

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](#) [▶ 30]) 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]

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 between 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

l copy and save a report (see chapter [Copy, save and export](#) [▶ 71])

- | run a report (see chapter [Running reports](#) [▶ 83])
- | schedule a report (see chapter [Scheduling reports](#) [▶ 102])

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.

The following web-browsers are suggested:

- | Mozilla Firefox 78.0 +
- | Google Chrome 88.0 +

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.

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.

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 predefined reports to the users of the following T2 parties:

- | Central Banks (CB),
- | 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 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: Each CB has access to granular data for all parties belonging to its system entity. Moreover, each CB 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.

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](#) [▶ 102].

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:

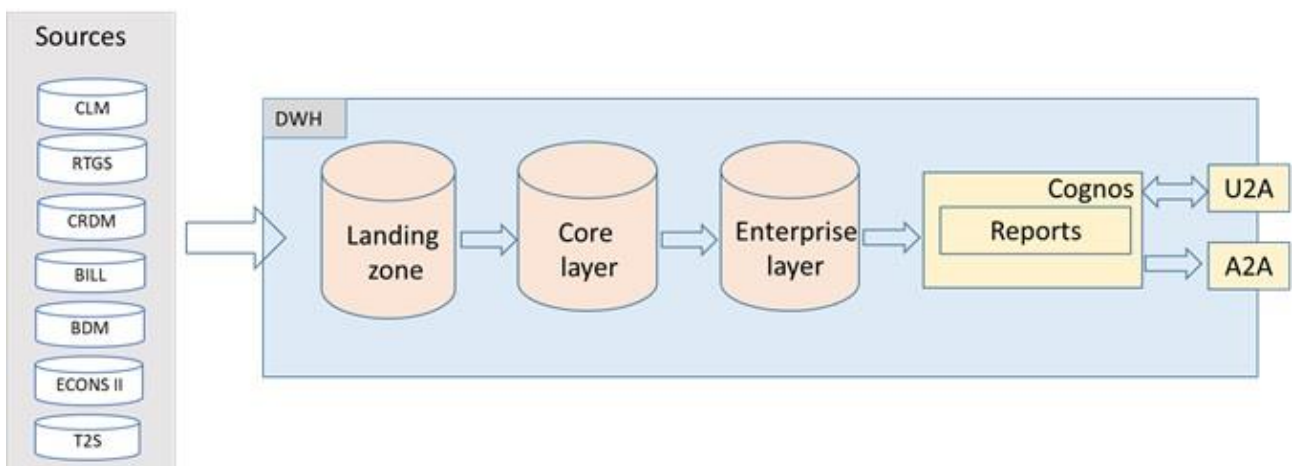


Figure 1 - DWH high level overview

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.





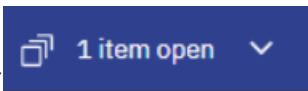
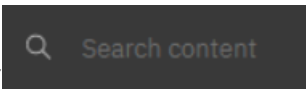

Figure 2 - Welcome page

The welcome page consists of the following building blocks:

Global application bar

The global application bar (the blue bar at the top of the screen) is a constant element of the user interface.

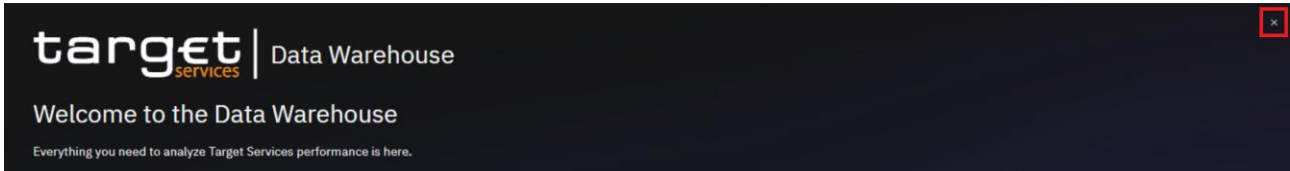
When the welcome page is open, the following, standard options are available:


- I “Open menu” icon ()
- I “Data Warehouse” home page link ()
- I “View switcher” - only visible if at least one document is open ()
- I “Search content” ()
- I “Notifications” icon ()

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

1 “Personal menu” icon ()

Welcome banner




You can hide the banner by clicking the “Close” icon () or you can go to the personal menu, and under “Profile and settings > Settings”, toggle the “Welcome banner” switch on or off.

3.2 Navigating in the DWH GUI – Global application bar

3.2.1 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.

3.2.2 Data Warehouse icon

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

3.2.3 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 3 - 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:

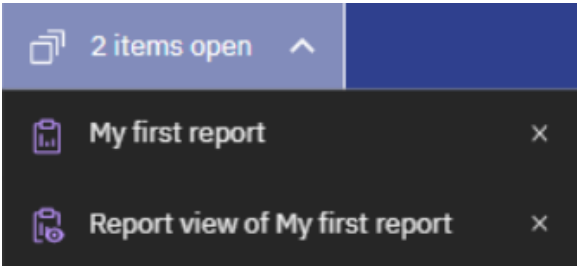


Figure 4 - Welcome page - navigation view - items

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

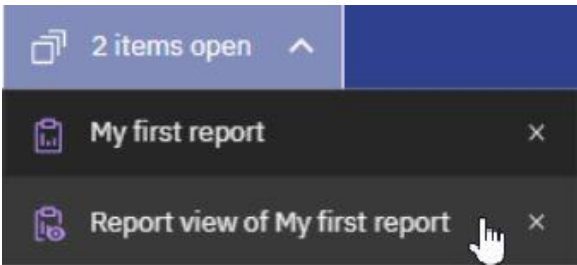


Figure 5 - Welcome page – navigation view – items – report view selection

3.2.4 Search content

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

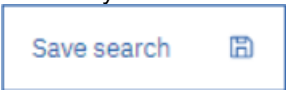
You can search for items such as reports, folders etc. You can also search for table or column labels, XML report specifications, shortcuts, templates, and more.


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 6 - 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.

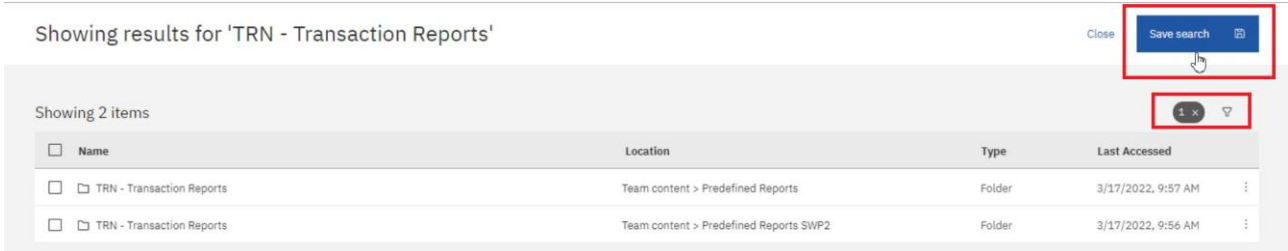


Figure 7 - Welcome page – Search content - Save search

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.

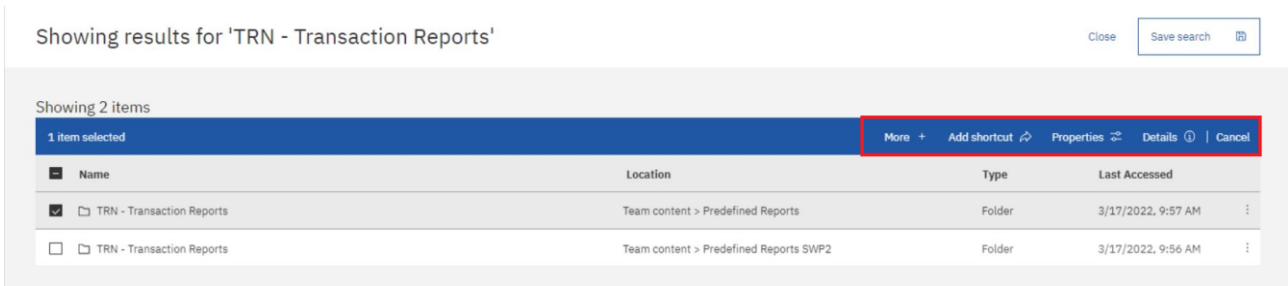



Figure 8 - Welcome page – Search content - initiate actions

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.

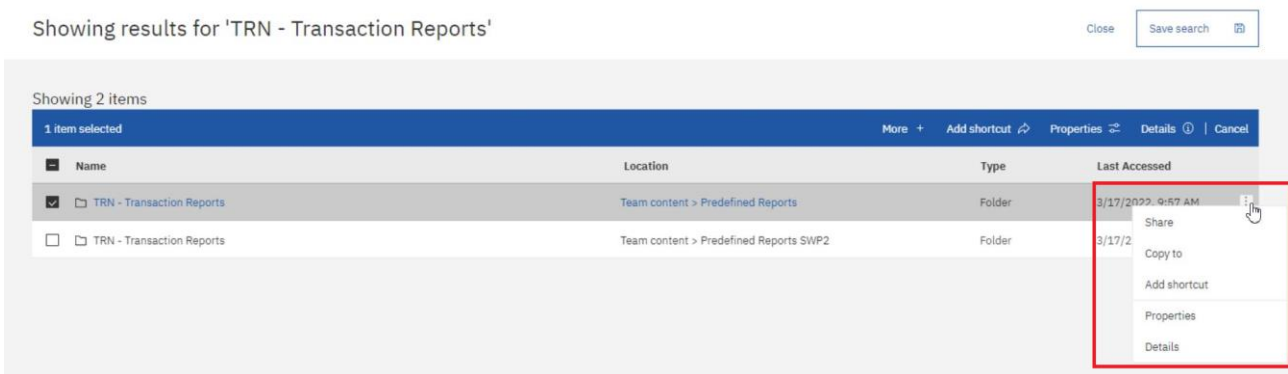


Figure 9 - Welcome page – Search content - Action menu

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.

3.2.5 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..

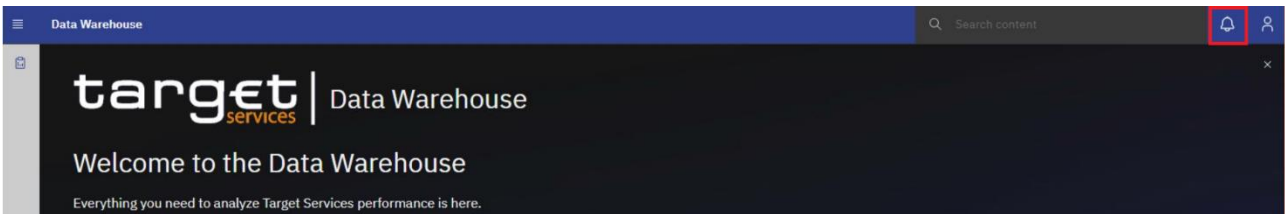


Figure 10 - Welcome page - Notification

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.

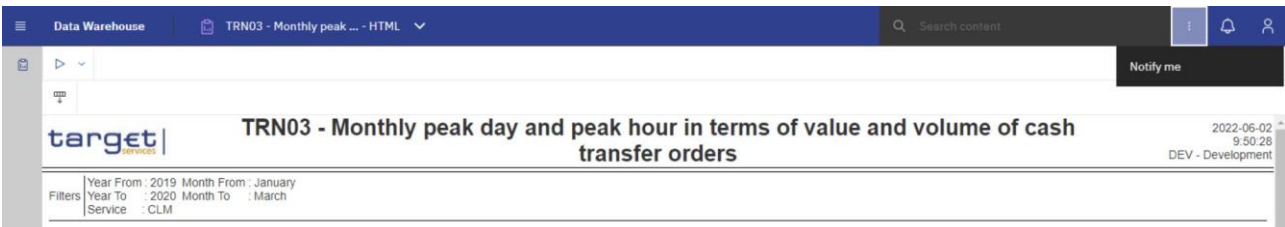


Figure 11 - More options – Notify me

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 receive a new notification, a number is added to the icon .

3.2.5.1 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 12 - 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](#) [▶ 102].

3.2.6 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](#) [▶ 38].

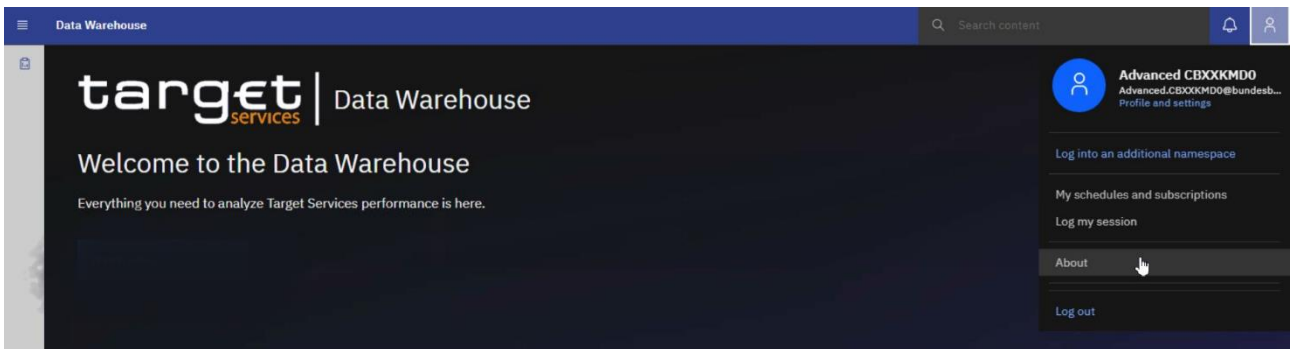


Figure 13 - Welcome screen – Personal menu (1)

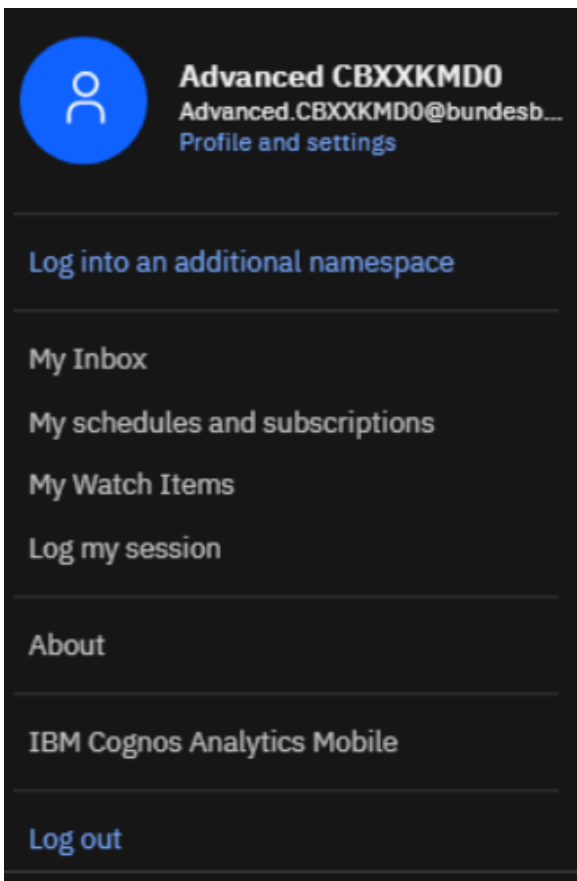


Figure 14 - Welcome screen – Personal menu (2)

3.2.6.1 Profile and settings

AugenIn 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.

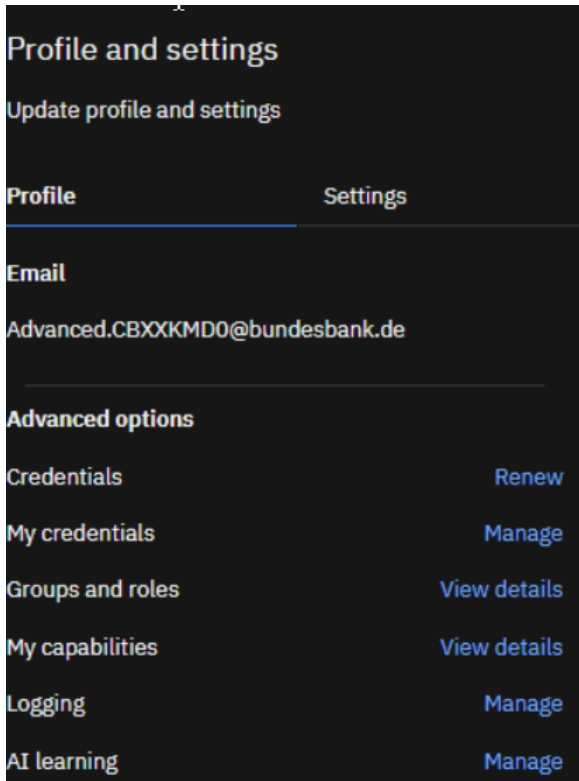


Figure 15 - Welcome screen – Personal menu – Profile and settings – Profile

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 \(advanced users\)](#) [▶ 304] to find more information about groups and roles.

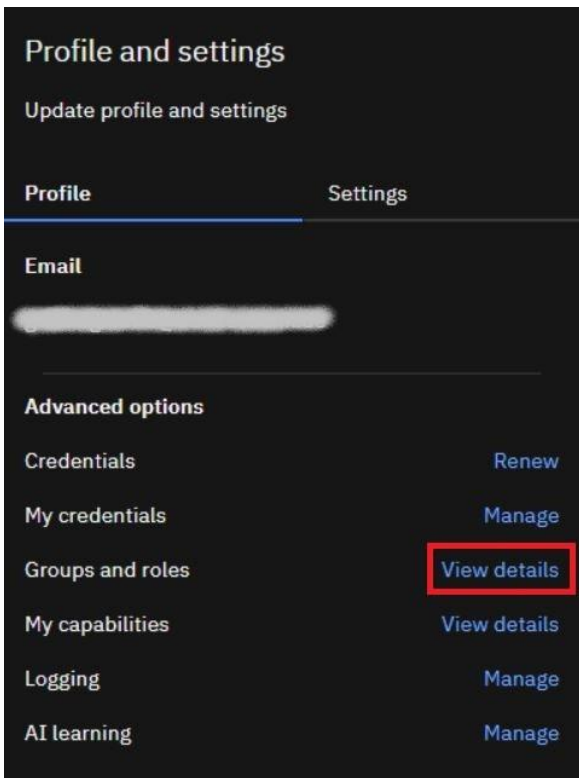


Figure 16 - Welcome screen – Personal menu – Profile and settings – Personal – Groups and roles

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.

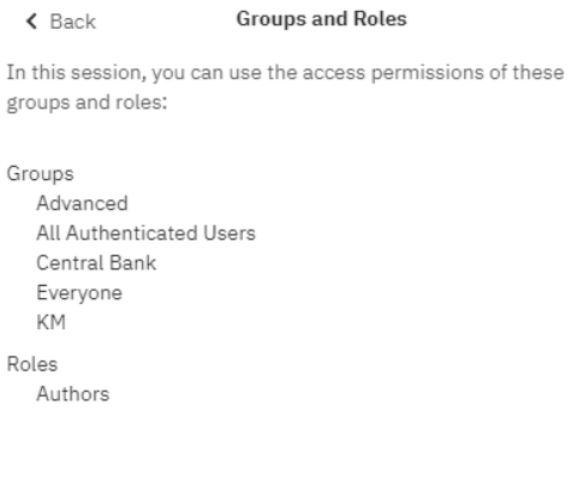


Figure 17 - Welcome screen – Personal menu – Profile and settings – Personal – Groups and roles

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.

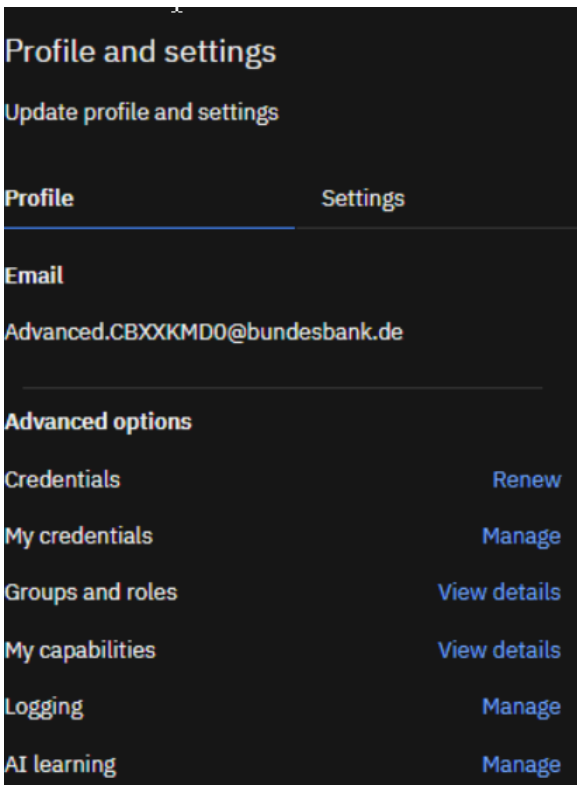


Figure 18 - Welcome screen – Personal menu – Profile and settings – Profile – My capabilities (1)

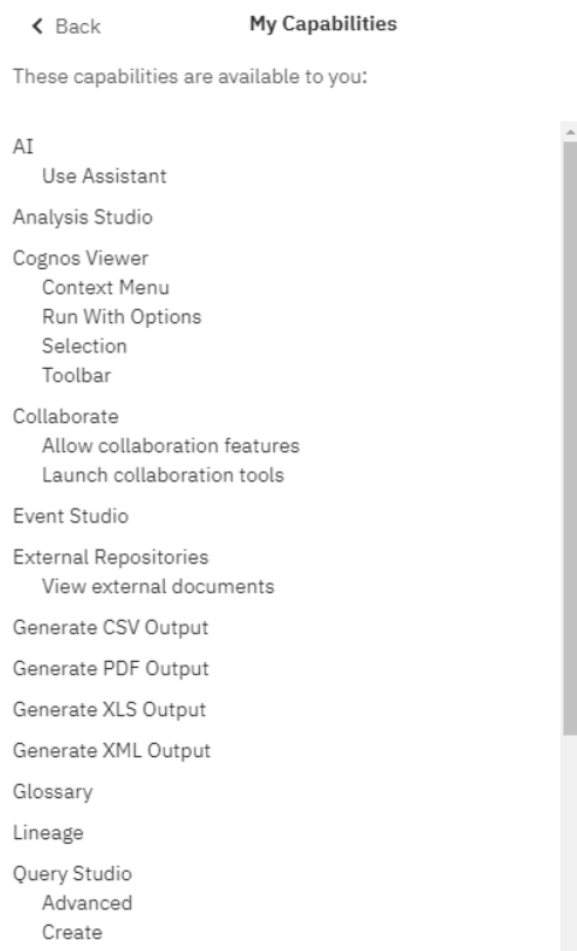


Figure 19 - Welcome screen – Personal menu – Profile and settings – Profile – My capabilities (2)

3.2.6.2 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.

