear in a report.

Procedure

1. In the navigation menu, click “**Report**” and then click “**Prompt pages**”.

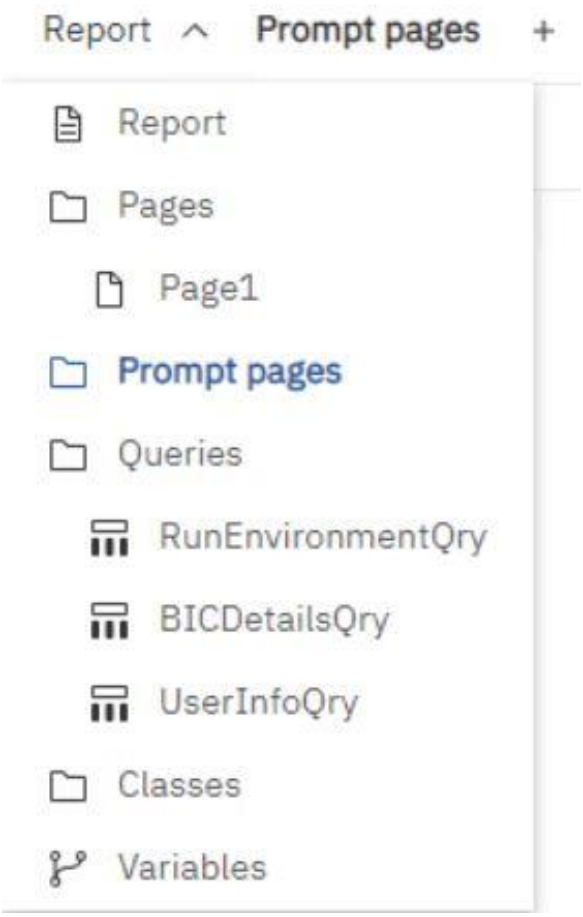

Figure 551 - Build your own Prompt and Prompt page

- Click the "**Toolbox**" icon ( ), and drag "**Page**" to the "**Prompt pages box**".
- Double-click the page you just created.
- Click the "**Toolbox**" icon ( ), expand "**Prompting**", and then drag one of the following prompt controls to the prompt page.

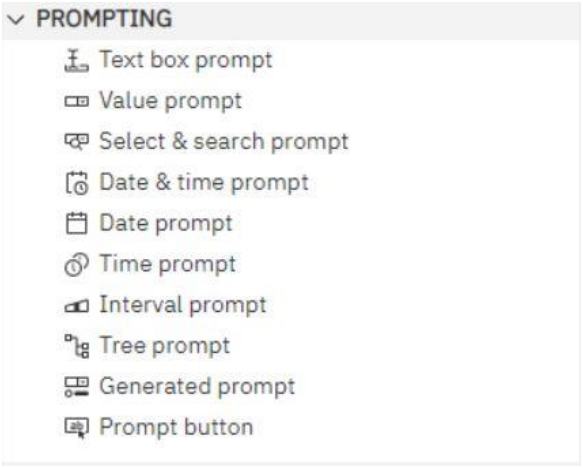

Figure 552 - Build your own Prompt and Prompt page - Prompting

Prompt control	Description
Text box prompt	Retrieves data based on a value that user's type. Use this control when users know exactly what value they want to enter, such as a name or account number.
Value prompt	Retrieves data based on values that users select from a list. Use this control to show a list of possible values from which users can choose. The maximum number of items that can appear in a list is 5000.
Select & search prompt	Retrieves values based on search criteria that users specify. Data is then retrieved based on values users select from the search results. Use this control instead of a value prompt if the list of values is very long, which can slow down performance. Users have the option of performing a case sensitive or case insensitive search. A case sensitive search is faster, while a case insensitive search usually returns more values. You cannot use this control if you are working with SAP BW data sources.
Date prompt	Retrieves data based on a date that users select. Use this control to filter a date column. Users can retrieve data for a specific day, a set of days, or a range of days.
Time prompt	Retrieves data based on a time that users select. Use this control to restrict a report to a particular time or time range. For example, users can see how many orders are received after business hours. Users can then use this information to determine the number of staff needed to work after hours.

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Date & time prompt	Retrieves data based on a date and time that users select. Use this control to filter a datetime or timestamp column. This control is useful for specifying ranges. For example, users can retrieve all orders received from Monday at 12:00 a.m. to Friday at 5:00 p.m.
Interval prompt	Retrieves data based on a time interval that users specify. Use this control to retrieve data that is related to the passage of time. For example, users can retrieve a list of products that were returned 30 or more days after they were purchased.
Tree prompt	Retrieves data based on values that users select from a list. Values are organized hierarchically. This control is useful when you are working with dimensional data sources. Data is shown from the top of a dimension hierarchy to the most detailed member, and users can choose the level of detail they want to view in the report. For more information about tree prompts, see Control the Data That Appears in a Tree Prompt. Tree prompts let you page through large numbers of prompt values with a More link at the bottom of the tree.
Generated prompt	Selects a prompt control based on the data type of the data item. This control acts like a placeholder. When users run the report, the control is replaced by the appropriate prompt control. For example, if users are prompted for date values, the control is replaced by a date & time prompt.

Table 155 - Build your own Prompt and Prompt page

The Prompt Wizard dialog box appears.

- If you are creating a text box, date, time, date and time, interval, or generated prompt, do the following:
  - Create a new parameter for the prompt or use an existing or global parameter.
  - Click “**Next**”.

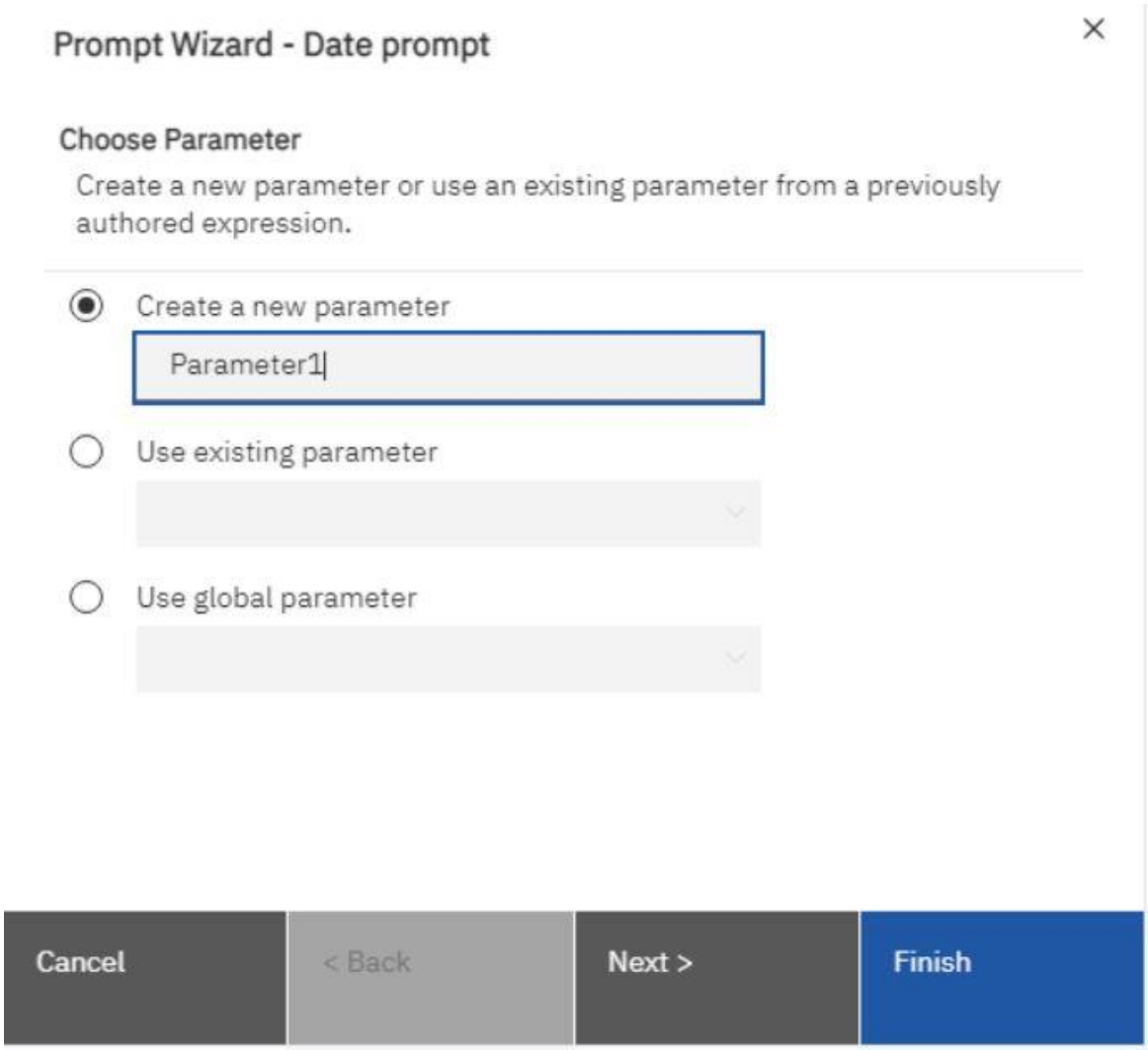

Figure 553 - Build your own Prompt and Prompt page - Prompt Wizard dialog box

– If you created a new parameter, define the expression by selecting a data item from the package and the operator to use.

– Make the prompt optional clicking the left side of the "**Make the filter optional**" check box.

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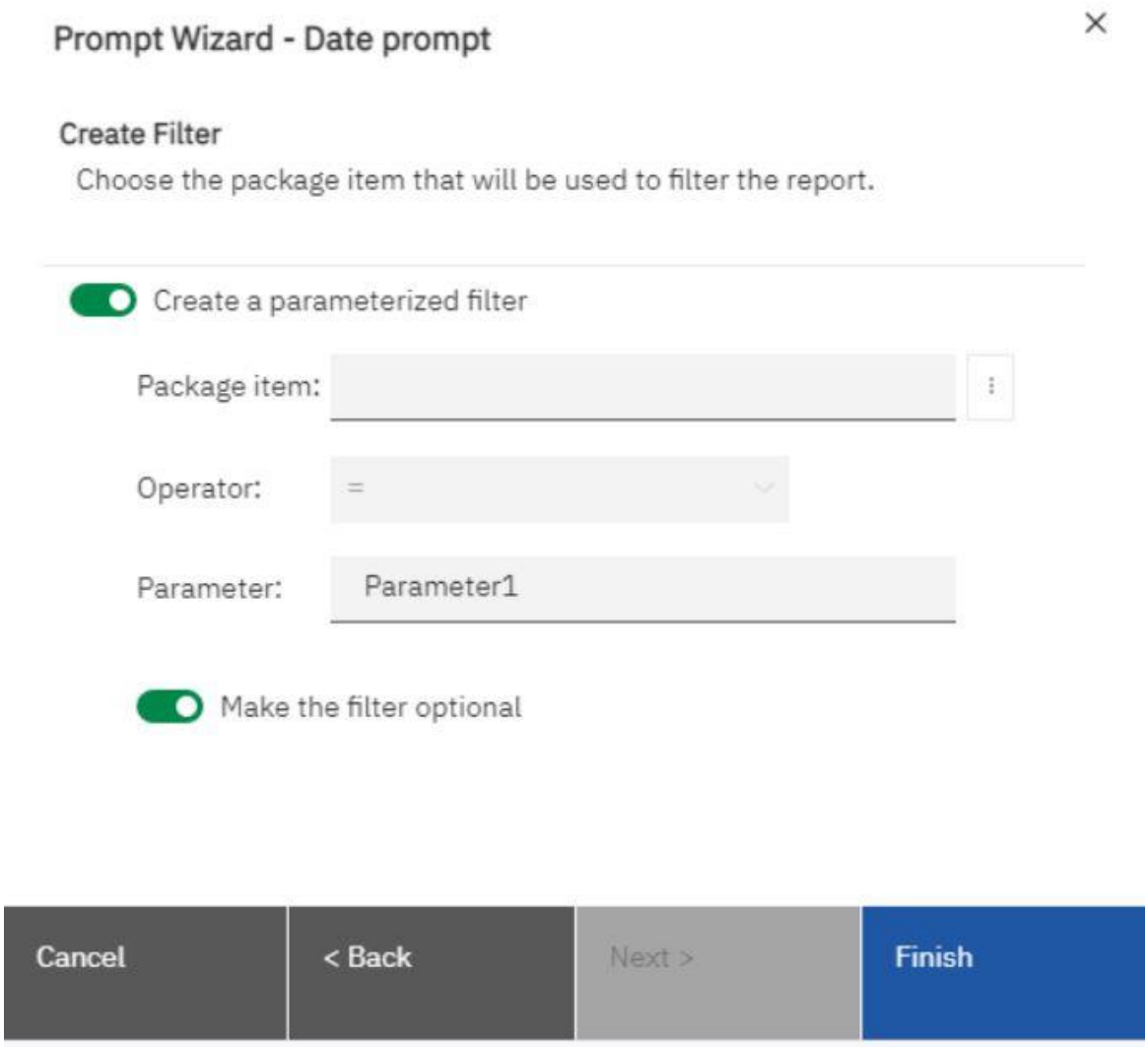

Figure 554 - Build your own Prompt and Prompt page - Prompt Wizard dialog box - Make the filter optional

- If you are creating a “**Value**”, “**Select & search**”, or “**Tree**” prompt, do the following:
  - Create a new parameter for the prompt or use an existing or global parameter.
  - Click “**Next**”.
  - If you created a new parameter and you want to use the parameter to filter data, select the “**Create a parameterized filter**” check box and define the expression by selecting a data item from the package and the operator to use.
    - If you are creating a tree prompt, you must choose “in” in the “Operator” box.

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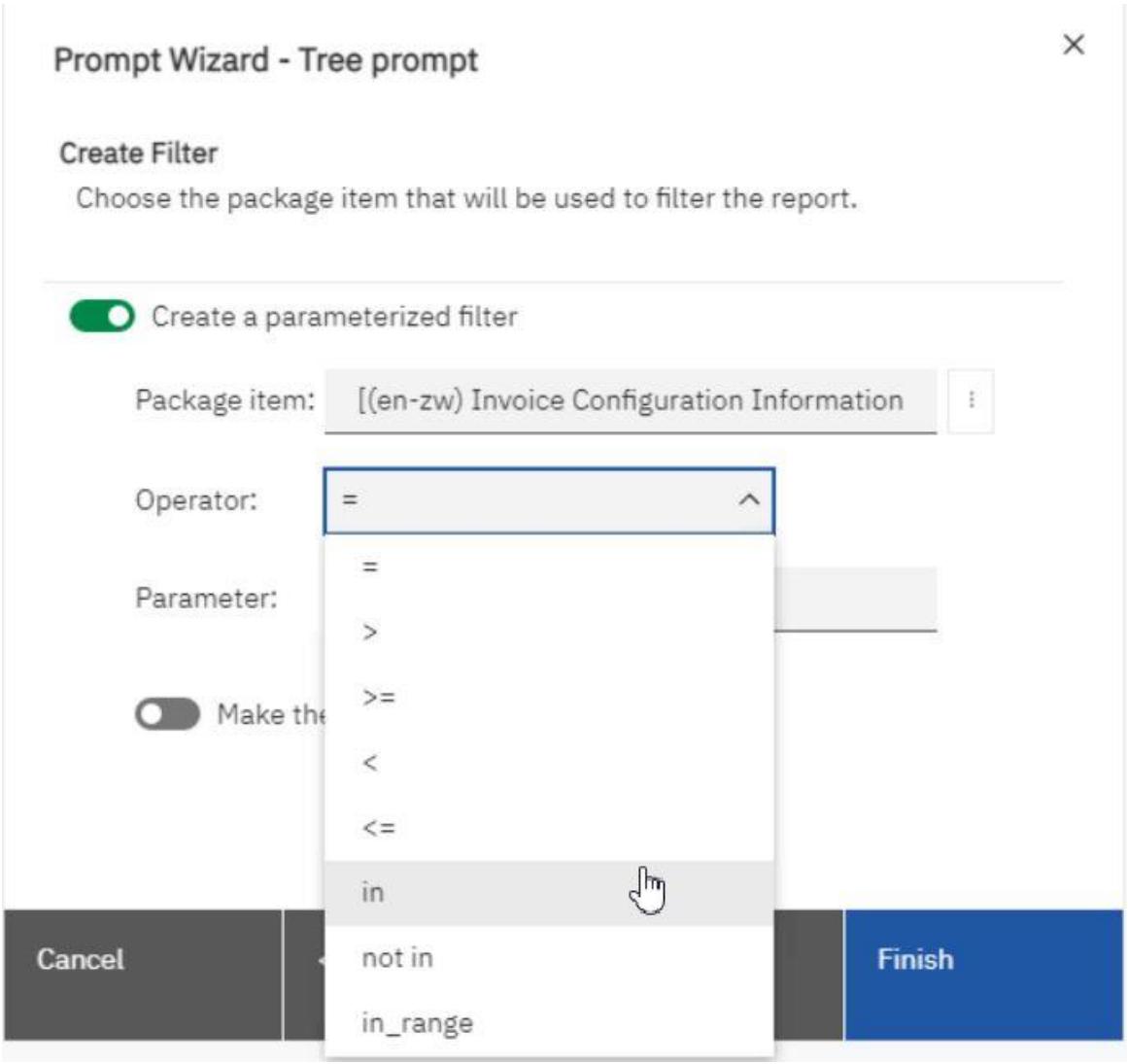

Figure 555 - Build your own Prompt and Prompt page - Prompt Wizard - Tree prompt

- You can also use a parameter to provide a value for a layout calculation, such as showing a user's name in the report. When the report is run, you can use a parameter to prompt the user to type his name and have it appear in the report.
- Make the prompt optional by clicking the left side of the “Make the filter optional” check box.

– Click “**Next**”.

– If you created a parameterized filter and you have more than one query defined in the report, select the check box for the query on which to filter and click “**Next**”.

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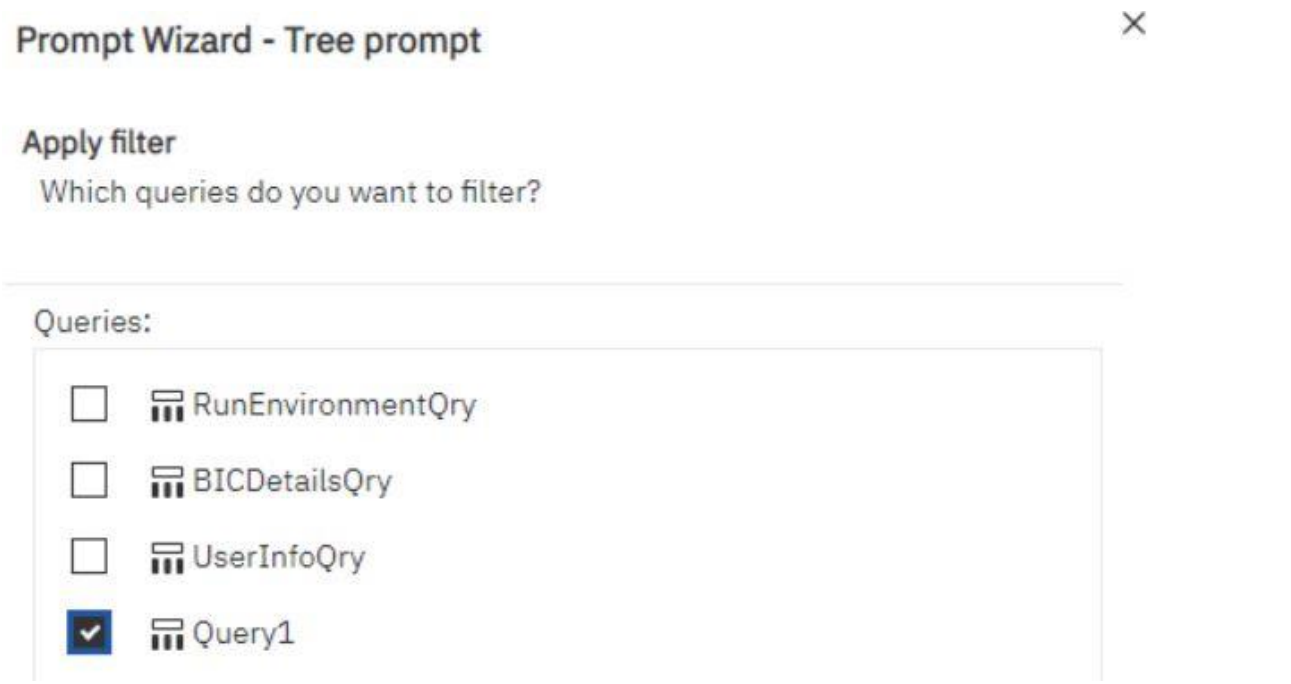

Figure 556 - Build your own Prompt and Prompt page - Prompt Wizard - Tree prompt - Apply filter

– Select the "**Create new query**" check box to create the query that will be used to build the list of da-ta values shown when the report is run.

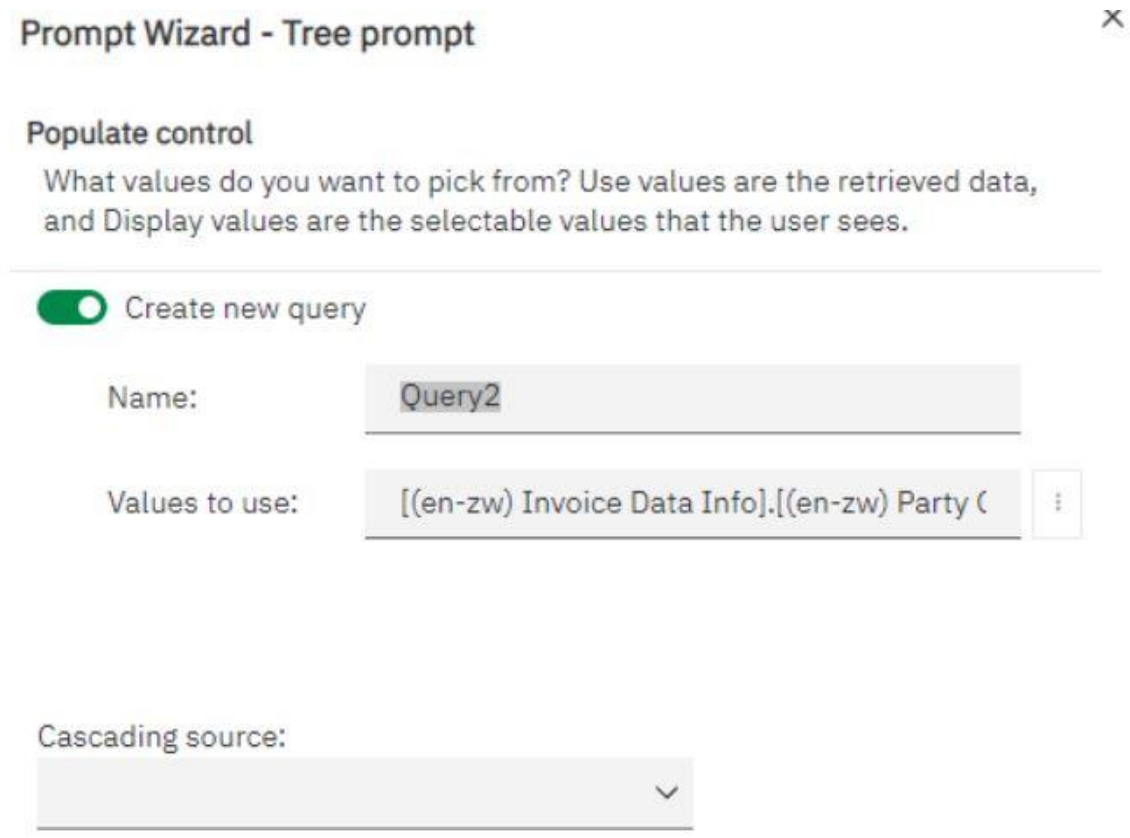

Figure 557 - Build your own Prompt and Prompt page - Prompt Wizard - Tree prompt - Create new query

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- Do not create a new query if you want to link the prompt to an existing query or if you intend to create the query at a later time.
- Click the tree dots button beside Values to use and click the data item on which to prompt.

- To choose a data item that is different than what users will see when they are prompted, click the tree dots button beside “**Values to display**” and click the data item.
  - To create a cascading prompt, in the “**Cascading source**” box, click the parameter that represents the cascade source.
- Click “**Finish**”.

  The prompt control is added to the prompt page. A prompt page is like a report page. You can insert graphics and text and apply formatting.

  You can also modify the properties of the prompt control by clicking it and making changes in the Properties pane.

8.10.2 Create a Prompt Directly in a Report Page

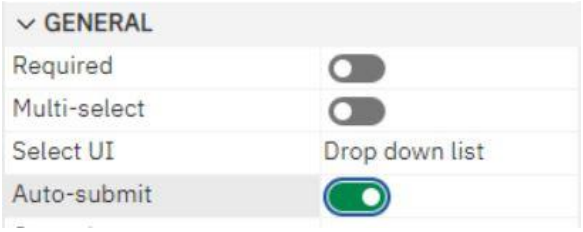
You can add prompt controls directly in a report page instead of creating a prompt page.

Prompt controls that are added to report pages will not appear in the following:

- saved reports
- PDF reports
- scheduled reports

Prompt controls are interactive. They are used to satisfy parameter values before running a report. As a result, prompt controls added to a report page only appear when you run the report in HTML format. When you run a report in HTML format, users select which values they want to see, and the report is refreshed, producing a new report.

For the previously listed non-interactive reports, prompt parameter values must be collected and satisfied before the report is run. If you wish to create a prompt directly to the prompt page, make sure to set the “**Required**” under the “**General**” properties to “**No**”, the “**Auto-submit**” to “**Yes**” and the “**Usage**” of the “**Detail Filters**” to “**Optional**”.



To set the “**Detail Filters**” to “**Optional**” select the query that renders the results, click on the filter and set it up in the properties.

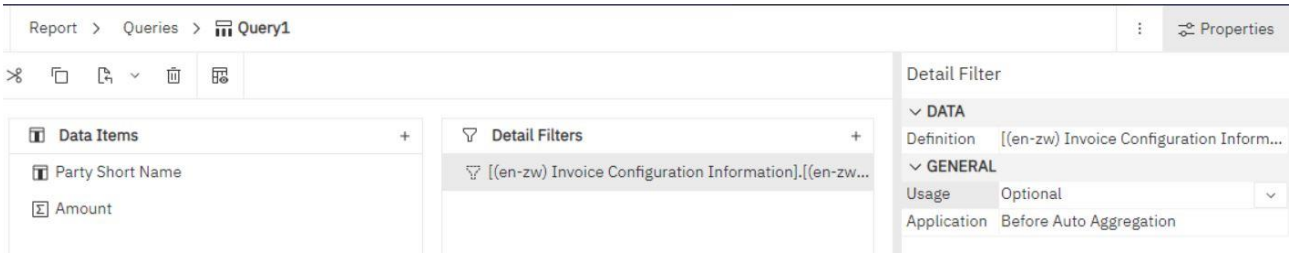


Figure 558 - Create a Prompt Directly in a Report Page

For inserting a prompt in your report page do the following:

- Click the "**Toolbox**" icon ( ), drag a prompt control to the report.

  The Prompt Wizard dialog box appears.

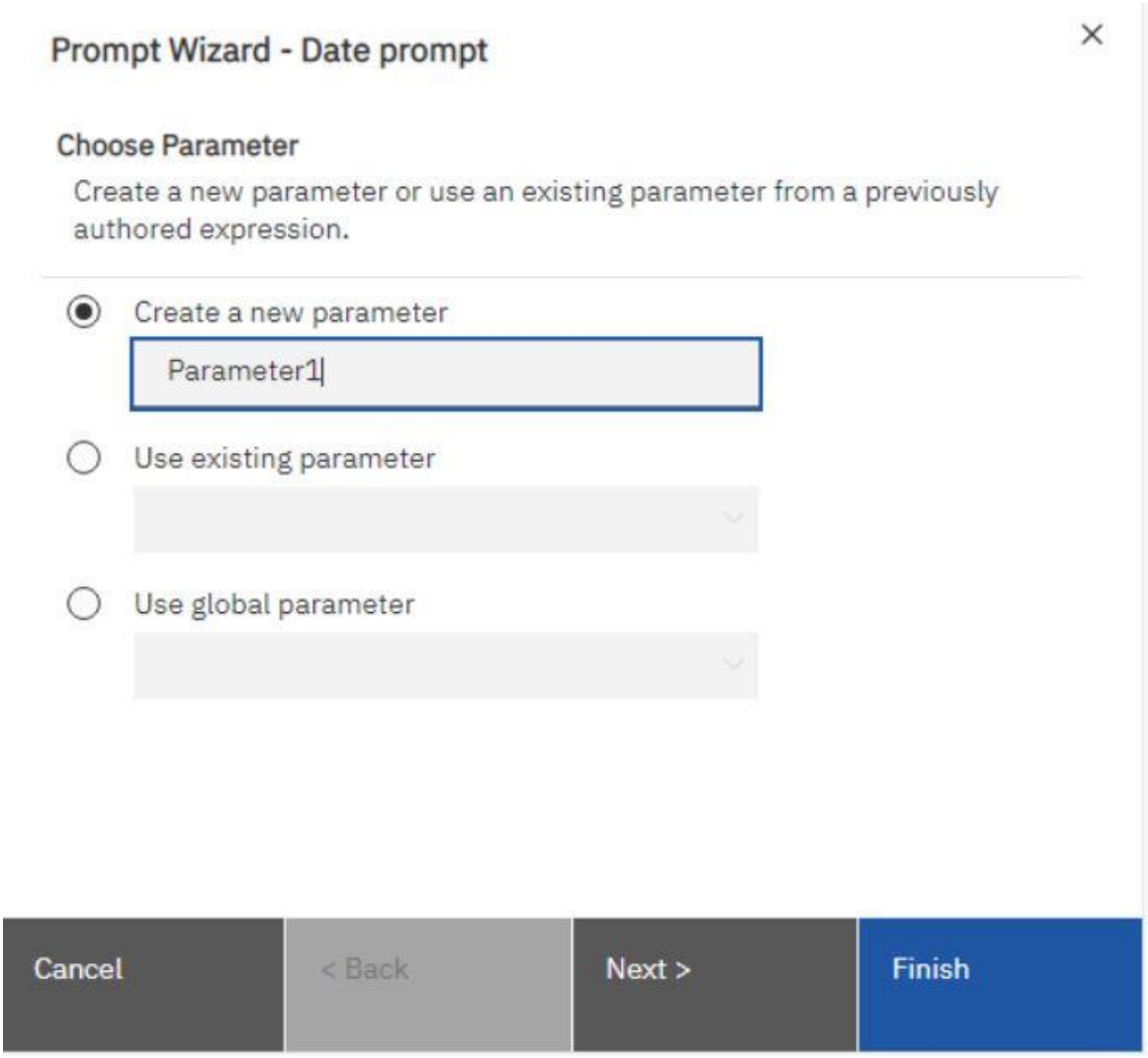


Figure 559 - Create a Prompt Directly in a Report Page - Prompt Wizard - Date prompt

- Provide the information necessary to create the prompt.

Make the prompt optional by clicking the left side of the "**Make the filter optional**" check box. Otherwise, when you run the report for the first time, the prompt appears in a generated prompt page rather than in the report page. Alternatively, you can specify a default selection for the prompt.

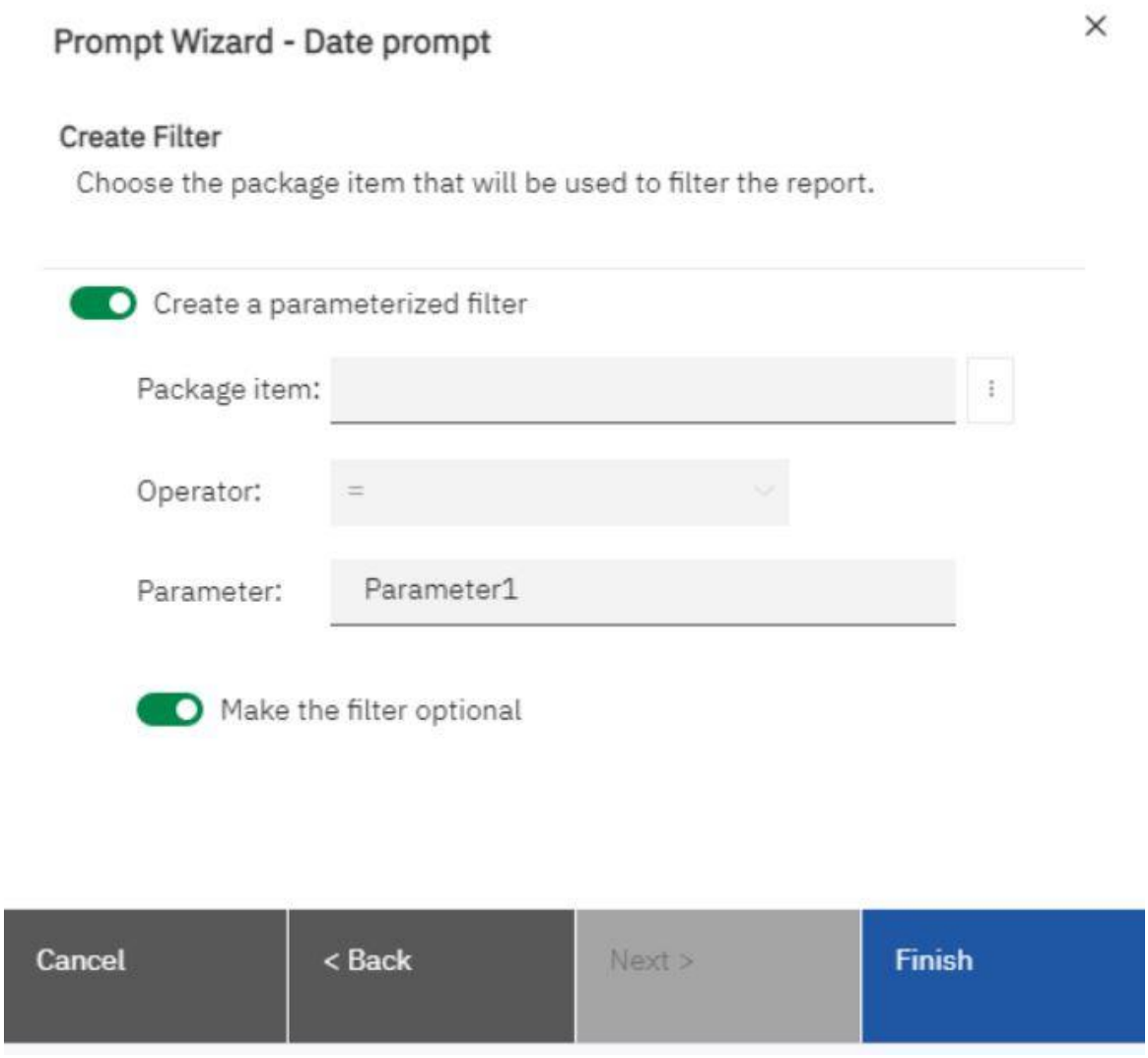
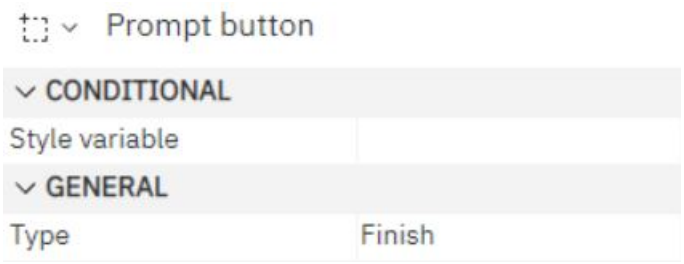


Figure 560 - Create a Prompt Directly in a Report Page - Prompt Wizard - Date prompt - Make the filter optional

- In the work area, click the prompt.
- In the Properties pane, set the "**Auto-submit**" property to "**Yes**".

  If you do not set the "**Auto-submit**" property to "**Yes**", the report will not refresh when users select a different prompt value.

  An alternative to setting the prompt to auto-submit is to add a prompt button from the "**Toolbox**" icon ( ) and set its "**Type**" property to "**Finish**".



The prompt control is added to the report page. You can modify its properties by clicking it and making changes in the Properties pane.

8.10.3 Control the data that appears in a tree prompt

You can control what data appears in a tree prompt and how the data is structured to get the results that you want. To do this, you add various functions to the filter expression.

In addition, the operator that you chose in the "**Prompt Wizard**" dialog box controls what appears next to each prompt value. If the "**Operator**" is "**in**" or "**not in**", check boxes appear next to each prompt value. If the "**Operator**" is equals "**(=)**", no check boxes appear.

Please be advised that the tree prompt could only be used with multidimensional data.

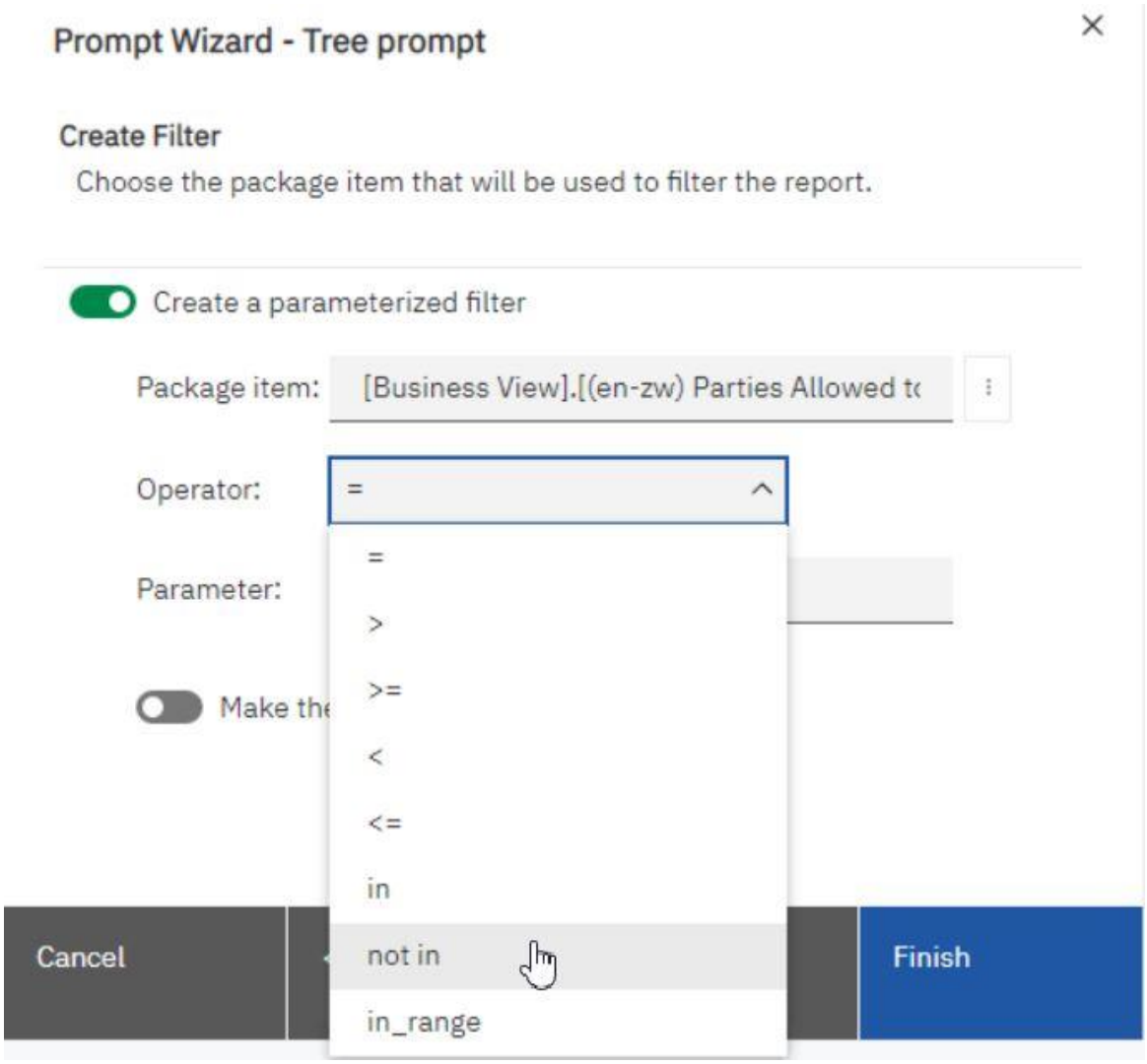


Figure 561 - Control the data that appears in a tree prompt - Prompt Wizard - Operator

- Click the “**Data items**” icon ( ), and click the query that is associated with the prompt.
- In the Data Items pane, double-click the data item on which you are prompting.
- In the “**Expression Definition**” box, type one of the following functions.

Goal	Function
Show the hierarchical structure of all members in the hierarchy. If this function is not used, all members are shown in a flat list.	rootmembers (data_item)
Show the descendants of the data item in a hierarchical structure where x represents the level. For example, if you are prompting on the Year hierarchy and x=1, you will see 2020, 2021, and 2022 in the tree. If x=2, you will see 2020 Q1, 2020 Q2 etc.	descendants (rootmembers (data_item), x)
Show the children of a member. For example, 2018 Q1, 2018 Q2, 2018 Q3, and 2018 Q4 appear for the member 2018.	children (member)

Table 156 - Control the data that appears in a tree prompt

8.10.4 Modifying prompts

For each prompt you create, you can modify its properties by specifying values in the Properties pane. Some properties you set for a prompt may be overridden under some conditions. For example, some properties set for the filter associated with a prompt may override the corresponding prompt property. By default, when you create a prompt, the Reportstudio selects the prompt control interface. You can change the prompt control interface depending on the type of prompt you created.

8.10.4.1 Choose a drop-down list, a list box, or a radio button group:

The following example is made for a value prompt:

- Click the prompt control.
- In the Properties pane, set the “**Select UI**” property to the interface

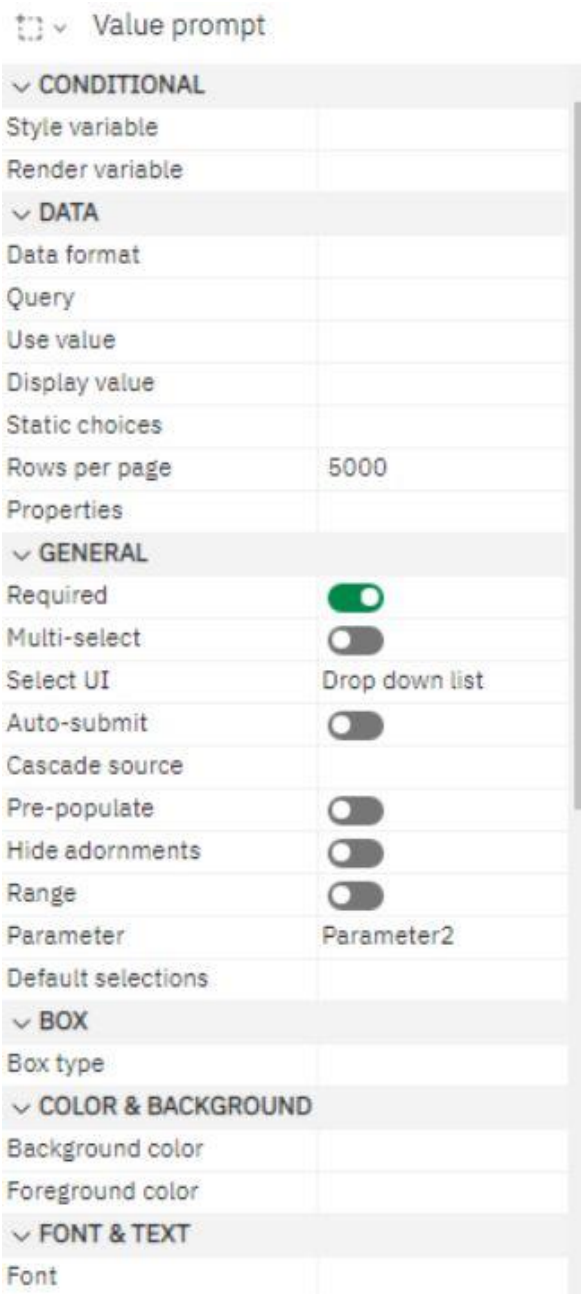


Figure 562 - Modifying prompts - Properties - General - Select UI - List box

Figure 563 - Modifying prompts - Properties - General - Select UI - List box

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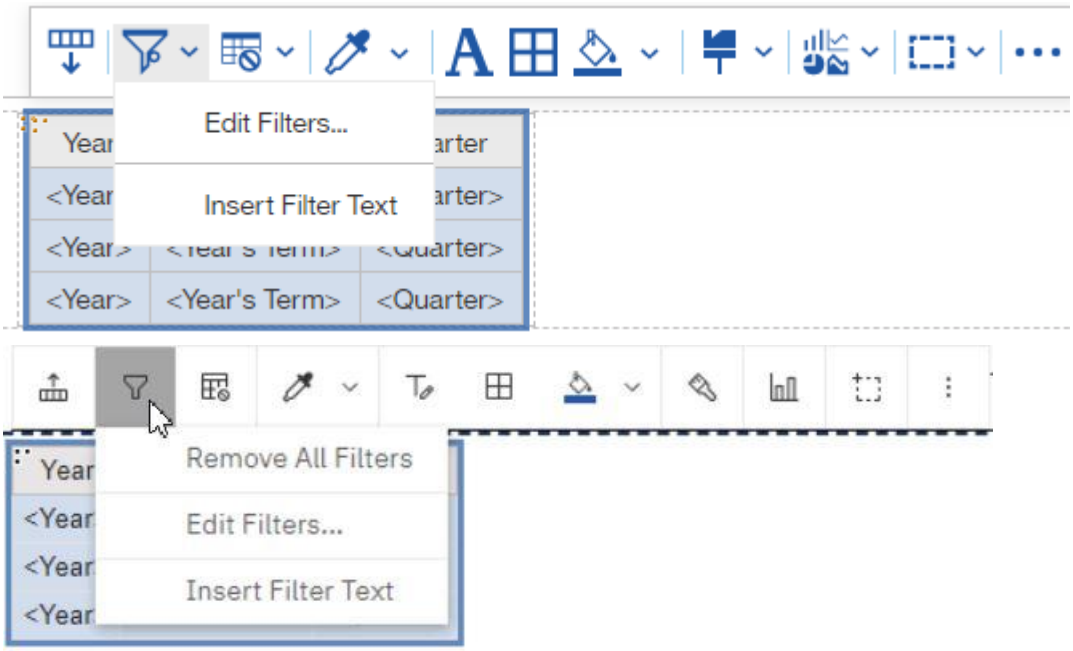
8.10.4.2 Prompt requires user input

You can specify that a prompt requires user input before the report can run.

- Click the prompt control.
- In the Properties pane, click the left side of the “**Required**” property checkbox.

- Click the “**Pages**” icon ( ), and click a report page.

- Click the report object associated with the prompt, from the report object toolbar, click “**Filters**” and then click “**Edit filters**”.



- Click the filter associated with the prompt.
- In the “**Usage**” box, click “**Required**”.

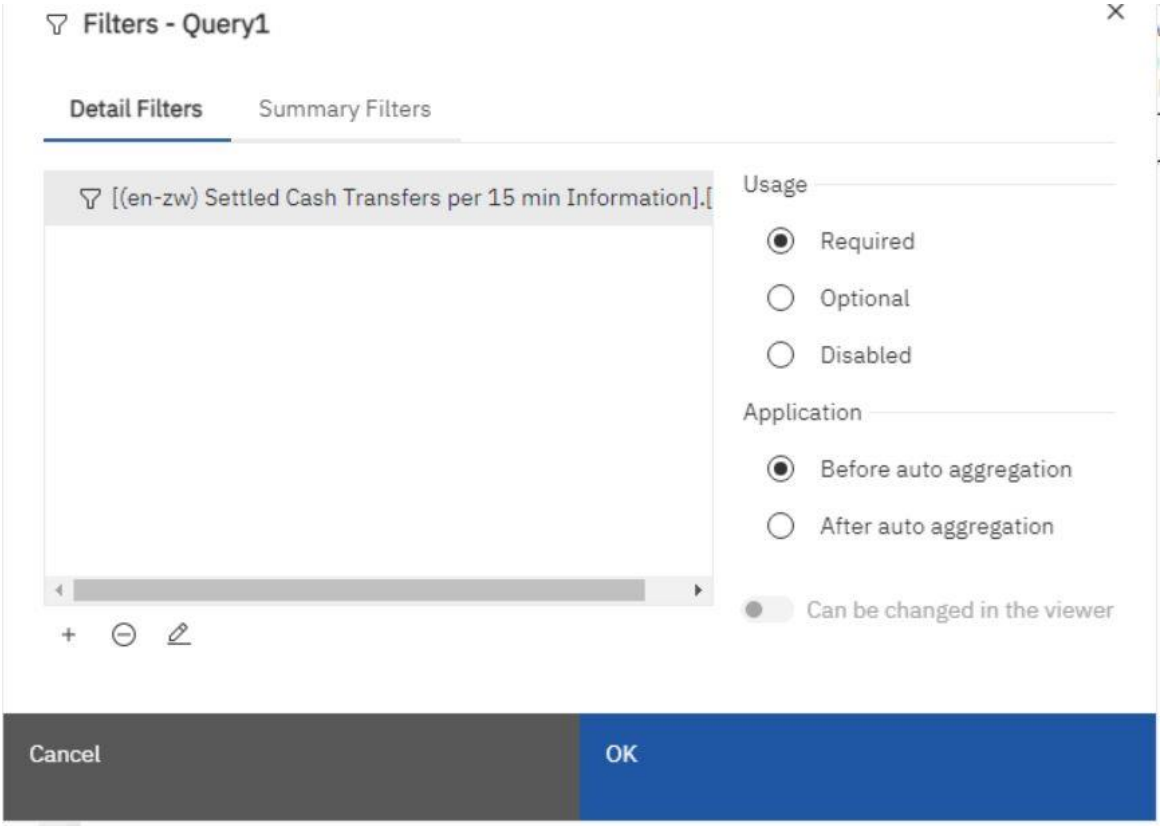


Figure 564 - Modifying prompts - Filters - Usage box

When you run the report, a star appears next to the prompt indicating that the user must select or type a value.

If you have a cascading prompt and the parent prompt control is required, the child prompt control is disabled. This ensures that users choose at least one value in the parent prompt before they can choose a value in the child prompt. Conversely, if the parent control is optional, then the child control is populated. This gives users the ability to choose values in the child prompt without having to choose a value in the parent prompt.

8.10.4.3 Selecting multiple values in a prompt

You can create a prompt in which a user can select more than one value. For example, you have a prompt to select a product line. You can set the prompt so that users can select more than one product line. If you enable multiple selections, the “Autosubmit” property is always set to “No”.

If you have a prompt that is used in both a single value context and a multivalue context, the most restrictive context (usually the single value context) takes precedence. If you run into a problem where you have a multivalue prompt but can only select one value, then check to see if the prompt is used in more than one context.

- Click the prompt control.
- In the Properties pane, choose whether to allow users to specify more than one value or a range of values:
  - To allow users to specify more than one value, set the “**Multiselect**” property to “Yes”.

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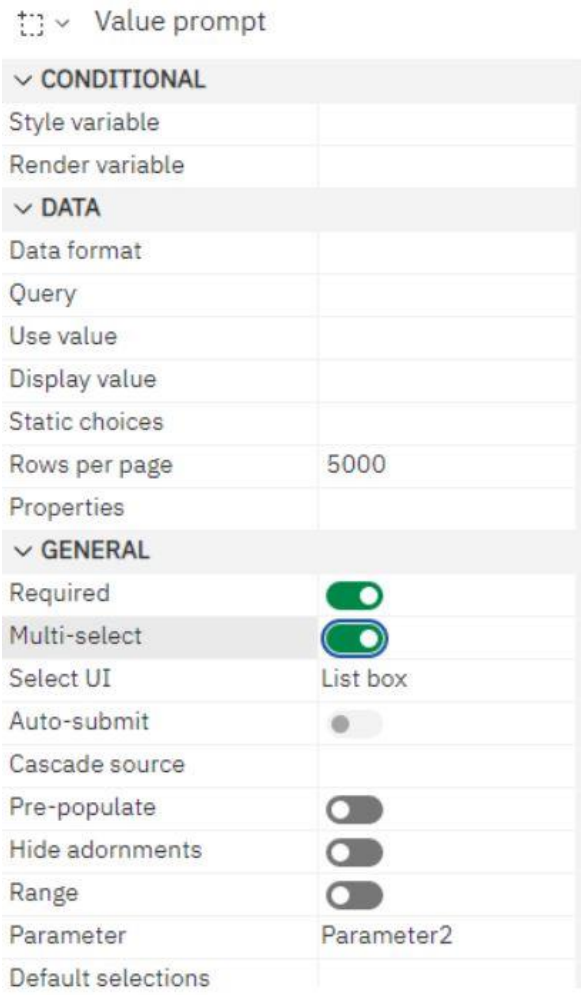

Figure 565 - Modifying prompts - Properties - General - Multi-select

- Click the "**Pages**" icon (Pages), and click a report page.
- Click the report object associated with the prompt, from the report object toolbar, click "**Filters**" ( ) and then click "**Edit filters**".
- Double-click the filter associated with the prompt.

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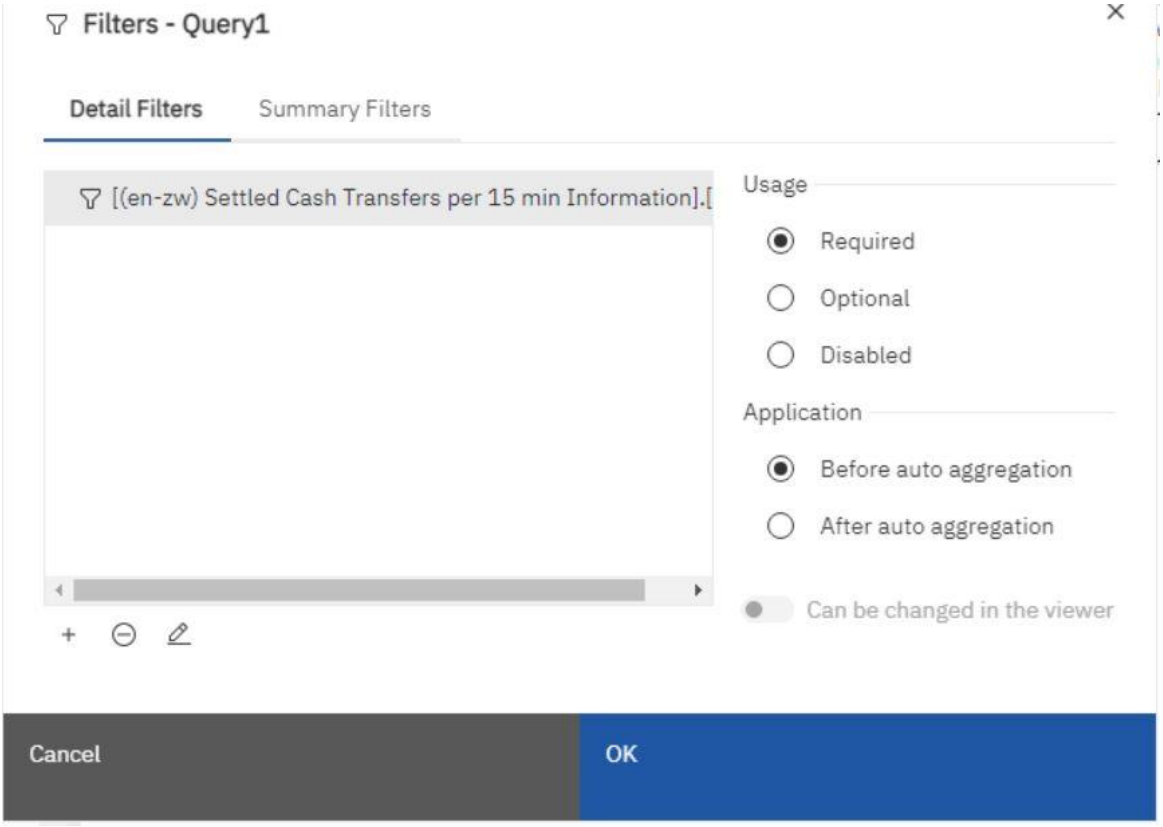

Figure 566 - Modifying prompts - Filters - Edit filters

- Click the "**Edit**" icon ( ) and type an operator like the following example:

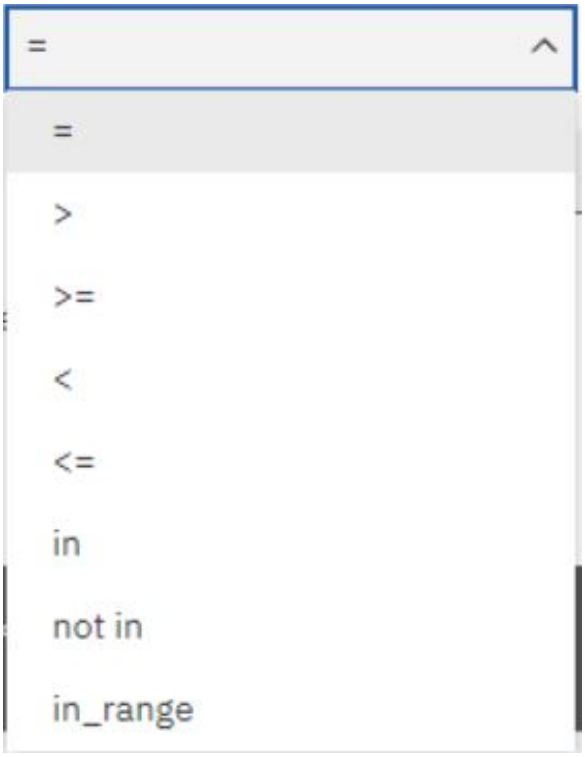

Figure 567 - Modifying prompts - Operator

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Figure 568 - Modifying prompts - Detail filter expression

- If you are creating a multi-select prompt, change the "**Operator**" to "**in**". For example, [Product_line] in ?Product line? where [Product_Line] is the name of the data item allows users to select multiple product lines.
- If you are creating a range prompt, change the "**Operator**" to "**in_range**". For example, [Margin] in_range ?Margin? where [Margin] is the name of the data item allows users to specify a margin range.