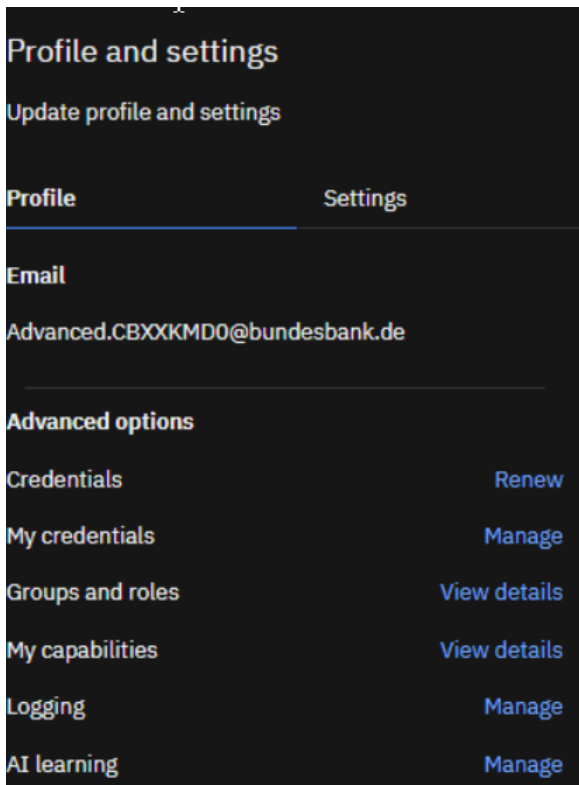


Figure 20 - Welcome screen – Personal menu – Profile and settings - Logging

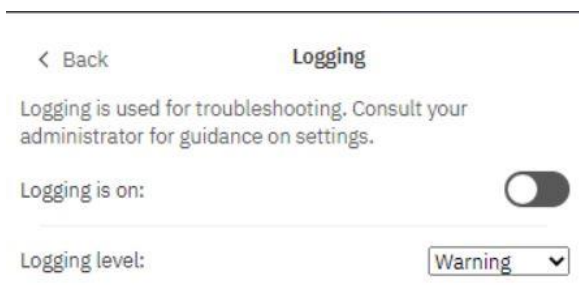


Figure 21 - Welcome screen – Personal menu – Profile and settings – logging

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.

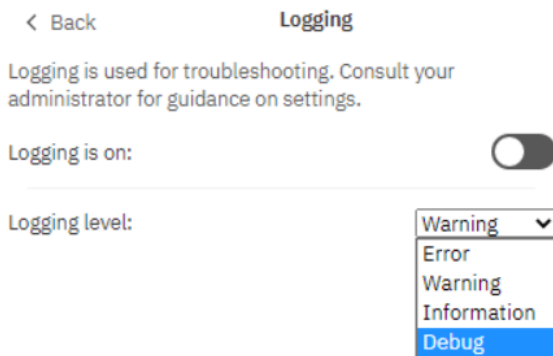


Figure 22 - Welcome screen – Personal menu – Profile and settings - logging level

3.2.6.2.1 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**”.

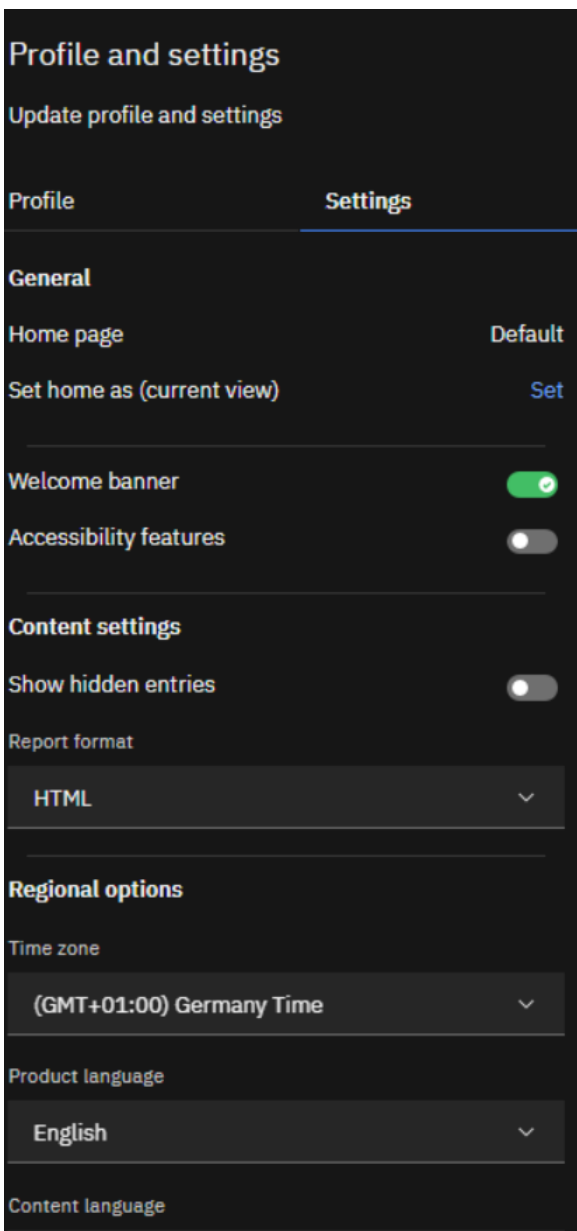


Figure 23 - Welcome screen – Personal menu – Profile and settings – Settings

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 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)

- | 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

Show hidden entries

When you first sign in to the DWH, you can see hints that help you navigate through the user interface. If you turn the hints off, but want to show them again, select the “Show hidden entries” check box.

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.


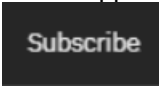
3.2.6.3 My schedules and subscriptions

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.

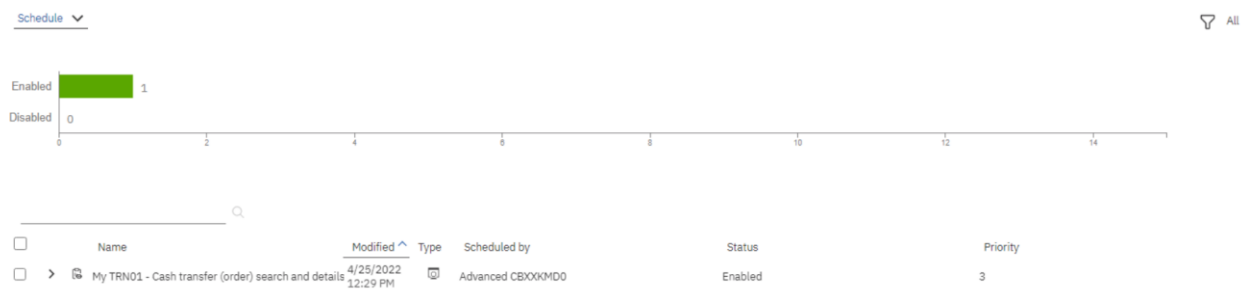


Figure 24 - Welcome screen – Personal menu – My schedules and subscriptions

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

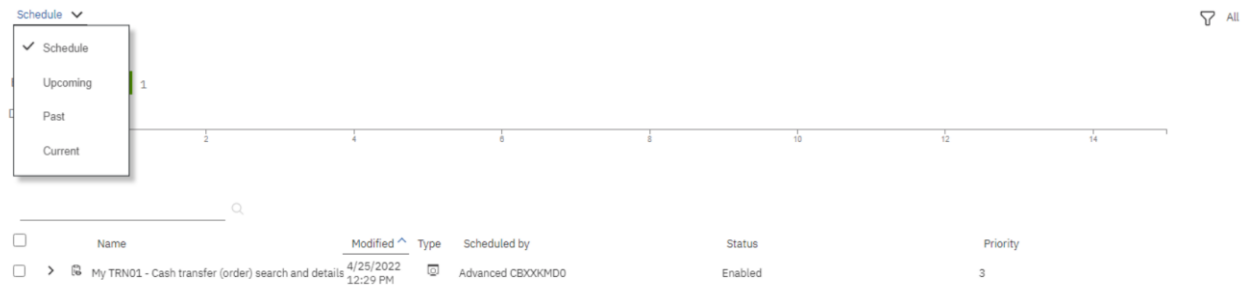


Figure 25 - Welcome screen – Personal menu – My schedules and subscriptions - Filter

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

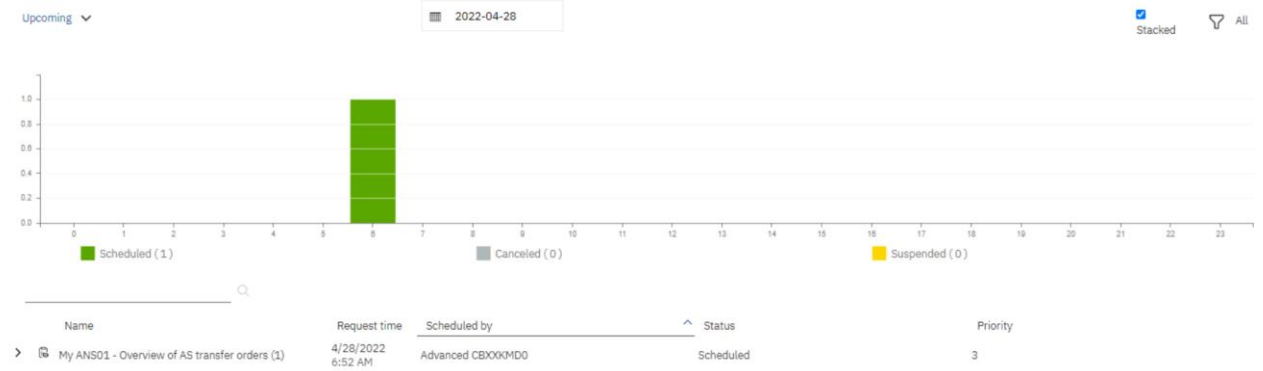


Figure 26 - Welcome screen – Personal menu – My schedules and subscriptions – Upcoming schedules

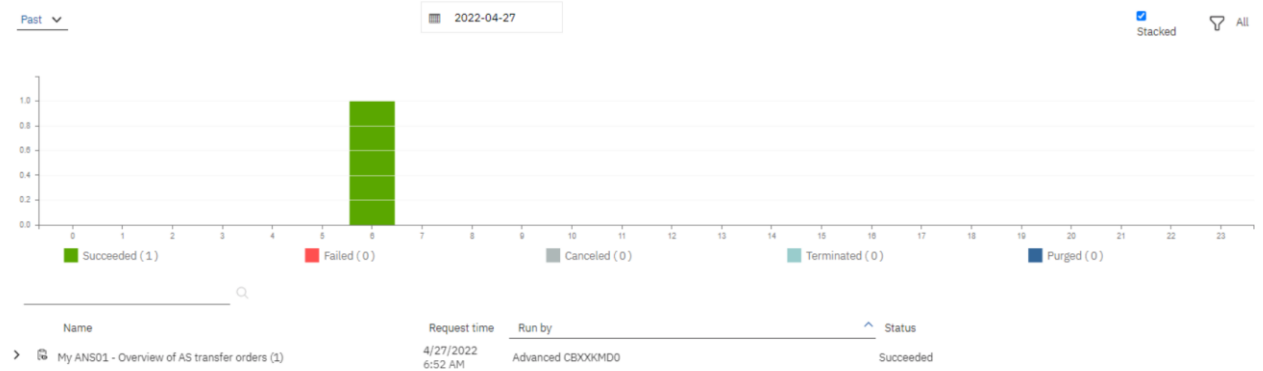



Figure 27 - Welcome screen – Personal menu – My schedules and subscriptions – Past schedules

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 ():

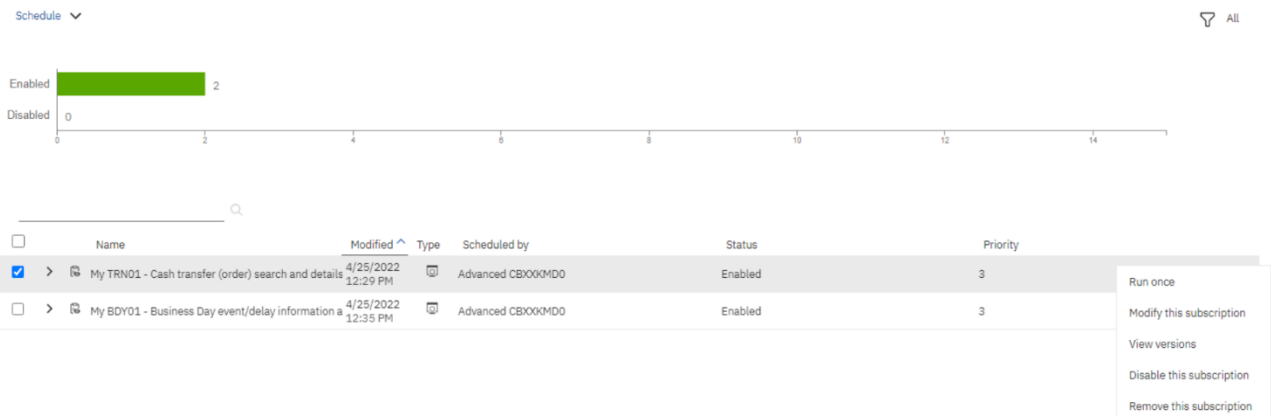
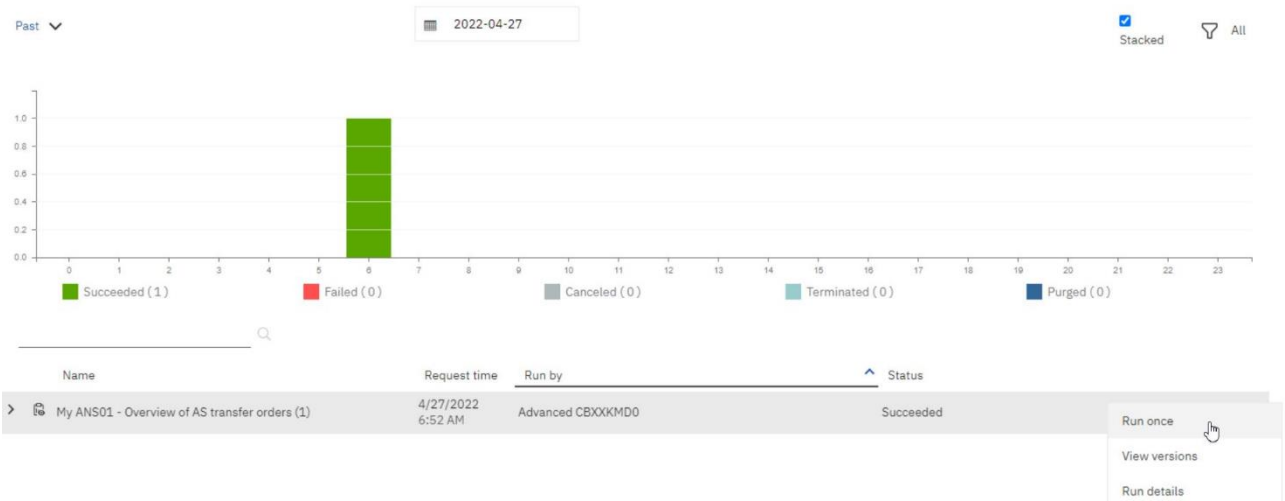


Figure 28 - Welcome screen – Personal menu – My schedules and subscriptions

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

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



You can find further information on how to run a report in the chapter [Run a report step-by-step](#) [▶ 83].

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

Subscribe

My TRN01 - Cash transfer (order) search and details

When do you want to receive this report?

Repeat on M T W T F S S

Time 12:28 PM

Format HTML

Delivery Save

Prompts 8 schedule prompt values

Update Cancel

Figure 29 - 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

Versions

Versions Archives

Show all history

Apr 27, 2022, 6:52:00 AM

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

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

Schedule ▼

Enabled 1

Disabled 1

Schedule status was edited.

Name	Modified	Type	Scheduled by	Status	Priority
My BDY01 - Business Day event/delay information a	4/25/2022 12:35 PM	Advanced CBXXXMDO	Advanced CBXXXMDO	Enabled	3
My TRN01 - Cash transfer (order) search and details	4/25/2022 12:51 PM	Advanced CBXXXMDO	Advanced CBXXXMDO	Disabled	3

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

Remove this subscription: The schedule will be deleted

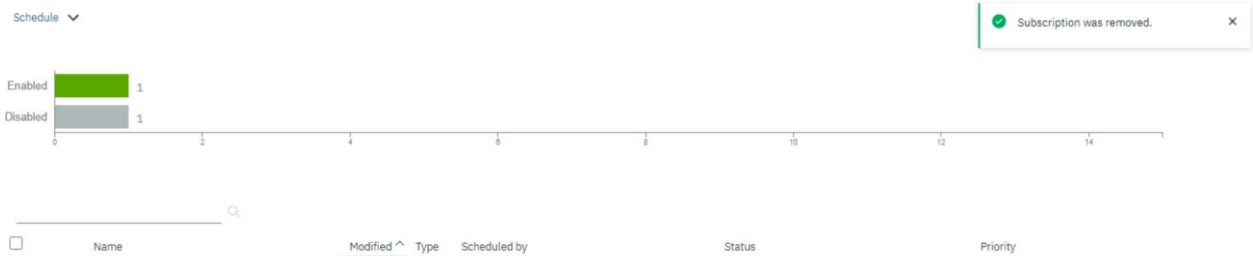


Figure 32 - Welcome screen – Personal menu – My schedules and subscriptions – Remove schedule

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

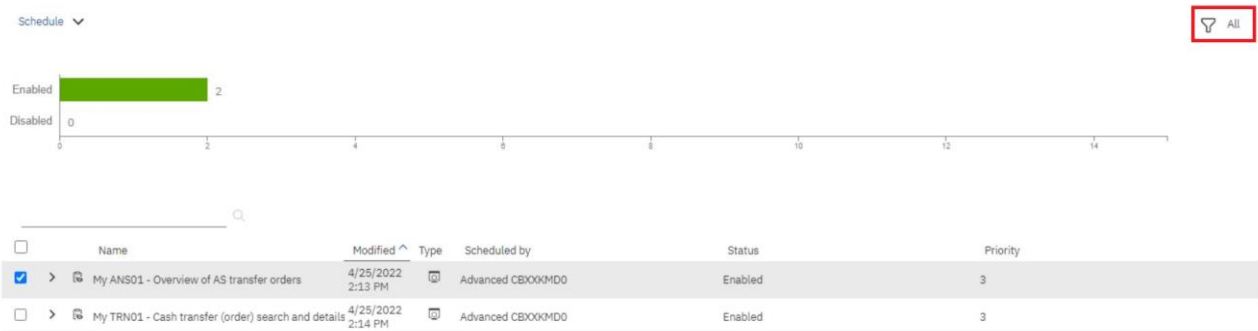



Figure 33 - Welcome screen – Personal menu – My schedules and subscriptions – Filter (2)

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

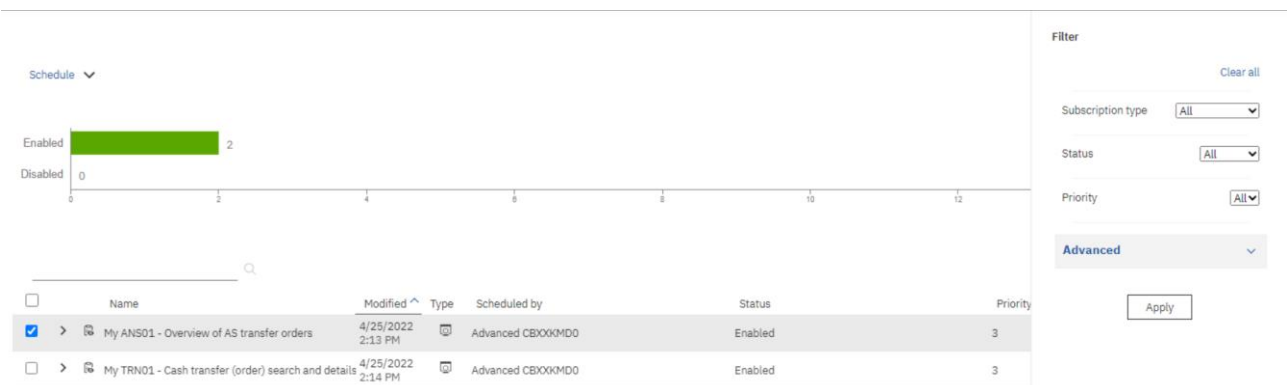
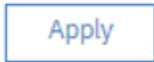
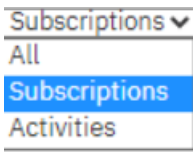


Figure 34 - Welcome screen – Personal menu – My schedules and subscriptions – Filter (2) - Further options

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 ().

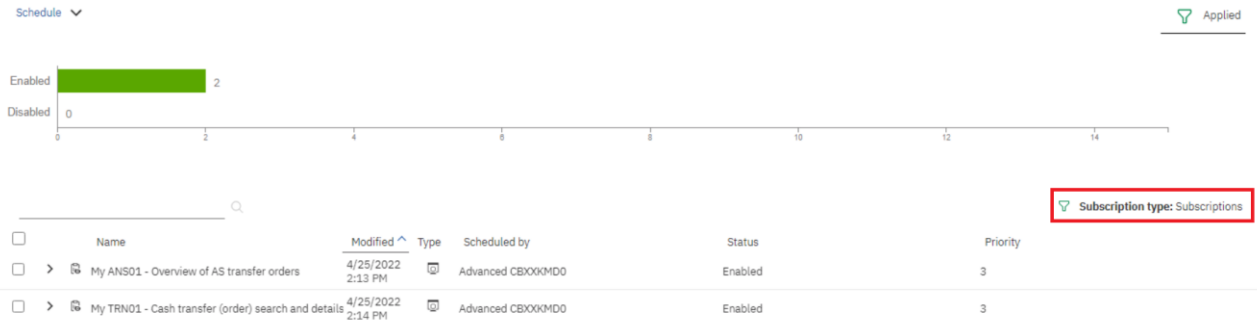
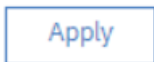
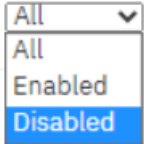


Figure 35 - Welcome screen – Personal menu – My schedules and subscriptions - Subscription type

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 ().

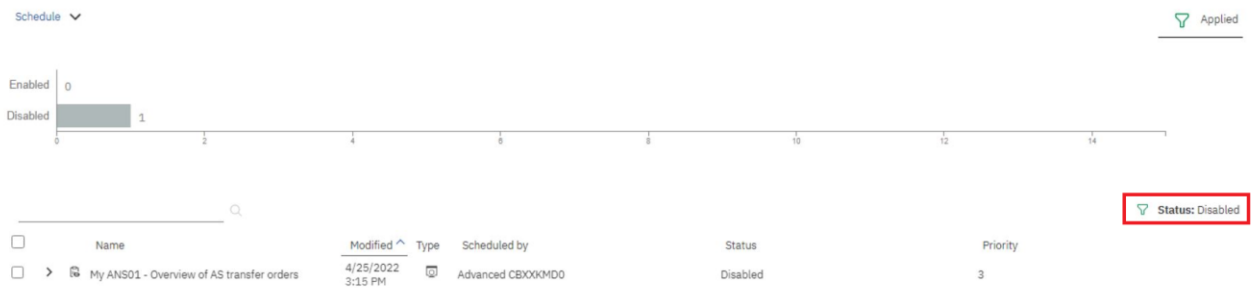
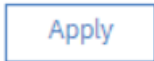
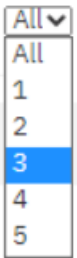


Figure 36 - Welcome screen – Personal menu – My schedules and subscriptions – Status disabled

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 ().



Figure 37 - 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.

Filter

[Clear all](#)

Subscription type

Status

Priority

Advanced [^](#)

Type [All >](#)

Figure 38 - 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 Report view:

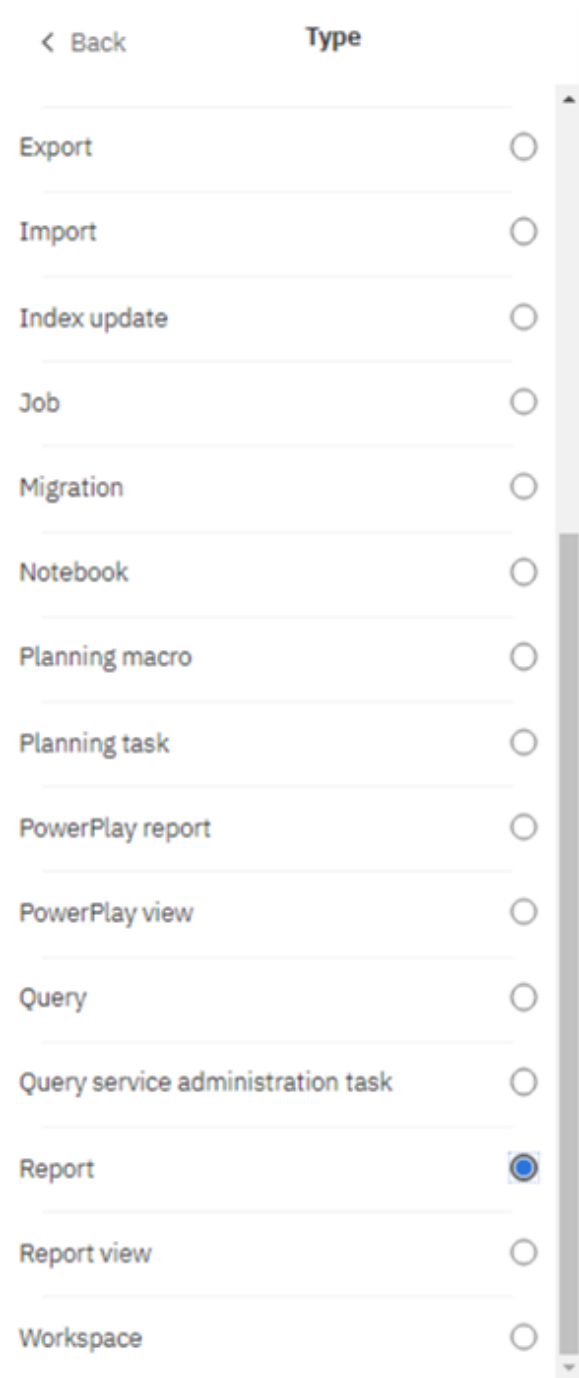


Figure 39 - Welcome screen – Personal menu – My schedules and subscriptions – Advanced - All - Type of schedule

Filter

Clear all

Subscription type

Status

Priority

Advanced ^

Type

Apply

Figure 40 - Welcome screen – Personal menu – My schedules and subscriptions – Advanced - All - Type of schedule – Report

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

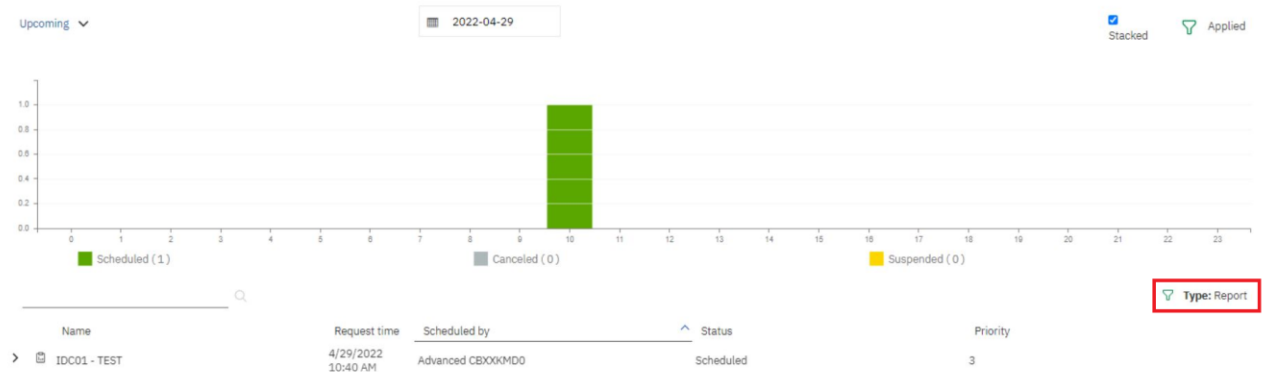


Figure 41 - Welcome screen – Personal menu – My schedules and subscriptions – Advanced - All - Type of schedule - Report

3.2.6.4 Log out

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

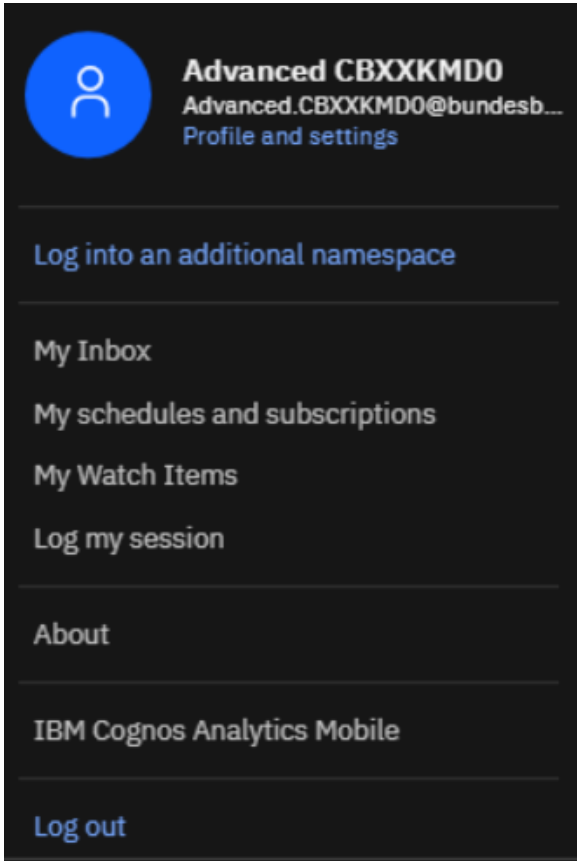


Figure 42 - Personal menu - Log out

3.3 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**” ().

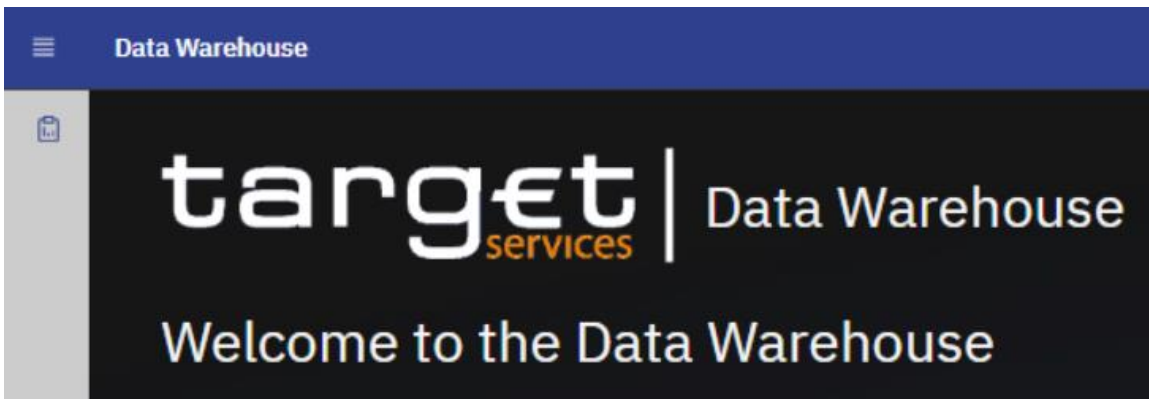


Figure 43 - Welcome page - menu

3.3.1 Data Warehouse logo

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

3.3.2 Open Home

The first icon under the “**Open Home**” icon is the “**Home**” icon.

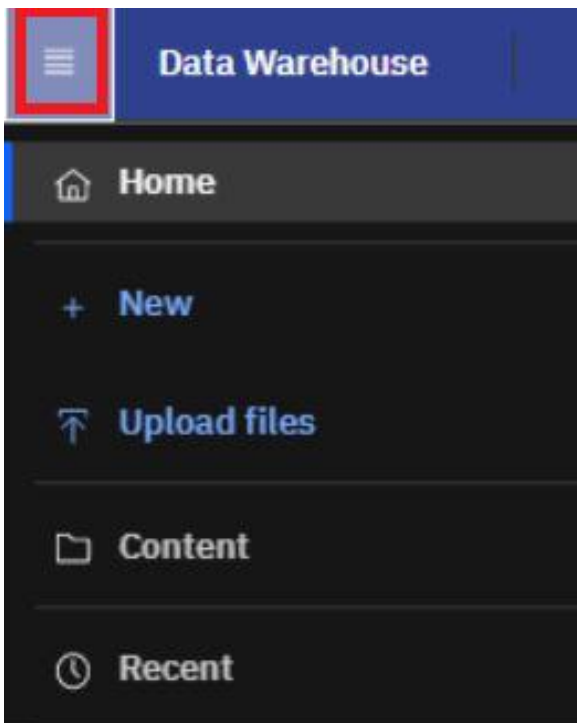


Figure 44 - Welcome page - Home

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](#) [32]) from everywhere in the DWH GUI.

3.3.3 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 45 - Welcome page - Search

3.3.3.1 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.

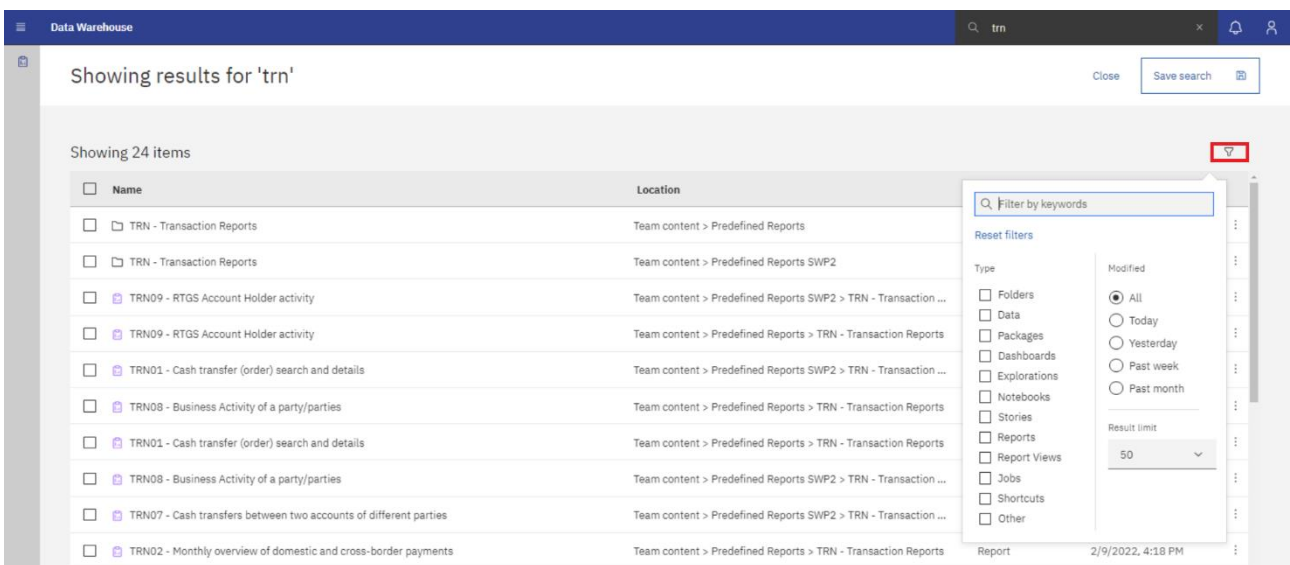


Figure 46 - Welcome page - filter options

3.3.3.2 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 47 - 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.

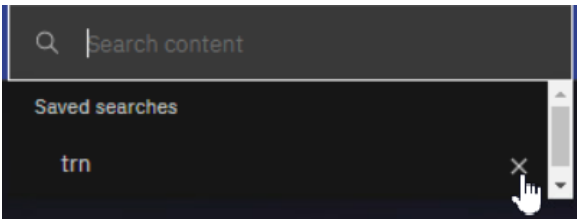


Figure 48 - Welcome page – remove search

Example

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

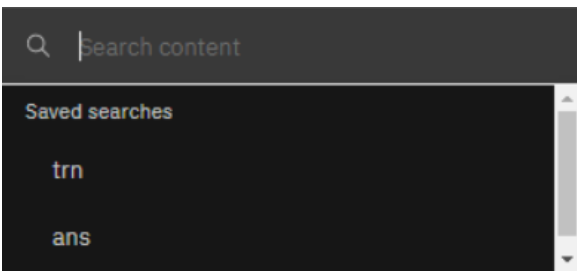


Figure 49 - Welcome page - Search - Saved searches

3.3.4 System information

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

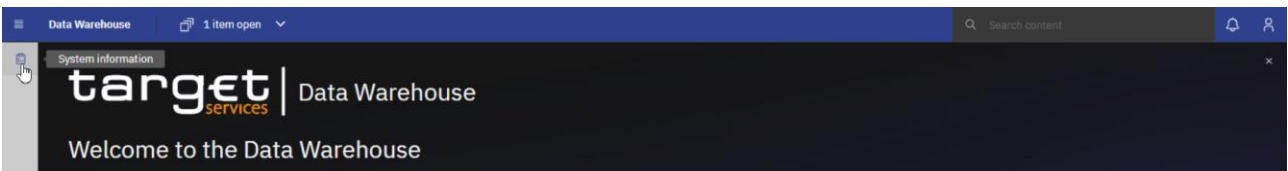


Figure 50 - Welcome page - System information link

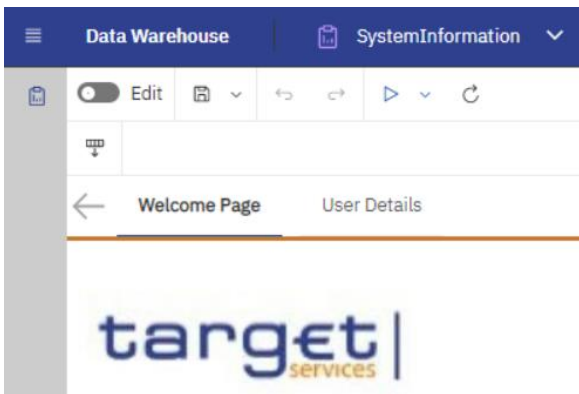


Figure 51 - Welcome page – System information menu

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.

3.3.5 Recent

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

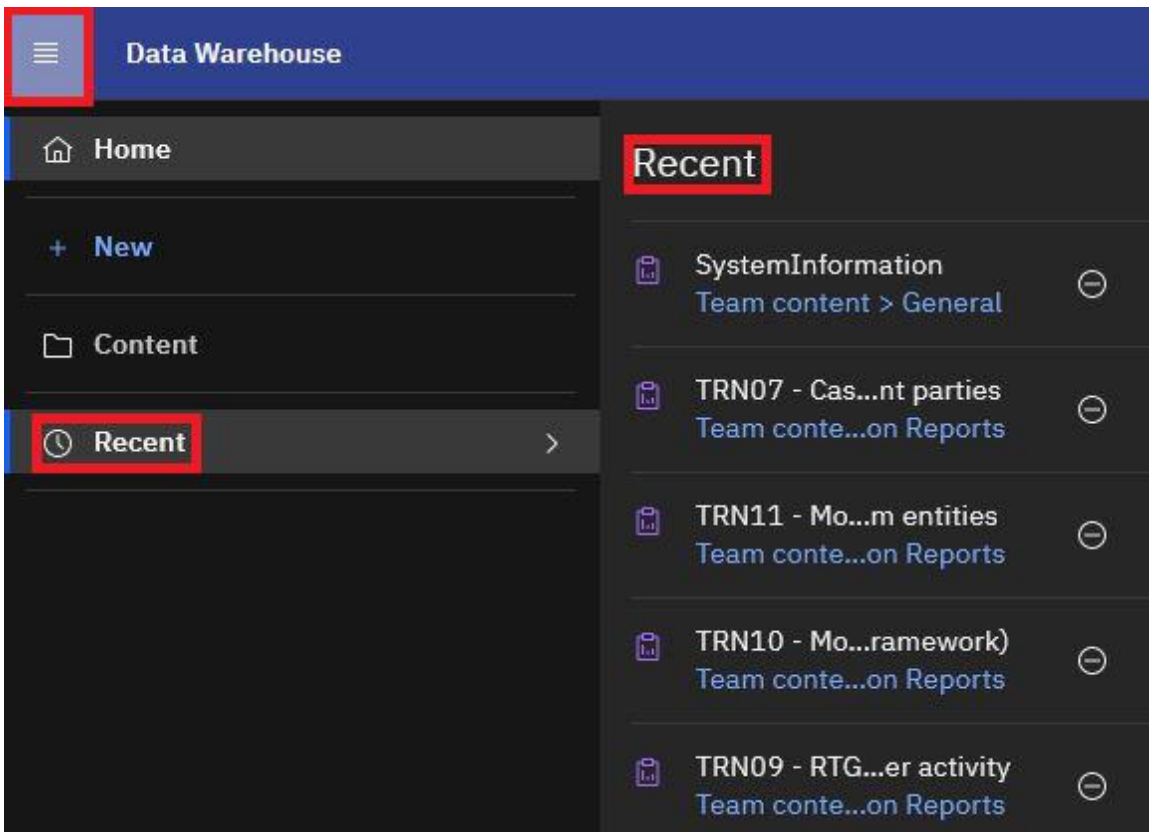


Figure 52 - Welcome page – Recently viewed

3.3.6 New

“**New**” is only visible for CB 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 \(just advanced users\)](#) [▶ 308].

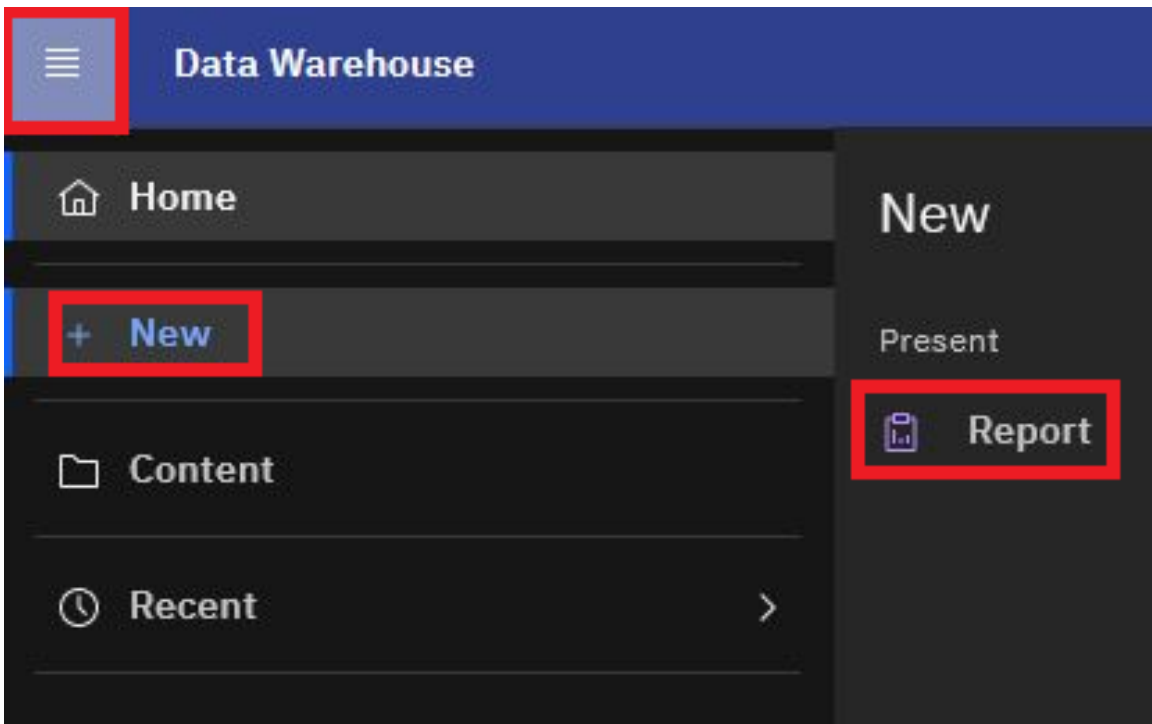


Figure 53 - Welcome page - New

3.4 Personal Folders

3.4.1 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](#) [▶ 122] . For CB users a specific CB folder can be found, where CB advanced users can store adapted or user-defined reports and share them with normal users within their CB. This enables also other users of this CB with the normal user privilege to execute reports previously designed by an advanced user.

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

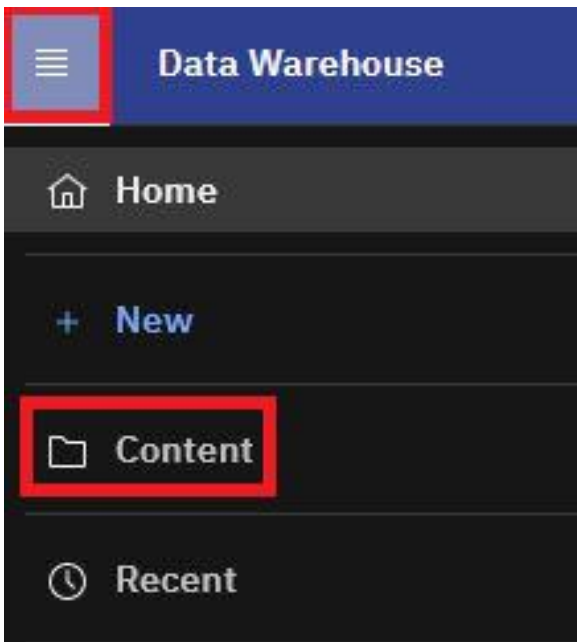


Figure 54 - Welcome page - Team content

You can see the following content within “**Team content**”.