After creating the prompt you can hold "**Strg**" to select more than one value.

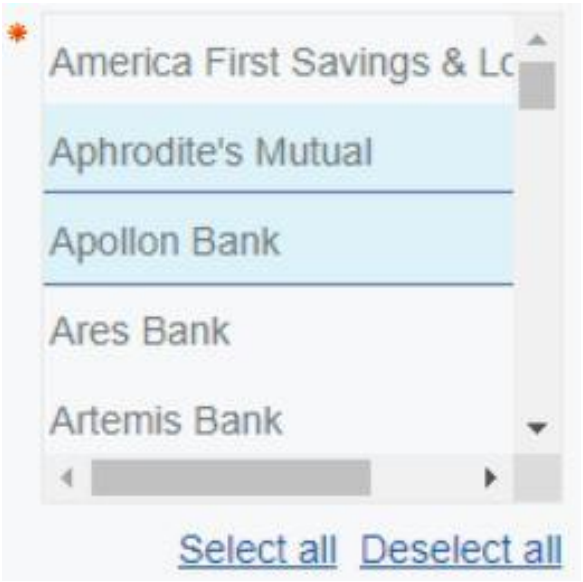
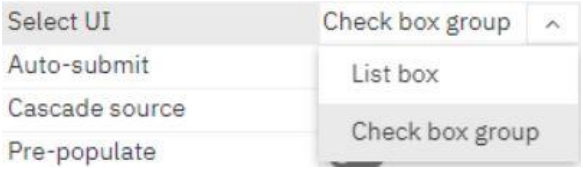


Figure 569 - Modifying prompts - Select more than one value

Another possibility is to click the prompt control and set the "**Select UI**" in the properties to "**Check box group**".



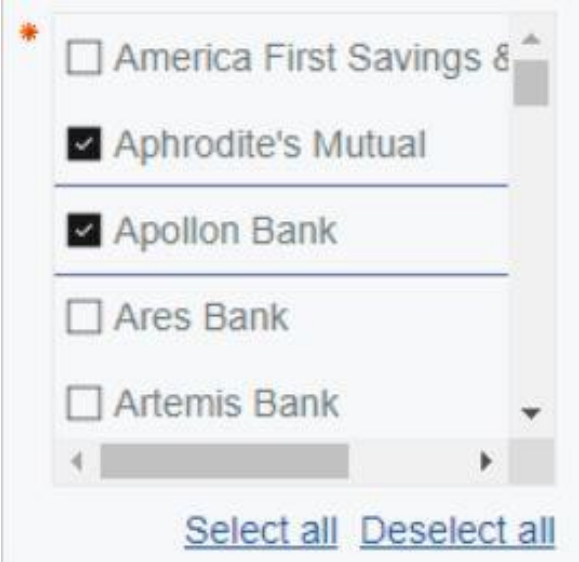


Figure 570 - Modifying prompts - Check box group - Select more than one value

8.10.4.4 Show or Hide Prompt Status

Each prompt you create in a report provides dynamic validation when the report is run. Validity checks are performed to ensure that the data is correct and that required values are supplied. For example, a star appears next to each required prompt. Click the prompt control.

- In the Properties pane, under "**General**" click the right side of the "**Hide adornments**" property to hide the prompt characters or click the left side to show them.

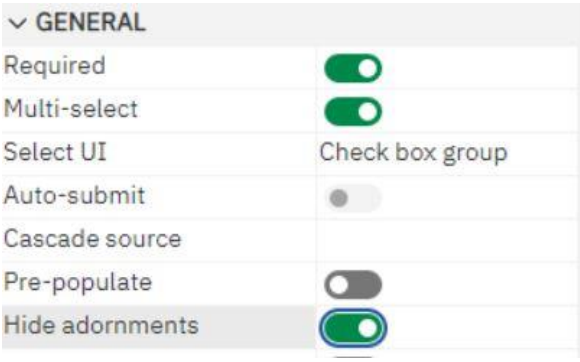


Figure 571 - Modifying prompts - Properties - General - Hide adornments

8.10.4.5 Specify a Default Selection for a Prompt

You can specify a default selection for a prompt so that users do not have to select or type a value when they run the report.

1. Click the prompt control.
2. To define a range of values, in the Properties pane, click the right side of the "**Range**" property.

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3. To specify more than one default selection, in the Properties pane, click the right side of the "**Multi-select**" property to "**Yes**".
4. In the Properties pane, double-click the "**Default selections**" property.
5. Click the "**Add**" button (+) and do one of the following:
   – If you chose to define a single value, type the value as the default selection.
   – If you chose to define a range of values, type the minimum and maximum values of the range in the "**Minimum value**" and "**Maximum value**" boxes, respectively.

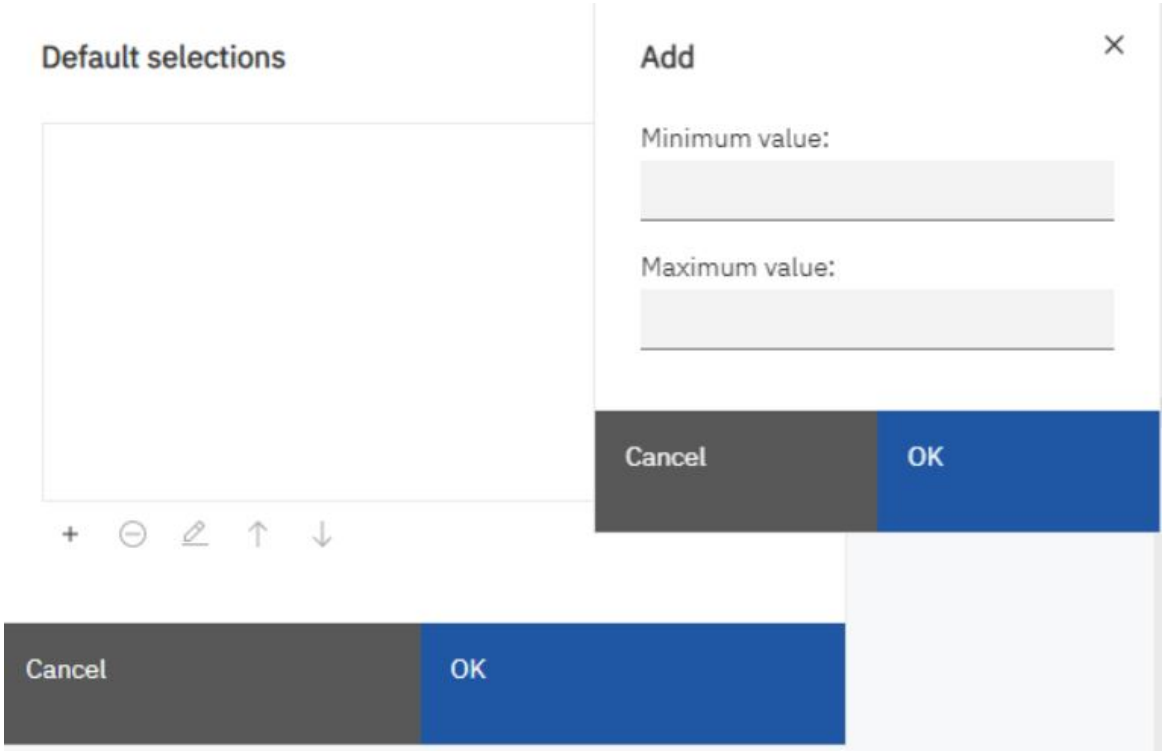


Figure 572 - Modifying prompts - Properties - Default selections - Minimum value/ Maximum value

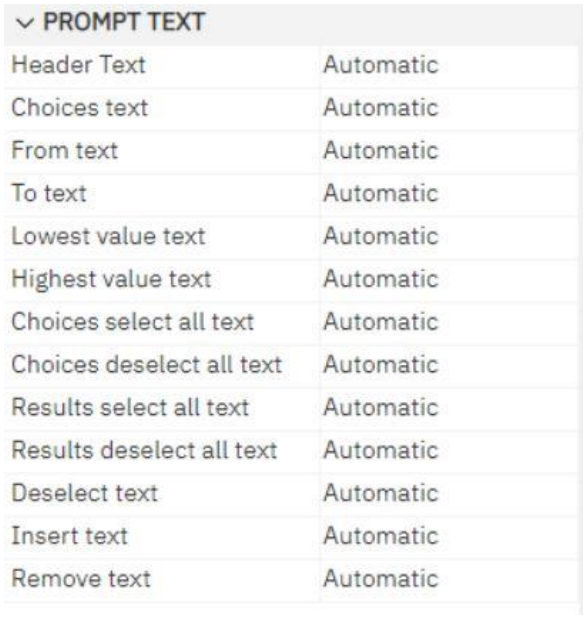
6. Repeat step 4 to specify other default selections.

8.10.4.6 Customize Prompt Text

You can customize the instructional text that appears around prompts. For example, a value prompt with multiple selections includes a "**Select all**" link below the choices that you can customize to text other than "**Select all**".

- Click the prompt control.
- To change the default prompt text, in the Properties pane, double-click any of the properties under "**Prompt Text**" which you want to change.

  When you select a property in the Properties pane, its description appears in the information pane below the Properties pane.



PROMPT TEXT	
Header Text	Automatic
Choices text	Automatic
From text	Automatic
To text	Automatic
Lowest value text	Automatic
Highest value text	Automatic
Choices select all text	Automatic
Choices deselect all text	Automatic
Results select all text	Automatic
Results deselect all text	Automatic
Deselect text	Automatic
Insert text	Automatic
Remove text	Automatic

Figure 573 - Modifying prompts - Properties - Prompt Text

- Click “**Specified text**”, and then click the three dots button.

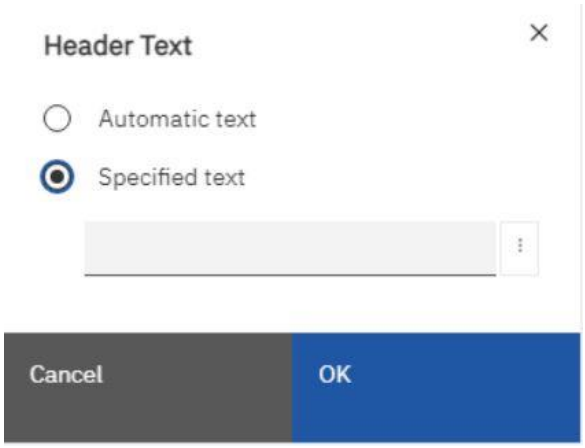


Figure 574 - Modifying prompts - Properties - Prompt Text - Header Text

- In the “**Localized text**” dialog box, type the text that you want to appear.

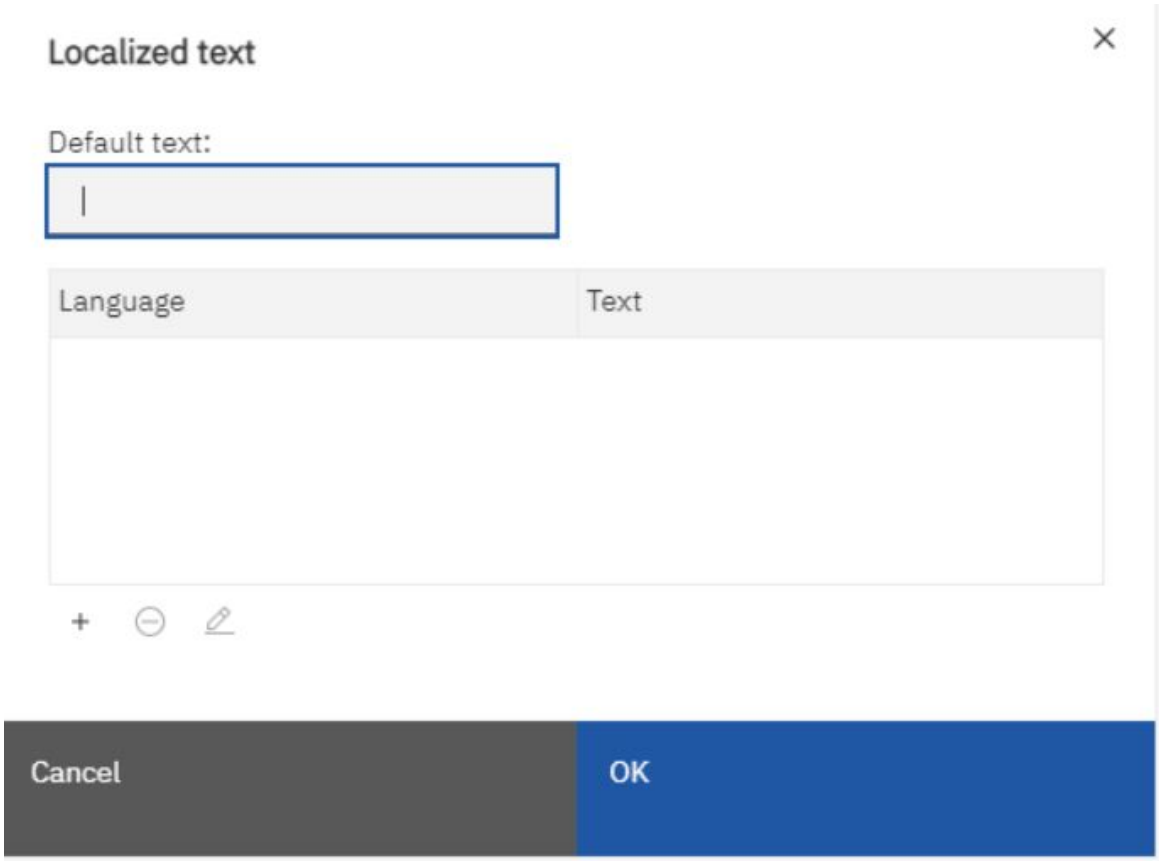


Figure 575 - Modifying prompts - Properties - Prompt Text - Header Text - Localized Text

8.10.4.7 Add prompt buttons

Add prompt buttons so that users can submit selected items, cancel reports, or navigate between pages. When you are building prompts and prompt pages, you may have to add "**Prompt buttons**" to submit selections. Some prompt controls, such as the "**Value prompt**", can be set to submit selections automatically. Other prompt controls, such as the "**Date prompt**", require a "**Prompt button**".

- Click the "**Toolbox**" icon ( ), drag "**Prompt button**" to the work area.

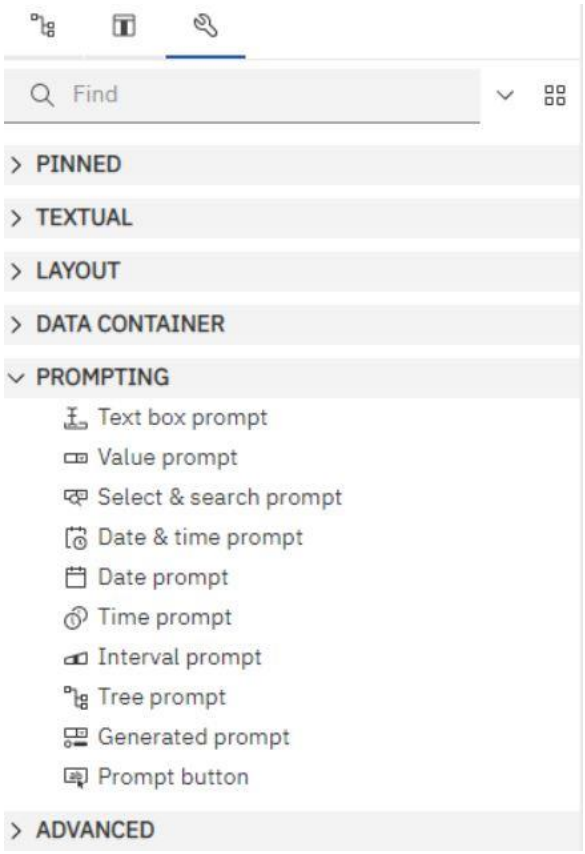


Figure 576 - Modifying prompts - Add prompt buttons - Toolbox - Prompt button

- Click the prompt button and, in the Properties pane under “**General**”, set the “**Type**” property to one of the following actions.

Goal	Action
Cancel the report	Cancel
Go to the previous prompt page	Back

Go to the next prompt page	Next
Run the report	Finish
Reprompt the user Reprompting users is useful when you have cascading prompts.	Reprompt

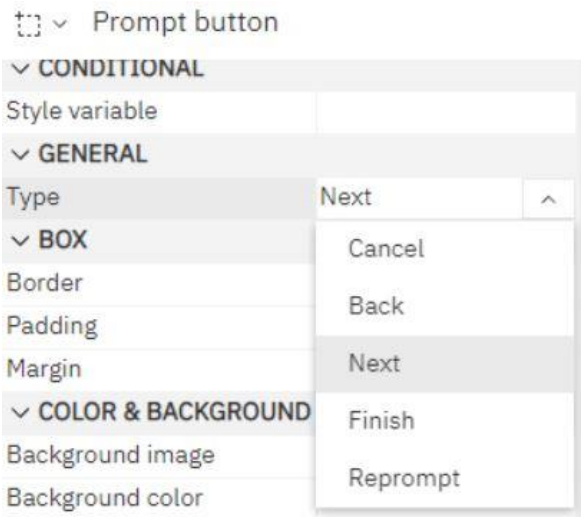


Figure 577 - Modifying prompts - Add prompt buttons - Prompt button properties - General - Type

8.10.4.8 Create a Cascading Prompt

Create a cascading prompt to use values from one prompt to filter values in another prompt. For example, a report contains the columns “Product line” and “Product type”. You create prompts for these columns, and you specify that the “Product type” prompt is a cascading prompt that uses “Product line” as the source. When users select a product line, they see only the product types related to the selected product line.

- To make the cascading source a required prompt, select it and, in the Properties pane, set the “**Required**” property under “**General**” to “**Yes**”.
- Click the prompt control to use as a cascading prompt.
- In the Properties pane, double-click the “**Cascade source**” property.

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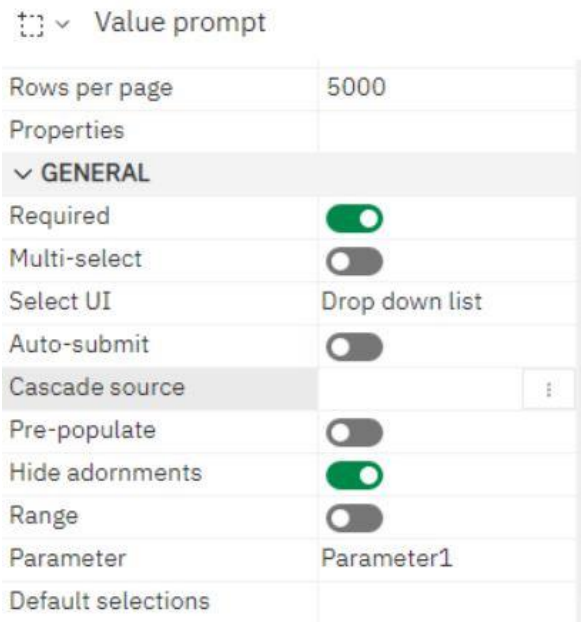


Figure 578 - Modifying prompts - Value prompt - Properties - General - Cascade source

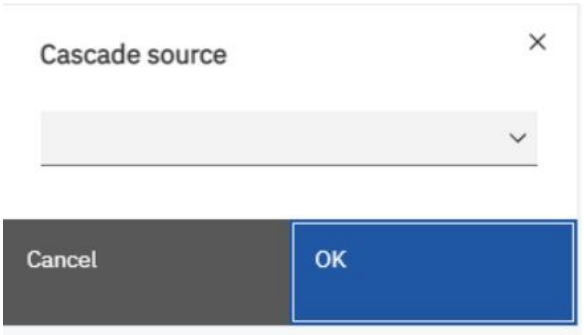
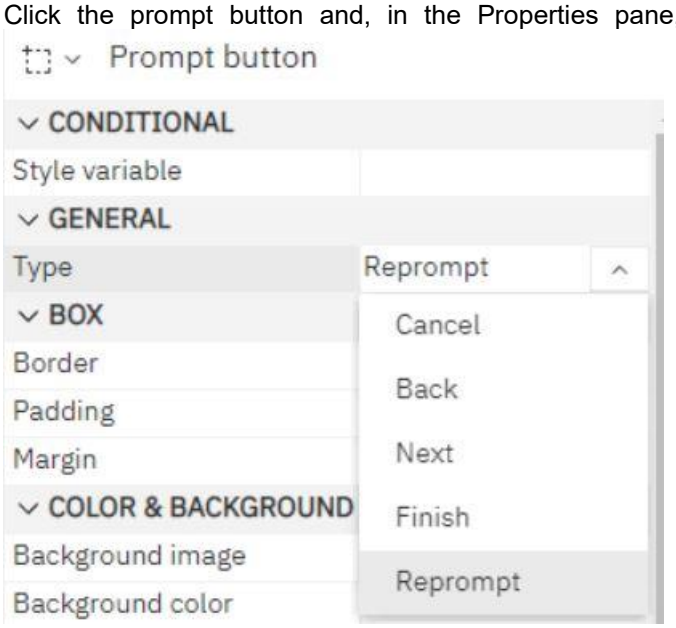


Figure 579 - Modifying prompts - Value prompt - Properties - General - Cascade source - Select Parameter

- Click the parameter that represents the cascade source.
- If the prompt allows users to select multiple values, add a "**Prompt button**" to the cascade source to provide the cascading prompt with the appropriate values:
  - Click the "**Toolbox**" icon ( ), drag "**Prompt button**" to the report.

– Click the prompt button and, in the Properties pane, set the "**Type**" property to "**Reprompt**"



– To change the text in the prompt button, click the "**Toolbox**" icon ( ), drag the "**Text item**" from the toolbox to the prompt button and type the text.

9 Additional information

9.1 DWH data objects

The following table contains all data objects used in predefined reports as prompt or output data. The user can also choose these objects for user defined reports. DWH data objects are attributes, which contain business information.

DWH objects	Description	Measure/Object
Account Balance at EoD	Account balance of a cash account per day at close of business	Measure
Account Balance at SoD	Account balance of a cash account per day at start of business	Measure
Account BIC	BIC11 of the account	Object
Account Monitoring Group name	Name of the Account Monitoring Group	Object
Account number	The account number is an alphanumerical string which uniquely identifies an account	Object
Account owner BIC	BIC11 of an account owning party	Object
Account owner name	Name of an account owning party	Object
Account type	Types of cash accounts which can be debited and credited, e.g. MCA	Object
Accrued excess reserve interest amount (non-exemption tier)	Accrued interest amount for Effective MR requirement reached, calculated Actual/360 using the "Excess reserve interest rate (non-exempt tier)" of the current maintenance period, and the average of MR amount totals during the current minimum reserve maintenance period, which exceeds the sum of MR obligation and exempt excess reserve.	Measure
Accrued excess reserve interest amount (exemption tier)	Accrued interest amount for Effective MR requirement reached, calculated Actual/360 using the "Excess reserve interest rate (exempt tier)" of the	Measure

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DWH objects	Description	Measure/Object
	current maintenance period, and the average of MR amount totals during the current minimum reserve maintenance period, which exceeds the MR obligation up to the maximum amount of the exempt excess reserve.	
(Accrued) MR interest amount	Amount of MR interest for the displayed maintenance period	Measure
Accumulated balance	Accumulated EoD balance per Leading CLM account holder	Measure
Addressable BIC	BICs that are reachable as correspondent in the role of a correspondent or a branch (Participation types 05 – 08 according to the RTGS Directory).	Object
Adjustment balance	It is the balance, that is needed at the end of each future business day in order to exactly fulfil the minimum reserve requirement in the remainder of the current minimum reserve maintenance period.	Measure
Amount From/To	Identifies the settlement amount of a cash transfer order	Measure
Amount of payment	Settlement amount of a cash transfer order; for unsettled cash transfer orders the intended settlement amount	Measure
Ancillary system	A system in which payments or securities are exchanged and/or cleared, while the ensuing monetary obligations are settled in another system, typically an RTGS system.	Object
Ancillary system type	Type of an AS , identifying it as e.g. a clearing house, a security settlement system or a retail payment system	Object
AS BIC and short name	BIC11 and name of an ancillary system	Object

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DWH objects	Description	Measure/Object
AS settlement procedure	A specific set of processes and functions in the T2 Service that an ancillary system can use for the settlement of AS transfer orders.	Object
Attribute name	Name of the attribute	Object
Average value	Daily amount totals of settled cash transfer orders per day in a given time period	Measure
Average volume	Daily average number of settled cash transfer orders per day in a given time period	Measure
Balance of account (SoD)	Identifies a starting balance of a cash account.	Measure
Balance	Identifies a starting, running or closing balance of a cash account.	Measure
Banking Group name	Name of the Banking Group the party belongs to	Object
Beneficiary BIC	BIC of the beneficiary	Object
BIC	An eleven-digit code consisting of the BIC8 followed by a branch code of three characters which is used to identify any branch or reference of an institution.	Object
Bilateral limit	The maximum daily outflow of liquidity for payments with normal priority defined by an RTGS Account Holder for one of its RTGS DCAs towards another RTGS DCA.	Measure
Billing period end	End of the billing period	Object
Billing period start	Start of the billing period	Object
Business case code	A four-letter code indicating the business context of a business case to a cash transfer or a credit line modifcation	Object

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DWH objects	Description	Measure/Object
Business date	Indicates the business date	Object
Calculation includes data until	Date of the last business day, which was imported into DWH as the base for minimum reserve interest calculations.	Object
Capital refund	Total value of cash transfer orders, which reduce the balance of an overnight deposit or a marginal lending account at a given date (off-leg).	Measure
Capital set-up	Total value of cash transfer orders, which build up the final balance of an overnight deposit or a marginal lending account until close of business of a given date (on-leg).	Measure
Cash Transfer Category	Category which is technically using the contents of field "Business case code" in CLM and RTGS cash transfer tables.	Object
Cash transfer type	Type of the cash transfer	Object
Charged party BIC	BIC of the charged party	Object
Charged party name	Name of the charged party	Object
Classification	Classification of transaction according to statistical classification	Object
Clearing System Reference	Clearing system reference, which an acting monetary financial institution can provide as an identifier of a cash transfer order	Object
Contingency account number	The account number of a contingency account	Object
Contingency session	Contingency sessions from opening to closing time of ECONSII	Object
Counterparty account BIC	Service name of the cash account, which is the opposite (debited or credited) cash account in a cash transfer order	Object