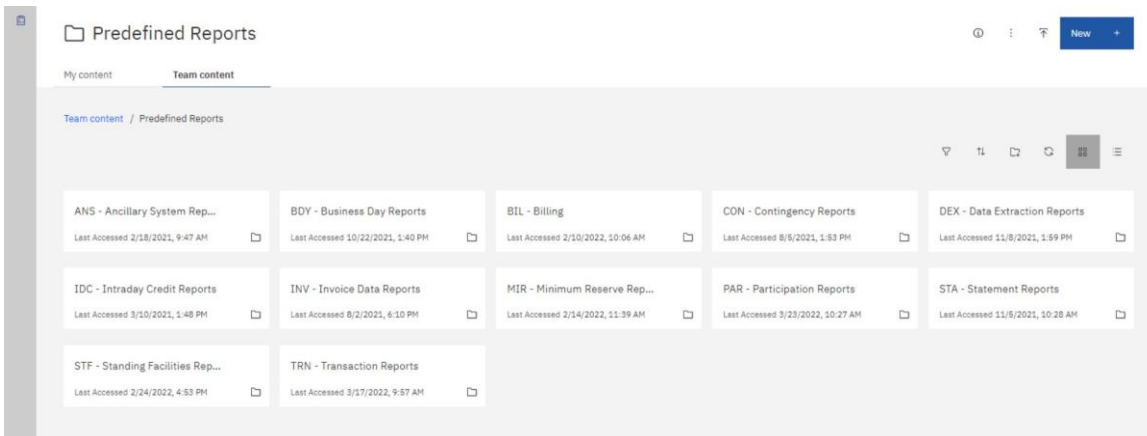


Figure 55 - Welcome page- Team content - folder structure

In case you are a CB user, you will see this structure in “**Content**”:

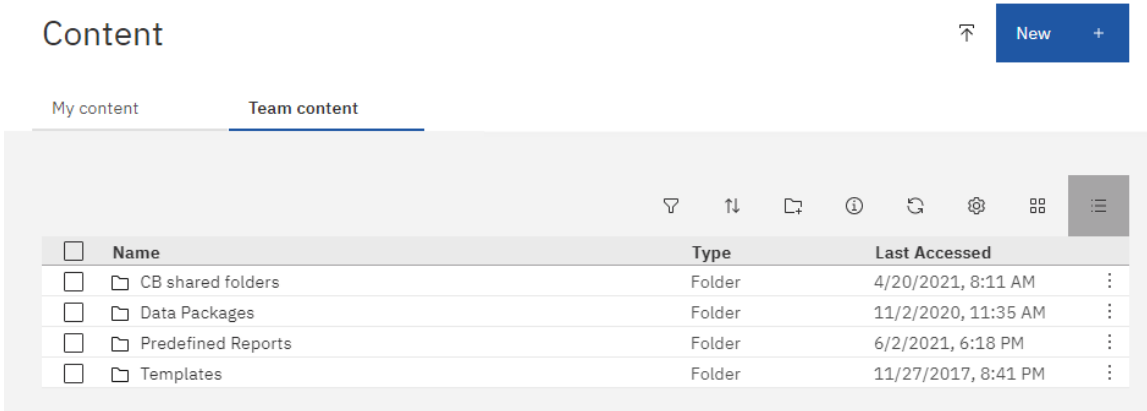


Figure 56 - Welcome page - Team content - folder structure (CB user)

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).

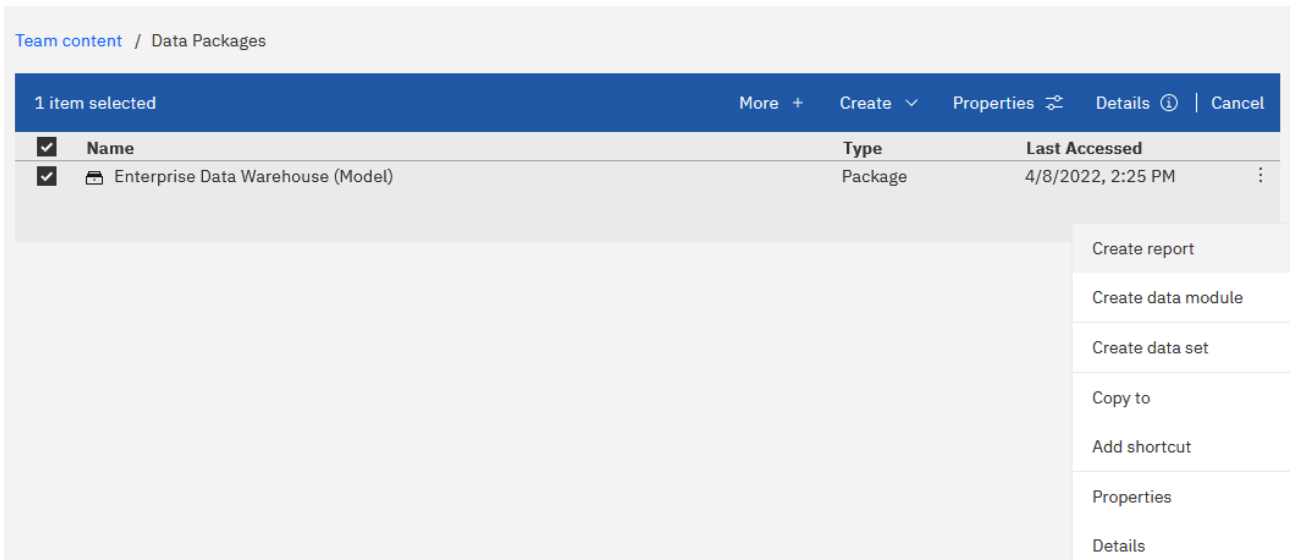


Figure 57 - Welcome page - Team content - Data Packages

Predefined Reports

In the “Predefined Reports” folder you can find the subfolders containing the predefined reports.

Team content / Predefined Reports

<input type="checkbox"/>	Name	Type	Last Accessed	
<input type="checkbox"/>	ANS - Ancillary System Reports	Folder	2/18/2021, 9:47 AM	⋮
<input type="checkbox"/>	BDY - Business Day Reports	Folder	10/22/2021, 1:40 PM	⋮
<input type="checkbox"/>	BIL - Billing	Folder	2/10/2022, 10:06 AM	⋮
<input type="checkbox"/>	CON - Contingency Reports	Folder	8/5/2021, 1:53 PM	⋮
<input type="checkbox"/>	DEX - Data Extraction Reports	Folder	11/8/2021, 1:59 PM	⋮
<input type="checkbox"/>	IDC - Intraday Credit Reports	Folder	3/10/2021, 1:48 PM	⋮
<input type="checkbox"/>	INV - Invoice Data Reports	Folder	8/2/2021, 6:10 PM	⋮
<input type="checkbox"/>	MIR - Minimum Reserve Reports	Folder	2/14/2022, 11:39 AM	⋮
<input type="checkbox"/>	PAR - Participation Reports	Folder	3/23/2022, 10:27 AM	⋮
<input type="checkbox"/>	STA - Statement Reports	Folder	11/5/2021, 10:28 AM	⋮
<input type="checkbox"/>	STF - Standing Facilities Reports	Folder	2/24/2022, 4:53 PM	⋮
<input type="checkbox"/>	TRN - Transaction Reports	Folder	3/17/2022, 9:57 AM	⋮

Figure 58 - 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”.

Team content / Predefined Reports / ANS - Ancillary System Reports

<input type="checkbox"/>	Name	Type	Last Accessed	
<input type="checkbox"/>	ANS01 - Overview of AS transfer orders	Report	2/9/2022, 11:44 AM	⋮
<input type="checkbox"/>	ANS02 - Daily average of AS transfers	Report	4/22/2022, 9:23 AM	⋮

Figure 59 - Welcome page - Team content - Predefined Reports - ANS - Ancillary System Reports

The normal user has the same capabilities, except from the “Create report”.

3.4.2 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.

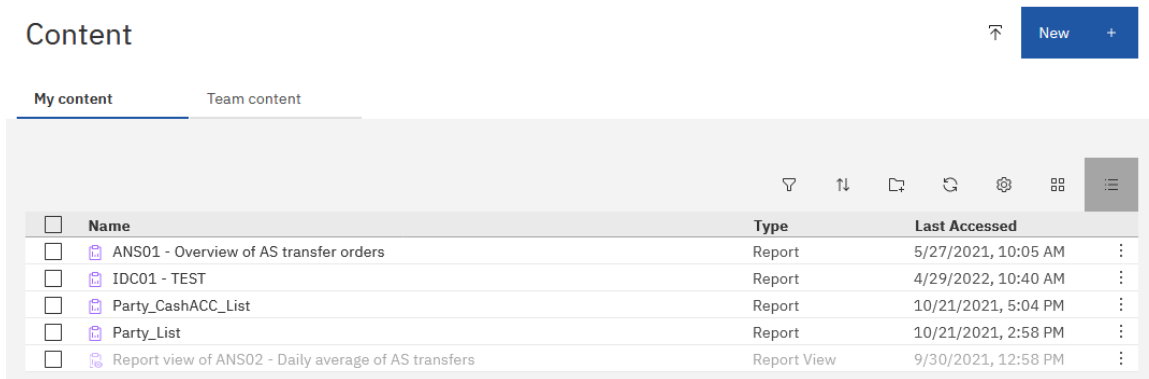




Figure 60 - Welcome page – My content

3.4.3 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 ().

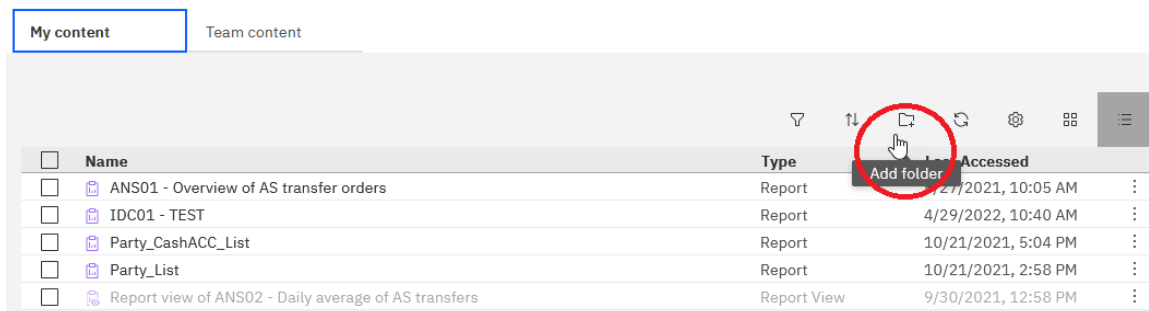


Figure 61 - Welcome page – My content – Add folder

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

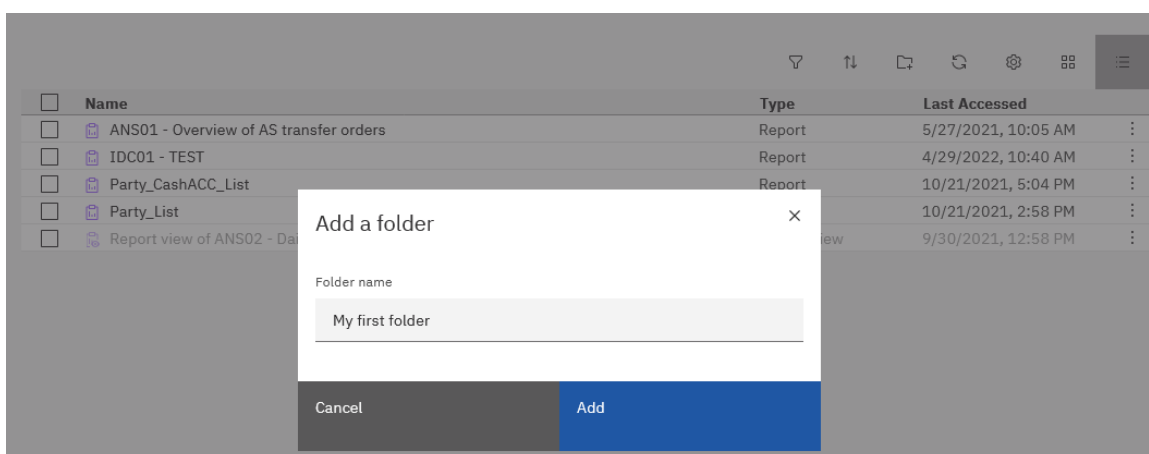


Figure 62 - Welcome page – My content – New Folder (1)

Press “Enter” and the new folder is created.

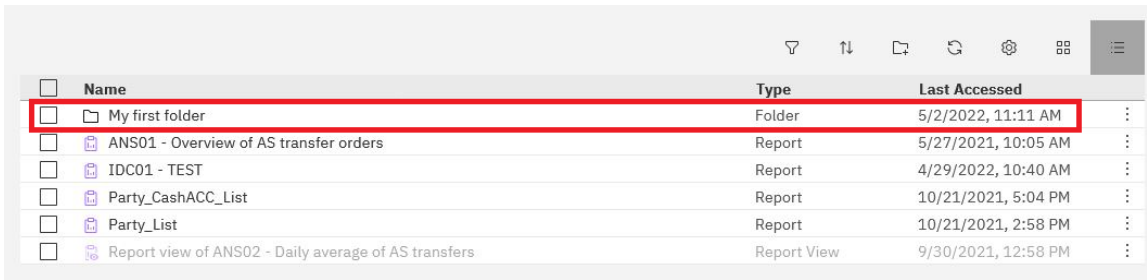


Figure 63 - Welcome page – My content– New Folder (2)

3.4.4 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.

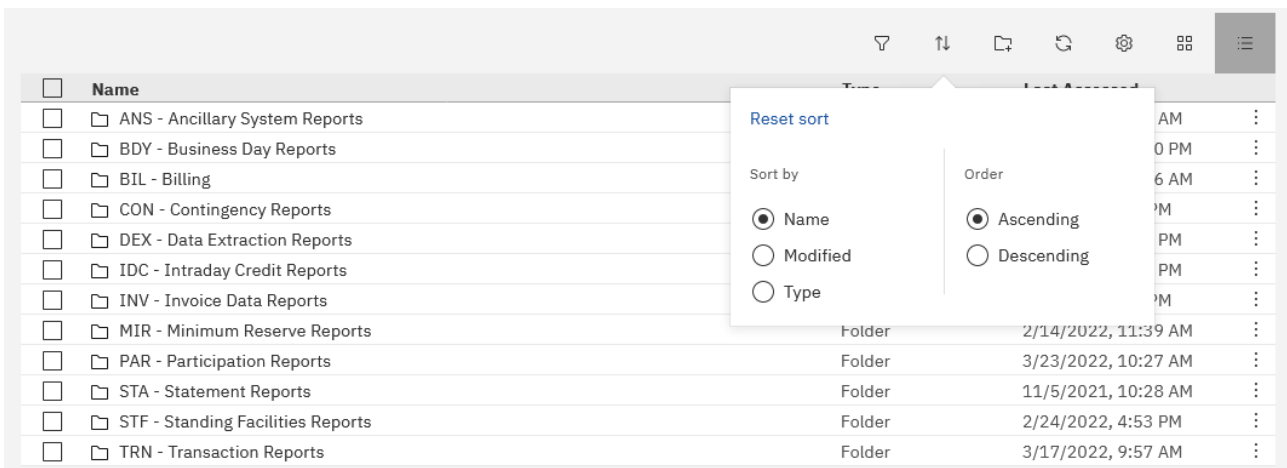


Figure 64 - Welcome page – My content – sort in ascending order

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

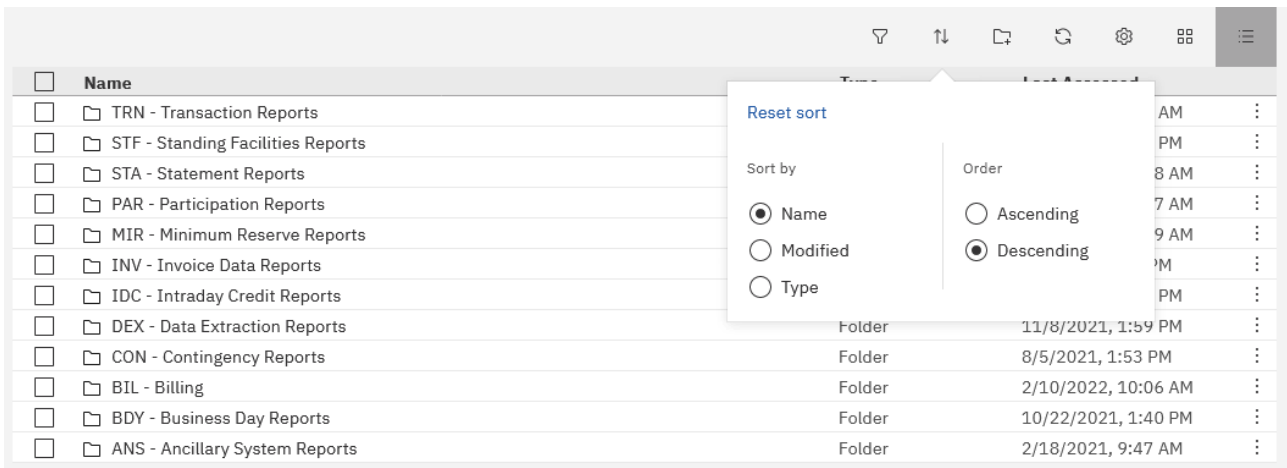


Figure 65 - Welcome page – My content – sort in descending order

3.4.5 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 or multiple keywords of the item you are looking for.

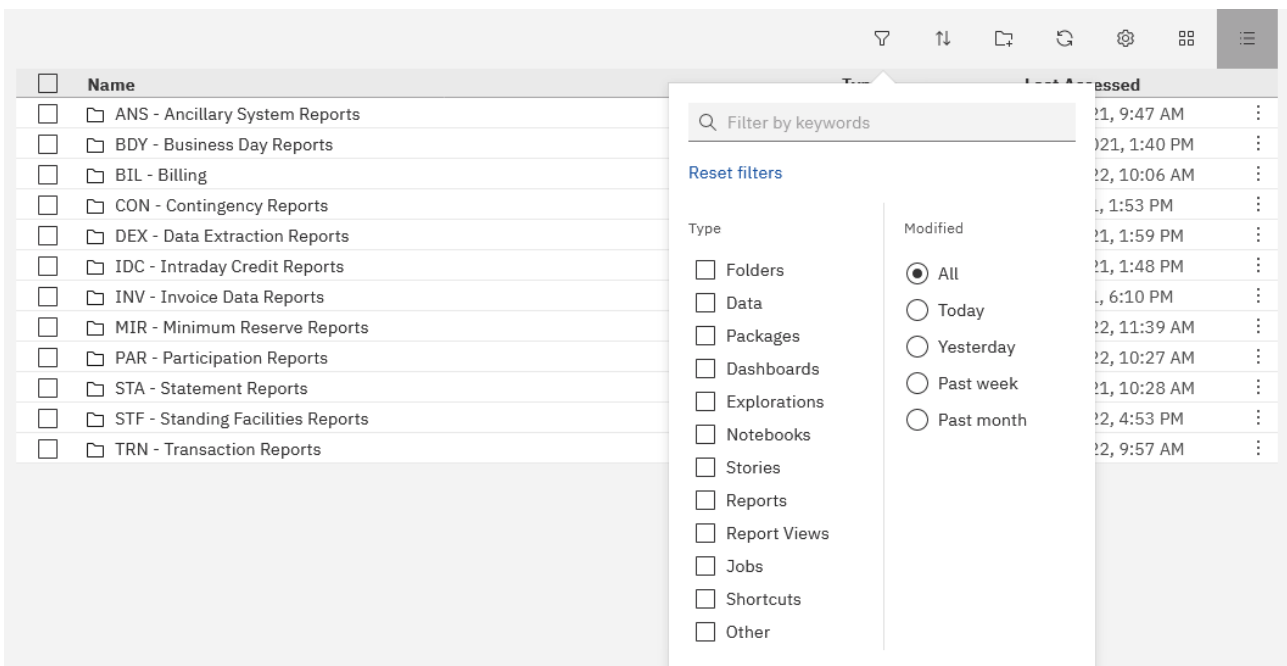


Figure 66 - Welcome page – Team content – Predefined Reports – filter options

Example

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

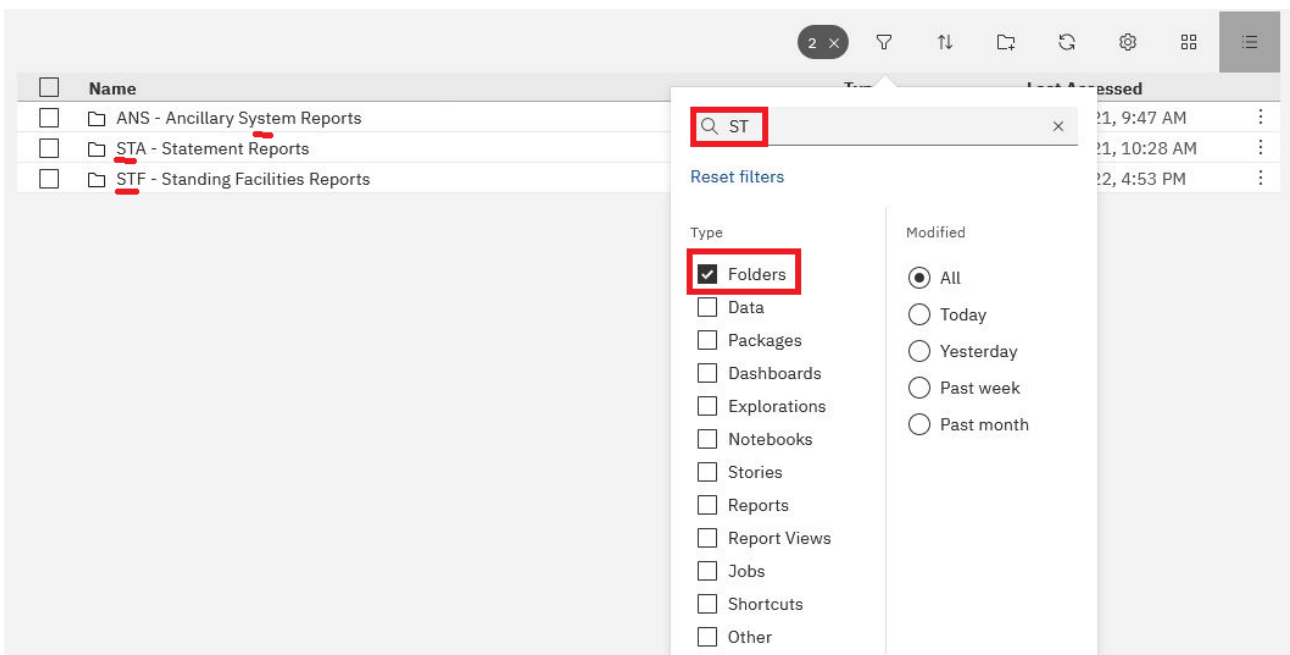


Figure 67 - Welcome page – My content – filter options – filter by folders

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](#) [▶ 73]) 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, in the CB shared folders as well:

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

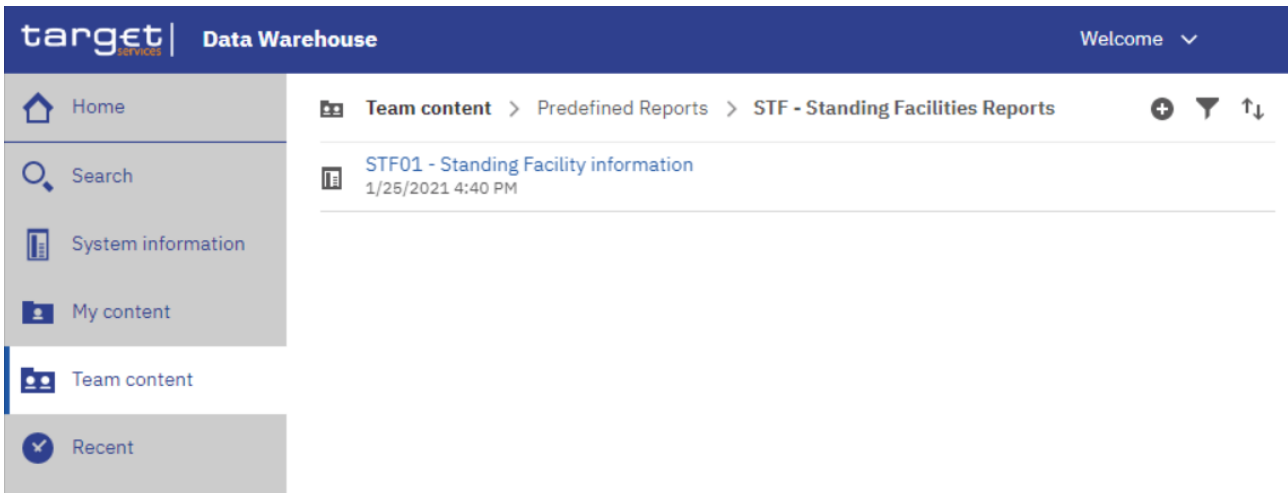


Figure 68 - Team content - Predefined Reports - STF - Standing Facilities Reports

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

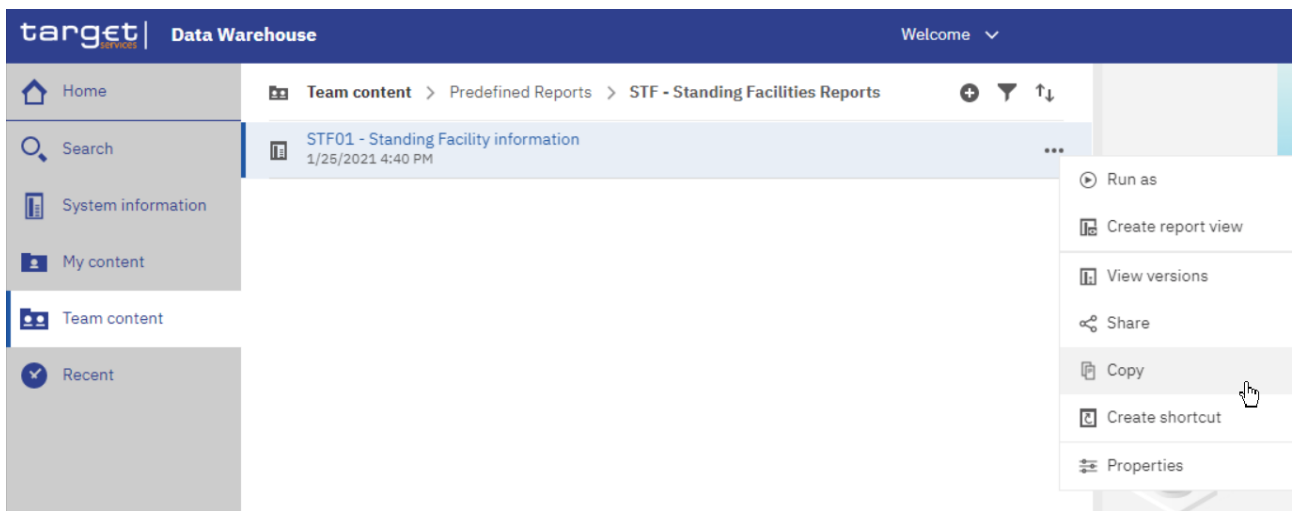


Figure 69 - Team content - Predefined Reports - STF - Standing Facilities Reports – STF01 – Standing Facility information- Copy

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

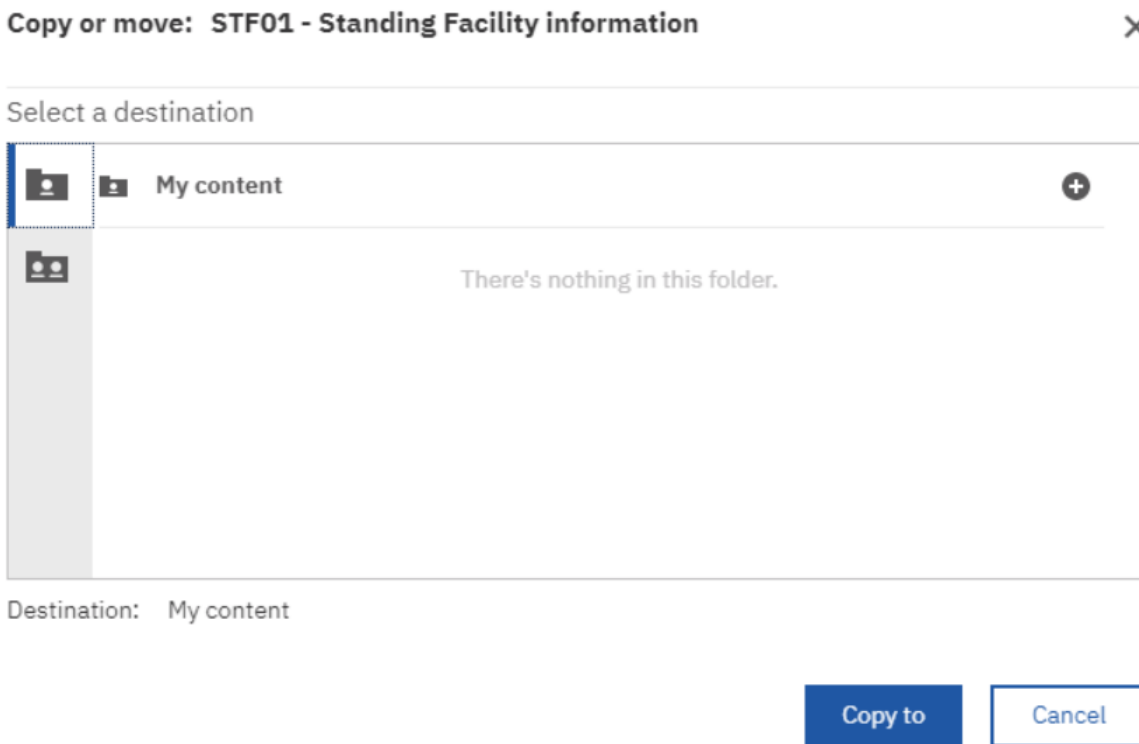


Figure 70 - Team content - Predefined Reports - STF - Standing Facilities Reports – STF0 – Standing Facility information - Copy to

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

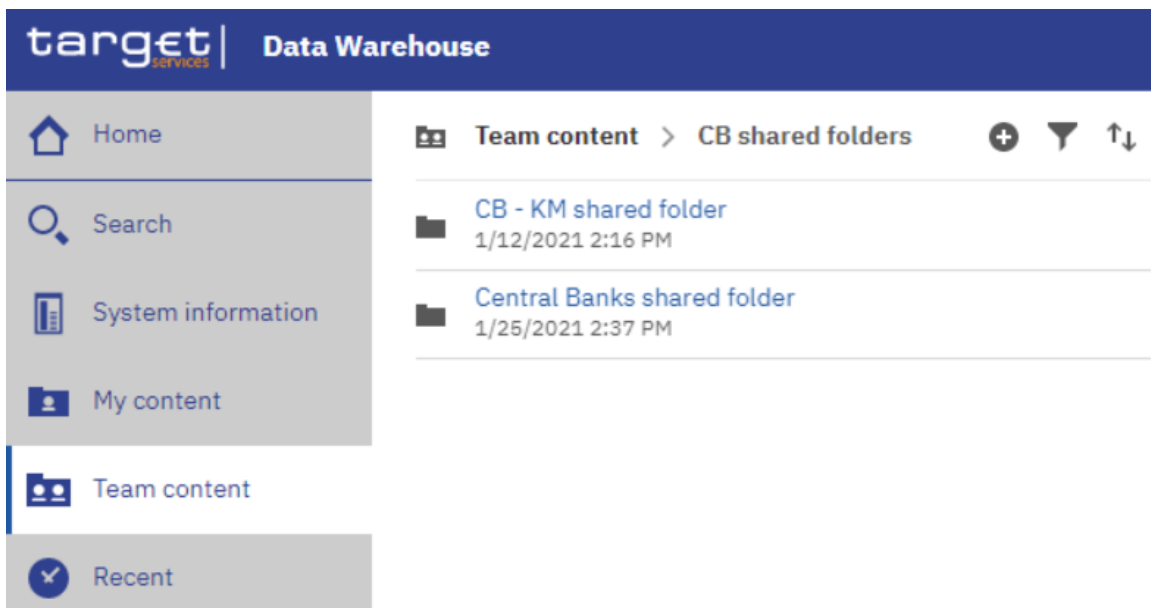


Figure 71 - Team content – CB Shared folders

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

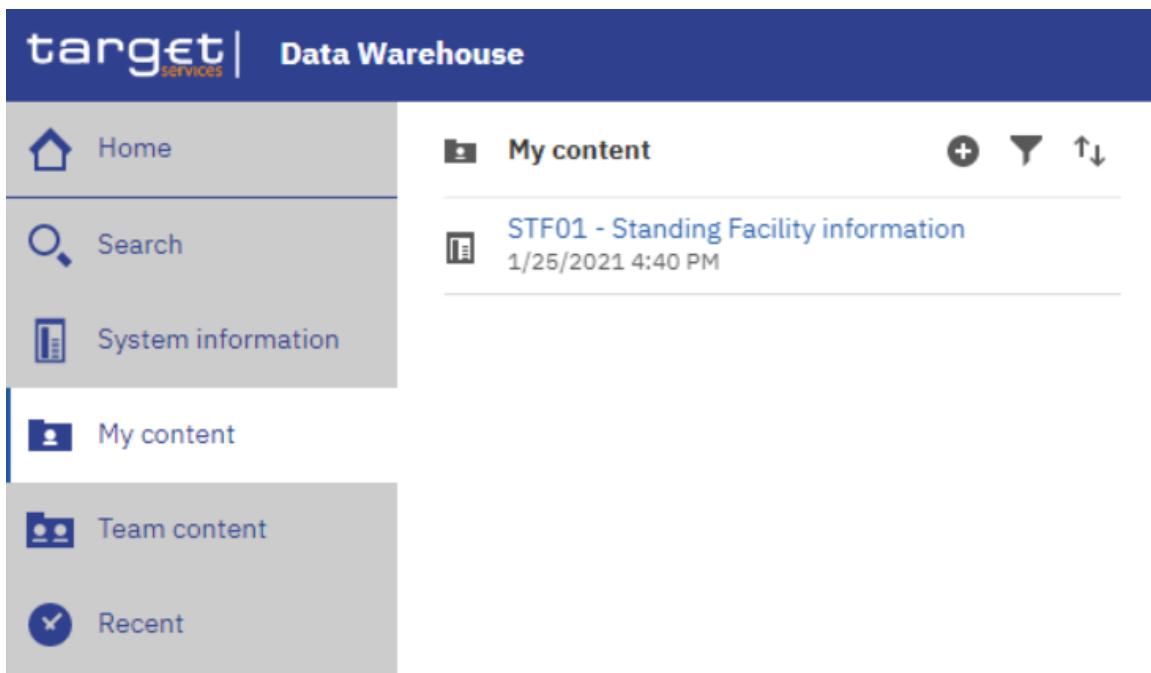



Figure 72 - My content - copied report

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](#) [▶ 102]), 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.

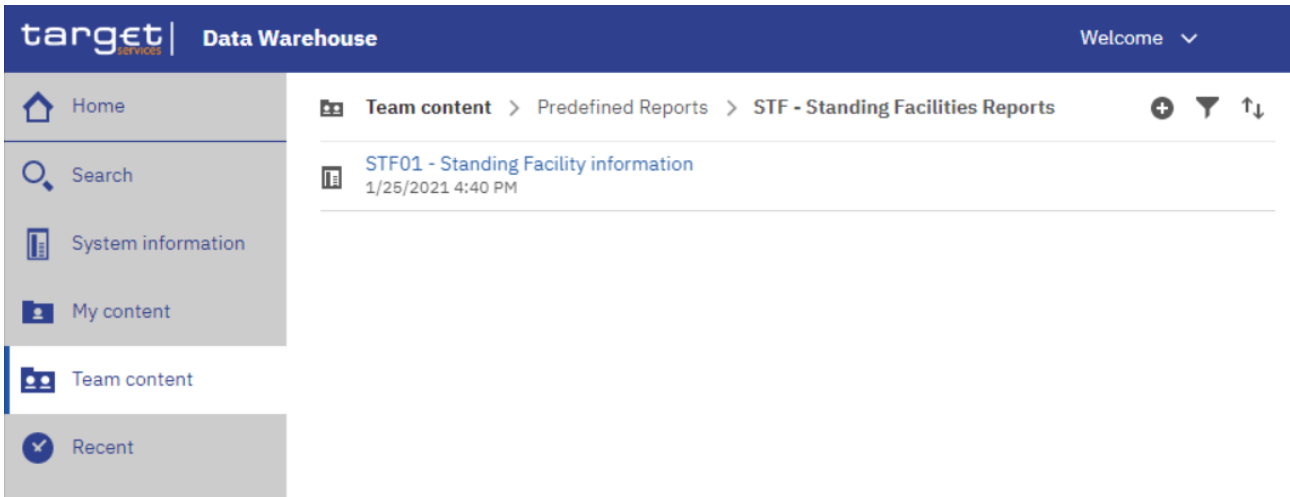



Figure 73 - Team content - Predefined Reports - STF - Standing Facilities Reports

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”.

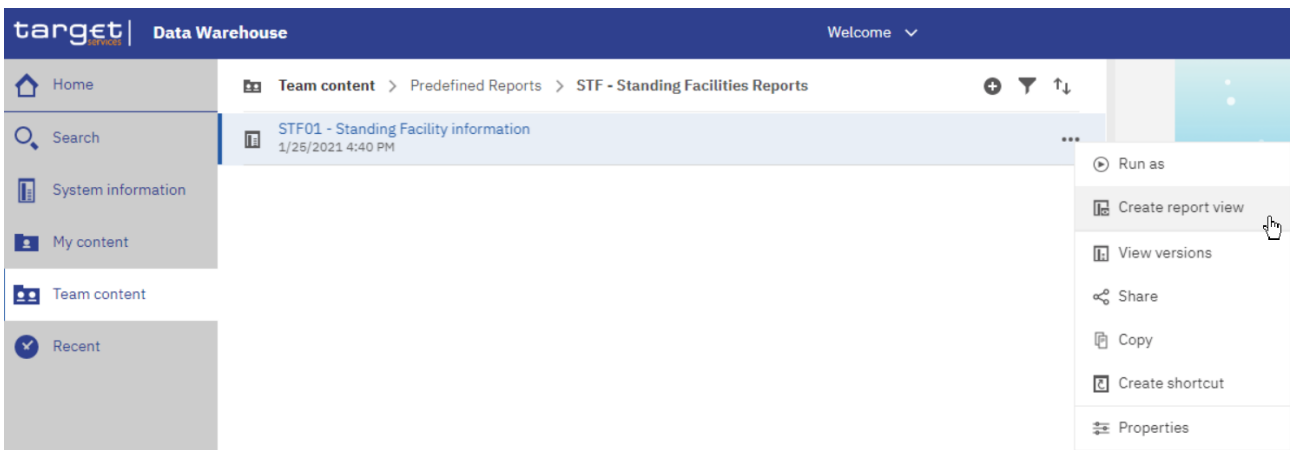


Figure 74 - Team content - Predefined Reports - STF - Standing Facilities Reports – STF01 – Standing Facility information - Create report view

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 user, you can also save the report view into the CB shared folder or CB – “**Country code**” shared folder, which can be found in the path: “**Team content**” -> “**CB Shared folders**”.

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

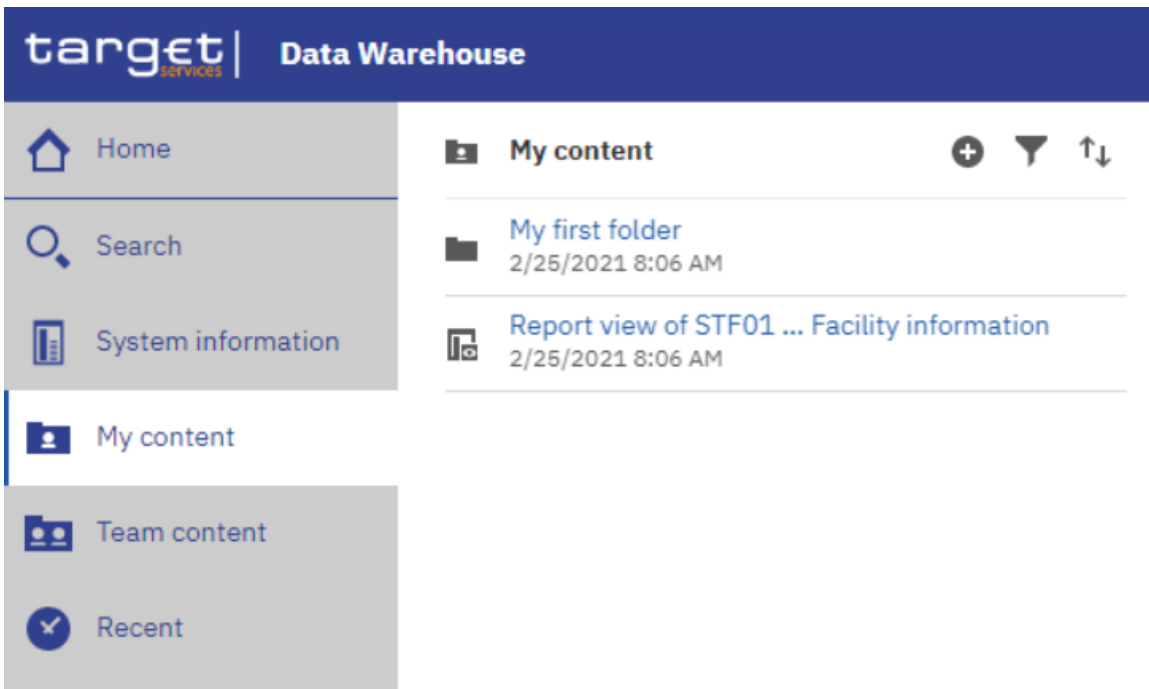


Figure 75 - My content - report view

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

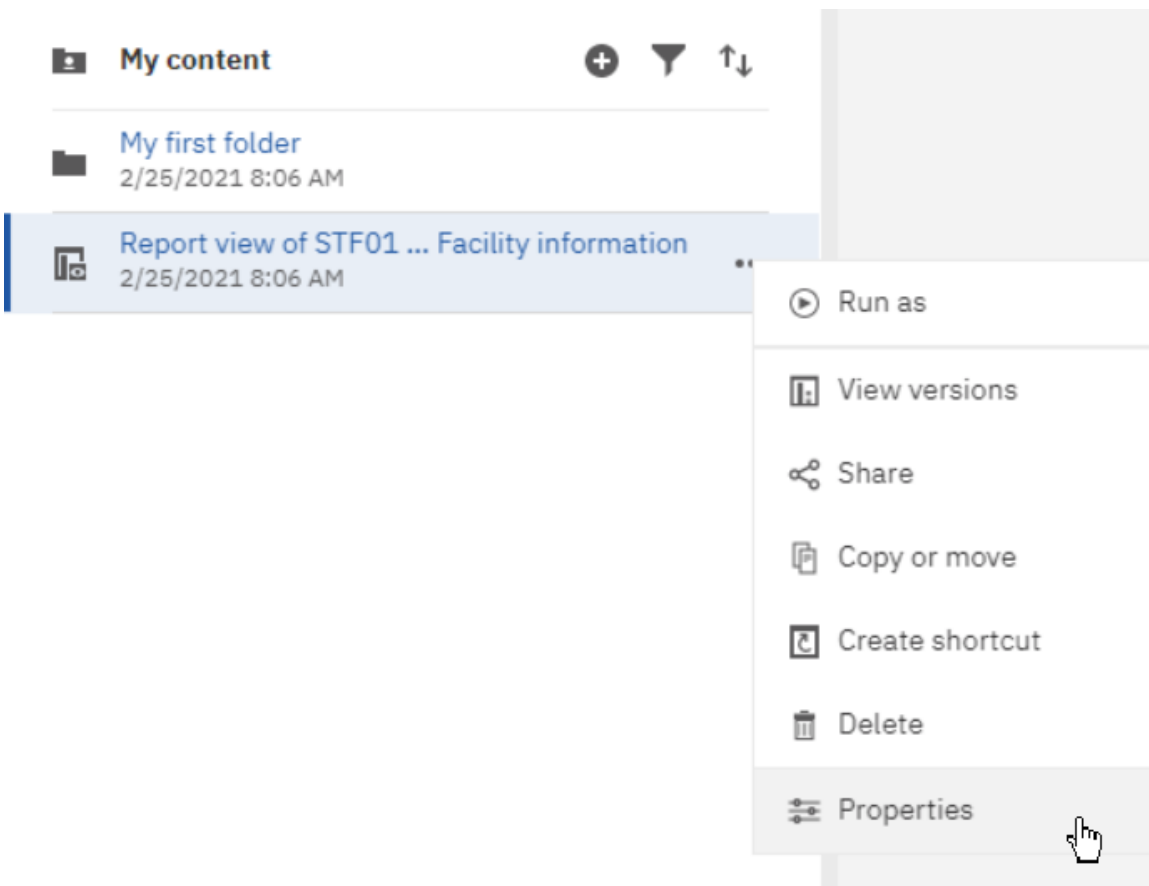


Figure 76 - My content - report view - Properties

Step 6: Scroll down to “General”.