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DWH objects	Description	Measure/Object
Counterparty country code	Country code (ISO 3166-1) of the monetary financial institution which is the opposite (debited or credited) party in a cash transfer order	Object
Counterparty party BIC	BIC of the monetary financial institution which is the opposite (debited or credited) party in a cash transfer order	Object
Counterparty service	Service of the counterparty	Object
Country code	Two-digit alphabetic code identifying a country ISO 3166-1	Object
Credit	Settlement amount of a single cash transfer order or the total of settlement amounts of cash transfer orders, credited to a given cash account	Measure
Credit line amount	Commitment to grant intraday credit on demand based on collateral provided to a CB	Measure
Credit line amount at EoD	Credit line amount per party and day at close of business	Measure
Credit line amount at SoD	Credit line amount per party and day at start of business	Measure
Credited Account	Identifies the credited account	Object
Credited Account Number	Number of a cash account, credited by a cash transfer order	Object
Credited Account BIC	BIC of a cash account, credited by a cash account order	Object
Credit based only flag	Flag indicating if the account is credit based only	Object
Credit line amount: Maxima	Maximum of the credit line amount at that day	Measure
Cross border	Identifies a cash transfer order where the debited and credited parties are subject to different CBs.	Object

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DWH objects	Description	Measure/Object
Currency (code)	Three digit alphabetic code identifying a currency (ISO 4217) of a cash account, a party or a cash transfer order	Object
Daily average value	Identifies the average of settlement amounts of cash transfer orders of a certain state and priority in a given time period. When the order state indicates not-settled cash transfer orders, then the average is calculated on the base of intended settlement amounts.	Measure
Daily average volume	Identifies the average number of cash transfer orders of a certain state and priority in a given time period.	Measure
Date (from)	Business date (from)	Object
Date (to)	Business date (to)	Object
Debit	Settlement amount of a single cash transfer order or the total of settlement amounts of cash transfer orders, debited to a given cash account	Measure
Debited Account	Identifies the debited account	Object
Debited Account Number	Number of a cash account, debited by a cash transfer order	Object
Debited Account BIC	BIC of a cash account, debited by a cash account order	Object
Default MCA	A party must mark one of its MCAs as "Default" for its usage in automatic processes of Standing Facility Services, Minimum Reserve Management, BILL and Central Bank operations(CBO).	Object
Default MCA number	Account number of the default MCA of the party	Object
Deletion status	Indicates if a party is active or deleted	Object
Direct Participant	RTGS Account Holder	Object

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DWH objects	Description	Measure/Object
Direct Participant name	Name of the RTGS Account Holder	Object
Direct Participants Overall	Number of Direct Participants in a system entity at a given date	Object
Domestic	Identifies a cash transfer order where the debited and credited parties are subject to the same CB.	Object
Effective MR requirement	Accumulated amount of minimum reserves within the maintenance period, which are held either under direct and indirect MR, obligation or within a MR pool of parties each day of the maintenance period.	Measure
Effective time	Time when the event actually occurs	Object
End time	Time when the event ended.	Object
End to End Reference	End-to-End reference which an acting monetary financial institution can provide as an identifier of a cash transfer order.	Object
Entity name	Name of the data entity in BILL (used for critical data)	Object
Entry Timestamp	Timestamp at which a cash transfer order entered CLM or RTGS (A2A or U2A).	Object
Error Code	Error code which CLM or RTGS assigned to a cash transfer order; is empty for correctly processed cash transfer orders.	Object
Error Description	Error description which CLM or RTGS assigned to a cash transfer order; may be empty for correctly processed cash transfer orders.	Object
Event	Business day event	Object
Event code	Code of the business day event	Object

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DWH objects	Description	Measure/Object
Excess/deficiency of reserves	Difference between the average of MR amount totals during the current minimum reserve maintenance period and the minimum reserve requirement	Measure
Excess reserve exemption factor	Factor for the calculation of the excess reserve exemption tier on the base of the minimum reserve amount	Object
Excess reserve interest amount (exemption tier)	Amount of interest, paid for holdings exceeded the required minimum reserves within the exemption tier	Measure
Excess reserve interest amount (non-exemption tier)	Amount of interest, paid for holdings, which exceeded the required minimum reserves exemption tier.	Measure
Global Filters	Global Filters used in the Statistical Classification of Transaction for CLM and RTGS	Object
Highest community level	Highest community value (of the credit line amount)	Object
Highest community value	Highest community value of queued cash transfer orders for the default MCAs in CLM	Measure
Highest community volume/	Highest community volume of queued cash transfer orders for the default MCAs in CLM	Measure
Hour	Date and hour	Object
Injection or drain of liquidity	Sum of credited (injected) - Sum of debited (drained) amount of liquidity transfers on an account	Measure
Instruction Identification	Instruction identification which an acting monetary financial institution can provide as an identifier of a cash transfer order	Object
Interest	Interest amount paid or received for balances kept in an overnight deposit or marginal lending account.	Measure

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DWH objects	Description	Measure/Object
Intraday credit use: Weighted average	Weighted average of the intraday credit line use of that day	Measure
Last update timestamp	Timestamp of the last update of an attribute	Object
Leading CLM Account Holder BIC	BIC11 of a Leading CLM Account Holder	Object
Leading CLM Account Holder name	Name of a Leading CLM Account Holder	Object
LEI	Legal entity identifier	Object
Liquidity Transfer Group name	Name of the Liquidity Transfer Group	Object
Local Filters	Local Filters used in the Statistical Classification of Transaction for CLM and RTGS	Object
Lowest community value	Lowest community value of queued cash transfer orders for the default MCAs in CLM	Measure
Lowest community value (credit line)	Lowest community value of the credit line amount in the chosen period	Measure
Lowest community volume	Lowest community volume of queued cash transfer orders for the default MCAs in CLM	Measure
Maintenance period	The period over which compliance with minimum reserve requirements is calculated and for which such minimum reserves must be held on reserve accounts.	Object
Maxima	Maximum of the credit line amount at that day and/or Maximum of the intraday credit line use at that day.	Measure
Message ID	Message Identifier provided in a cash transfer order message	Object
Message in XML-Format	Inbound message in XML format	Object

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DWH objects	Description	Measure/Object
Message type	ISO 20022 conform identifier for the type of a message exchanged with T2	Object
MFI code	Monetary financial institution code	Object
Minima	Minimum of the credit line amount, the amount of IDC used and the sum of values of queued cash transfer orders for the time band	Measure
Minimum reserve interest rate	Rate (in %) to calculate the interest amount on minimum reserve.	Object
Minimum reserve obligation	Minimum reserve obligation	Object
Minimum reserve requirement	Amount of minimum reserve to be held at the end of each day of the maintenance period.	Object
Month (from)	Month (from)	Object
Month (to)	Month (to)	Object
MR calculated penalty amount 1	Penalty calculated for a party, which missed the minimum reserve requirement in a maintenance period for the first time.	Measure
MR calculated penalty amount 2	Penalty calculated for a party, which already missed the minimum reserve requirement in the previous maintenance period.	Measure
Multi-addressee	An RTGS Actor which can submit/receive cash transfers directly to/from the system.	Object
Multilateral limit	The maximum daily outflow of liquidity for payments with normal priority defined by an RTGS Account Holder for one of its RTGS DCAs towards all RTGS DCAs for which no bilateral limit has been defined.	Measure
National Sorting Code	National Sorting Code of the party	Object
New field value	Value of the attribute after the change	Measure

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DWH objects	Description	Measure/Object
Number of calendar days in the MP	Number of all calendar days within a maintenance period	Object
Number of events (amount of credit line)	Number of events within a system entity and a given time period, in which the total amount of credit lines changed	Measure
Number of events (cash transfer order)	Number of events in a timeline, in which a credit line, intraday credit usage or a cash transfer order changed.	Measure
Number of MCAs with a credit line > 0	Number of all MCAs, which had a credit line > 0 at least once during a certain time.	Measure
Number of MCAs with a negative intraday balance	Number of those MCAs that had a negative account balance at least once during a certain time	Measure
Number of indirect participants	Number of indirect participants in a system entity at a given time	Measure
Number of rejected transactions	Cash transfer orders which were not settled due to technical and/or business reasons.	Measure
Old field value	Value of the attribute before the change	Measure
On behalf	Indicates if cash transfer was inserted on behalf	Object
Originator party BIC	BIC of the party originating the charge	Object
Originator party name	Name of the party originating the charge	Object
Parent party BIC	Party BIC of the responsible CB in case the Party is a PB or AS	Object
Participation Type	Identifies the participation type	Object
Party	Any legal entity or organisation interacting with one or more TARGET Service(s) that CRDM maintains in party reference data.	Object

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DWH objects	Description	Measure/Object
Party address	Street, house number, postal code and city of a monetary financial institution	Object
Party BIC	BIC11 of a Party	Object
Party BIC and Name	BIC11 and short name of a Party, delimited by a hyphen	Object
Party closing date	Closing date of the party	Object
Party long name	Long name of a monetary financial institution	Object
Party opening date	Opening date of the party	Object
Party short name	Short name of a monetary financial institution	Object
Payment banks with a least one RTGS DCA	Number of payment banks with a least one RTGS DCA at a given date	Measure
Payment type	The payment type divides cash payment orders into liquidity transfers, credit transfers and direct debits	Object
Peak Day	Identifies the business day at which the maximum value respective volume total of cash transfer orders was reported.	Object
Peak Day value	In DWH the business day at which the maximum value total of cash transfer orders of a given status was reported	Measure
Peak Day volume	In DWH the business day at which the maximum volume total of cash transfer orders of a given status was reported.	Measure
Peak Hour	Identifies the hour at which the maximum value resp volume total of cash transfer orders was reported.	Object
Peak Hour value	In DWH the hour at which the maximum value total of cash transfer orders of a given status was reported.	Measure
Peak Hour volume	In DWH the hour at which the maximum volume total of cash transfer orders of a given status was reported.	Measure

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DWH objects	Description	Measure/Object
Peak IDC use	Maximum of the used intraday credit in a given time interval.	Measure
Penalty rate 1 (single infringement)	Rate (in %) to calculate the penalty as an interest amount on minimum reserve balances which did not meet the minimum reserve requirement in a maintenance period	Measure
Penalty rate 2 (repeated infringement)	Rate (in %) to calculate the penalty as an interest amount on minimum reserve balances which did not meet the minimum reserve requirement in one or more consecutive maintenance periods	Measure
Planned time	Time for which an event was originally planned	Object
Priority	Identifies the priority of a cash transfer order	Object
Published BIC	Account BIC that is published in the RTGS Directory	Object
Quantity	Number of service items	Measure
Quarter	Identifies the quarter of a year.	Object
Queued cash transfer order s for MCAs or RTGS DCAs	Value and volume of queued cash transfer orders	Measure
Queued cash transfer order value	DWH displays values of cash transfer order which in the course of a business day were released for settlement but could not be executed for an certain time interval due to the lack of liquidity.	Measure
Queued cash transfer order volume	DWH displays volumes of cash transfer order which in the course of a business day were released for settlement but could not be executed for an certain time interval due to the lack of liquidity.	Measure

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DWH objects	Description	Measure/Object
Receiver BIC	BIC of the actor who is authorised to receive messages and/or files from CLM and/or RTGS.	Object
Receiver Name	Short name of the actor who is authorised to receive messages and/or files from CLM and/or RTGS.	Object
Reference	Unique identifier assign to any transaction	Object
Reference 1	Identifies a transaction identifier provided by an originating party. The used reference type depends on the message type and the cash transfer type of a cash transfer order.	Object
Reference 2	Identifies a transaction identifier provided by an originating party. The used reference type depends on the message type and the cash transfer type of a cash transfer order.	Object
Reservation amount	Amount of the reservation	Measure
Responsible party BIC	Party BIC of CB responsible for the charged party.	Object
Responsible party name	Name of the CB responsible for the charged party.	Object
Reversed Payment Indicator	Indicator to identify a payment order as the reversal of a previously settled payment order (occurs in AS settlement of type A and B)	Object
Revised time	The foreseen time for an event.	Object
Running average	The sum of daily balances from beginning of the maintenance period till the end of the maintenance period / total number of days in the maintenance period (for ongoing maintenance periods: sum of daily balances from beginning of the	Measure

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DWH objects	Description	Measure/Object
	maintenance period till the day for which MR data is available in the DWH / total number of days in the maintenance period that have already been passed).	
Semester	Identifies the two halves of a year	Object
Sender BIC	BIC of the actor who is authorised to send messages and/or files to CLM and/or RTGS.	Object
Sender DN	Actor who is authorised to send messages and/or files to CLM and/or RTGS. The sender is identified by a distinguished name which is not part of the BAH or the Business File Header.	Object
Sender Message Reference	Message reference which is provided by the sender as an identifier of the message	Object
Sender Name	Short name of the actor who is authorised to send messages and/or files to CLM and/or RTGS.	Object
Service	Identifies the settlement service	Object
Service item category	Category of the service item	Object
Service item code	Code of the service item	Object
Service item description	Description of the service item	Object
Service Type	Identifies the settlement service	Object
Service party type	Identifies the settlement service a party belongs to	Object
Settlement Bank Account Group name	Name of the Settlement Bank Account Group	Object
Settlement Reference	Settlement reference which an acting monetary financial institution can provide as an identifier of a cash transfer order	Object

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DWH objects	Description	Measure/Object
Settlement Status Description	User comprehensible description of the status of a cash transfer order	Object
Settlement timestamp	Timestamp of the settlement, cancellation or revocation of a cash transfer order, representing date, time at least milliseconds	Object
Share (%)	Share of the usage of a service item within the month compared to the total of service items charged (in %)	Measure
Standard deviation	Average of the absolute deviations from an arithmetic average of amount totals of queued cash transfer orders.	Measure
Status	Identifies status of a cash transfer order	Object
Sum of consumptions	Number or consumptions of a given service item category	Measure
Time band	A given time period within a business day	Object
Timestamp of Effective Settlement	Timestamp at which a cash transfer order was effectively settled; empty for unsettled cash transfer orders	Object
Total daily average volume	The total daily average for a month as sum of daily averages	Measure
Total daily average value	The total daily average for a month as sum of daily averages	Measure
Total(s)	Sum of values or volumes listed in a report	Measure
Transaction Category	Transaction category distinguishes Interbank payments from "Customer payments".	Object
Transaction Classifier	Classifier of the Statistical Classification of Transaction	Object
Transaction Identification	Transaction identifier which an acting monetary financial institution can	Object

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DWH objects	Description	Measure/Object
	provide as an identifier of a cash transfer order	
Transaction Reference Number	Unique identifier which CLM and RTGS assign to any transaction.	Object
Type of Credited Account	Cash account type of the account, which is credited by a cash transfer order.	Object
Type of Debited Account	Cash account type of the account, which is debited by a cash transfer order.	Object
UETR	Universal-End-to-End-Transaction Reference which can be provided as an identifier of a cash transfer order	Object
Unpublished BIC	In DWH a cash account BIC is marked as "unpublished" that is not published in the RTGS Directory.	Object
User name	Name of the user	Object
Value (in million)	Sum of settlement amounts of cash transfer orders, displayed as the number in millions	Measure
Value of AS transfer orders – Settled	Sum of amounts of all AS transfer orders which were settled or partially settled for the respective AS.	Measure
Value of AS transfer orders – Not settled	Sum of amounts of all AS transfer orders which were not settled (i.e. cancelled (revoked) or rejected) for the respective AS.	Measure
Value of cash transfer orders debited/credited/sent/received	Settlement amount total of cash transfer orders debited/credited/sent/received to a cash account of a party in a given time interval.	Measure
Value of payments received	Settlement amount total of settled cash transfer orders, a party received in a particular RTGS cash account in a	Measure

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DWH objects	Description	Measure/Object
	given time period, grouped by payment type or message type	
Value of payments sent	Settlement amount total of sent payments	Measure
Value of Settlement	Settlement amount	Measure
Volume	The number of cash transfer orders in a given time period.	Measure
Volume of AS transfer orders – Settled	Number of AS transfer orders which were settled or partially settled for the respective AS	Measure
Volume of AS transfer orders – Not settled	Number of AS transfer orders which were not settled (i.e. cancelled (revoked) or rejected) for the respective AS	Measure
Volume of cash transfer orders debited/credited/sent/received	Number of cash transfer orders debited/credited/sent/received to a cash account of a party in a given time interval.	Measure
Volume of payments received	Number of received payments	Measure
Volume of payments sent	Number of sent payments	Measure
Weighted average	Weighted average value within a system entity or per party in a given time period.	Measure
Weighted average value	Weighted average value of payment amount totals of queued cash transfer orders within a system entity or per party.	Measure
Weighted average volume/value	Weighted average volume/value of queued cash transfer orders for the RTGS DCAs that are linked to a default MCA which had a credit line > 0 at least once a day.	Measure
Year (from)	Year (from)	Object
Year (to)	Year (to)	Object

Table 157 - DWH objects

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9.2 CLM/RTGS inbound XML messages available in the DWH

The following list contains all XML message types available in the DWH which were processed in CLM or RTGS as inbound messages. Query messages as well as all outbound messages are not transferred to the DWH.

Source	Message type	Description
CLM	camt.048	Modify reservation
CLM	camt.049	Delete reservation
CLM	camt.050	Liquidity credit transfer
CLM (CB specific)	camt.056	FItoFI Cancellation request
CLM (CB specific)	camt.998	Modify credit line, Authorize penalty MR, Insert value of MR, Insert balance MR
CLM (CB specific)	pacs.009	FI Credit transfer
CLM (CB specific)	pacs.010	FI Direct debit
RTGS	camt.007	Modify transaction
RTGS	camt.011	Modify limit
RTGS	camt.012	Delete limit
RTGS	camt.048	Modify reservation
RTGS	camt.049	Delete reservation
RTGS	camt.050	Liquidity credit transfer
RTGS	camt.056	FItoFI Payment cancellation request
RTGS	pacs.004	Payment return
RTGS	pacs.008	Customer credit transfer
RTGS	pacs.009	FI Credit transfer
RTGS	pacs.010	FI Direct debit
RTGS	pain.998	AS transfer initiation (ASTI)

Table 158 - List of CLM/RTGS inbound messages

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9.3 DXE file documentation

9.3.1 Introduction

NCBs need an adequate technical solution to extract granular data from the DWH for T2 Services. NCBs require the national extractions of data from the data warehouse (DWH). The purpose of these extractions are to provide the local applications with granular data from the T2 Service so that they can be combined with national payment system data and collateral data, and to share the data with respect to TARGET Services Guidelines with other Directorate Generals for analytical and research purposes (e.g. via a common data lake).

This specification replaces the current section of the DWH User Handbook that describes the DEX02 report, as the feedback on the current report emphasised that the documented solution is not fit-for-purpose for the following reasons:

- In order not to exceed the ESMIG file limitation of 99MB, the requirement in the UHB is that users to schedule the DEX02 report per Party BIC and for a single business day.
- Central banks with a significant number of payments banks and ancillary systems would require significant effort to configure and schedule the reports.
- Multiple record types in a single file is very complex to process by the receiving application
- Combining different functional data objects (e.g. transaction, account, participant and event data) in one record in an output file would
- - increase the file size due to repetitive information;
- - repeat general information, for instance about business day events, multiple times when data extractions are split;
- - increase the complexity of the technical processing in local central bank environments.

In order to address the shortcomings that the central banks raised, the new reporting solution for the DEX02 reporting foresees:

- The separation of the DEX02 report into six distinct reports (now named DXE01 – DXE06 to avoid confusion) that extracts a set of specific business data per report so that the report complexity is minimised;
- The elimination of the scheduling of the report by Party BIC, i.e. the provision of the data in each report by central bank;
- Removes repetitive information that results from the reporting by Party BIC.
- In order to simplify the joining of data, the reports will provide both the internal reference data technical identifiers as well as the externally visible business identifiers.

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9.3.2 General information

9.3.2.1 Scheduling

The scheduling of the DXE reports can take place for the current month, the current week or the current business day. Central banks with large transactional volumes should schedule their report on a daily basis for more manageable file sizes. Central banks with lower transactional volumes can schedule their reports on a weekly or monthly basis.

9.3.2.2 File splitting

File splitting will be implemented for files that exceed the maximum file size of 99MB.

9.3.2.3 File and field conventions

The interface will provide the extracted data in comma-separated files (CSV). The files are encoded in UTF-16 Little Endian. The respective UDFS or UHB (CLM, RTGS or CRDM) document the full character set.

Fields will be provided without any start or ending delimiter (e.g. “”). As this is a valid character in few cases and can lead to misinterpretation or an abnormal termination.

Character type set:

Format Type	Definition
CHAR (n)	String with exactly n UTF-8 characters, is padded with blanks on right side
VARCHAR (n)	String with n UTF-8 characters maximum
DEC (p, s)	The precision (p) is the total number of binary or decimal digits excluding the sign. The scale (s) is the total number of binary or decimal digits to the right of the decimal point A dot ‘.’ is used as decimal point. Decimals without decimal places will end with “.” Field is padded with “0” on left side First digit is a blank or minus
SMALLINT	Number, up to 5 digits
INTEGER	Number, up to 10 digits

Format Type	Definition
DATE	Date in format “yyyy-mm-dd” with no time zone indication
TIME	Time in format “hh:mm:ss” with no time zone indication in CET/CEST
TIMESTAMP	Date in format “yyyy-mm-dd hh:mm:ss.mmmmmm” with no time zone indication in CET/CEST

- In case of NULL in CSV, two separators will be provided after each other with no content in between. Date 9999-01-01 and Timestamp with 9999-01-01-00.00.00.000000 are NULL.
- Each line ends with line feed (LF, hexadecimal “0x0A”).
- The general separator for attributes is a TAB (hexadecimal “09”). A TAB is not used at the end of a line.

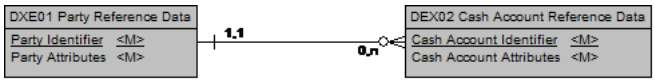
9.3.3 Relationship between files

9.3.3.1 Use of technical identifiers

The interface files provide for reference data both a unique technical identifier and a business identifier. The technical identifier is always unique and should be used to link reference data to transactional data even though the transactional data contains the business identifiers of reference data redundantly.

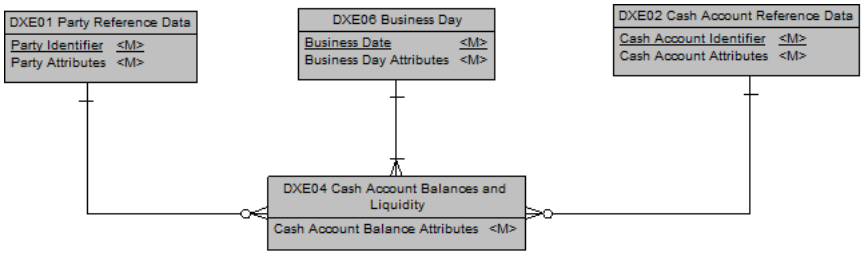
9.3.3.2 Party to cash account reference data file relationship

Each cash account has a mandatory relationship to a party. The cash account reference data contains the party identifier as the attribute to link a party to a cash account.



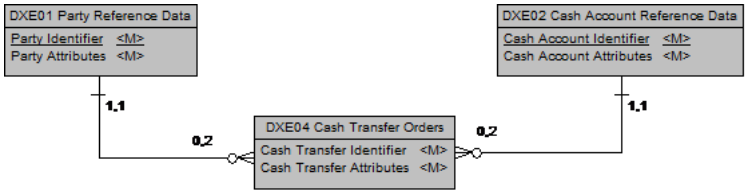
9.3.3.3 Cash account balance and liquidity to reference data file relationships

Each cash account balance and liquidity is uniquely identified through a combination of a business day and a cash account identifier. The cash account balance also has a relationship to party reference data.



9.3.3.4 Cash transfers to reference data file relationships

Each cash transfer has a relationship to cash account reference data as well as to the party of the cash account. Each cash transfer specifies the cash account identifier and the party identifier.



9.3.3.5 Aggregation Group to Reference Data File Relationships

Each aggregation group has a relationship to cash account reference data as well as to the party of the cash account. An attribute in the aggregation group determine whether the relationship pertains to the cash account or the party.

9.3.4 DXE01 – party reference data file specification

A party in CRDM denotes any legal or organisational entity required in a Eurosystem market Infrastructure for processing. In this context, the party reference data file contains the attributes of party in their state as of the business day that the user selected.

No.	Logical Name	Data Type	Mandatory/ Optional	Definition
1	Party Identifier	INTEGER	Mandatory	This attribute contains the unique technical identifier of the Party in Common Reference Data Management (CRDM) or in CRSS for historic data.
2	Business Day	DATE	Mandatory	This field specifies the business day of the Eurosystem market infrastructure for which the extraction took place.

3	System entity	VARCHAR(4)	Mandatory	This field contains the unique system entity mnemonic of a system entity in Common Reference Data Management (CRDM).
4	LEI	VARCHAR(20)	Optional	This field contains the Legal Entity Identifier that identifies a party according to ISO 17442.
5	BIC	VARCHAR(13)	Mandatory	This field contains the Business Identifier Code of a party according to ISO 9362.
6	Country Code	VARCHAR(2)	Mandatory	This field contains the ISO country code of the jurisdiction in which the party is legally registered.
7	Party Long Name	VARCHAR(350)	Mandatory	This field contains the full legal name of a party.
8	Party Short Name	VARCHAR(35)	Mandatory	This field contains the user-define mnemonic to identify a party.
9	Party Type	VARCHAR(4)	Mandatory	This field provides the classification of the party in CRDM to identify its role in the respective Eurosystem market infrastructure. Code and Description: - T2SO: Operator - NCBK: Central Bank - PMBK: Payment Bank - ANSY: Ancillary System

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10	Party Opening Date	DATE	Mandatory	This fields defines the actual date that the CSD or NCB established the contractual relationship with the party, i.e. the date from which the party is eligible to process its business transactions on the Eurosystem market infrastructure.
11	Party Close Date	DATE	Mandatory	This field defines the actual date that the contractual relationship of the party with CSD or NCB ended, i.e. the date as of which the party no longer is eligible to process its business transactions on the Eurosystem market infrastructure.
12	Deletion Status	VARCHAR(4)	Mandatory	This field specifies whether the record is active or is logically deleted. Code and Description: - DELE: Deleted - ACTV: Active

9.3.5 DXE02 – Cash account reference data file specification

The cash account reference data file contains the attributes of a cash account in their state as of the business day that the user selected.

No.	Logical Name	Data Type	Mandatory/ Optional	Definition
1	Cash Account Identifier	INTEGER	Mandatory	This attribute contains the unique technical identifier of the cash account in Common Reference Data Management (CRDM)
2	Cash Account Number	VARCHAR(34)	Mandatory	This field documents the externally visible cash account number that uniquely identifies a cash account across all Eurosystem market infrastructure services.
3	Cash Account BIC	VARCHAR(11)	Optional	This field specifies the BIC of the cash account according to ISO 9362.
4	Business Day	DATE	Mandatory	This field specifies the business day of a Eurosystem market infrastructure.
5	Currency Code	CHAR(3)	Mandatory	This field specifies the ISO currency code for the cash account.

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6	Linked Cash Account Identifier	INTEGER	Optional	This field specifies the cash account identifier of the linked cash account. The determination of whether a link from one cash account to another cash account exists takes place using this attribute. When this field specifies a value, then this field contains a valid cash account to which the cash account, as identified by the cash account identifier, is linked.
7	Linked Cash Account Number	VARCHAR(34)	Optional	This field specifies the cash account number of the linked cash account. The determination of whether a link from one cash account to another cash account exists takes place using this attribute. When this field specifies a value, then this field contains a valid cash account to which the cash account, as identified by the cash account number, is linked.
8	Linked Cash Account Type	VARCHAR(4)	Optional	This field determines whether the cash account has a linked cash account associated to it in the CRDM data. CLM-RTGS does not use this field for its processing. This field also specifies the type of cash account to which the cash account is linked. Code and Description - RDCA: RTGS DCA - CMCA: CLM Main cash account - CCAC: CLM CB account - ATEC: AS technical account for procedures
9	Party Identifier	INTEGER	Mandatory	This field specifies the unique party identifier of the party in Common Reference Data (CRDM) that holds the cash account.
10	Account Type	VARCHAR(4)	Mandatory	This field provides the role of the cash account in a Eurosystem market infrastructure Code and Description RTGS: - RDCA: RTGS DCA - RCBA: RTGS CB account

				- ATEC: AS technical account for procedures A and B (ATEC) - ATEC: AS technical account for procedures C and E (ATEC) - ATEC: AS technical account for procedure D (ATEC) - AGAC: AS guarantee funds account - RSAA: RTGS sub-account - RTAC: RTGS dedicated transit account CLM: - CMCA: CLM Main cash account - CCAC: CLM CB account - ONDP: Overnight deposit account) - MGLD: Marginal lending account - CEMA: ECB mirror account - CECB: CB ECB account - CTEC: CLM technical account for ECONS II - CTTS: CLM dedicated transit account for T2S - CTTI: CLM dedicated transit account for TIPS - CTRT: CLM dedicated transit account for RTGS ECONS2: - ECCA: Contingency Cash Account - ECCB: CB Contingency Account - ECTA: Contingency Technical Account - ECTR: Contingency Transit Account T2S: - RTGS: RTGS Dedicated Transit Account - NCBA: T2S Central Bank Account - CSHA: T2S Dedicated Cash Account

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				TIPS - TACC: TIPS Accounts - TTAC: Transit Accounts - TAST: TIPS Ancillary System Transaction Account
11	Ceiling Amount	DECIMAL(31,2)	Optional	This field specifies the ceiling (highest amount) for the balance on a on a cash account, the breach of which result in a notification to the cash manager.
12	Closing Date	DATE	Mandatory	This field defines the actual date that cash account is no longer eligible for settlement on the Eurosystem market infrastructure.
13	Floor Amount	DECIMAL(31,2)	Optional	This field specifies the floor lowest amount) for the balance on a on a cash account, the breach of which result in a notification to the cash manager.
14	Opening Date	DATE	Mandatory	This field defines the actual date that cash account is eligible for settlement on the Eurosystem market infrastructure.
15	Credit Based Only Flag	SMALLINT	Optional	This field specifies whether the cash account is a credit-based only account, i.e. whether the cash account owner must maintain a positive balance on the cash account to settle pending cash transfer orders. Code and Description - T: Account is credit based only - F: Account is not credit based only

9.3.6 DXE03 – Cash account aggregation group file specification

This report extracts for all parties and cash accounts of a central bank, the aggregation groups of which a party or cash account is a member (depending on the type of aggregation). A party/cash account may be assigned to multiple groups of the same type depending on the aggregation group type.

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No.	Logical Name	Data Type	Mandatory/ Optional	Definition
1	Party or Cash Account Identifier	INTEGER	Mandatory	This attribute contains the unique technical identifier of the cash account or the party in Common Reference Data Management (CRDM) depending on the value in the field Party or Account.
2	Party or Account	CHAR(1)	Mandatory	This field specifies the type of identifier that the grouping contains. Code and Description - P: Party - C: Cash Account
3	Business Day	DATE	Mandatory	This field specifies the business day of a Eurosystem market infrastructure.
4	Aggregation Leader Party BIC	CHAR(13)	Optional	This field contains the Business Identifier Code of the aggregation party leader according to ISO 9362.

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5	Cash Account Number or Party BIC	VARCHAR(34)	Mandatory	This field documents the externally visible cash account number that uniquely identifies a cash account across all Eurosystem market infrastructure services or the Party BIC, depending on the value in the field Party or Account.
6	Aggregation Group Type	VARCHAR(4)	Mandatory	This field specifies the type of grouping for parties or cash accounts. Code and Description - BANK: Banking Group - ACCM: Account Monitoring Group - LQTR: Liquidity Transfer Group - SETL: Settlement Bank Account Group
7	Aggregation Group Name	VARCHAR(35)	Mandatory	This field specifies the data aggregation name. This column is restricted to the SWIFT X Character Set via BRs at U2A and A2A level.

9.3.7 DXE04 – Cash account balance and liquidity file specification

The Cash Account Liquidity file provides the end-of-day states of various balances in CLM-RTGS for a cash account. The DWH does not receive an intraday history. CLM-RTGS always overwrites the record when an amount changes.

No.	Logical Name	Data Type	Mandatory/ Optional	Definition
1	Cash Account Identifier	INTEGER	Mandatory	This attribute contains the unique technical identifier of the cash account in Common Reference Data Management (CRDM)
2	Cash Account Number	VARCHAR(34)	Mandatory	This field documents the externally visible ISO 20022 cash account number that uniquely identifies a cash account across all services.
3	Cash Account Holder Party BIC	VARCHAR(13)	Mandatory	This field specifies the party BIC of the cash account holder as a party in in Common Reference Data Management (CRDM).

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4	Business Day	DATE	Mandatory	This field specifies the business day of the Eurosystem market infrastructure for which the extraction took place.
5	Liquidity	DECIMAL(31,2)	Optional	This field specifies the available liquidity for the cash account.
6	Liquidity Position	DECIMAL(31,2)	Mandatory	This field specifies the position of the liquidity.
7	Liquidity at Start of Day	DECIMAL(31,2)	Mandatory	This field specifies the liquidity at the start of the day
8	Account Type	SMALLINT	Mandatory	This field specifies the type of account. Code and Description - 0: RTGS DCA - 1: RTGS CB account - 3: AS technical account for procedures A and B - 4: AS technical account for procedures C and E - 5: AS technical account for procedure D - 7: AS guarantee funds account - 9: RTGS sub-account - 40: RTGS dedicated transit account - 100: MCA - 101: CLM CB account - 105: Overnight deposit account - 106: Marginal lending account - 111: ECB mirror account - 112: CB ECB account - 113: CLM technical account for ECONS II - 130: CLM dedicated transit account for T2S - 135: CLM dedicated transit account for TIPS - 140: CLM dedicated transit account for RTGS
9	Country Code CB	CHAR(2)	Mandatory	This field specifies the country code of the central bank.
10	Pending Urgent Reservation	DECIMAL(31,2)	Optional	This field specifies the pending urgent priority reservation.

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11	Position of the Urgent Reservation	DECIMAL(31,2)	Optional	This field specifies the position of the urgent priority reservation.
12	Urgent Reservation at Start of Day	DECIMAL(31,2)	Optional	This field specifies the amount of the urgent priority reservation at the start of the day.
13	Pending High Reservation	DECIMAL(31,2)	Optional	This field specifies the pending high priority reservation.
14	Position of the High Reservation	DECIMAL(31,2)	Optional	This field specifies the position of the high priority reservation.
15	High Reservation at Start of Day	DECIMAL(31,2)	Optional	This field specifies the amount of the high priority reservation at the start of the day.
16	Limit Disabled Flag	SMALLINT	Optional	This field specifies the whether all bilateral limits for the current day are zero or set to zero so that for this participant no bilateral or multilateral limits should be applied. Code and Description - 0: No - there are bilateral limits - 1: Yes - neither multilateral limit nor bilateral limits will be applied
17	Defined Multilateral Limit	DECIMAL(31,2)	Optional	This field specifies the extended relationship limit (‘collecting’ limit).
18	Defined Multilateral Limit Timestamp	TIMESTAMP	Optional	This field specifies the date and time of the last update of the multilateral limit.
19	Pending Multilateral Limit	DECIMAL(31,2)	Optional	This field specifies the multilateral limit amount to be activated. It is an intra-day change (reduction) of the multilateral limit, which cannot be activated at present because of a higher claim of the limit. Nevertheless, it is taken into account by the entry disposition process in order to reduce the claim to the desired limit amount.
20	Pending Multilateral Limit Timestamp	TIMESTAMP	Optional	This field specifies the timestamp of the last activation of the multilateral limit.
21	Claimed Multilateral Limit of an Algo	DECIMAL(31,2)	Optional	This field specifies the current amount of a multilateral limit that the settlement algorithm reserved at the start of day.

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22	Position of the Multilateral Limit	DECIMAL(31,2)	Optional	This field specifies the current (permanently updated) position of the multilateral limit.
23	Multilateral Limit at Start of Day	DECIMAL(31,2)	Optional	This field specifies the multilateral limit at the beginning of the day.
24	Bilateral Limits Sum	DECIMAL(31,2)	Optional	This field specifies the total of all bilateral limits.
25	Bilateral Limits Sum Timestamp	TIMESTAMP	Optional	This field specifies the date and time of the last update of the sum of the bilateral limits.
26	Bilateral Limit Positions Sum	DECIMAL(31,2)	Optional	This field specifies the sum of all current positions of the bilateral limit.
27	Amount of Automatic Marginal Lending used	DECIMAL(31,2)	Optional	This field specifies the amount of automatic marginal lending used.
28	Amount of Marginal Lending on Request used	DECIMAL(31,2)	Optional	This field specifies the amount of marginal lending on request used.
29	Pending CBO Reservation	DECIMAL(31,2)	Optional	This field specifies the pending amount of the CBO reservation, i.e. it is the amount change to the CBO reservation that CLM could not yet apply. If a reservation order can only be partly changed, it is set with the remainder.
30	Position of the CBO Reservation	DECIMAL(31,2)	Optional	This field specifies the current (permanently updated) position of the CBO reservation.
31	CBO Reservation at Start of Day	DECIMAL(31,2)	Optional	This field specifies the amount of the CBO reservation at the beginning of the day. It is taken over from the standing order amount for a CBO reservation and may be less than that amount if it can only be partly executed. The amount can also be 0 if no standing order exists.
32	Pending Seizure of Funds Reservation	DECIMAL(31,2)	Optional	This field specifies the pending amount of the seizure of funds reservation. If a reservation order can only be partly set, it is set with the remainder.
33	Liquidity Position of the Seizure of Funds Reservation	DECIMAL(31,2)	Optional	This field specifies the current (permanently updated) position of the seizure of funds reservation. The funds are not part of the current liquidity position. The seizure of funds reservation is always taken away from the current liquidity position. It is

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				different from the CBO reservation, which is always part of the liquidity position.
34	Seizure of Funds Reservation at Start of Day	DECIMAL(31,2)	Optional	This field specifies the amount of the seizure of funds reservation at the beginning of the day. It is taken over from the seizure of funds reservation position amount at the end of the previous business day.
35	Credit Line	DECIMAL(31,2)	Optional	This field specifies the granted disposition fund (credit line). Entries exist for Default MCAs. They can be adjusted by GUI orders, 'modify credit line' requests or 'connected payments'.
36	Credit Line at Start of day	DECIMAL(31,2)	Optional	This field specifies the granted disposition fund (credit line) at the beginning of the day (carried-over from the previous business day) for those cash accounts that have a credit line. The field is zero for all other types of cash accounts.
37	Pending Credit Line	DECIMAL(31,2)	Optional	This field specifies the pending credit line amount, i.e. the amount change to the credit line that CLM could not yet apply. If a credit line change order per U2A or connected payment cannot not settled the pending amount is stored here.
38	Pending Credit Line Mark	SMALLINT	Optional	This field specifies the pending credit line mark. Code and Description • 0: None • 1: Fixed • 2: Delta

9.3.8 DXE05 – Cash transfers orders/cash transfer file specification

This file provides all cash transfers of a central bank for a given T2 business day.

No.	Logical Name	Data Type	Mandatory/ Optional	Definition
1	Cash Transfer Identifier	DECIMAL(16,0)	Mandatory	This attribute contains the technical identifier of the cash transfer order in CLM or RTGS.
2	Credit Cash Account Identifier	INTEGER	Mandatory	This attribute contains the unique technical identifier of the credit cash account in Common Reference Data Management (CRDM).
3	Credit Cash Account Number	VARCHAR(34)	Mandatory	This field documents the externally visible ISO 20022 credit cash account number that uniquely identifies a cash account across all services.
4	Credit Cash Account Holder Party BIC	VARCHAR(13)	Mandatory	This field specifies the party BIC of the credit cash account holder as a party in in Common Reference Data Management (CRDM).
5	Business Day	DATE	Mandatory	This field specifies the business day of a Eurosystem market infrastructure.
6	Debit Cash Account Identifier	INTEGER	Mandatory	This attribute contains the unique technical identifier of the debit cash account in Common Reference Data Management (CRDM).
7	Debit Cash Account Number	VARCHAR(34)	Mandatory	This field documents the externally visible ISO 20022 debit cash account number that uniquely identifies a cash account across all services.
8	Debit Cash Account Holder Party BIC	VARCHAR(13)	Mandatory	This field specifies the party BIC of the debit cash account holder as a party in in Common Reference Data Management (CRDM).
9	Related AS Party Identifier	INTEGER	Optional	This field specifies the unique technical identifier of the ancillary system as a party in in Common Reference Data Management (CRDM).
10	Related AS Party BIC	VARCHAR(13)	Optional	This field specifies the party BIC of the ancillary system as a party in in Common Reference Data Management (CRDM).
11	Related AS Counterpart Identifier	INTEGER	Optional	This field specifies the unique technical identifier of the counterpart ancillary system as a party in in Common Reference Data Management (CRDM).
12	Related AS Counterpart BIC	VARCHAR(13)	Optional	This field specifies the Party BIC of the counterpart ancillary system as a party in in Common Reference Data Management (CRDM).

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13	From Service	VARCHAR(4)	Mandatory	This field documents the service or service component that debited the cash transfer. Code and Description - CLM: T2 Service Central Liquidity Management - RTGS: T2 Real-time Gross Settlement - T2S: TARGET2-Securities - TIPS: TARGET Instant Payments
14	To Service	VARCHAR(4)	Mandatory	This field documents the service or service component that credited the cash transfer. Code and Description - CLM: T2 Service Central Liquidity Management - RTGS: T2 Real-time Gross Settlement - T2S: TARGET2-Securities - TIPS: TARGET Instant Payments
15	Currency Code	CHAR(3)	Mandatory	This field specifies the three-character ISO 4217 currency code.
16	Unique End-to-End Transaction Reference (UETR)	VARCHAR(40)	Optional	This field contains a universal unique identifier to provide an end-to-end reference for a payment transaction (payment order). Usage: pacs.008, pacs.009, pacs.010 and camt.050.
17	Instruction Identifier	VARCHAR(35)	Optional	This field shows the unique identification, set by the message sender, to identify the instruction (payment order). Usage: pacs.008, pacs.009, pacs.010 and camt.050 (although optional for camt,050).
18	End-to-End Identification	VARCHAR(35)	Optional	This field shows the unique identification, set by the instruction initiator, to identify the instruction (payment order) and be passed on, unchanged, throughout the entire end-to-end-chain. Usage: pacs.008, pacs.009, pacs.010 and camt.050

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19	Cash Transfer Property	SMALLINT	Mandatory	This field documents the high-level category into which the cash transfer order falls for processing in CLM-RTGS. Code and Description - 0: Original payment - 1: Return payment - 2: Original cancelled - 3: Not bookable
20	Message Type	VARCHAR(15)	Mandatory	The field specifies the ISO 20022 message type from which the cash transfer order was generated. - pain.998 - camt.050 - pacs.004 - pacs.009 - pacs.008 - pacs.010 - UNKNOWN
21	Settlement Type	SMALLINT	Mandatory	This field specifies the process that settled the cash transfer order. Code and Description - 0: Pending (not yet booked) - 1: Entry disposition - 2: Express algorithm - 3: Settlement of a connected payment - 4: AS settlements not booked by Entry disposition or algorithm - 11: Algorithm 1 - 12: Algorithm 2 - 13: Algorithm 3 - 14: Algorithm 4 - 15: Algorithm 5

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				- 20: Liquidity transfer and other immediately booked ICM orders - 80: End-of-day booking
22	Settlement Timestamp	TIMESTAMP	Mandatory	This field specifies the actual date and time that the cash transfer order settled.
23	First Processing Timestamp	TIMESTAMP	Optional	This field specifies the actual date and time of the first processing of an MGPY2000 cash transfer order. It is used to monitor the performance of processing in RTGS.
24	First Queuing Timestamp	TIMESTAMP	Mandatory	In the case that the processing queues a cash transfer order for settlement, this field specifies the actual date and time that initial queuing of the cash transfer order took place. The contents of this field does not change if a subsequent queueing of the cash transfer order take place. This field does not specify a value if a cash transfer order settles without queueing.
25	Original Amount	DECIMAL(31,2)	Optional	This field specifies the instructed amount of the cash transfer order.
26	Cash Transfer Status Before Currency Specific Closing	SMALLINT	Optional	This field specifies the final state of a cash transfer order at the end-of-day closing for a settlement currency. Code and Description - 005: Warehoused - 015: Queued - 020: Earmarked - 505: Settled - 506: Partially settled - 515: Rejected - 520: Revoked
27	Cash Transfer Status	SMALLINT	Mandatory	This field specifies the current processing status of a cash transfer order. However, at end of the business day, the status specifies the final state of the cash transfer order.

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				Code and Description - 62: warehoused - 561: settled - 562: not settled due to removal EOD or during the day - 563: reversed - 565: payment revoked including disagreement after blocking - 566: cancelled
28	Error Code	VARCHAR(4)	Mandatory	This field specifies an error code in the case an error occurs in the processing of the cash transfer order.
29	AS Balance After Booking Debit	DECIMAL(31,2)	Optional	This field documents the balance of the debited cash account after the settlement of an AS transfer order. For example, in the case of AS return account.
30	AS Balance After Booking Credit	DECIMAL(31,2)	Optional	This field documents the resulting balance an AS subaccount or AS mirror account balance of the credited cash account after the settlement of an AS transfer order. RTGS report this balance in an AS Transfer Notice of a cross-AS cash transfer (CR493).
31	Entry Timestamp	TIMESTAMP	Mandatory	Timestamp of the first entry of the data. Part of the update control block.
32	Settled Amount	DECIMAL(31,2)	Mandatory	This field specifies the amount that T2 settled for the cash transfer.
33	Debit Party Identifier	INTEGER	Mandatory	This attribute contains the unique technical identifier of the Party in Common Reference Data Management (CRDM) or in CRSS for historic data.
34	Credit Party Identifier	INTEGER	Mandatory	This attribute contains the unique technical identifier of the Party in Common Reference Data Management (CRDM) or in CRSS for historic data.
35	Classification	VARCHAR(10)	Mandatory	This field provide the category and classification of the transfer order according to the Eurosystem statistical classification framework. Code and Description

				For CLM: - C.10.00: CLM Intra - C.10.20: CLM LT RTGS - C.10.30: CLM LT T2S - C.10.40: CLM LT TIPS - C.11.01: Open Market Operations - C.11.02: Standing Facilities - C.11.03: Reserve and Account Management - C.11.04: Inter Central Bank transactions - C.11.05: Connected payments for credit line changes - C.11.06: Non-euro area Central Bank operations - C.11.09: Other (including cash transactions) - C.12: Billing - C.13: TARGET Balances - C.14.01: Levelling out of closed accounts - C.14.02: ECONS2 back transfers - C.14.03: Seizure of funds - C.19: Other For RTGS: - R.20.00: RTGS Intra - R.20.10: RTGS LT CLM - R.20.30vRTGS LT T2S - R.20.40: RTGS LT TIPS - R.21.01: Payments Interbank - R.21.02vPayments Customer - R.21.09vOther - R.22.01: AS Transactions HVPS - R.22.02: AS Transactions RPS - R.22.03: AS Transactions IPS

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				- R.22.04vAS Transactions SSS - R.22.05vAS Transactions FXS - R.22.06: AS Transactions MMS - R.22.07: AS Transactions CCP - R.22.09: AS Transactions Other - R.23.01: Levelling out of closed accounts - R.29: Other
36	Liquidity Transfer Type	VARCHAR(10)	Mandatory	This field specifies categorises liquidity transfer orders according to their processing characteristics in T2. Code and Description - A: Automated - I: Immediate - Q: Rule-based Queued - R: Rule-Based Floor/Ceiling - S: Standing order - N/A: Not applicable
37	Liquidity Transfer Direction	VARCHAR(10)	Mandatory	This field provides for a liquidity transfer order the category for the exchange of funds. Code and Description - S: Intra-service liquidity - O: Outgoing liquidity - I: Incoming liquidity - T: Technical liquidity transfer (only for CLM) - N/A: Not applicable
38	Settlement Window	VARCHAR(10)	Mandatory	This field specifies the period during the T2 business day in which the cash transfer order settled. Code and Description - 1: CLM real-time settlement – Transactions settled during the CLM Real Time Settlement phase

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				• 2: RTGS real-time settlement I – Transactions settled during the RTGS Settlement Window 1 • 3: RTGS real-time settlement II – Transactions settled during the RTGS Settlement Window 2 • N/A: Not applicable
39	Initiator Type	VARCHAR(10)	Mandatory	This field documents the type of party that instructed the cash transfer order. Code and Description • A: Orders instructed by a third party which is an AS • B: Orders instructed by a third party which is a central bank • C: Orders instructed directly by the credit participant • D: Orders instructed directly by the debited participant • P: Orders instructed by a third party which is neither an AS nor a central bank • S: System generated transactions
40	Return Transaction	VARCHAR(10)	Mandatory	This field documents whether the cash transfer order is a return payment. Code and Description 1. N: Not return payment 2. Y: Return payment
41	Contingency Payments	VARCHAR(10)	Mandatory	This field documents whether the cash transfer order is a contingency payment. Code and Description • M: Mandated payments – payments that a central bank instructs on behalf of its RTGS Account Holder in contingency situations • B: Back-up payments – payments inputted via an RTGS function on exceptional basis when an

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				RTGS Account Holder through an incident on its side loses its ability to send payment orders to RTGS - N: Regular intra-bank payment orders - N/A: Not applicable
42	Component System Payments	VARCHAR(10)	Mandatory	This field documents whether the cash account involved in the cash transfer order belong to the same central banks or different central banks. Code and Description - E: Extra-Component system payments, for which the debited and the credited accounts belong to different central banks - I: Intra-Component system payments, for which the debited and the credited accounts belong to the same central bank
43	Intragroup Transactions	VARCHAR(10)	Mandatory	This field specifies whether the cash transfer order is intra-group. Code and Description - N/A: Not applicable - Y: intra-group cash transfer - N: Not an intra-group cash transfer
44	Correspondent Banking	VARCHAR(10)	Mandatory	This field provides the corresponding banking classification of the cash transfer order. Code and Description - N/A: Not applicable - B: the transaction is correspondent banking on both sending and receiving sides - N: the transaction is not correspondent banking on either side - R: the transaction is correspondent banking on the receiving side and not on the sending side - S: the transaction is correspondent banking on the sending side and not on the receiving side

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45	CLM Central Bank Operation Subtype	VARCHAR(10)	Optional	This field provides the classification for the central bank operation underlying the cash transfer order. Code and Description - N/A: Not applicable - MLA: Automated Marginal Lending - MLO: Marginal Lending on request (setting-up order) - MLR: Marginal Lending reimbursement - MLI: Interest payment for Marginal Lending - ODO: Overnight Deposits (setting-up-order) - ODV: Overnight Deposits reverse order - ODR: Overnight Deposits refund - ODI: Interest payment for Overnight Deposits - OMR: Repayment of principal or interest - OMS: Set-up of operation - RMI: Interest payment for minimum reserves - REI: Interest payment for excess of reserves - RMP: Penalties for minimum reserves - RAI: Interest payment on accounts - RMO: Other reserve management transactions - SFO: Other standing facilities transactions
46	RTGS Intra Settlement Service Liquidity Transfers	VARCHAR(10)	Optional	This field provides the classification for RTGS intra-service liquidity transfers Code and Description - 1: RTGS DCA to RTGS DCA – Intra-service liquidity transfers between two RTGS DCAs - 2: RTGS DCA to RTGS sub-account (AS settlement procedure C) – Liquidity transfers from an RTGS DCA to a linked sub-account dedicated to an an-cillary system using the AS settlement procedure C. - 3: RTGS DCA to Ancillary System Technical Ac-count (AS settlement procedure D) – Liquidity

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				transfers from an RTGS DCA to the technical account related to an ancillary system using AS settlement procedure D - 4: RTGS technical/sub-account to RTGS DCA (AS settlement procedure C) – Liquidity transfers from a technical or linked sub-account dedi-cated to an ancillary system using the AS settle-ment procedure C to an RTGS DCA - 5: Ancillary System Technical Account to RTGS DCA (AS settlement procedure D) – Liquidity transfers from a technical account related to an ancillary system using AS settlement procedure D to an RTGS DCA - 6: RTGS DCA to Ancillary System guarantee accounts – Liquidity transfers from an RTGS DCA to the guarantee account of an ancillary system - 7: Ancillary System guarantee accounts to RTGS DCA – Liquidity transfers from the guarantee ac-count of an ancillary system to an RTGS DCA - N/A: Filter not applicable

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47	RTGS Ancillary System Settlement Procedure	VARCHAR(10)	Optional	The filter provides the classification for the AS settlement procedure. Code and Description - A: AS settlement procedure A - B: AS settlement procedure B - C: AS settlement procedure C - D: AS settlement procedure D - E: AS settlement procedure E - N/A: Filter not applicable
48	Originator BIC	CHAR(11)	Optional	This field specifies the BIC of the originator of the cash transfer when the ISO message underlying the cash transfer specifies it in line with the definition in the Statistical Classification Framework Mapping.
49	Beneficiary BIC	CHAR(11)	Optional	This field specifies the BIC of the beneficiary of the cash transfer when the ISO message underlying the cash transfer specifies it in line with the definition in the Statistical Classification Framework Mapping.

9.3.9 DXE06 – Business day file specification

This file provides the execution times of business events on a specific user-selected business day.

No.	Logical Name	Data Type	Mandatory/ Optional	Definition
1	Business Day	DATE	Mandatory	This field specifies the business day of a Eurosystem market infrastructure.
2	Event Code	VARCHAR(4)	Mandatory	This field documents an event the T2 schedules and executes during the business day. Code and Description for CLM Events - CSOD: Change of business day - CRTI: Start of CLM RTS - CESO: Execution of standing orders in CLM - CSCC: Start of currency specific closing

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				• CSMW: Start of non-optional maintenance window • CEMW: End of non-optional maintenance window • CECC: End of currency specific closing • CSOM: Start of optional maintenance window • CEOM: End of optional maintenance window • CCII: Cut-off for CLM RTS • CEOD: Start of EoD processing • CCSF: General cut-off for standing facilities • CCML: CB cut-off for marginal lending on request • CCOS: EoD - close of service Code and Description for RTGS Events • RSOD: Change of business day • RRTI: Start of RTGS RTS • RESO: Execution of standing orders in RTGS • RSCC: Start of currency specific closing • RSMW: Start of non-optional maintenance window • REMW: End of non-optional maintenance window • RECC: End of currency specific closing • RRII: Start of RTGS RTS II • RSIC: Start of settlement window for interbank and customer payments • RSOM: Start of optional maintenance window • REOM: End of optional maintenance window • RCOC: Cut-off for customer payments • RCII: Cut-off for RTGS RTS II • RLSO: Execution of standing orders after last settlement attempt in RTGS • REOD: Start of EoD processing

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				• RCOS: EoD - close of service
3	Currency Code	VARCHAR(3)	Mandatory	The field provides the ISO currency code for the event
4	Scheduled Timestamp	TIMESTAMP	Mandatory	This field specifies the date and time at which the execution of the event is to take place during the business day.
5	Actual Timestamp	TIMESTAMP	Mandatory	This field specifies the date and time at which the execution of the event has been rescheduled to during the business day. This timestamp contains the value of the scheduled timestamp (TS_SCHED) when there was no rescheduling.

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10 Data Warehouse Historical data

10.1 Introduction

This document provides a specification for the implementation of DWH reports for cash transfers and intraday credit metrics data migrated from the CRSS DWH. It also includes a list of data object that will be accessible to the user to create user-defined reports.

10.2 Historic intraday credit reports (IDH)

10.2.1 IDH02 – Intraday Credit Line Daily Reporting

Context of usage

The report IDH02 provides business users of a central bank with access to standardised reports to query historic intraday credit lines of its parties. The report displays historic information for a given business day and the time band of the business day:

- Maximum intraday credit amount;
- Minimum intraday credit amount;
- Intraday credit standard deviation amount;
- Intraday credit weighted average amount;
- Number of transactional events.

The report is only available to users of a central bank. A central bank user can only query parties under their central bank's remit.