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

The screenshot shows the 'My content' sidebar on the left with three items: 'My first folder' (7/13/2020 12:29 PM), 'Report view of STF01 - St ... Facility information' (7/14/2020 1:20 PM), and a partially visible 'Report view of ST ... Fac ... information'. The main panel displays the properties for the selected report view. The title is 'Report view of ST ... Fac ... information' and it is currently greyed out. The 'General' tab is active, showing a 'Description' field. Below this is an 'Advanced' section with a 'Disable this entry' checkbox. The 'Location' is 'My content'. The 'Search path' is 'CAMID("CognosUsers:u:cn=adv'. The 'ID' is 'iC0D8C9568A674FC5A7CF7DC4C38A3ED5'. The 'Permission' is 'Full'. The 'Languages' and 'Source report' fields have 'Set...' links. The breadcrumb at the bottom reads 'Team content > Predefined Reports > ... - Standing Facility information'.

Figure 77 - 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 78 - 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](#) [▶ 37].

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](#) [▶ 83]) 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](#) [▶ 73].

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](#) [▶ 83].

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”.

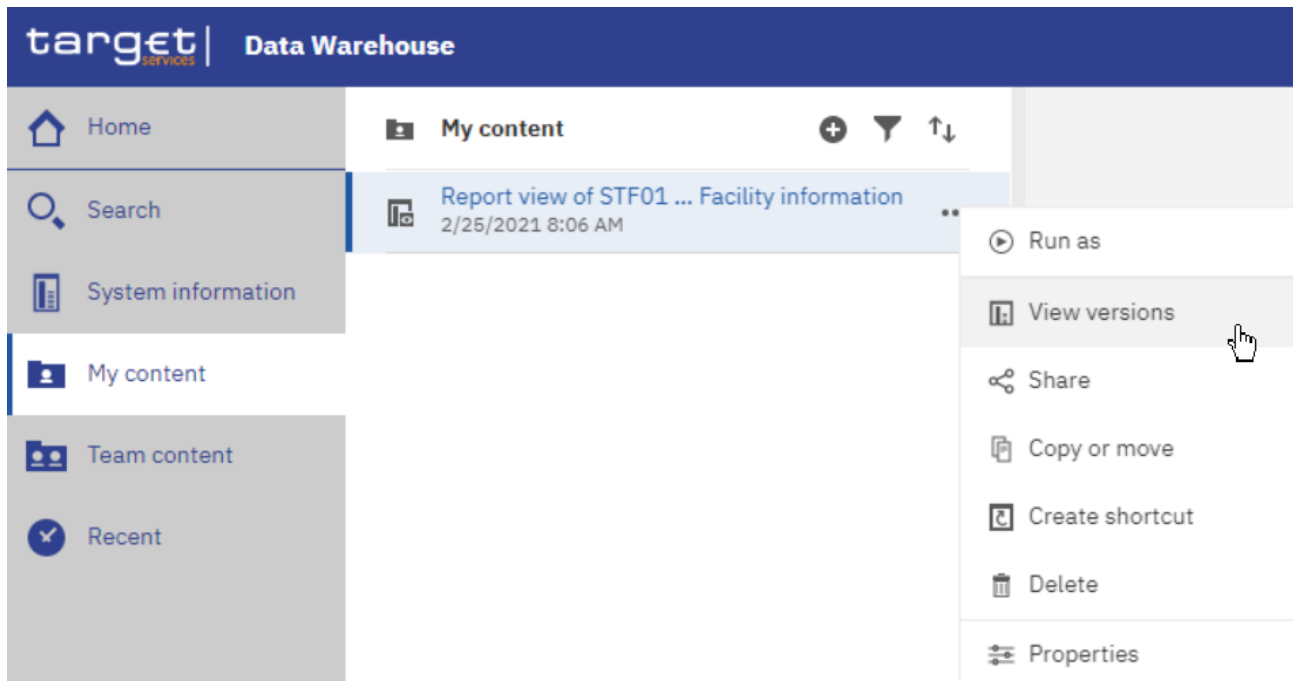


Figure 79 - My content - report view - View versions

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

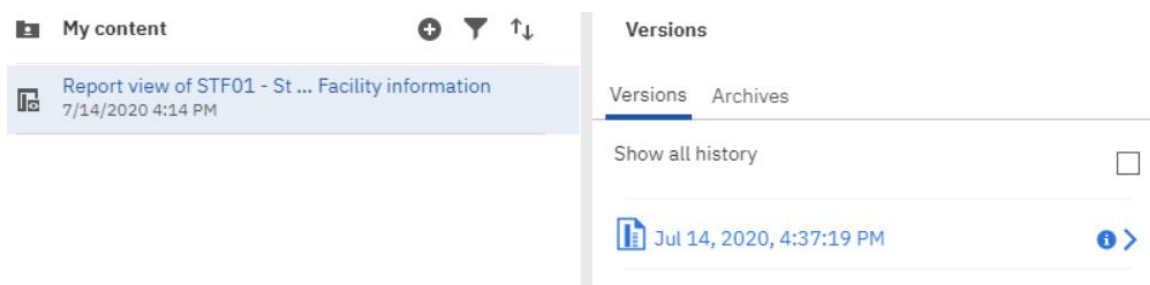


Figure 80 - My content - report view - View versions - Versions

Step 7: Click on the version.

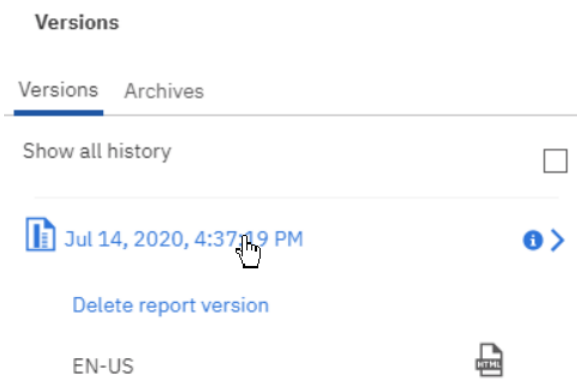



Figure 81 - My content - report view - View versions - Version - report output

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.

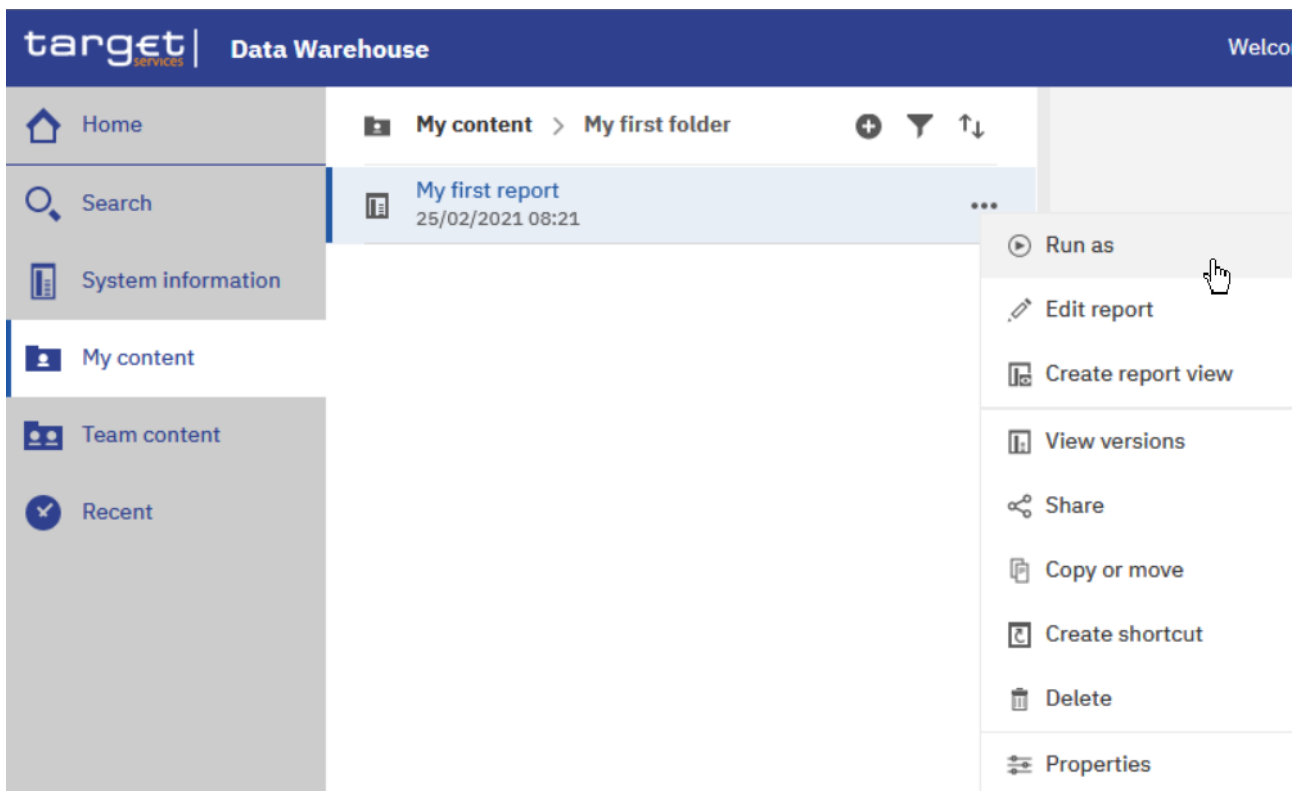



Figure 82 - Welcome page - My content - Properties

Step 3: Select the desired format.

Step 4: Enter the selection criteria of the report (see chapter [Run a report step-by-step](#) [▶ 83]).

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, 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.

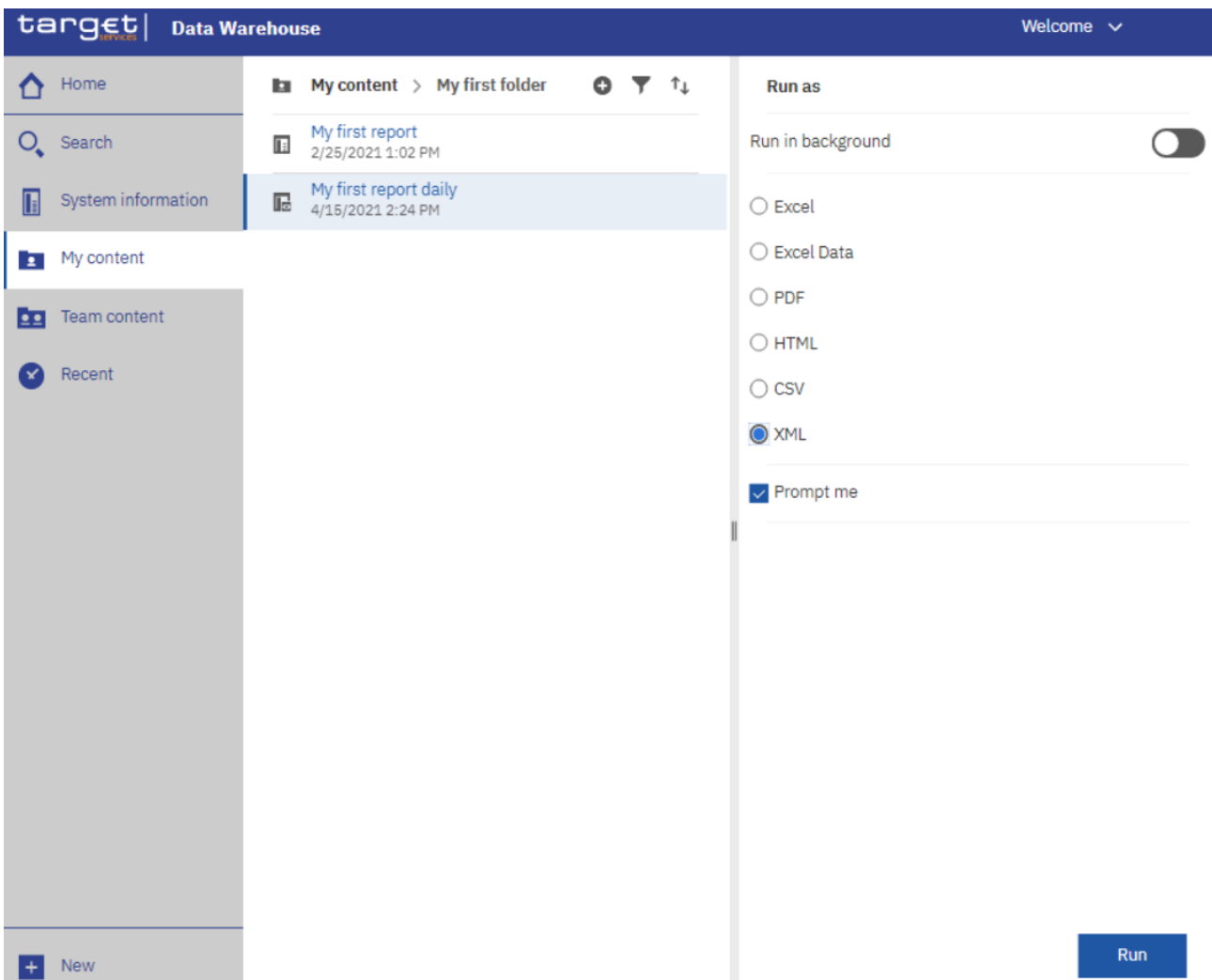


Figure 83 - Welcome page - My content – Run as XML

A pop up window appears to save the report:

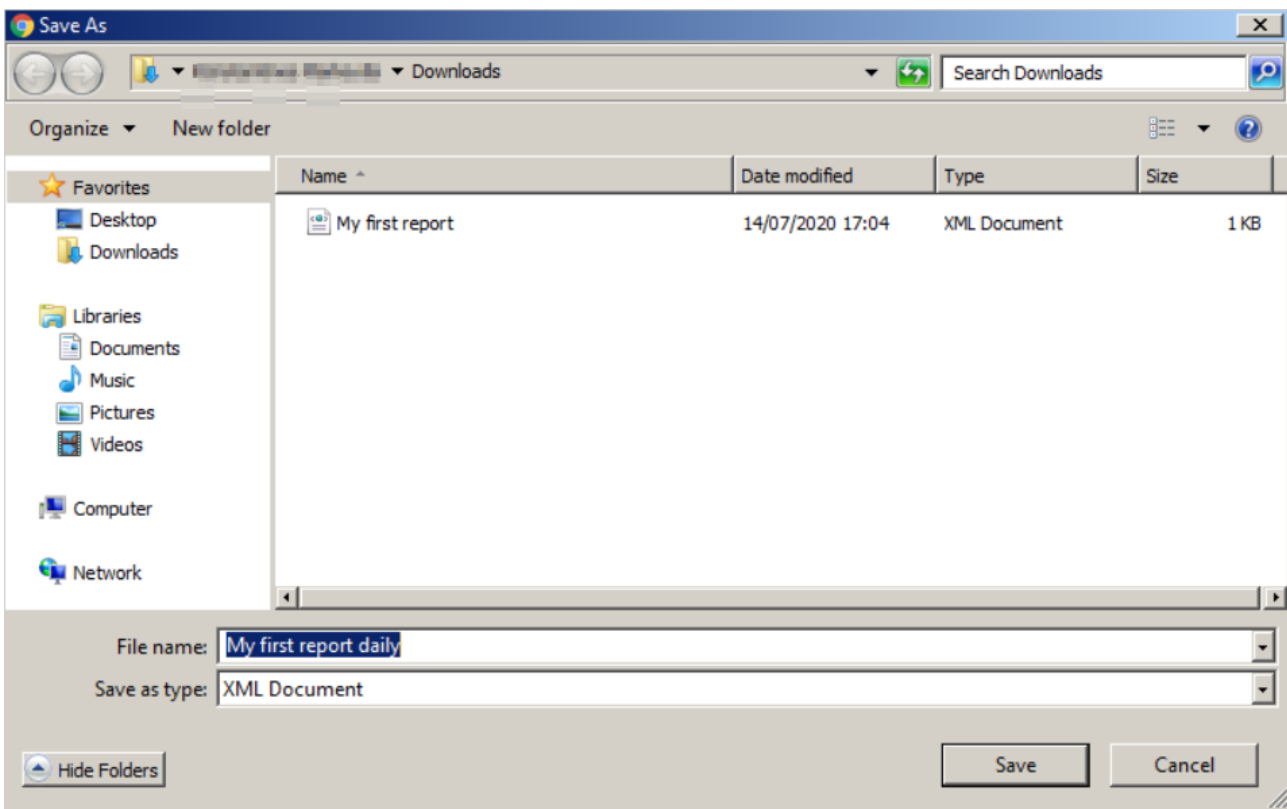


Figure 84 - Save Report

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.

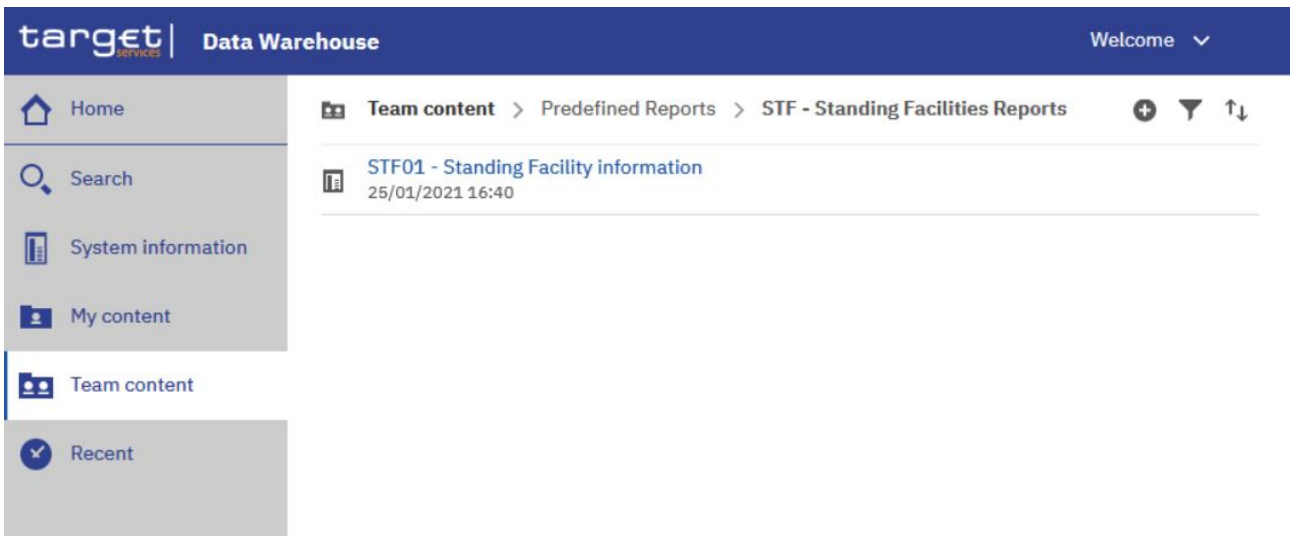


Figure 85 - Team content – Predefined Reports – STF – Standing Facilities Reports

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.

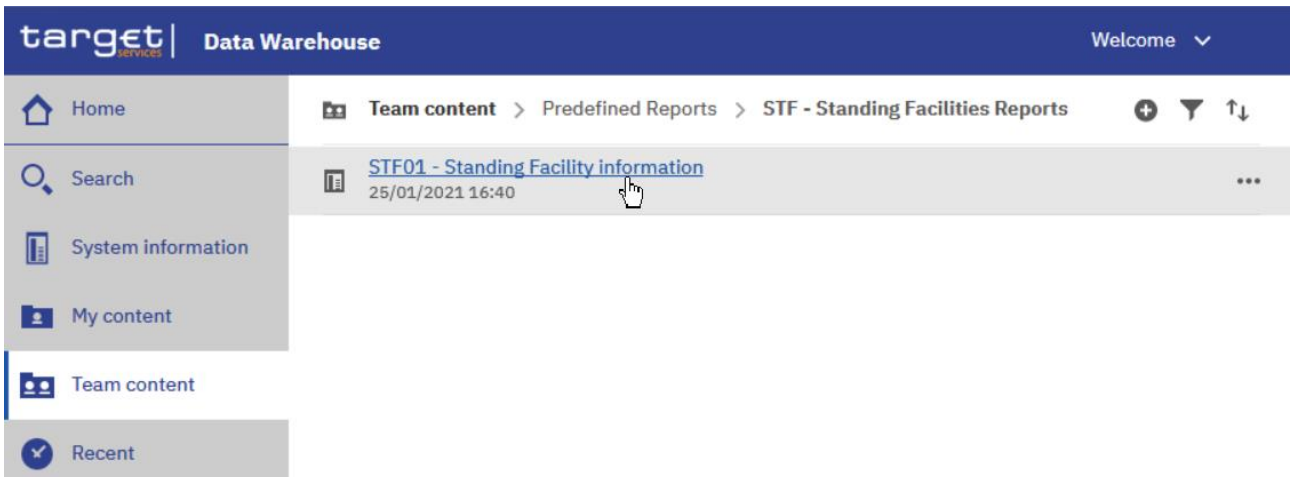


Figure 86 - Team content – Predefined reports – STF – Standing Facilities Reports


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

The screenshot shows the 'STF01 - Standing Facility information' prompt page. At the top, there is a search bar containing the keyword 'isthmus'. Below the search bar, there are date selection fields for 'Date From' (Apr 30, 2019) and 'Date To' (Jun 30, 2019). A list of search results is displayed, with one entry 'PBAAKMD0XXX - Banco de Ist' selected. The 'Party BIC' field is currently empty. At the bottom right, there are 'Cancel' and 'Finish' buttons. The interface also includes a 'Case Insensitive' checkbox which is checked.

Figure 87 - 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.

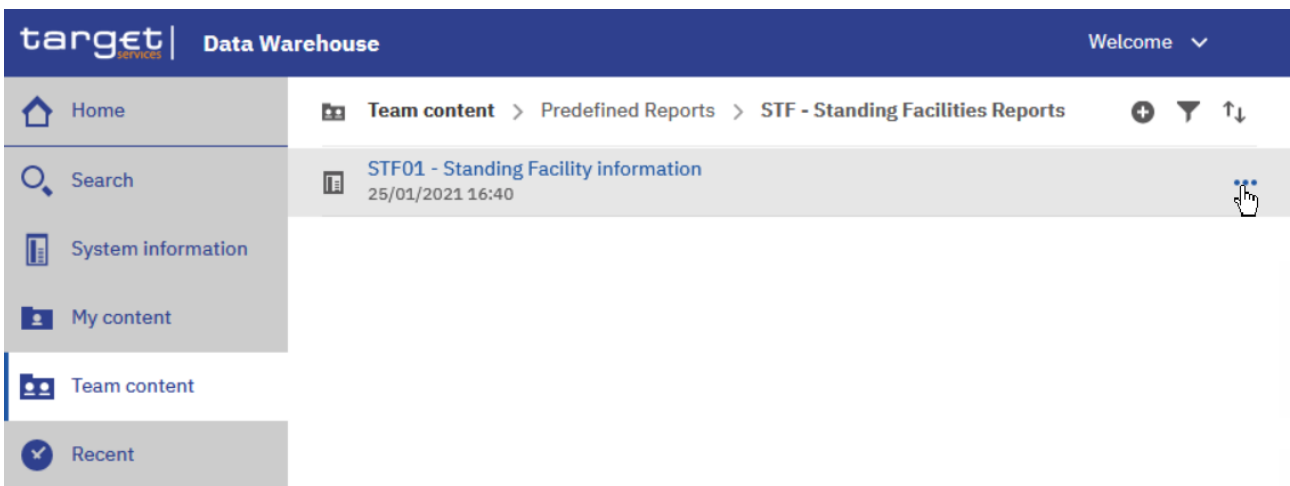


Figure 88 - Team content – Predefined Reports – STF – Standing Facilities Reports

Select “Run as” from the list.