Report access

This report is accessible through following navigation path:

[Team Content] >> [Predefined Reports] >> [IDH – Historic Intraday Credit Reports] >> [IDH02]

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Screenshot

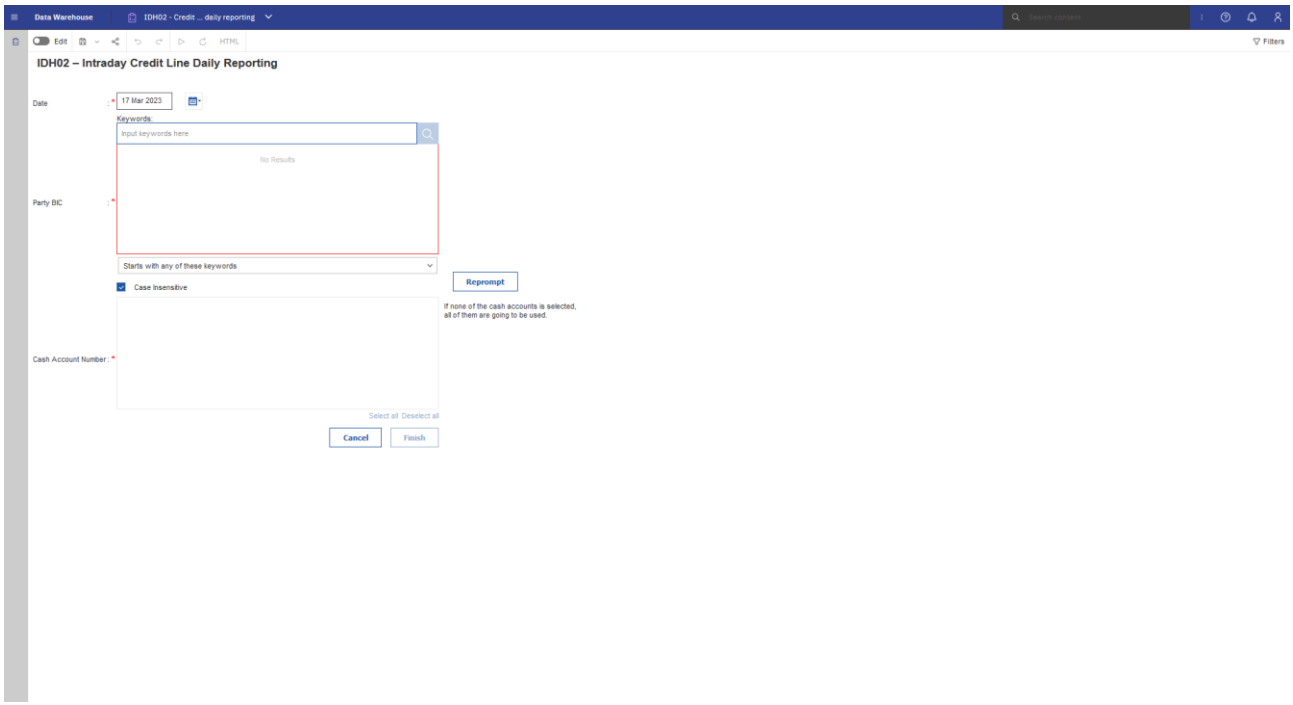


Figure 580 - IDH02 prompt screen

IDH02 – Prompt screen fields	
Field label	**Description**
Date	The user can select the date by clicking on the calendar and selecting a business day before the go-live of T2 on 20 March 2023. This field is mandatory.
Party BIC	The drop-down field allows the user to select the Party BIC. This field will show all BICs that are under the remit of the central bank. This field is mandatory.
Cash account number	This field displays the cash account number. This field is mandatory.

Table 159 - IDH02 - Prompt screen description

Screenshot

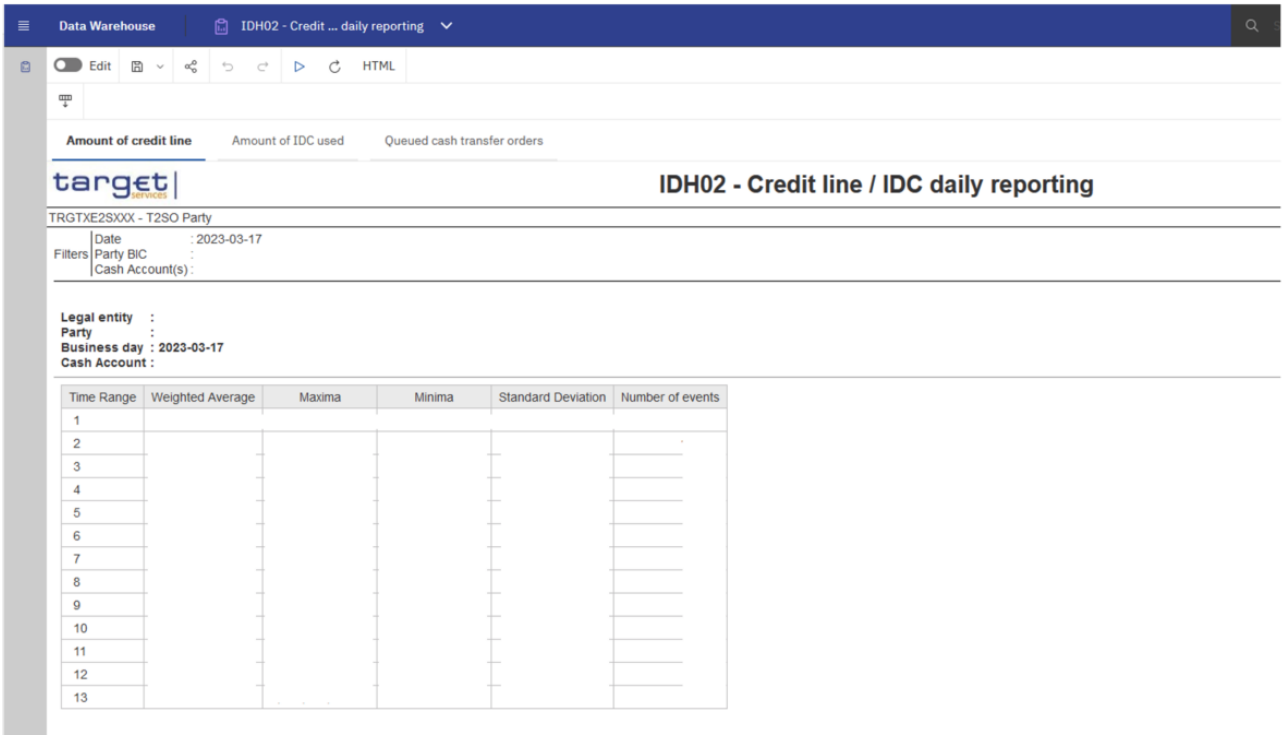
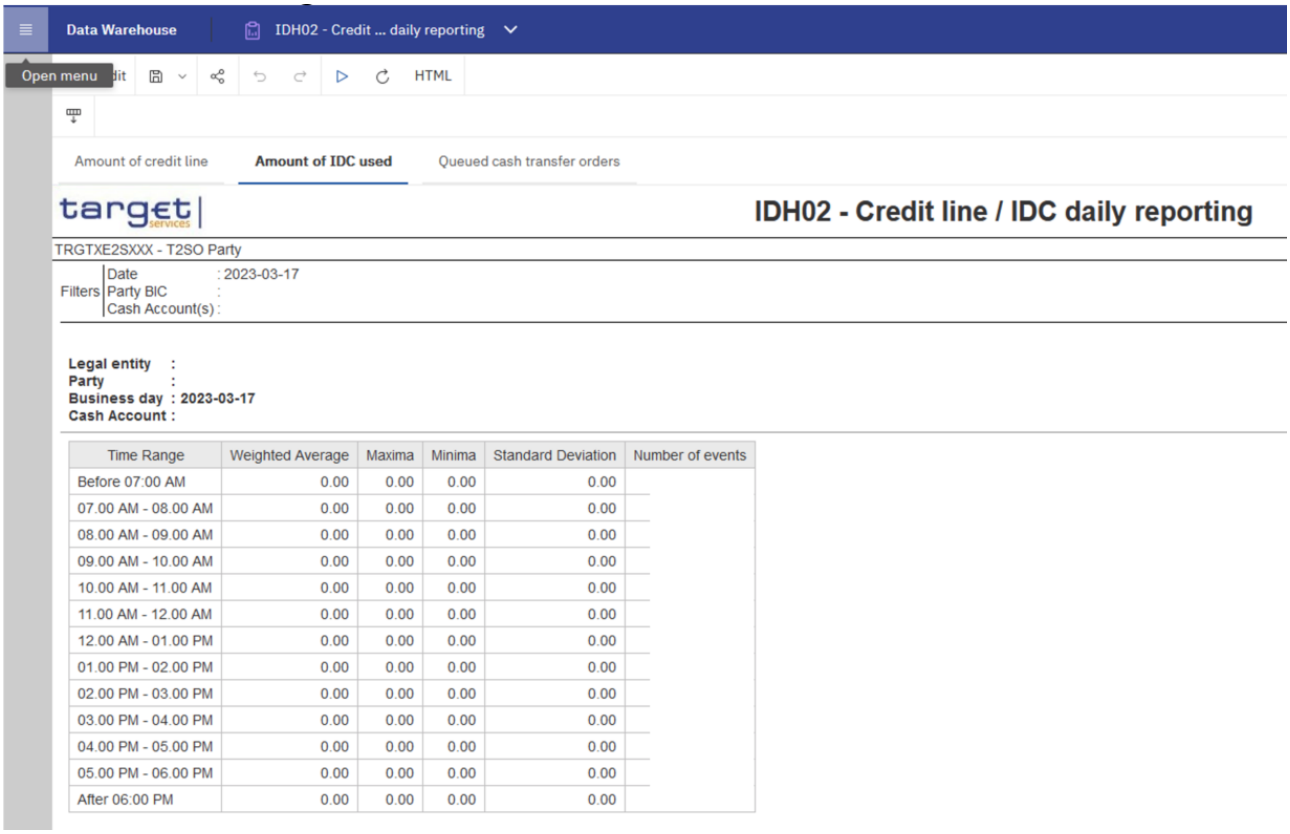
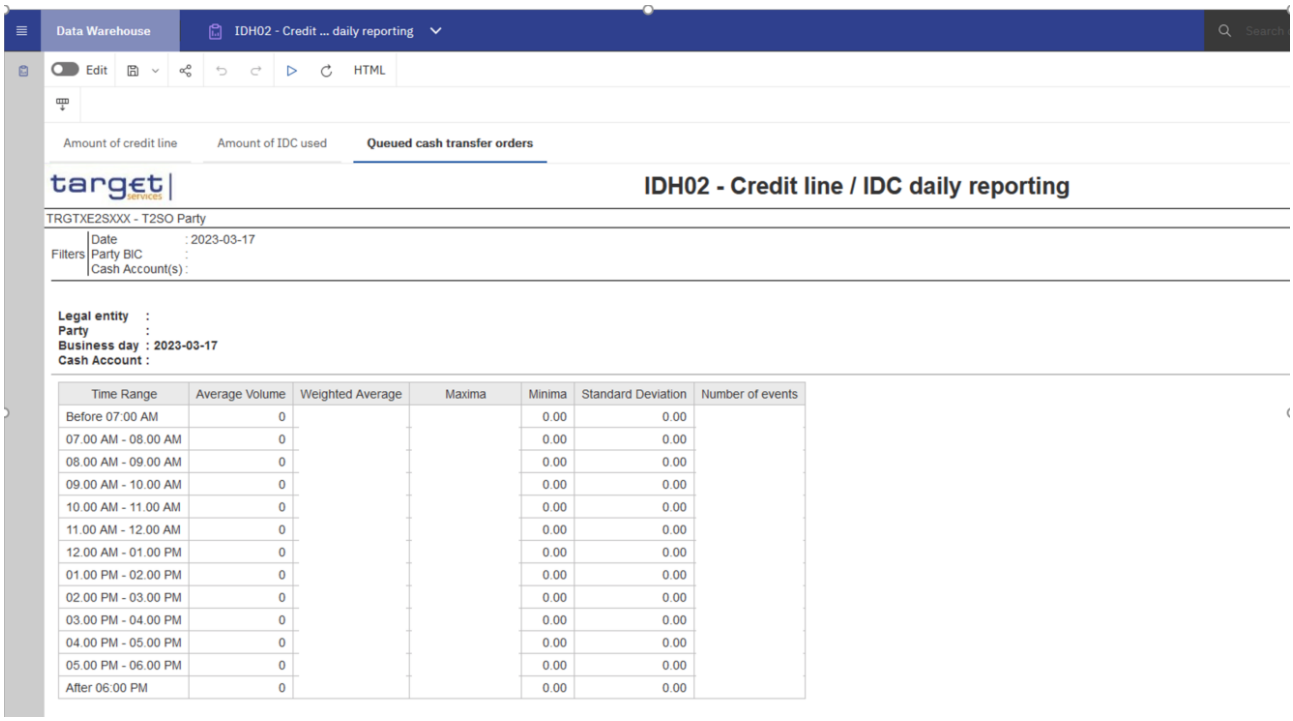


Figure 581 - IDH02 Results screen (1) for credit line amounts



Time Range	Weighted Average	Maxima	Minima	Standard Deviation	Number of events
Before 07:00 AM	0.00	0.00	0.00	0.00	
07.00 AM - 08.00 AM	0.00	0.00	0.00	0.00	
08.00 AM - 09.00 AM	0.00	0.00	0.00	0.00	
09.00 AM - 10.00 AM	0.00	0.00	0.00	0.00	
10.00 AM - 11.00 AM	0.00	0.00	0.00	0.00	
11.00 AM - 12.00 AM	0.00	0.00	0.00	0.00	
12.00 AM - 01.00 PM	0.00	0.00	0.00	0.00	
01.00 PM - 02.00 PM	0.00	0.00	0.00	0.00	
02.00 PM - 03.00 PM	0.00	0.00	0.00	0.00	
03.00 PM - 04.00 PM	0.00	0.00	0.00	0.00	
04.00 PM - 05.00 PM	0.00	0.00	0.00	0.00	
05.00 PM - 06.00 PM	0.00	0.00	0.00	0.00	
After 06:00 PM	0.00	0.00	0.00	0.00	

Figure 582 - IDH02 Results screen (2) for intraday credit amount used



Time Range	Average Volume	Weighted Average	Maxima	Minima	Standard Deviation	Number of events
Before 07:00 AM	0			0.00	0.00	
07.00 AM - 08.00 AM	0			0.00	0.00	
08.00 AM - 09.00 AM	0			0.00	0.00	
09.00 AM - 10.00 AM	0			0.00	0.00	
10.00 AM - 11.00 AM	0			0.00	0.00	
11.00 AM - 12.00 AM	0			0.00	0.00	
12.00 AM - 01.00 PM	0			0.00	0.00	
01.00 PM - 02.00 PM	0			0.00	0.00	
02.00 PM - 03.00 PM	0			0.00	0.00	
03.00 PM - 04.00 PM	0			0.00	0.00	
04.00 PM - 05.00 PM	0			0.00	0.00	
05.00 PM - 06.00 PM	0			0.00	0.00	
After 06:00 PM	0			0.00	0.00	

Figure 583 - IDH02 Results screen (3) for queued cash transfer orders

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IDH02 – Result screen description	
Field label	**Description**
The results are available in separate tables for Amount of Credit Line, Amount of IDC Used/ and Queued Cash Transfer Orders	
Time range	Time range in one-hour intervals.
Average volume	The average volume only appears in the result for “Queued cash transfer orders” table and the column displays the average number of queued cash transfer orders in the timeframe 19:00:00 – 18:00:00
Weighted average	The column displays for a time band the weighted average of l the credit line amount l the amount of IDC used l the sum of values of queued cash transfer orders
Minima	The column displays for a time band the minimum of l the credit line amount l the amount of IDC used l the sum of values of queued cash transfer orders
Maxima	The column displays for a time band the maximum of l the credit line amount l the amount of IDC used l the sum of values of queued cash transfer orders
Standard deviation	The column displays for a time band the standard deviation of l the credit line amount values l the amounts of IDC used l the sum of values of queued cash transfer orders
Number of events	This column displays for a time band a sum of the l changes to the credit line l changes to the account balance influencing the IDC use l Queued cash transfers

Table 160 - IDH02 – Result screens for historic credit line and IDC reporting

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10.2.2 IDH03 – Credit line and intraday credit averages and maxima by cash account

Context of usage

This report provides the central bank user with information on the development of the credit line and intraday credit for a specified business day period and cash account owner. The report also provides for each business day in the selected period the weighted average and maximum amount credit line amount and intraday credit use.

This report is accessible only by central bank users.

Report access

This report is accessible through following navigation path:

[Team Content] >> [Predefined Reports] >> [IDH – Historic Intraday Credit Reports] >> [IDH03]

Screenshot

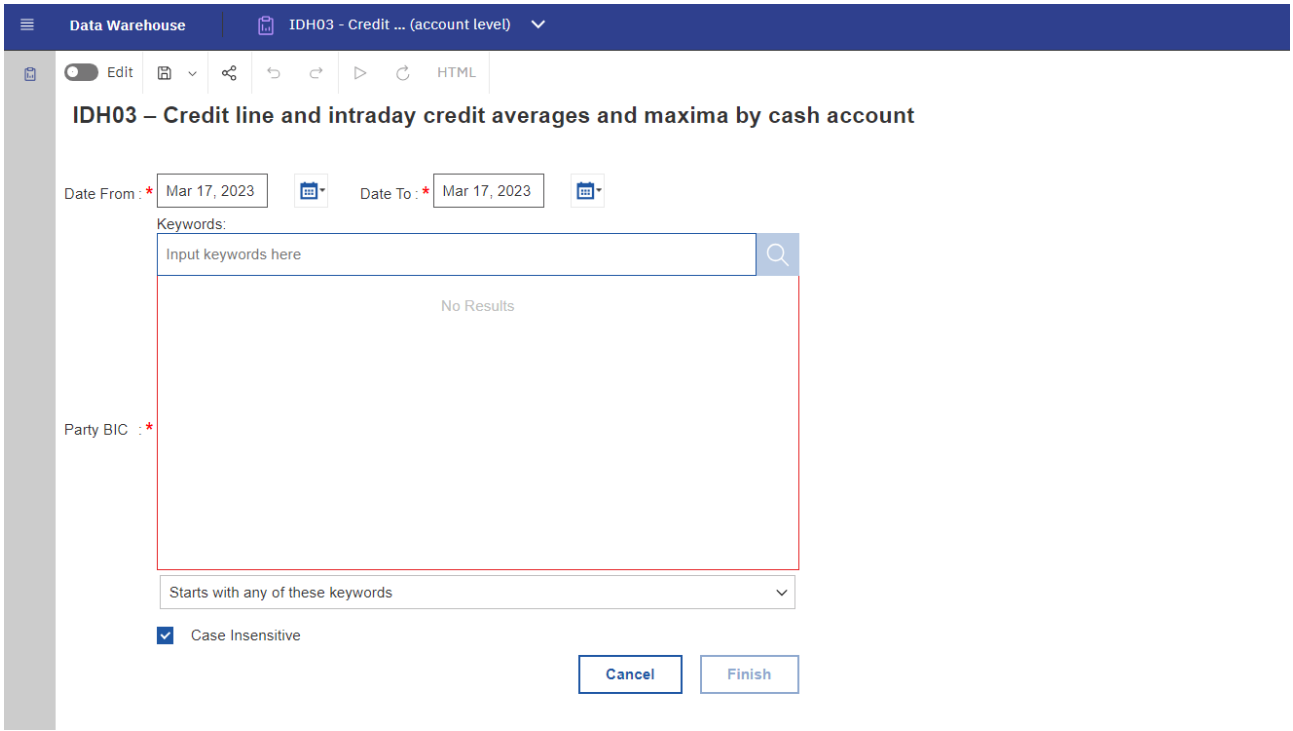


Figure 584 - IDH03 prompt screen

IDH03 – Prompt screen fields	
Field label	**Description**
Date From	The field allows the user to enter the business day from which the report is to provide intraday credit information. The user may select a date by clicking on the calendar or entering the date directly. This field is mandatory.
Date To	The field allows the user to enter the business day to which the report is to provide intraday credit information. The user may select a date by clicking on the calendar or entering the date directly. This date must be prior to the go-live of the T2 Service (18 March 2023). This field is mandatory.
Party BIC	This field allows the user to select one or more party BICs. This field will show all BICs that belong to the respective party of the user. This field is mandatory.

Table 161 - IDH03 – Prompt screen description

Results screen

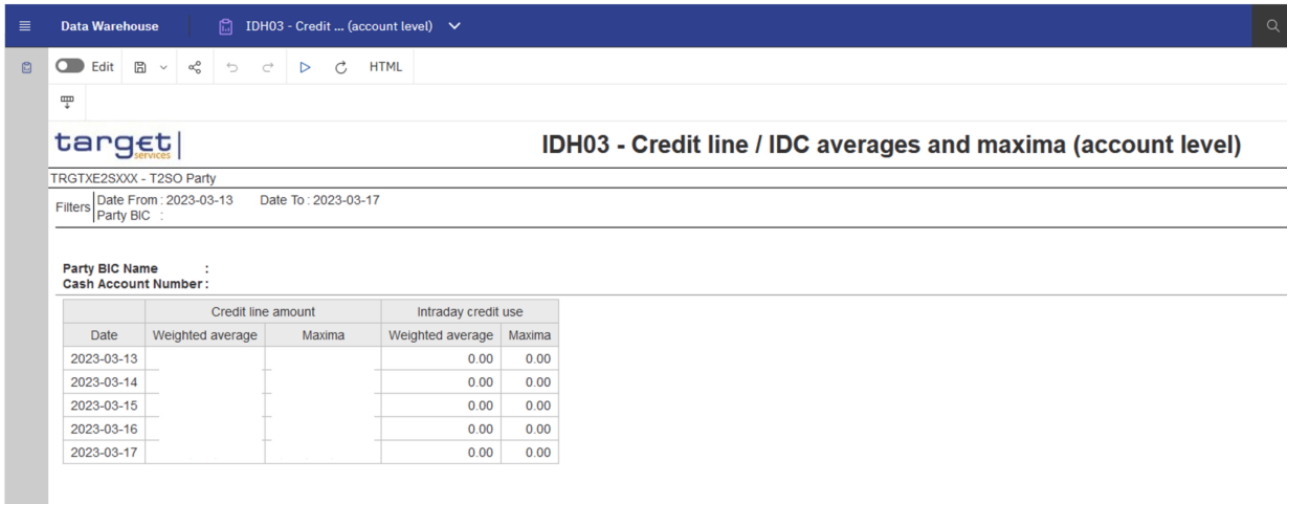


Figure 585 - IDH03 credit line amount and IDC use

IDH03 – Result screen description	
Field label	**Description**
Date	Lists the business day within the selected period.
Credit line amount: Weighted average	Weighted average of the credit line amount of that day.

Credit line amount: Maxima	Maximum of the credit line amount at that day.
Intraday credit use: Weighted average	Weighted average of the intraday credit line use of that day.
Intraday credit use: Maxima	Maximum of the intraday credit line use at that day.

Table 162 - IDH03 - Result screen for credit line and intraday credit averages and maxima

10.2.3 IDH05 – Maximum credit line used

Context of usage

This report provides central bank users with historic credit line and balance information for the SoD and EoD of one or more selected cash accounts for a specified business day. Moreover, the report documents the peak IDC use for the selected cash account(s) on the specified business day.

This report is accessible only by central bank users.

Report access

This report is accessible through following navigation path:

[Team Content] >> [Predefined Reports] >> [IDH – Historic Intraday Credit Reports] >> [IDH05]

Screenshot

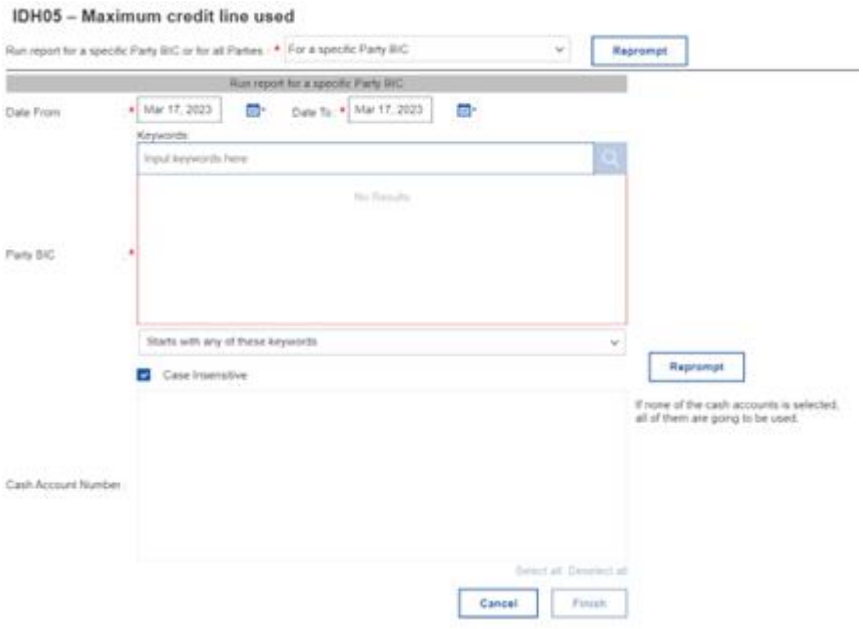


Figure 586 - IDH05 prompt ~~screen~~ – ~~w~~With specific party BIC selection {CR-173}

Figure 587 - IDH05 prompt ~~screen~~ ~~–~~ ~~with multiple party selection~~ for all parties {CR-173}

~~IDH05 – Prompt screen description~~	
~~Field label~~	~~Description~~
~~Run report for a specific party BIC or for all parties~~	~~This drop-down list allows the user to select whether the report is for all parties or a single party.~~
~~Date From~~	~~The field allows the user to enter the business day from which the report is to provide intraday credit information. The user may select a date by clicking on the calendar or entering the date directly.~~ ~~This field is mandatory.~~
~~Date To~~	~~The field allows the user to enter the business day to which the report is to provide intraday credit information. The user may select a date by clicking on the calendar or entering the date directly. This date must be prior to the go-live of the T2 Service (18 March 2023).~~ ~~This field is mandatory.~~
~~Party BIC~~	~~This drop-down field allows the user to select the party BIC. This field will show all related BICs that belong to the respective party of the user. When the user does not select a party BIC, the report only shows results for all parties of the respective user based on the date in the field "Valid From".~~ ~~This field is mandatory.~~
~~Cash Account Number~~	~~This field documents the externally visible cash account number that uniquely identifies a cash account across all Eurosystem market.~~

Table 163 - ~~IDH05 – Prompt screen~~ {CR-173}

IDH05 – Report description – prompt screen – For a specific party BIC	
Field label	**Description**
Date from	This field allows the user to enter the business day from which the report is to provide intraday credit information. The user may select a date by clicking on the calendar or entering the date directly.
Date to	This field allows the user to enter the business day to which the report is to provide intraday credit information. The user may select a date by clicking on the calendar or entering the date directly. This date must be prior to the go-live of the T2 Service (18 March 2023).
Party BIC	This field allows the user to select the party BIC. The field will show all related BICs that belong to the respective party of the user and which are valid as of the date entered by the user.
Cash Account number	This field allows the user to select the account number. The field must show all account numbers that are in the data scope of the central bank user and are valid as of the date entered by the user. When the user does not select a cash account number, the report shows results for all valid accounts.