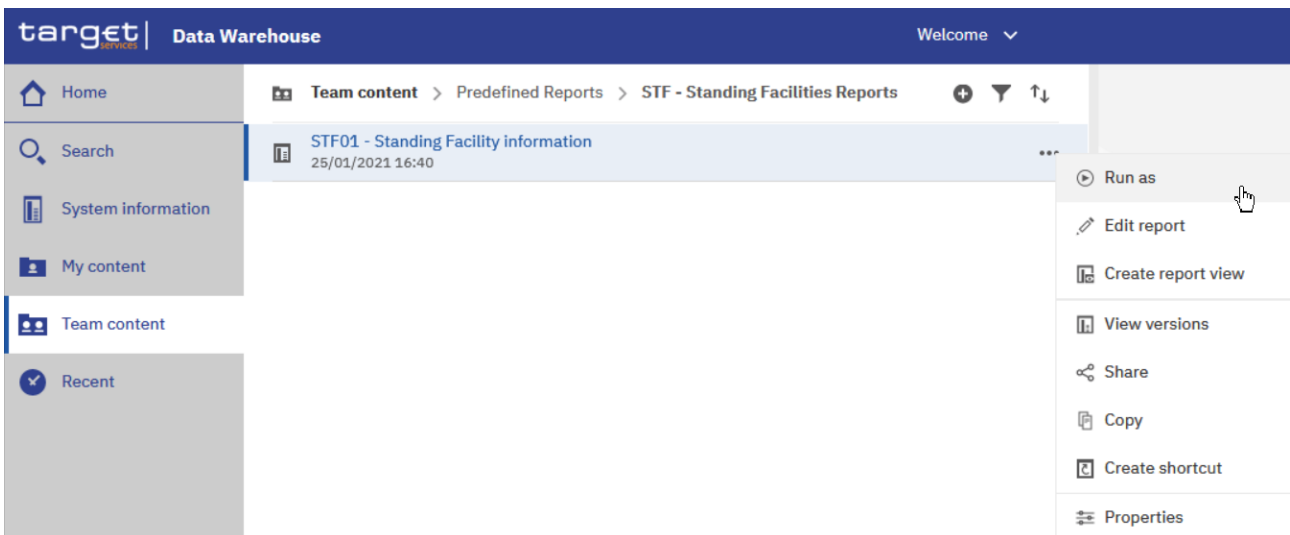


Figure 89 - Team content – Predefined Reports – STF – Standing Facilities Reports – STF01 Standing Facility information – Run as (1)

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

The screenshot shows a web interface for configuring a report. The breadcrumb navigation at the top reads: Team content > Predefined Reports > STF - Standing Facilities Reports. Below this, a report card is visible for 'STF01 - Standing Facility information' with a timestamp of '7/10/2020 2:12 PM'. To the right, a 'Run as' configuration panel is open, featuring a 'Run in background' toggle switch (currently off), a list of output formats (Excel, Excel Data, PDF, HTML, CSV, XML) with radio buttons, and a 'Prompt me' checkbox (checked). A blue 'Run' button is located at the bottom right of the configuration panel.

Figure 90 - 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.

The screenshot shows the 'STF01 - Standing Facility information' prompt page. At the top, there is a navigation bar with the Target Services logo and several icons. Below this, a sidebar on the left contains a home icon and a search icon. The main content area features a search bar with the text 'isthmus' and a magnifying glass icon. To the right of the search bar are two date selection fields: 'Date From: Apr 30, 2019' and 'Date To: Jun 30, 2019', each with a calendar icon. Below the search bar is a list of search results. The first result is 'PBAAKMD0XXX - Banco de Ist', which is selected with a blue checkmark. Above this result is a 'Select all' option with an unchecked checkbox. To the right of the search results is a 'Choices' panel containing the same result 'PBAAKMD0XXX - Banco de Isthmus'. Below the search results is a dropdown menu set to 'Contains any of these keywords' and a checked checkbox for 'Case Insensitive'. At the bottom right, there are 'Cancel' and 'Finish' buttons. The 'Finish' button is highlighted in blue.

Figure 91 - Standing Facilities Reports – STF01 Standing Facility information - prompt page

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

target | STF01 - Standing Facility information

2021-04-27
14:42:53
DEV -
Development and integration

CBXXXXMDDXXX - Central Bank of Fiction

Filters: Date From : 2019-04-30 Date To : 2019-06-30
Party BIC : PBAAKMDXXX - Banco de Isthmus

Marginal Lending
Responsible CB : Central Bank of Fiction
Currency : EUR

Use of marginal lending				
BIC	Date	Capital set-up	Capital refund	Interests
PBAAKMDXXX	30.04.2019	2,341,231.05	6,346,801.54	-1,602.54
Party Name: Banco de Isthmus	07.05.2019	19,230.48	0.00	0.00
MFI Code: 10002	14.05.2019	19,230.48	0.00	0.00
Account BIC: PBAAKMCD01X	21.05.2019	19,230.48	0.00	0.00
	28.05.2019	19,230.48	0.00	0.00
	30.05.2019	2,862,000.71	7,822,801.91	-1,602.54
	04.06.2019	19,230.50	0.00	0.00
	11.06.2019	19,230.50	0.00	0.00
	18.06.2019	19,230.50	0.00	0.00
	25.06.2019	19,230.50	0.00	0.00
	30.06.2019	3,402,000.85	9,298,802.27	-1,602.54
Total		8,759,076.53	23,468,405.72	-4,807.62
Total all Parties		8,759,076.53	23,468,405.72	-4,807.62

Figure 92 - 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”.

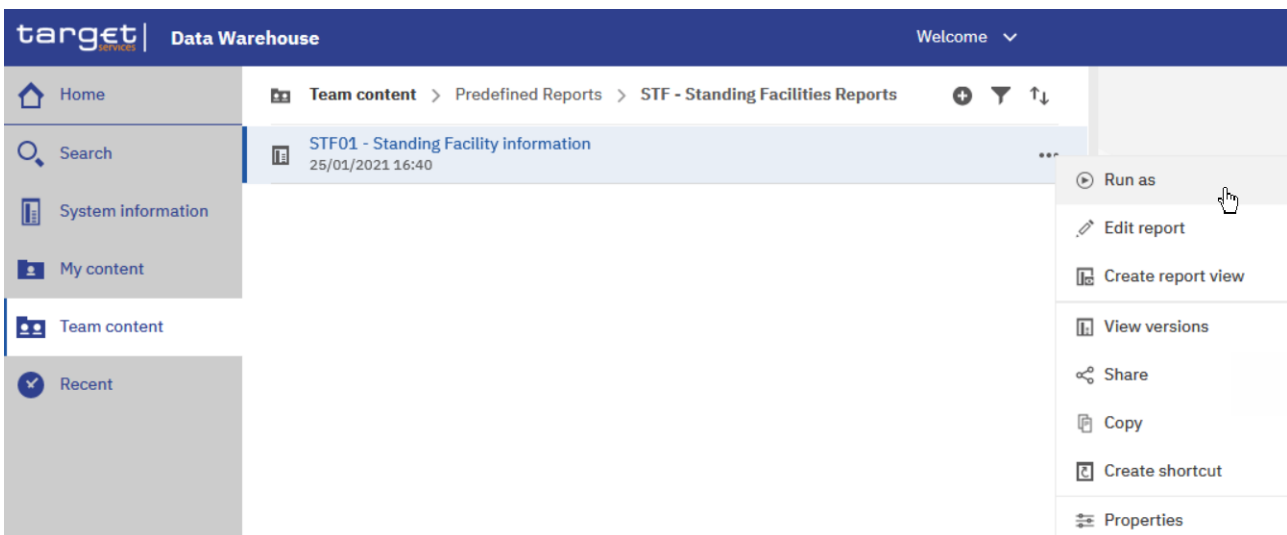


Figure 93 - Team content – Predefined Reports – STF – Standing Facilities Reports – STF01 Standing Facility information – Run as

Here you can see the “Run in background” option on top of the list.

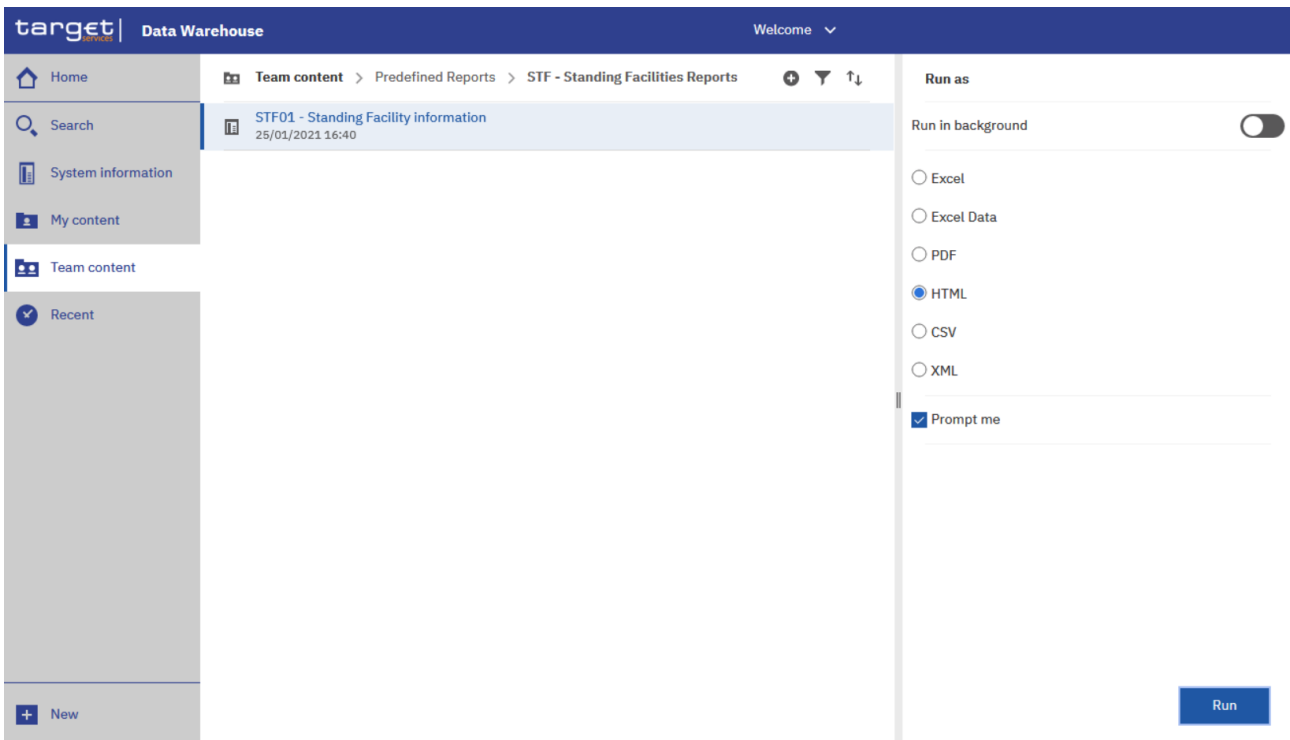


Figure 94 - Team content – Predefined Reports – STF – Standing Facilities Reports – STF01 Standing Facility information – Run as – Run in background

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:

Run as

Run in background

Excel

Excel Data

PDF

HTML

CSV

XML

Prompt me

You will be prompted for input before the report runs in background.

Advanced

Now Later

Languages >

Delivery >

Run

Figure 95 - 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.

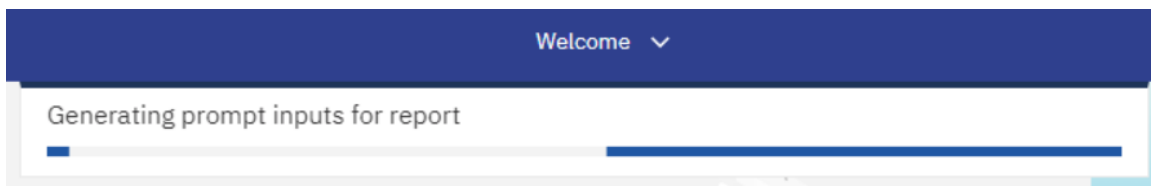


Figure 96 - Run as – Run in background - Advanced

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

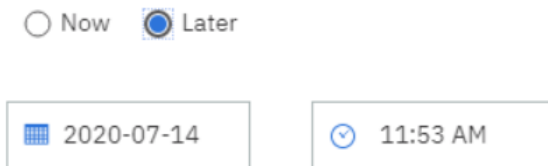


Figure 97 - Run as – Run in background – Advanced – Execution time – Later

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](#) [▶ 102] 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

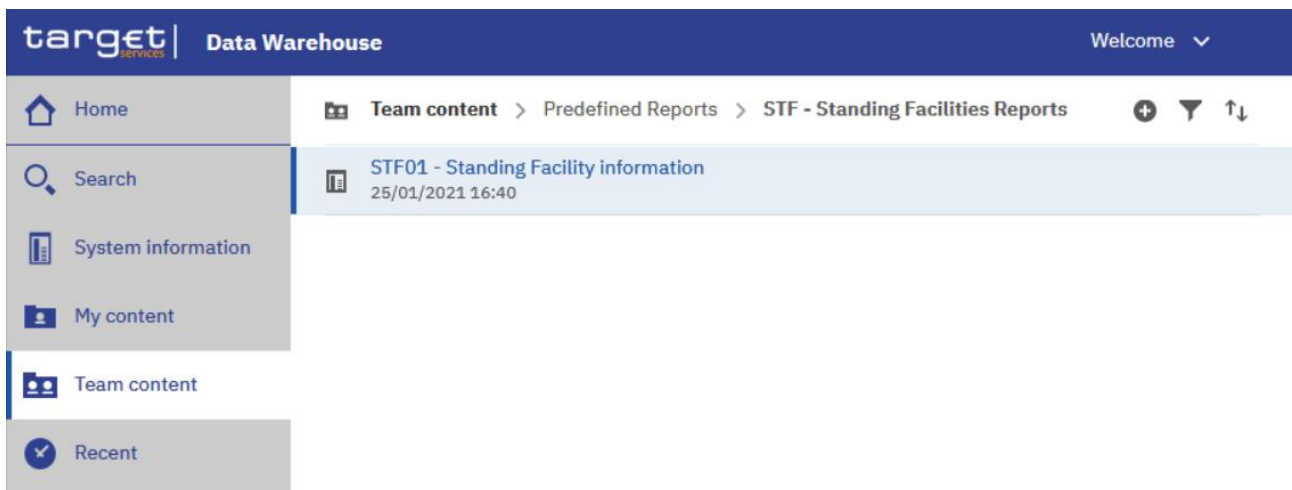




Figure 98 - Team content – Predefined Reports – STF – Standing Facilities Reports

Step 2: Click on the “More” icon () at the right of the report and select “Run as”  .

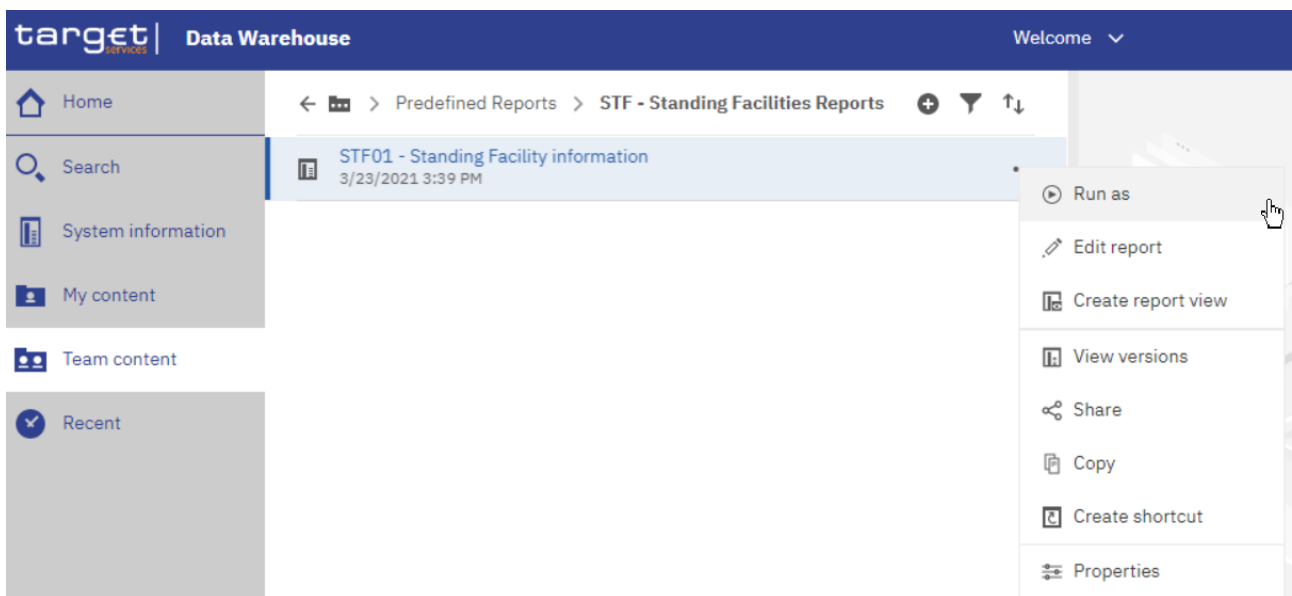


Figure 99 - Team content – Predefined Reports – STF – Standing Facilities Reports – Run as

Step 3: Select “Run in background”

Run as

Run in background

Excel

Excel Data

PDF

HTML

CSV

XML

Prompt me

You will be prompted for input before the report runs in background.

Advanced ▼

Run

Figure 100 - 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

Advanced ▲

Now Later

Languages ▶

Delivery ▶

Figure 101 - 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’

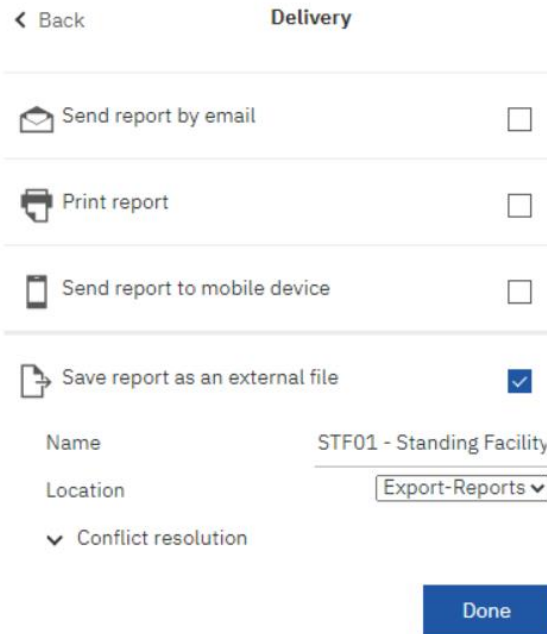


Figure 102 - Team content – Predefined Reports – STF – Standing Facilities Reports – Run as – Run in background – Advanced – Save report as an external file

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](#) [▶ 71].

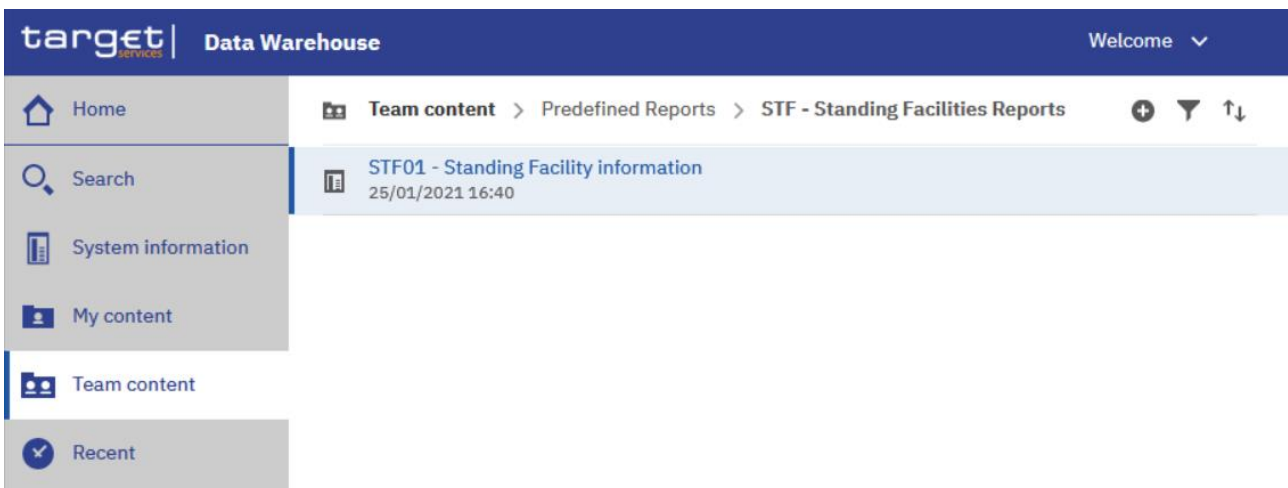



Figure 103 - Team content - Predefined Reports - Standing Facilities Reports - STF01 Standing Facility information

Step 2 Click on the “More” icon () at the right of the report and select “Copy”.

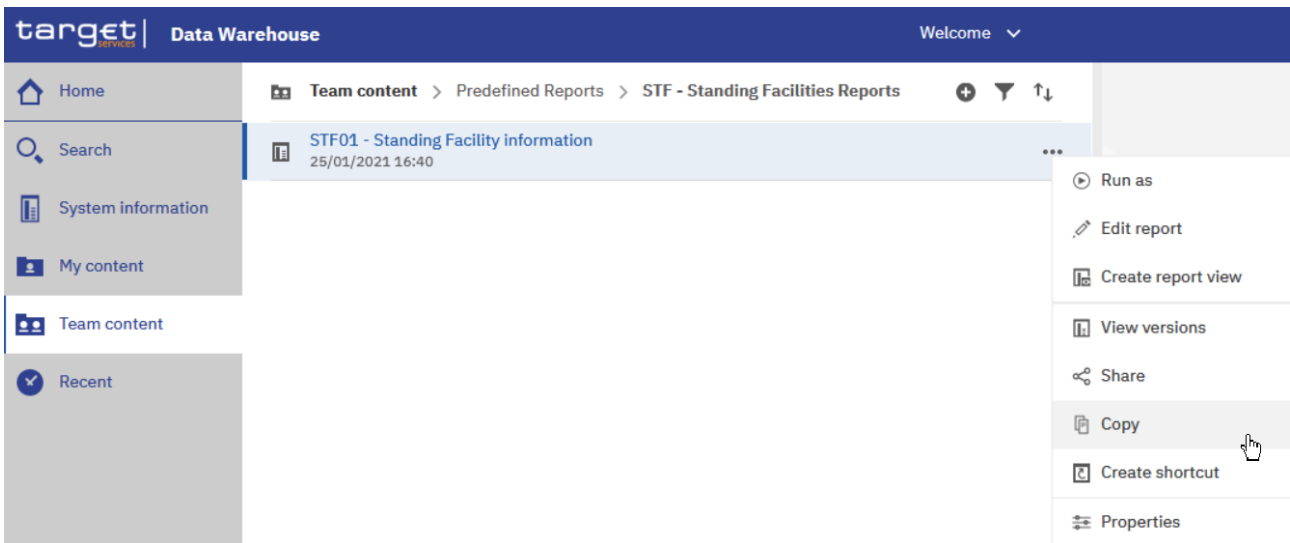


Figure 104 - STF01 Standing Facility information - More options

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”.