Table 164 - IDH05 – Prompt description – For a specific party BIC {CR-173}

IDH05 – Report description – prompt screen – For all parties	
Field label	**Description**
Reference date	This field allows the user to enter the business day for which the report is to provide intraday credit information. The user may select a date by clicking on the calendar or entering the date directly. **{CR-173}**

Table 165 - IDH05 – Prompt description – For all parties {CR-173}

~~Results~~ Output screen {CR-173}

target services

IDH05 – Maximum credit line used

TRGTXE2SXXX - T2SO Party

Filters: Date From : 2023-03-13 Date To : 2023-03-17; Party BIC :; Cash Account(s) :

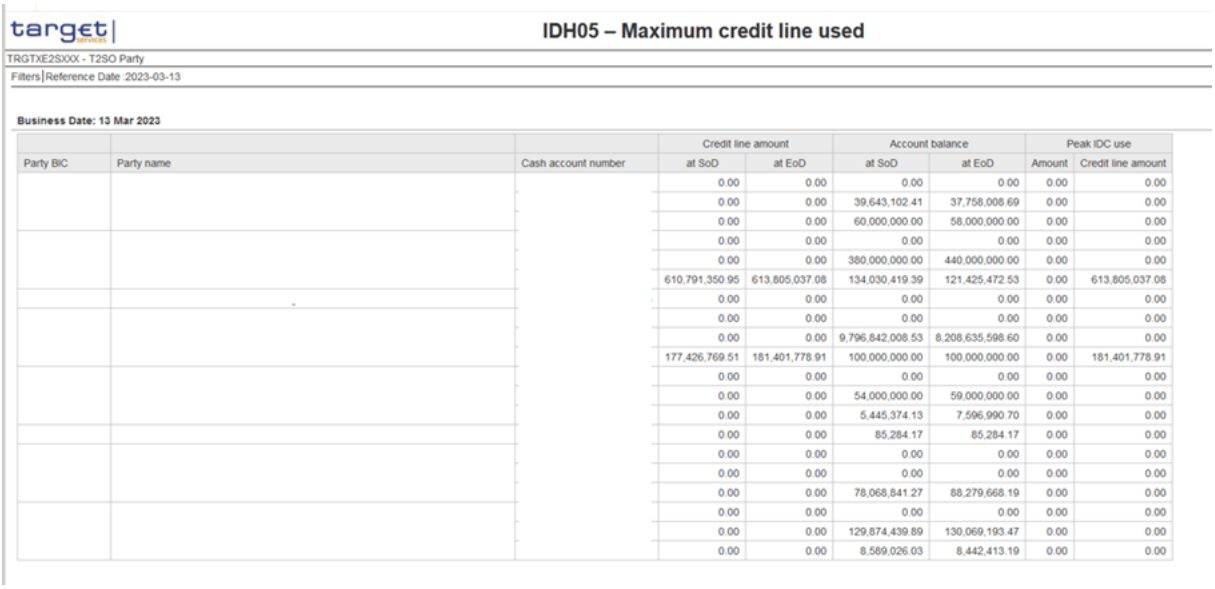
Party :
Cash Account Number :

	Credit line amount		Account balance		Peak IDC use	
Date	at SoD	at EoD	at SoD	at EoD	Amount	Credit line amount
2023-03-13	0.00	0.00	0.00	0.00	0.00	0.00
2023-03-14	0.00	0.00	0.00	0.00	0.00	0.00
2023-03-15	0.00	0.00	0.00	0.00	0.00	0.00
2023-03-16	0.00	0.00	0.00	0.00	0.00	0.00
2023-03-17	0.00	0.00	0.00	0.00	0.00	0.00

Figure 588 - IDH05 output ~~results screen~~ ~~–~~ ~~w~~When selecting a specific party {CR-173}

IDH05 – Results screen when selecting a specific party {CR-173}	
The report provides the intraday credit metric for a party for each business day in the period that the user entered. The report provides the listed fields for the credit line amount	
Party	BIC and name of party as selected by the user and valid as of the entered date
Cash account number	Number of the cash account valid as of the entered date
Date	Business day of the reported amounts and balances
~~At SoD~~	~~Credit line amount at SoD~~ ~~and~~ ~~Cash Account Balance at SoD~~
~~At EoD~~	~~Credit line amount at EoD~~ ~~and~~ ~~Cash account balance at EoD~~
Credit line amount: at SOD	Credit line amount at start of day of the entered date
Credit line amount: at EOD	Credit line amount at end of day of the entered date
Amount balance: at SOD	Amount balance at start of day of the entered date
Amount balance: at EOD	Amount balance at end of day of the entered date
Peak IDC used: amount	Maximum of the amount of IDC used of the entered date
Peak IDC used: credit line amount	Maximum of the amount of credit line of the entered date
~~Following details are available for peak IDC use~~	
~~Date~~	~~One line per business date within the chosen date range~~
~~Amount~~	~~Peak intraday credit amount on the business day.~~ ~~Marked with "—" in case the account balance remained positive throughout the day~~
~~Credit line amount~~	~~Credit line amount at that time;~~ ~~Marked with "—" in case the account balance remained positive throughout the day~~ **{CR-173}**

Table 166 - IDH05 – Output description



target

IDH05 – Maximum credit line used

TRGTXE2SXXX - T2SO Party

Filters | Reference Date :2023-03-13

Business Date: 13 Mar 2023

Party BIC	Party name	Cash account number	Credit line amount		Account balance		Peak IDC use	
			at SoD	at EoD	at SoD	at EoD	Amount	Credit line amount
			0.00	0.00	0.00	0.00	0.00	0.00
			0.00	0.00	39,643,102.41	37,758,008.69	0.00	0.00
			0.00	0.00	60,000,000.00	58,000,000.00	0.00	0.00
			0.00	0.00	0.00	0.00	0.00	0.00
			0.00	0.00	380,000,000.00	440,000,000.00	0.00	0.00
			610,791,350.95	613,805,037.08	134,030,419.39	121,425,472.53	0.00	613,805,037.08
			0.00	0.00	0.00	0.00	0.00	0.00
			0.00	0.00	0.00	0.00	0.00	0.00
			0.00	0.00	9,796,842,008.53	8,208,635,598.60	0.00	0.00
			177,426,769.51	181,401,778.91	100,000,000.00	100,000,000.00	0.00	181,401,778.91
			0.00	0.00	0.00	0.00	0.00	0.00
			0.00	0.00	54,000,000.00	59,000,000.00	0.00	0.00
			0.00	0.00	5,445,374.13	7,596,990.70	0.00	0.00
			0.00	0.00	85,284.17	85,284.17	0.00	0.00
			0.00	0.00	0.00	0.00	0.00	0.00
			0.00	0.00	0.00	0.00	0.00	0.00
			0.00	0.00	78,068,841.27	88,279,668.19	0.00	0.00
			0.00	0.00	0.00	0.00	0.00	0.00
			0.00	0.00	129,874,439.89	130,069,193.47	0.00	0.00
			0.00	0.00	8,589,026.03	8,442,413.19	0.00	0.00

Figure 589 - IDH05 ~~results screen~~ output – ~~w~~When selecting ~~multiple~~ all parties {CR-173}

IDH05 – Results screen when selecting ~~multiple party~~ all parties {CR-173}	
Field label	Description
Business Date	Date that was entered in the prompt **{CR-173}**
Party BIC	Party BIC of the cash account owner
Party name	Party short name of the cash account owner
Cash account number	~~Cash account number~~ Number of cash account valid as of the entered date
Credit line amount: at SOD	Credit line amount at start of day of the entered date
Credit line amount: at EOD	Credit line amount at end of day of the entered date
Amount balance: at SOD	Amount balance at start of day of the entered date
Amount balance: at EOD	Amount balance at end of day of the entered date
Peak IDC used: amount	Maximum of the amount of IDC used of the entered date
Peak IDC used: credit line amount	Maximum of the amount of credit line of the entered date
~~Following details are available for: Credit line amount /Account balance~~	
~~At SoD~~	~~Credit line amount at SoD~~ ~~and~~ ~~Account balance of the MCA at SoD~~
~~At EoD~~	~~Credit line amount at EoD~~ ~~and~~

IDH05 – Results screen when selecting ~~multiple party~~ **all parties** {**CR-173**}	
	~~Account balance of the MCA at EoD~~
~~Following details are available for:~~ ~~Peak IDC use~~	
~~Amount~~	~~Peak intraday credit amount on the business day.~~ ~~Marked with "—" in case the cash account balance remained positive throughout the day~~
~~Credit line amount~~	~~Credit line amount on the business day~~ ~~Marked with "—" in case the cash account balance remained positive throughout the day~~

Table 167 - IDH05 – Output description

~~IDH05 – Prompt screen description~~	
~~Field label~~	~~Description~~
~~Search by transaction reference~~	~~This drop-down list allows the user to select historic cash transfers by a business transaction reference.~~
~~Reference~~	~~The user can enter any business reference that a cash transfer may have. This field is mandatory.~~

Table 168 - ~~IDH05 – Output description~~ {**CR-173**}

~~IDH05 – Prompt screen description~~	
~~Field label~~	~~Description~~
~~Search by business characteristic~~	~~This drop-down list option allows the user to select historic cash transfers by a business transaction reference.~~

~~IDH05 – Prompt screen description~~	
~~Date From~~	~~The user must enter a business day from which the selection of cash transfer are to be selected. A date selection by clicking on the calendar is possible.~~ ~~This field is mandatory.~~
~~Date To~~	~~The user must enter a business day to which the selection of cash transfer are to be selected. A date selection by clicking on the calendar is possible.~~ ~~This field is mandatory.~~
~~Sender/receiver BIC~~	~~This field allows the user to select the BIC of the sender or receiver. The data scope of the user determines list of BICs.~~ ~~This field is mandatory.~~

~~IDH05 – Prompt screen description~~	
~~Field label~~	~~Description~~
~~Service Type~~	~~This drop-down list provides the possibility to select a TARGET2 module.~~ ~~Code – Description~~ ~~HAM – Home accounting~~ ~~PM – Payments module~~ ~~SF – Standing facilities module~~ ~~This field is optional.~~
~~Status~~	~~This drop-down list allows the user to search by the processing status of the cash transfer.~~ ~~Code – Description~~ ~~AL – All status~~ ~~CA – Revoked~~ ~~FI – Final~~ ~~IN – Warehoused~~ ~~NS – Rejected~~ ~~XX – NA~~ ~~This field is optional.~~
~~Amount from/to~~	~~This field allows the user to search by a specific settlement amount or settlement amount range. This field is optional.~~ **{CR-173}**

Table 169 - ~~IDH05 – Cash transfer reference prompt screen fields~~ {**CR-173**}

10.2.4 TRH01 – Historic cash transfers

Context of usage

The report TRH01 provides a central bank with the possibility to search for historic cash transfer (orders) from CRSS using a set of defined filter criteria. The results list displays the details of a cash transfer (order). The central bank user can access the cash transfers (order) where one of its parties is involved on the credit and/or the debit side.

The user opt for the selection by reference or selection by business related criteria.

Report access

This report is accessible through the following navigation path:

[Team Content] >> [Predefined Reports] >> [TRH – Transaction Historic Reports] >> [TRH01]

Screenshot

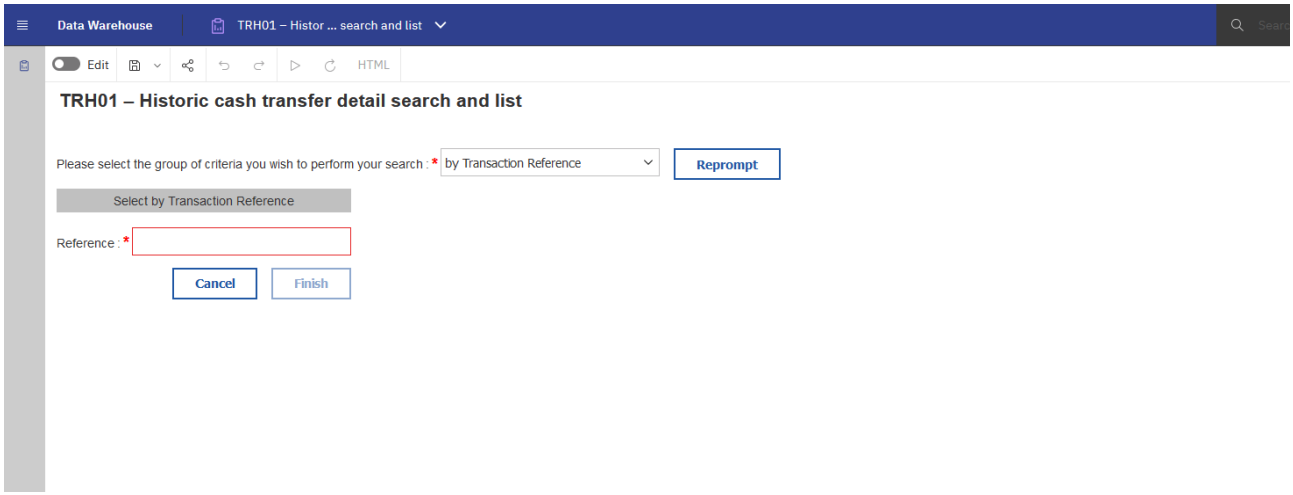


Figure 590 - TRH01 prompt (1) – by Transaction Reference

TRH01 – Prompt screen description	
Field label	**Description**
Search by transaction reference	
Reference	The user can enter any business reference that a cash transfer may have. This field is mandatory.
Search by Business Characteristics	
Date From	The user must enter a business day from which the selection of cash transfer are to be selected. A date selection by clicking on the calendar is possible.

	This field is mandatory.
Date To	The user must enter a business day to which the selection of cash transfer are to be selected. A date selection by clicking on the calendar is possible. This field is mandatory.
Debited/ Credited party BIC	This field allows the user to select the BIC of the debited resp. credited party. The possible values are built from parties within the user's data scope This field is mandatory.
Message Type	This field enables the user to select one or more message types. Offered message types are: - Answer between HAM and PM - HAM Interest - Information ACKNACK - Input and output MT103 messages - Input and output MT103+ messages - Input and output MT202 messages - Input and output MT204 messages - Input from SFM - Input requests AML - Input requests initiated via ICM - Interest from RMM - Message sent to PM - No message type - Penalty from RMM
Module	This field is available for selecting one or more originator modules of transaction. Modules offered are: - payment module - standing facilities

	l home accounting l reserve management
Cash Transfer Status	This field enables the user to select one or more cash transfer status. Status offered are: l Final l Rejected l Revoked l Warehoused l - Not applicable
Payment Type	This field allows the user to select one or more payment types. Payment types offered are: l Ancillary system payment l Backup payment l Billing l Cash withdrawal l Connected payment l Credit line l Interests l Liquidity transfers l Mandated payments l Minimum reserves penalties PM l REPO l Regular payment l No payment type
Amount from/to	This field allows the user to search by a specific settlement amount or settlement amount range. This field is optional.

Table 170 - TRH01 - Prompt description

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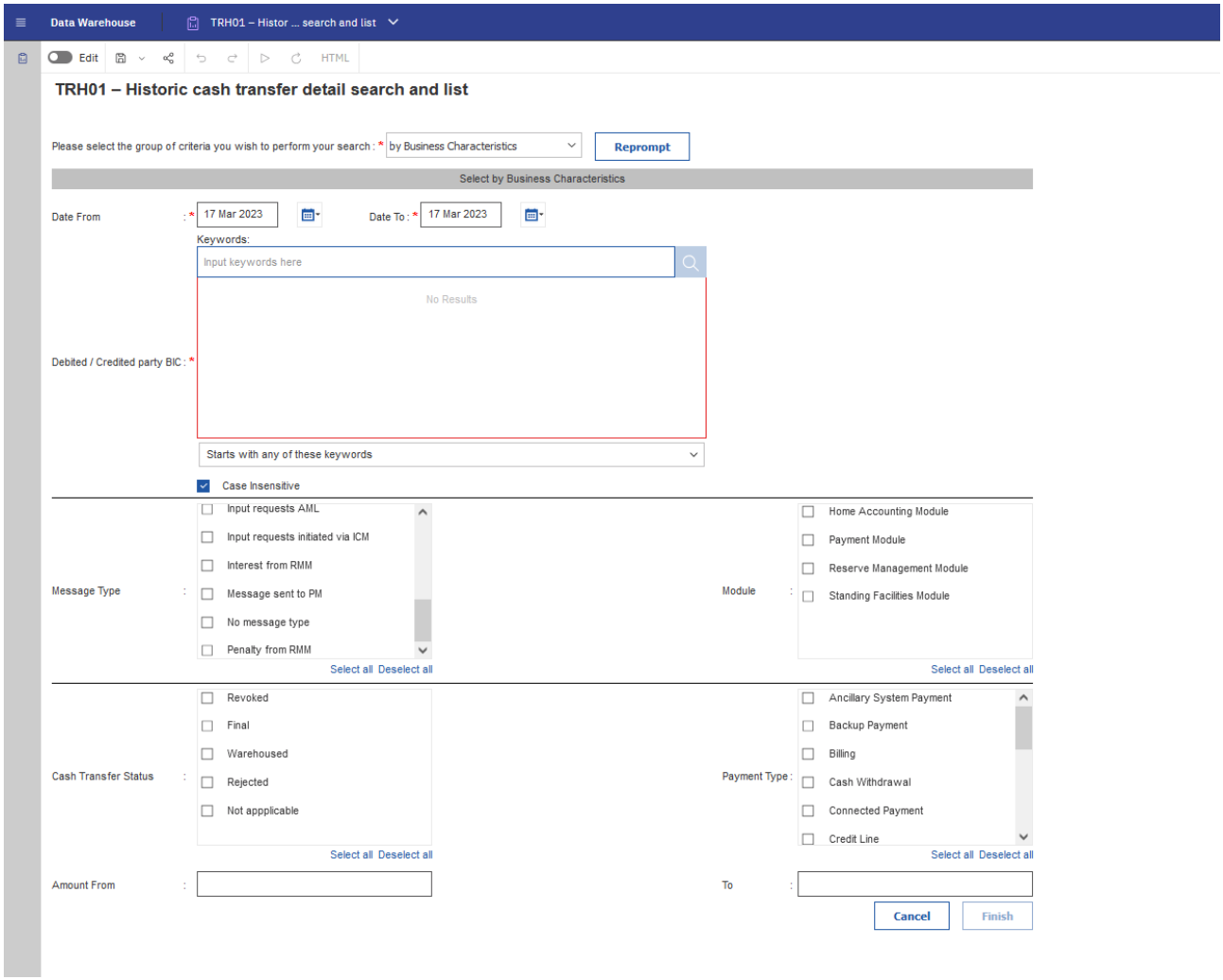

Figure 591 - TRH01 prompt (2) – by Business Characteristics

Screenshot – output screen

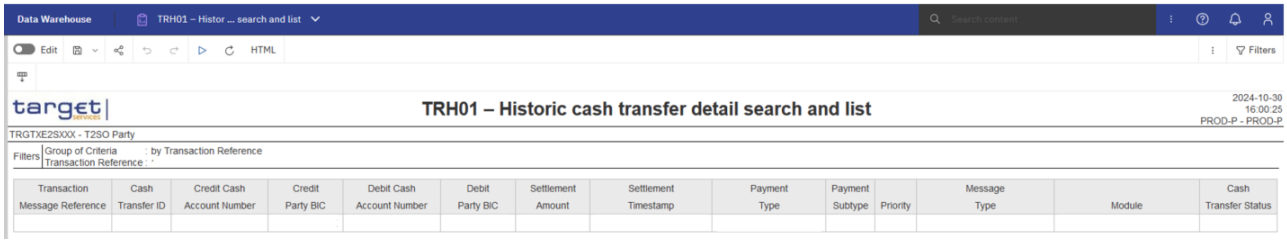

Figure 592 - TRH01 output (1) – by transaction reference

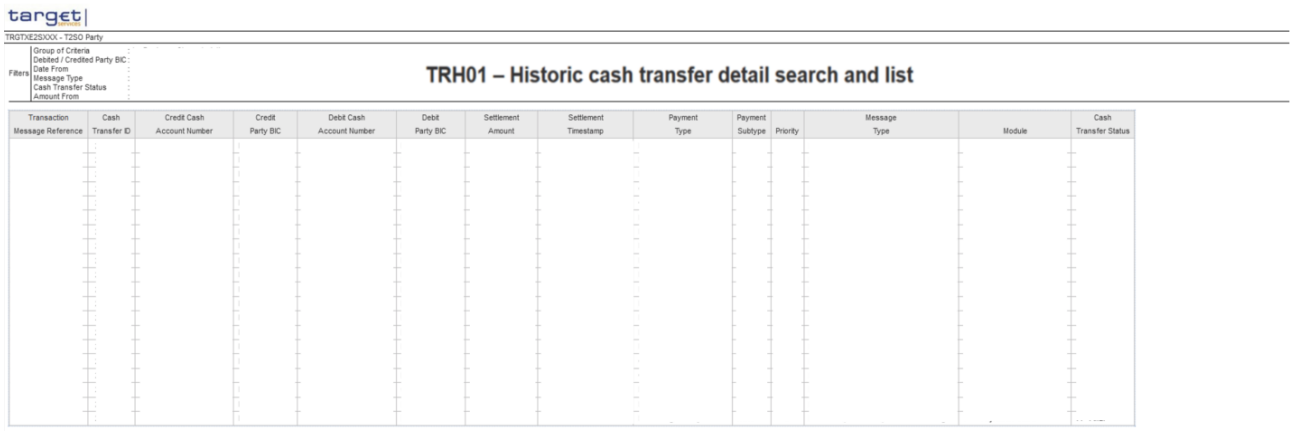

Figure 593 - TRH01 output (2) - by business characteristics

TRH01 – Cash transfer results – screen for search by business reference	
Field label	**Description**
Date	This date field is the business day on which the cash transfer was processed.
Currency	This field displays the ISO currency code
Transaction Message Reference	Transaction message reference as assigned by CRSS
Cash Transfer ID	Transaction reference; technical identifier of the transfer
Credit Cash Account Number	Number of the cash account credited by the cash transfer
Credit party BIC	BIC of the credited party / cash account owner
Debit Cash Account Number	Number of the cash account debited by the cash transfer
Debit party BIC	BIC of the debited party / cash account owner
Settlement amount	Settled amount of the cash transfer
Settlement time stamp	Time stamp of the cash transfer
Payment Type	Possible values (display code and description) Code Description ASP Ancillary system payment BKP Backup payment BIL Billing CWD Cash withdrawal COP Connected payment CLN Credit line INT Interests

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	LQT Liquidity transfers MAP Mandated payments PEN Minimum reserves penalties PM REP REPO RGP Regular payment 999 No payment type
Payment Subtype	Display code
Priority	Possible values (display code): Code Description H highly urgent U urgent N normal payments

Message Type	Possible values (display code and description): Code Description PM-ANSWER Answer between HAM and PM HAM-NTRST HAM Interest F21 Information ACKNACK MT103 Input and output MT103 messages MT103+ Input and output MT103+ messages MT202 Input and output MT202 messages MT204 Input and output MT204 messages SF Input from SFM PM-SPILL Input requests AML ICM Input requests initiated via ICM RM-NTRST Interest from RMM PM202 Message sent to PM MT0 No message type RM-PNLT Penalty from RMM
Module	Possible values (display code and description): Code Description PY payment module SF standing facilities CO contingency module HA home accounting RM reserve management

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Cash transfer status	Possible values (display code and description): Code Description FI Final NS Rejected CA Revoked IN Warehoused XX Not applicable

Table 171 - TRH01 – Output description

10.3 DWH historic data objects

DWH historic data objects are views in Cognos that are available to users to retrieve historic data from TARGET2 Single Shared Platform. The user can use these objects to build user-defined reports.

10.3.1 Party Reference Data

The historic party object in Cognos provides the list of participants from the Target2 static data module with their update history.

Field	Description
Address City	This data item contains a text for the party address.
Country	This attribute provides the two-character country code of the party.
Exclusion Code	This field specifies whether a party was blocked or unblocked for processing.
Exclusion Timestamp	This field specifies the timestamp of the change in blocking status (Exclusion Code).
Institutional Sector Code	This field documents the institutional sector of a party for statistical purposes.
Internet-Based Party	This field documents whether the party is connected as a party through the internet.
Legal Entity ID	This field specifies the unique legal technical identifier of the legal entity that is linked to the party.

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Field	Description
Main BIC	This field flags the main BIC of the party.
Monetary Financial Institution	This data item stores the Monetary Financial Institution code (MFI code).
Party BIC	This data item documents the BIC of the party.
Party ID	This field specifies the unique technical identifier of the party.
Party Name	This attribute specifies the name of the party.
Party Status	This field specifies the status of the party, e.g. whether it is active.
Party Type	This attribute provides a classification of the party.
Valid From	This field specifies the date from which the instance of the party is valid.
Valid To	This field specifies the date to which the instance of the party is valid.

Table 172 - Party data items

10.3.2 Cash Account Reference Data

The historic party object in Cognos provides the list of cash accounts that were defined in Target2 static data module.

Data Item	Description
Cash Account Currency	This data item is the name of the cash account
Cash Account Description	This data item is the name of the cash account
Cash Account ID	This field specifies the unique technical identifier of the cash account.
Cash Account Number	This attribute specifies the cash account number.
Cash Account Status	This field specifies the status of the party, e.g. whether it is active.
Cash Account Timestamp	This field specifies the timestamp of a change to the cash account for a specific cash account identifier. There may be multiple instances of a cash account identifier in combination with this timestamp.
Cash Account Type	This attribute provides a classification of the cash account.
First Active Date	This field defines the business day that the cash account was available for processing.
Party BIC	This data item specifies the party BIC of the cash account owner.
Party Identifier	This data item specifies the unique technical party identifer of the cash account owner.

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Data Item	Description
Update Type	This field specifies the type of update to the cash account.
Valid From	This field specifies the date from which the instance of the cash account is valid.
Valid To	This field specifies the date to which the instance of the cash account is valid.

Table 173 - Cash account data items

10.3.3 Central Bank Reference Data

The historic central bank object in Cognos provides the list of central banks thatTarget2 maintained in static data module.

Data Item	Description
Calculation Periodicity	This data item specifies the calculation periodicity.
CCBM2 BIC	This attribute specifies the CCBM2 BIC for the central bank.
Central Bank ID	This field specifies the unique technical identifier of the central bank.
Central Bank Status	This field specifies the status of the central bank, e.g. whether it is active.
Central Bank T2S BIC	This data specifies the BIC of the central bank in T2S.
Central Bank Timestamp	This field specifies the timestamp of a change to the central bank for a specific central bank identifier. There may be multiple instances of a central bank identifier identifier in combination with this timestamp.
Contingency BIC	This data item specifies the contingency BIC of the central bank.
Contingency BIC Valid From	This field specifies the date from which the instance of the central bank is valid.
Contingency BIC Valid To	This field specifies the date to which the instance of the central bank is valid.
Country	This attribute specifies the two-character country code of the central bank.
Credit Institution Liquidity Transfer	This field specifies a liquidity transfer flag for credit institution.
Deviating Central Bank BIC	This data item specifies a deviating BIC of the central bank.

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Data Item	Description
Eurosystem Code	This data item document whether the central bank is a eurosystem central bank.
First Active Date	This field defines the business day that the central bank was available for processing.
Interlinking BIC	This data item specifies the linked BIC of the central bank.
Legal Entity ID	This field specifies the unique technical identifier of the legal entity linked to the central bank.
Standing Facilities Overnight Deposit Maximum Amount	This field specifies the maximum for standing facilities and overnight deposits.
Update Type	This field specifies the type of update to the central bank.
Valid From	This field specifies the date from which the instance of the central bank is valid.
Valid To	This field specifies the date to which the instance of the central bank is valid.

Table 174 - Central bank data items

10.3.4 Cash account intraday credit day history

This Cognos object provides the intraday credit metrics per cash account per business day.

Data Item	Description
Business Day	This attribute provides the business day for which the intraday credit data have been calculated.
Cash Account ID	This field specifies the unique technical identifier of the cash account to provide the link to the cash account reference data.
Cash Account Intraday Credit ID	This data item stores the unique technical ID of the intraday credit data
Central Bank Country Code	This field documents the two-character ISO country code on the central bank.
Intraday Credit Code	This field specifies the type of amounts in the amount fields. Code - Description CL_BLOCKED - Amount of collateral used/blocked credit line for IDC purposes

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Data Item	Description
	CL_POSTED - Amount of collateral posted credit line for IDC purposes CL_USED - Amount of collateral used credit line to make payments OWN_BAL - Own funds balance on accounts PAY_CAPA - Payment capacity on accounts POS_BAL - Positive balance on accounts QUEUE_VAL - Queued payments in value QUEUE_VOL - Queued payments in volume REAL_BAL - Real balance on accounts REPO_BLOCKED - Amount of collateral used/blocked repo for IDC purposes REPO_POSTED - Amount of collateral posted repo for IDC purposes REPO_USED - Amount of collateral used repo to make payments TOT_BLOCKED - Amount of collateral used/blocked for IDC purposes TOT_POSTED - Amount of collateral posted for IDC purposes TOT_USED - Amount of collateral used to make payments
Intraday Credit Event Count	This attribute provides the number of business transactions pertaining to the calculated amounts.
Intraday Credit Standard Deviation Amount	This data item documents the standard deviation for the intraday credit amount, as defined by the intraday credit code and based on the combination of business day and cash account.
Intraday Credit Weighted Average Amount	This data item documents the weighted average for the intraday credit amount, as defined by the intraday credit code and based on the combination of business day and cash account.

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Data Item	Description
Maximum Intraday Credit Amount	This field specifies the maximum intraday credit amount, as defined by the intraday credit code and for the combination of business day and cash account.
Minimum Intraday Credit Amount	This field specifies the minimum intraday credit amount, as defined by the intraday credit code and for the combination of business day and cash account.
System Entity	This data item provides the system entity of the central bank, as specifed in CRDM reference data.

Table 175 - Intraday credit per business day data items

10.3.5 Cash account intraday credit by time band

This Cognos object provides the intraday credit metrics per cash account and time band within the business day.

Field	Description
Business Day	This attribute provides the business day for which the intraday credit data have been calculated.
Cash Account ID	This field specifies the unique technical identifier of the cash account to provide the link to the cash account reference data.
Cash Account IDC Time Band ID	This data item stores the unique technical ID of the intraday credit data by time band
Central Bank Country Code	This field documents the two-character ISO country code on the central bank.
Intraday Credit Code	This field specifies the type of amounts in the amount fields. Code - Description CL_BLOCKED - Amount of collateral used/blocked credit line for IDC purposes CL_POSTED - Amount of collateral posted credit line for IDC purposes CL_USED - Amount of collateral used credit line to make payments OWN_BAL - Own funds balance on accounts PAY_CAPA - Payment capacity on accounts POS_BAL - Positive balance on accounts

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Field	Description
	QUEUE_VAL - Queued payments in value QUEUE_VOL - Queued payments in volume REAL_BAL - Real balance on accounts REPO_BLOCKED - Amount of collateral used/blocked repo for IDC purposes REPO_POSTED - Amount of collateral posted repo for IDC purposes REPO_USED - Amount of collateral used repo to make payments TOT_BLOCKED - Amount of collateral used/blocked for IDC purposes TOT_POSTED - Amount of collateral posted for IDC purposes TOT_USED - Amount of collateral used to make payments
Intraday Credit Event Count	This attribute provides the number of business transactions pertaining to the calculated amounts.
Intraday Credit Standard Deviation Amount	This data item documents the standard deviation for the intraday credit amount, as defined by the intraday credit code and based on the combination of business day and cash account.
Intraday Credit Weighted Average Amount	This data item documents the weighted average for the intraday credit amount, as defined by the intraday credit code and based on the combination of business day and cash account.
Maximum Intraday Credit Amount	This field specifies the maximum intraday credit amount, as defined by the intraday credit code and for the combination of business day and cash account.
Minimum Intraday Credit Amount	This field specifies the minimum intraday credit amount, as defined by the intraday credit code and for the combination of business day and cash account.
System Entity	This data item provides the system entity of the central bank, as specifed in CRDM reference data.
Time Band Code	This field documents a code to define the time band.

Table 176 - Intraday credit by time band data items

10.3.6 Cash account balances and amounts

This Cognos object provides balances and amounts per cash account and business day.

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Field	Description
Business Day	This attribute provides the business day for which the intraday credit data have been calculated.
Cash Account ID	This field specifies the unique technical identifier of the cash account to provide the link to the cash account reference data.
Cash Account IDC Daily Metric ID	This data item stores the unique technical ID of the amounts and balances.
Central Bank Country Code	This field documents the two-character ISO country code on the central bank.
Daily Total Credit Amount	This field documents the sum of the credit postings on the cash account at the end of the business day.
Daily Total Debit Amount	This field documents the sum of the debit postings on the cash account at the end of the business day.
End-of-Day Balance	This field documents the cash account balance at the end of the business day.
End-of-Day Bilateral Limit Amount	This field documents the bilateral limit for the cash account at the end of the business day.
End-of-day Cash Reservation Amount	This field documents the total amount of reservations at the end of the business day.
End-of-Day Credit Line Amount	This field documents the credit line amount for the cash account balance at the end of the business day.
End-of-Day Highly Urgent Reservation Amount	This field documents the total amount of highly urgent reservations at the end of the business day.
End-of-Day Multilateral Limit Amount	This field documents the multilateral limit for the cash account at the end of the business day.
End-of-Day Standing Order Reservation Amount	This field documents the total amount of standing order reservations at the end of the business day.
End-of-Day Threshold Reservation Amount	This field documents the threshold reservation amount at the end of the business day.
End-of-Day Urgent Reservation Amount	This field documents the total amount of urgent reservations at the end of the business day.
Group of Accounts Central Bank Country Code	This data item provides the two-character ISO country of the central bank for a group of accounts.
Group of Accounts ID	The attribute provides the unique technical identifier of a group of accounts.

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Field	Description
Group of Accounts System Entity	This data item provides the system entity of the central bank for a group of accounts.
Highly Urgent Pending Reservation Amount	This field documents the total amount of pending highly urgent reservations at the end of the business day.
Start-of-Day Balance	This field documents the cash account balance at the start of the business day.
Start-of-Day Bilateral Limit Amount	This field documents the bilateral limit for the cash account at the start of the business day.
Start-of-Day Cash Reservation Amount	This field documents the total amount of reservations at the start of the business day.

Table 177 - Cash Account balances and amounts data items

10.3.7 Cash transfers

This Cognos object provides all cash transfers.

Field	Description
Cash Transfer ID	This field contains the unique technical identifier of the cash transfer (order).
Ancillary System Message ID	This field specifies the technical identifier of an ancillary system message.
Legal Entity Party ID	This field specifies the technical identifier of the legal entity that pertains to the cash transfer.
Cash Transfer Description	The attribute provides a long description of the type of liquidity transfer.
Settlement Identifier	This field contains the unique technical identifier of the cash transfer (order).
Settlement Amount	This field provides the funds that actually settled.
Settlement Link	This attribute documents the cash transfer business identifier with which the cash transfer is linked
Settlement Reference	The field documents the business reference with which the instruction of the cash transfer took place.

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Field	Description
Payment Module Message ID	This field specifies the technical identifier that the TARGET2 payment module assigned to the cash transfer.
CCBM2 BIC	This field specifies the BIC when the cash transfer is related to collateral in CCBM2.
Intermediary Creditor BIC	The intermediary creditor BIC is shown in this field when the cash transfer involves an intermediary on the credit leg.
Intermediary Debitor BIC	The intermediary debit BIC is shown in this field when the cash transfer involves an intermediary on the debit leg.
Credit Dedicated Cash Account Party BIC	This field specifies the BIC of the credited dedicated cash account holder on the business day of the cash transfer.
Debit Dedicated Cash Account Party BIC	This field specifies the BIC of the debited dedicated cash account holder on the business day of the cash transfer.
Currency Code	The attribute documents the three-character ISO code of the settlement currency.
Credit Dedicated Cash Account	This field specifies the credited dedicated cash account number.
Debit Dedicated Cash Account	This field specifies the debited dedicated cash account number.
Entry Hour Code	This attribute provides a code the documents the hour of the business date that the cash transfer entered the service. Code - Description 0 - 12.00 PM - 01.00 AM 1 - 01.00 AM - 02.00 AM 2 - 02.00 AM - 03.00 AM 3 - 03.00 AM - 04.00 AM 4 - 04.00 AM - 05.00 AM 5 - 05.00 AM - 06.00 AM 6 - 06.00 AM - 07.00 AM 7 - 07.00 AM - 08.00 AM 8 - 08.00 AM - 09.00 AM 9 - 09.00 AM - 10.00 AM 10 - 10.00 AM - 11.00 AM

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Field	Description
	11 - 11.00 AM - 12.00 AM 12 - 12.00 AM - 01.00 PM 13 - 01.00 PM - 02.00 PM 14 - 02.00 PM - 03.00 PM 15 - 03.00 PM - 04.00 PM 16 - 04.00 PM - 05.00 PM 17 - 05.00 PM - 06.00 PM 18 - 06.00 PM - 07.00 PM 19 - 07.00 PM - 08.00 PM 20 - 08.00 PM - 09.00 PM 21 - 09.00 PM - 10.00 PM 22 - 10.00 PM - 11.00 PM 23 - 11.00 PM - 12.00 PM 99 - No entry hour
Flow Type	This attribute documents whether cash transfer is cross-border or domestic. Code - Description CRB - Cross-border DOM - Domestic
Link Reference Code	When applicable, this field provides a code to document the type of link between two cash transfers.
Module	This field documents the TARGET2 module in which the processing of the cash transfer took place. Code - Description HAM - Home accounting module PM - Payment module SF - Standing facilities module
BIC 52 Ordering Institution Party ID	This field provides the technical identifier of the ordering institution party from the message underlying the cash transfer
BIC 53 Sender Correspondent Party	This field provides the technical identifier of the sender correspondent

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Field	Description
ID	party from the message underlying the cash transfer
BIC 54 Beneficiary Party ID	This field provides the technical identifier of the beneficiary party from the message underlying the cash transfer
BIC 56 Intermediary Party ID	This field provides the technical identifier of the intermediary party from the message underlying the cash transfer
BIC 57 Cash Account Institution Party ID	This field provides the technical identifier of the cash account institution from the message underlying the cash transfer
BIC 58 Beneficiary Institution Party ID	This field provides the technical identifier of the beneficiary institution party from the message underlying the cash transfer
Receiving Central Bank Country	This field documents the two-character country code of the receiving central bank.
Receiver Party ID	This field documents the technical identifier of the receiving central bank.
Sending Central Bank Country	This field documents the two-character country code of the sending central bank.
Sending Party ID	This field documents the technical identifier of the sending central bank.
Debit Cash Account Party ID	The field documents the technical identifier of the party that holds the cash account that the cash transfer debits.
Credit Cash Account Party ID	The field documents the technical identifier of the party that holds the cash account that the cash transfer credits.
Direct Receiver Party ID	The field documents the technical party identifier of the direct recipient.
Value Band ID	This field contain the value band to which the cash transfer is allocated. Code - Description 1 - = 0 2 - > 0 and <= EUR 1250 3 - > EUR 1250 and <= EUR 12500 4 - > EUR 12500 and <= EUR 50000

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Field	Description
	5 - > EUR 50000 and <= EUR 250000 6 - > EUR 250000 and <= EUR 1M 7 - > EUR 1M and <= EUR 10M 8 - > EUR 10M and <= EUR 25M 9 - > EUR 25M and <= EUR 50M 10 - > EUR 50M and <= EUR 100M 11 - > EUR 100M and <= EUR 500M 12 - > EUR 500M and <= EUR 1B 13 - > EUR 1B
Transaction Message Reference	This field specifies the business reference of the message underlying the cash transfer.
Message Type	This field specifies the S.W.I.F.T. 15022 message type of the message underlying the cash transfer.
Operation Category	This field documents the operation category to which the cash transfer is assigned based on the attributes of the cash transfer. Code - Description CAT0 - No category CAT1 - Payments between market participants CAT2 - Operations with the central bank CAT3 - Settlement operations CAT4 - Liquidity transfer
Sender Aggregation Counting	This field contains a Boolean value to determine whether the cash transfer is included in the sender count. Code - Description F - Not included T - Included
Receiver Aggregation Counting	This field contains a Boolean value to determine whether the cash transfer pertains to a contingency operation. Code - Description F - Not contingency transfer T - Contingency transfer

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Field	Description
Operation Type	This field documents the operation type to which the cash transfer is assigned based on the attributes of the cash transfer. Code - Description 0 - No operation type 1.1 - Customer payments 1.2 - Interbank payments 2.1 - Cash operation 2.2 - Intraday repo and similar transactions 2.3 - Payments sent and/or received on behalf of customers 2.4 - Inter NCB payments 2.5 - Other transactions 3.1 - Trade by trade settlements of SSS 3.2 - Other settlement operations 3.3 - EBA Euro1 3.2 - CLS 3.5 - EBA Step2 4.1 - Intraday transfers with LVPS 4.2 - Intraday transfers with retail systems 4.3 - Intraday transfer with SSS 4.4 - Internal transfers between different accounts of the same participant 4.5 - Commercial transfers between different accounts of same participant 4.6 - Transfers to T2S 4.7 - Transfers back to TARGET2 from T2S 4.8 - Liquidity transfers to TIPS 4.9 - Liquidity transfers from TIPS 9.9 - Temporary operation type
Payment Type	This field documents the payment type to which the cash transfer is assigned based on the attributes of the cash transfer. Code - Description

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Field	Description
	999 - No payment type ASP - Ancillary System Payment BIL - Billing BKP - Backup Payment CLN - Credit Line COP - Connected Payment CSD - CROSS AS SETTLEMENT CWD - Cash Withdrawal INT - Interests LQT - Liquidity Transfer MAP - Mandated Payment PEN - Penalties REP - REPO RGP - Regular Payment
Payment Subtype	This field documents the payment sub-type to which the cash transfer is assigned based on the attributes of the cash transfer. Code - Description 1BKMR - SM1 Liquidity Transfer CI to Technical account – procedure 6 real-time 1MRBK - SM1 Liquidity Transfer Technical account – procedure 6 real-time to CI 6COLA - Auto collateral sent by AS 6COLC - Auto collateral sent by CB 6COPA - Connected payments sent by AS 6COPC - Connected payments sent by CB 6FSBSU - SM6 interfaced model SB to SUB 6FSOR - Standing order 6F 6FSUPM - Back transfer of liquidity 6F 6GSOR - SM6 real-time model standing order 6MAPA - SM6 autocollateralisation mandated payment (per Auto-collateral account to sub account, sent by AS)

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Field	Description
	6MAPC - SM6 autocollateralisation mandated payment (per Auto-collateral account to sub account, sent by CB) 6SET - Settlement 6 6SIFFA - SM6 cross AS settlement (sent by AS) 6SIFFC - SM6 cross AS settlement (sent by CB) 6SIFGA - SM6 cross AS settlement (sent by AS) 6SIFGC - SM6 cross AS settlement (sent by CB) 6SIGFA - SM6 cross AS settlement (sent by AS) 6SIGFC - SM6 cross AS settlement (sent by CB) 6SIGGA - SM6 cross AS settlement (sent by AS) 6SIGGC - SM6 cross AS settlement (sent by CB) 6STRA - Special transaction sent by AS 6STRC - Special transaction sent by CB 999999 - No payment subtype BILH - Billing payment HAM BILP - Billing payment PM BKPM - Backup Payments PM CLNC - Credit line connected payment CLND - Settlement of an Order to change Credit Line (Delta Amount) CLNO - Credit line order (Fixed Amount) CUSHH - Customer payment CWD - Cash Withdrawal DACC - Liquidity transfer to CB for deleted account EPA - Liquidity Transfer EOD PM to PHA EPH - Liquidity Transfer EOD PM to HAM EPP - Liquidity Transfer EOD between PM EXP - GOA to excluded participant F6GCUO - Current order FIN 6G FCOP - Connected payments FIN FMAP - Mandated Payments FIN FPA - Liquidity Transfer FIN to PHA

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Field	Description
	FPH - Liquidity Transfer FIN to HAM FPP - Liquidity Transfer FIN to PM HAMER - Transfer with SF without any corresponding payment in SF HAMMAP Mandated payment (FIN) to HAM system BIC HPSFOD - Overnight deposit transfers HAM to SF I6FCUO - Current order ICM 6F IBPPH - Payment IBP from PM to HAM IHPS - Liquidity Transfer ICM HAM to PM or HAM to SF INBHH - Interbank payment INBPH - Interbank Transfer RTGS to other HAM account INTHA - Interests from HAM INTMLP - Marginal lending interests PM INTOC - Interests for out countries INTODH - Overnight deposit interests HAM INTODP - Overnight deposit interests PM INTRH - Minimum reserves interests HAM INTRP - Minimum reserves interests PM IOF - Overnight deposit on interests for out countries IPH - Liquidity Transfer ICM PM to HAM IPP - Liquidity Transfer ICM within GOA to PM IRGHH - Payment ICM intra HAM IRGHP - Payment ICM HAM to PM IRGPH - Payment ICM to HAM KSF - Liquidity Transfer of capital LCTT2S - LiquidityCreditTransfer from T2S LCTTIP - LiquidityCreditTransfer from TIPS LDTT2S - LiquidityDebitTransfer from T2S (EoD only) LEV - Levelling out transaction LMAT2S - LiquidityCreditTransfer MX to T2S(mandated)sent by T2SActors LMFT2S - LiquidityCreditTransfer FIN to T2S (mandated)

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Field	Description
	LMMT2S - LiquidityCreditTransfer MX to T2S (mandated) sent by CBs LMMTIP - LiquidityCreditTransfer MX to TIPS (mandated) sent by CBs LQT - insert CM payment LTFT2S - LiquidityCreditTransfer FIN (MT202 Y-Copy) to T2S (only VAS) LTHP - Liquidity transfer HAM to PM LTIT2S - LiquidityCreditTransfer ICM to T2S LTITIP - LiquidityCreditTransfer ICM to TIPS (push) LTMT2S - LiquidityCreditTransfer MX (A2A) to T2S LTMTIP - LiquidityCreditTransfer MX (A2A) to TIPS LTPH - Liquidity transfer PM to HAM ML - Marginal lending SF to PM MLC - Marginal lending as connected payment MLQ - Modify CM liquidity MLR - Marginal lending refund PM to SF MLRC - Marginal lending refund as connected payment OD - Overnight deposit PM to SF ODR - Overnight deposit refund SF to PM ONI - Overnight deposit Negative Interests PA - Liquidity Transfer PM to PHA PENH - Minimum reserves penalties HAM PENP - Minimum reserves penalties PM PH - Liquidity transfer PM to HAM PPSFOD - Overnight deposit transfers PM to SF REP - REPO RGBIP - Billing reverse payment PM RGCP - Contingency module payment RGHH - Payment MT202S intra HAM RGHP - Payment MT202 HAM to PM RGIBIB - Payment between two LVP participants

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Field	Description
	RGIBPP - Payment from LVP participant to Y-Copy RGLB - Normal regular payment from or to liquidity bridge account RGP - Regular Payment RGPH - Payment MT202 PM to HAM RGPP - Regular payment PM RGPPIB - Y-Copy Payment to LVP participant SAC - Automatic Marginal Lending on Capital SAI - Automatic Marginal Lending on Interests SFONI - Overnight deposit Negative Interests SFSAC - SFM Automatic marginal lending Capital SFSAI - SFM Automatic marginal lending Interest SFSMC - SFM Margin lending on-request Capital SFSMI - SFM Margin lending on-request Interest SFSOC - SFM Overnight deposit Capital SFSOI - SFM Overnight deposit Interest SM2 - Real time settlement SM3 - Bilateral settlement SM3S - Bilateral settlement with singled ASIS SM4 - Standard multilateral settlement SM4C - Conversion settlement procedure 5 to 4 SM4G - Guarantee payment SM4R - Reversal payment SM5 - Simultaneous multilateral settlement SMC - Marginal Lending on-request on Capital SMI - Marginal Lending on-request on Interests SOC - Overnight Deposit on Capital SOI - Overnight Deposit on Interests SOLT2S - Standing Order LT to T2S SOLTIP - Standing Order LiquidityTransfer to TIPS SORHPM - Standing order HAM to PM SSPMAP - Mandated Payments FIN to SSP

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Field	Description
	TURN - Cross CB turnover transaction X6FCUO - Current order XML 6F X6GCUO - SM6 real-time model current order (per settle bank to Technical account – procedure 6 real-time or vice versa) ZER - zero balance
Priority	This attribute documents the settlement priority of the payment Code - Description H - Highly urgent N - Normal U - Urgent
Receiving Account Category	This attribute documents the classification of the receiving cash account on the business day that the processing of the cash transfer took place. Code - Description SU - Normal HAM account CB - CB HAM account CU - CB customer account LB - CB customer liquidity bridge SFI - SF Interests RIP - RM Interests and penalties HAI - HAM Interests T2F - TARGET 2 Fees CI - Normal CB - CB LB - CB Customer Liquidity Bridge EC - ECB Account ECM - ECB Mirror Account IL - SSP Interlinking Account SFI - SFI : SF Interests RIP - RM Interests and penalties

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Field	Description
	T2F - TARGET 2 Fees ASM - AS Technical Account Proc 6 RT ASG - AS Guarantee Account ASC - AS Auto-collateral Account AST - AS Technical Account CM - CM Account SUB - AS subaccount CM - Contingency account ML - Marginal lending OD - Overnight deposit T2S - T2S DTA Transit account TIP - TIPS DTA Transit Account
Receiving Account Type	This attribute documents the classification of the receiving cash account that determines the assignment of the cash account to a module. Code - Description P - RTGS account H - HAM account S - SF account A - AS subaccount C - CM account
Receiving Central Bank	This field documents the technical identifier of the receiving central bank.
Billable Settlement Type	This attribute classifies the cash transfer for invoicing. Code - Description 0 - The standard payment is not taken into account 1 - The standard payment is taken into account on the credit side 2 - The standard payment is taken into account on the debit side 3 - The payment coming from the ASI is taken into account

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Field	Description
	4 - The payment coming from the ASI is not taken into account
Cross-Border Settlement Type	This attribute documents classifies the cross-border settlement of a cash transfer. Code - Description CBN - Between non-migrated NCB CBM - Between both migrated NCB
Guarantee Type	This attribute documents the guarantee type associated to the cash transfer.
Intraday Credit Type	This attribute classifies the cash transfer for intraday credit. Code - Description C - Credit line R - Repo
Reversal	This field specifies that the cash transfer is a reversal.
TARGET Settlement Type	
Settlement Status	This attribute documents the settlement status of the cash transfer Code - Description AL - All status CA - Revoked FI - Final IN - Warehoused NS - Rejected XX - NA
Settlement Type	This attribute documents the classification of the settlement of the cash transfer Code - Description 0 - Pending 1 - Entry disposition 2 - Express algorithm 3 - Settle connected payment 4 - AS settlements not booked

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Field	Description
	11 - Algorithm 1 12 - Algorithm 2 13 - Algorithm 3 14 - Algorithm 4 15 - Algorithm 5 18 - CM settlement 20 - Liquidity transfer and other ICM orders 80 - End-of-day booking 81 - Levelling out booking
Sender Cash Account Category	This attribute documents the classification of the sender cash account on the business day that the processing of the cash transfer took place. Code - Description SU - Normal HAM account CB - CB HAM account CU - CB customer account LB - CB customer liquidity bridge SFI - SF Interests RIP - RM Interests and penalties HAI - HAM Interests T2F - TARGET 2 Fees CI - Normal CB - CB LB - CB Customer Liquidity Bridge EC - ECB Account ECM - ECB Mirror Account IL - SSP Interlinking Account SFI - SFI : SF Interests RIP - RM Interests and penalties T2F - TARGET 2 Fees ASM - AS Technical Account Proc 6 RT ASG - AS Guarantee Account

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Field	Description
	ASC - AS Auto-collateral Account AST - AS Technical Account CM - CM Account SUB - AS subaccount CM - Contingency account ML - Marginal lending OD - Overnight deposit T2S - T2S DTA Transit account TIP - TIPS DTA Transit Account
Sender Cash Account Type	This attribute documents the classification of the sender cash account that determines the assignment of the cash account to a module. Code - Description P - RTGS account H - HAM account S - SF account A - AS subaccount C - CM account
Time Band	This field provides the assignment of a cash transfer to a time range of a business day. Code - Description 6 - Before 07:00 AM 7 - 07.00 AM - 08.00 AM 8 - 08.00 AM - 09.00 AM 9 - 09.00 AM - 10.00 AM 10 - 10.00 AM - 11.00 AM 11 - 11.00 AM - 12.00 AM 12 - 12.00 AM - 01.00 PM 13 - 01.00 PM - 02.00 PM 14 - 02.00 PM - 03.00 PM 15 - 03.00 PM - 04.00 PM 16 - 04.00 PM - 05.00 PM

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Field	Description
	17 - 05.00 PM - 06.00 PM 18 - After 06:00 PM 99 - No time range
Time Range	This field provides the assignment of a cash transfer to a time band of a business day. Code - Description 0 - 12.00 PM - 01.00 AM 10 - 01.00 AM - 02.00 AM 20 - 02.00 AM - 03.00 AM 30 - 03.00 AM - 04.00 AM 40 - 04.00 AM - 05.00 AM 50 - 05.00 AM - 06.00 AM 60 - 06.00 AM - 07.00 AM 71 - 07.00 AM - 07.15 AM 72 - 07.15 AM - 07.30 AM 73 - 07.30 AM - 07.45 AM 74 - 07.45 AM - 08.00 AM 81 - 08.00 AM - 08.15 AM 82 - 08.15 AM - 08.30 AM 83 - 08.30 AM - 08.45 AM 84 - 08.45 AM - 09.00 AM 91 - 09.00 AM - 09.15 AM 92 - 09.15 AM - 09.30 AM 93 - 09.30 AM - 09.45 AM 94 - 09.45 AM - 10.00 AM 101 - 10.00 AM - 10.15 AM 102 - 10.15 AM - 10.30 AM 103 - 10.30 AM - 10.45 AM 104 - 10.45 AM - 11.00 AM 111 - 11.00 AM - 11.15 AM 112 - 11.15 AM - 11.30 AM 113 - 11.30 AM - 11.45 AM

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Field	Description
	114 - 11.45 AM - 12.00 AM 121 - 12.00 AM - 12.15 AM 122 - 12.15 AM - 12.30 AM 123 - 12.30 AM - 12.45 AM 124 - 12.45 AM - 01.00 PM 131 - 01.00 PM - 01.15 PM 132 - 01.15 PM - 01.30 PM 133 - 01.30 PM - 01.45 PM 134 - 01.45 PM - 02.00 PM 141 - 02.00 PM - 02.15 PM 142 - 02.15 PM - 02.30 PM 143 - 02.30 PM - 02.45 PM 144 - 02.45 PM - 03.00 PM 151 - 03.00 PM - 03.15 PM 152 - 03.15 PM - 03.30 PM 153 - 03.30 PM - 03.45 PM 154 - 03.45 PM - 04.00 PM 161 - 04.00 PM - 04.15 PM 162 - 04.15 PM - 04.30 PM 163 - 04.30 PM - 04.45 PM 164 - 04.45 PM - 05.00 PM 184 - 06.45 PM - 07.00 PM 190 - 07.00 PM - 08.00 PM 200 - 08.00 PM - 09.00 PM 210 - 09.00 PM - 10.00 PM 220 - 10.00 PM - 11.00 PM 230 - 11.00 PM - 12.00 PM 999 - No time band
Business Day	This field specifies the business day on which the processing of the cash transfer took place.
Ancillary System Settlement	This field contains a Boolean value to determine whether the cash transfer pertains to ancillary system processing.

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Field	Description
	Code - Description F - Not Ancillary system settlement T - Ancillary system settlement
Contingency Transfer	This field contains a Boolean value to determine whether the cash transfer pertains to a contingency operation. Code - Description F - Not contingency transfer T - Contingency transfer
Queueing	This field contains a Boolean value to determine whether the cash transfer pertains to a contingency operation. Code - Description F - Not contingency transfer T - Contingency transfer
Settlement Counting	This field contains a Boolean value to determine whether the cash transfer pertains to a contingency operation. Code - Description F - Not contingency transfer T - Contingency transfer
Central Bank Aggregation Credit Counting	This field contains a Boolean value to determine whether the cash transfer is aggregated to the debit for a central bank. Code - Description F - No credit count inclusion T - Credit count inclusion
Central Bank Aggregation Debit Counting	This field contains a Boolean value to determine whether the cash transfer is aggregated to the debit for a central bank. Code - Description F - No debit count inclusion T - Debit count inclusion
Credit Cash Account ID	This field documents the technical identifier of the credit cash account.

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Field	Description
Debit Cash Account ID	This field documents the technical identifier of the debit cash account.
Direct Sender Party ID	This field documents the technical identifier of the direct sender.
Process Band ID	This attribute documents the settlement priority of the payment Code - Description H - Highly urgent N - Normal U - Urgent
Contingency Session ID	This attribute documents the technical identifier of a contingency session when the creation of the cash transfer to place during a contingency settlement operations.
Settlement Error ID	This field specifies an error code if the settlement fails.
Settlement Processing Duration Seconds	This field documents the processing duration of the cash transfer in settlement.
Closing Timestamp	This field documents the date and time of the system closing.
Sent to Settlement Timestamp	The field documents the date and time that submission of the cash transfer took place.
Received by Settlement Timestamp	This field document the date and time the settlement received the cash transfer for processing.
Message Entry Timestamp	This field specifies the date and time that the message instructing cash transfer was received.
Payment Module Settlement Timestamp	This attribute documents the date and time that the cash transfer settled in the payment module.
Linked Initial Payment Payment Module Settlement Timestamp	This field specifies the settlement date and time of that the payments module settled the first cash transfer of a set of linked cash transfers settled.
Settlement Timestamp	This attribute documents the date and time that the cash transfer settled.

Table 178 - Cash transfer data items

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