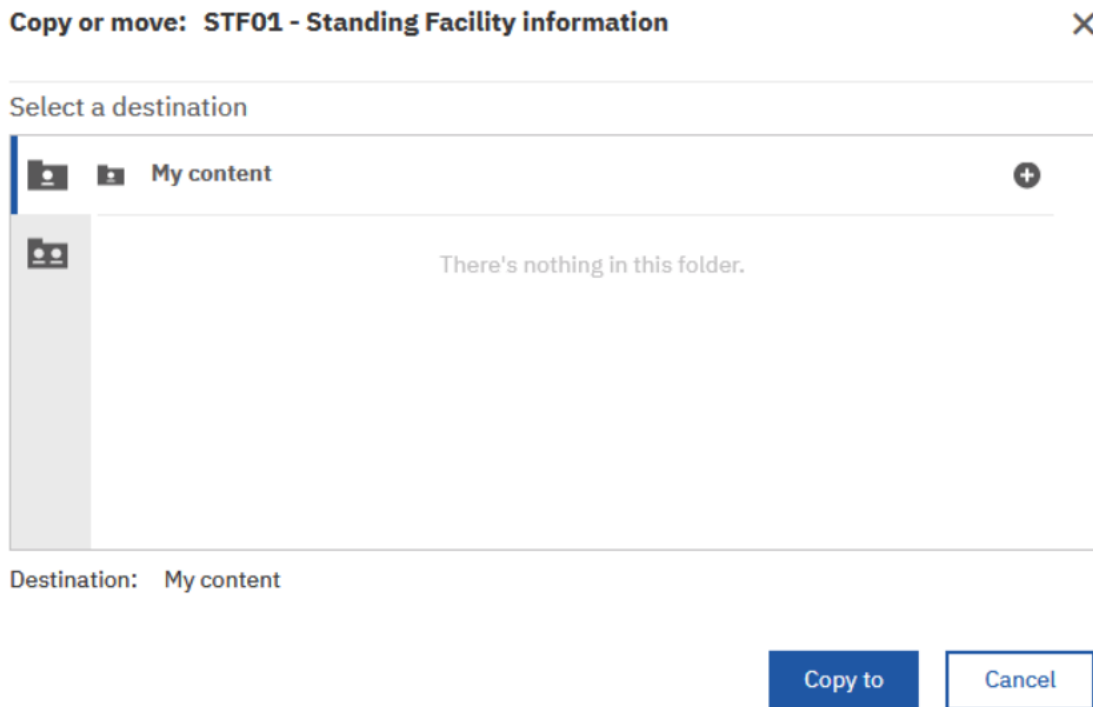


Figure 105 - STF01 Standing Facility information - Copy

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

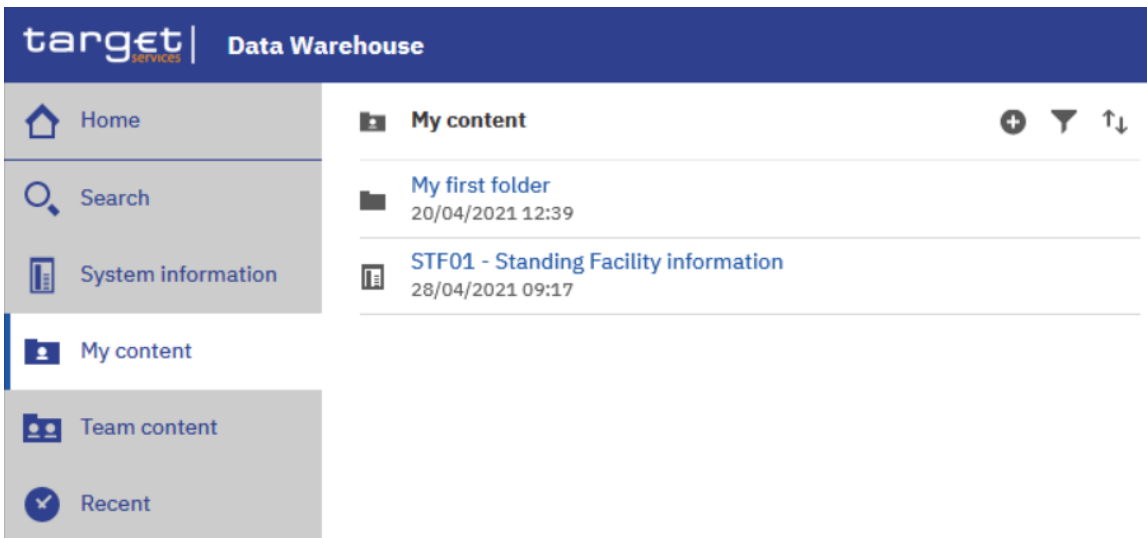


Figure 106 - STF01 Standing Facility information – Copy to My content

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

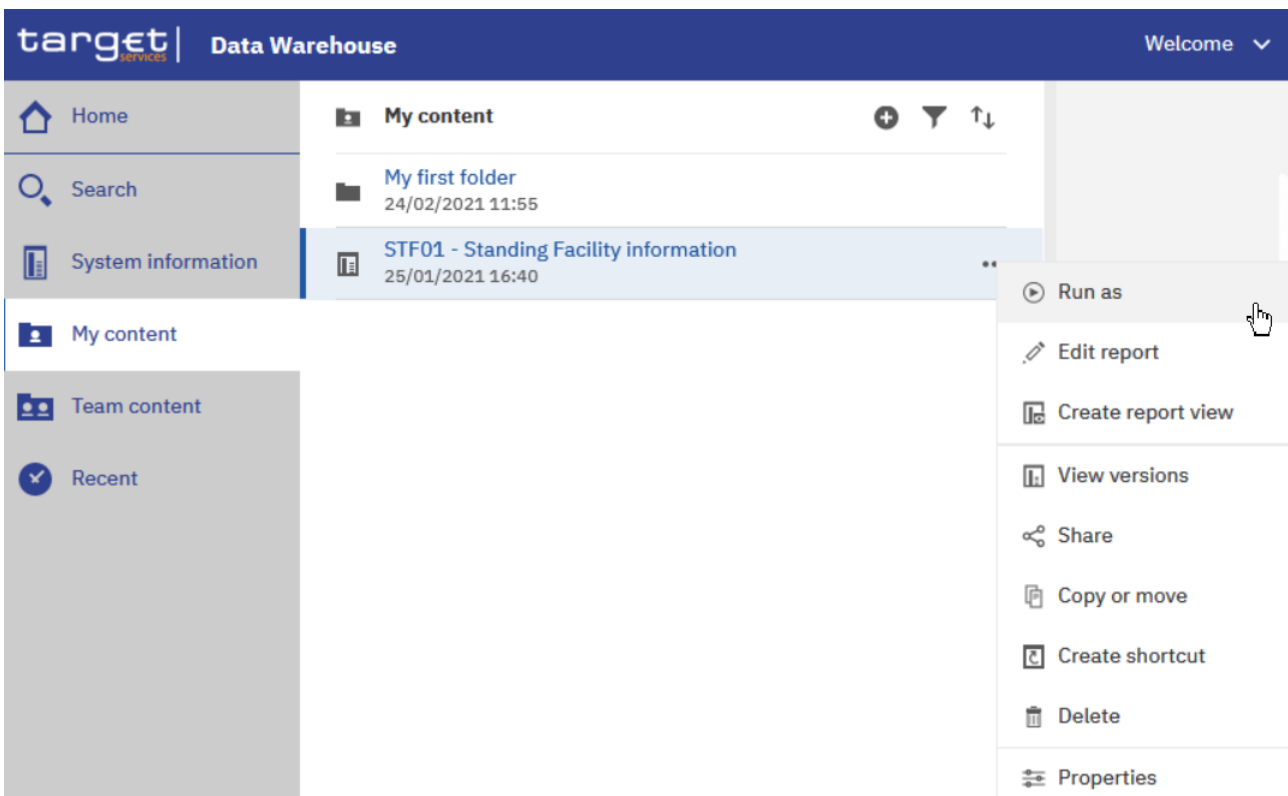


Figure 107 - My content - STF01 Standing Facility information - Run as

Step 6: Perform the same action as explained in chapter [Run a report step-by-step](#) [▶ 83] for “Run in background”.

Check the “Run in background” button:

Run as

Run in background

Excel

Excel Data

PDF

HTML

CSV

XML

Prompt me

You will be prompted for input before the report runs in background.

Advanced

Figure 108 - 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.

Run as

Run in background

Excel

Excel Data

PDF

HTML

CSV

XML

Prompt me

You will be prompted for input before the report runs in background.

Advanced

Figure 109 - 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.

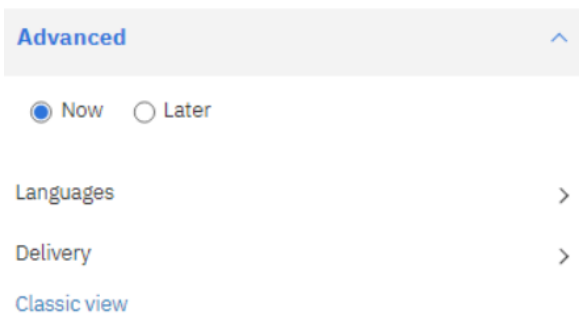


Figure 110 - My content - STF01 Standing Facility information - Run as – Advanced – Now or Later

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

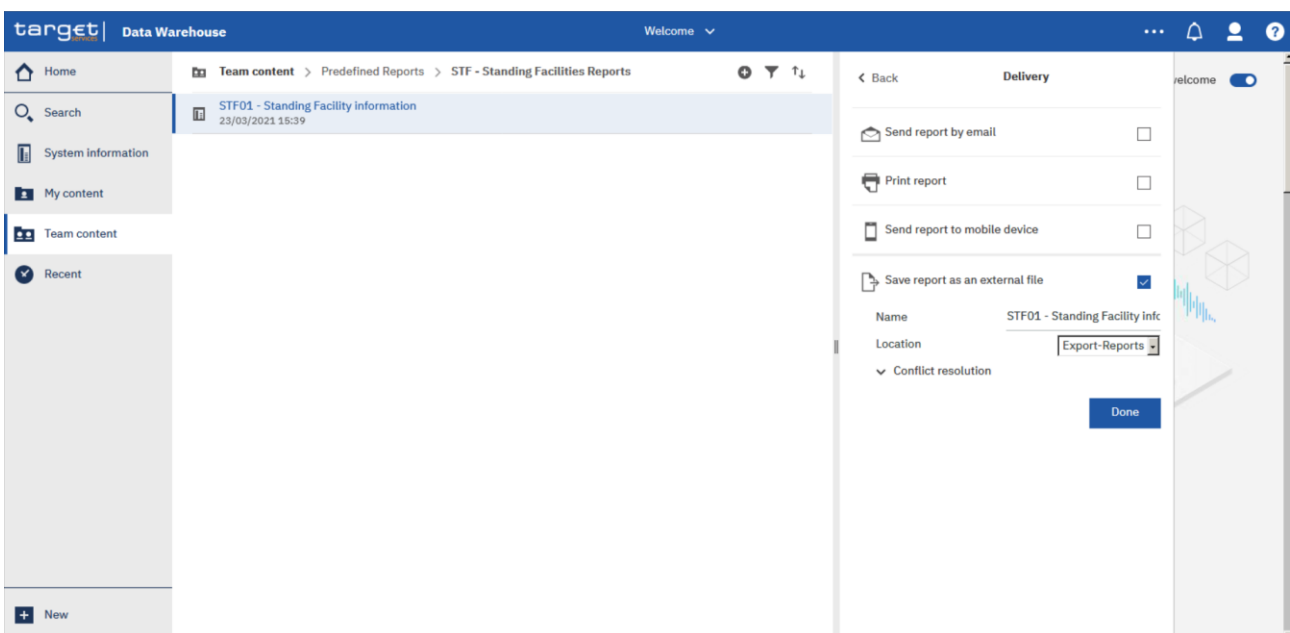





Figure 111 - My content - STF01 Standing Facility information - Run in background - Advanced Delivery


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

< Back **Delivery**

 Send report by email

 Print report

 Send report to mobile device

 Save report as an external file

Name STF01 - Standing Facility info

Location

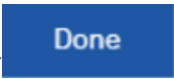
▼ Conflict resolution

Done

Figure 112 - 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 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 send 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 ().

Step 12: Click on the “**Run**” button.

Run as

Run in background

Excel

Excel Data

PDF

HTML

CSV

XML

Prompt me

You will be prompted for input before the report runs in background.

Advanced ^

Now Later

Languages >

Delivery >

[Classic view](#)

Run

Figure 113 - My content - STF01 Standing Facility information - Run in background - Advanced Delivery – Run the report

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

STF01 - Standing Facility information

Date From : * Date To : *

Keywords:

Party BIC :

Select all

PBAAKMD0XXX - Banco de Ist

→

←

PBAAKMD0XXX - Banco de Isthmus

Contains any of these keywords

Case Insensitive

Figure 114 - 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.

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](#) [▶ 78]).

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**”.

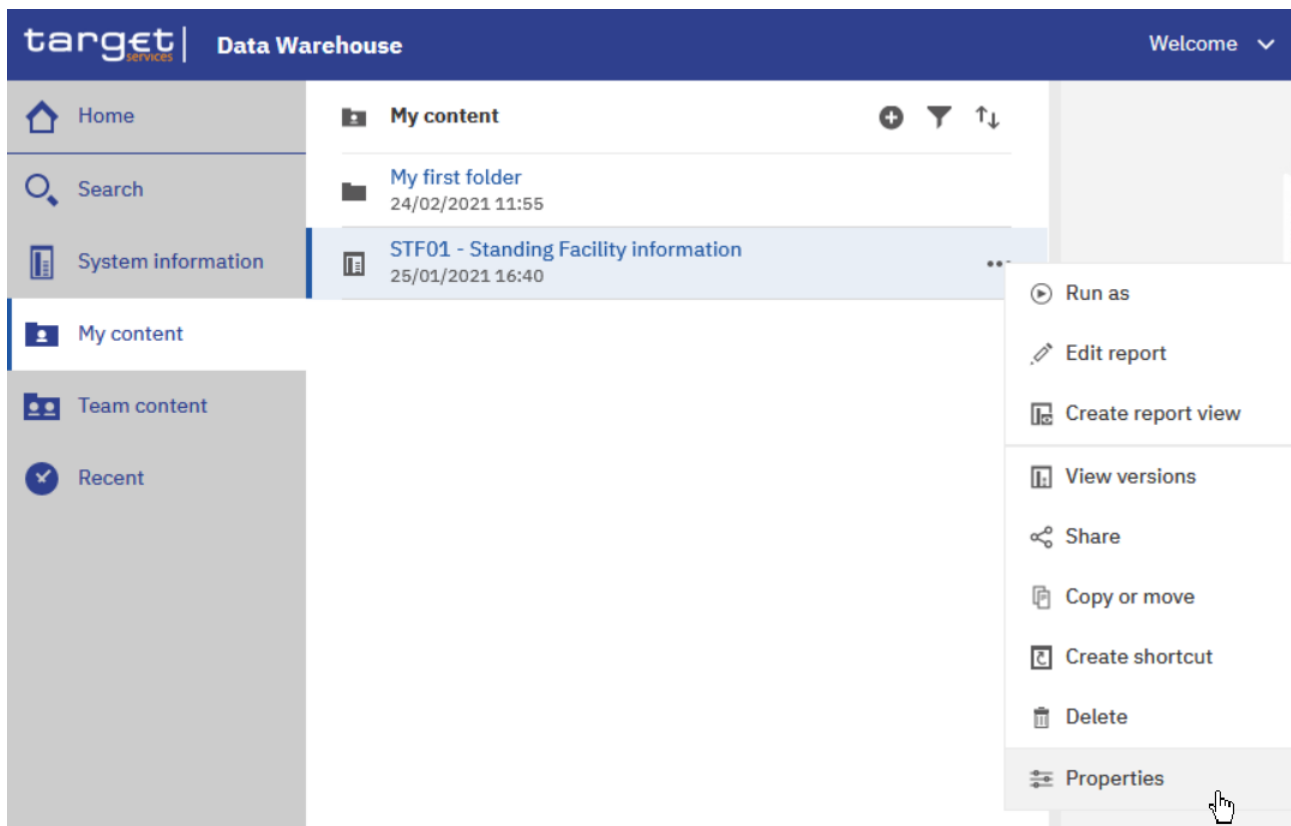


Figure 115 - My content - report view - Properties

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

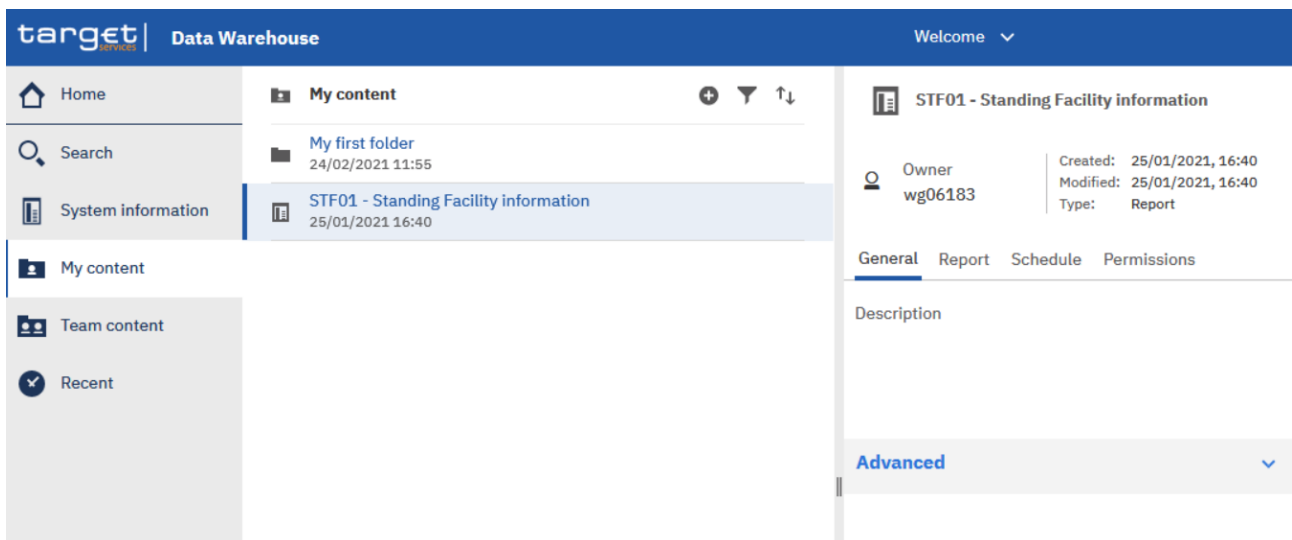
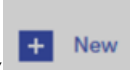


Figure 116 - My content - report view - Properties – General - description of your report

Step 4: In the “Schedule” tab you will find the “New” icon ().

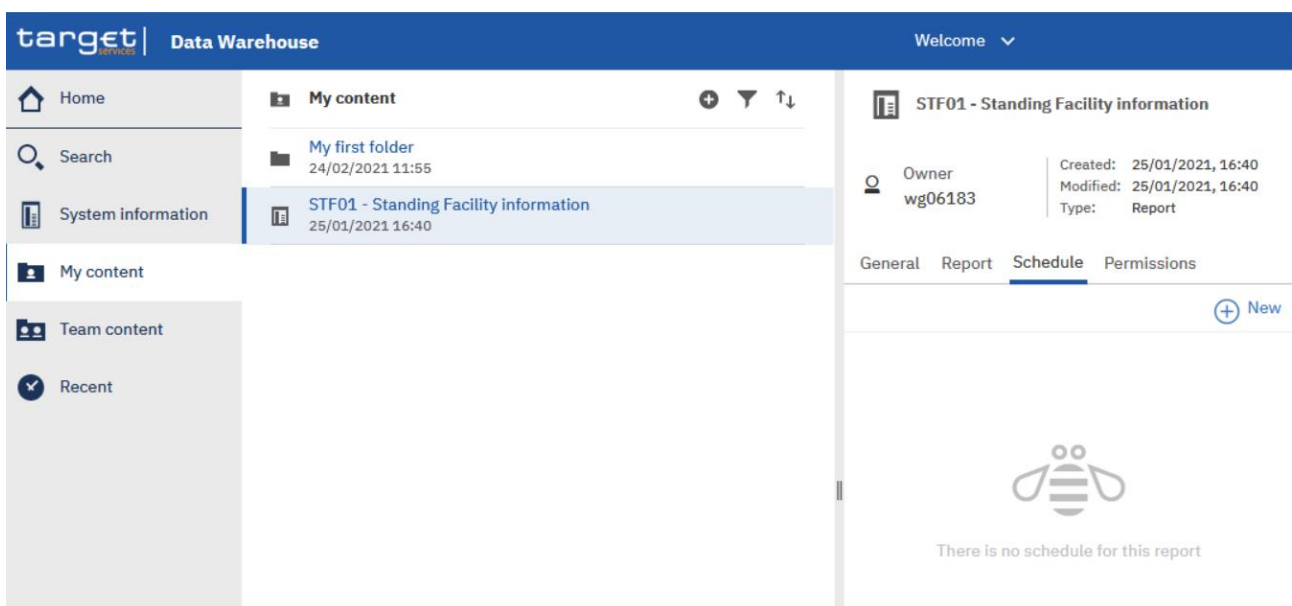



Figure 117 - Welcome page - My content - report view - Properties - Schedule

Step 5: By clicking on the “New” icon (), the “Schedule” is opening where you have multiple options to choose for scheduling your report.

The screenshot shows the 'target Data Warehouse' interface. On the left is a navigation sidebar with 'Home', 'Search', 'System information', 'My content', 'Team content', and 'Recent'. The main area displays a folder tree under 'My content' with 'My first folder' and 'STF01 - Standing Facility information'. On the right, the 'Create schedule' configuration panel is open, showing a 'Weekly' schedule, start date of 2021-02-25 at 12:59, end date of 2021-05-25 at 12:59, and a frequency of 1 week on Tuesdays.

Figure 118 - 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.

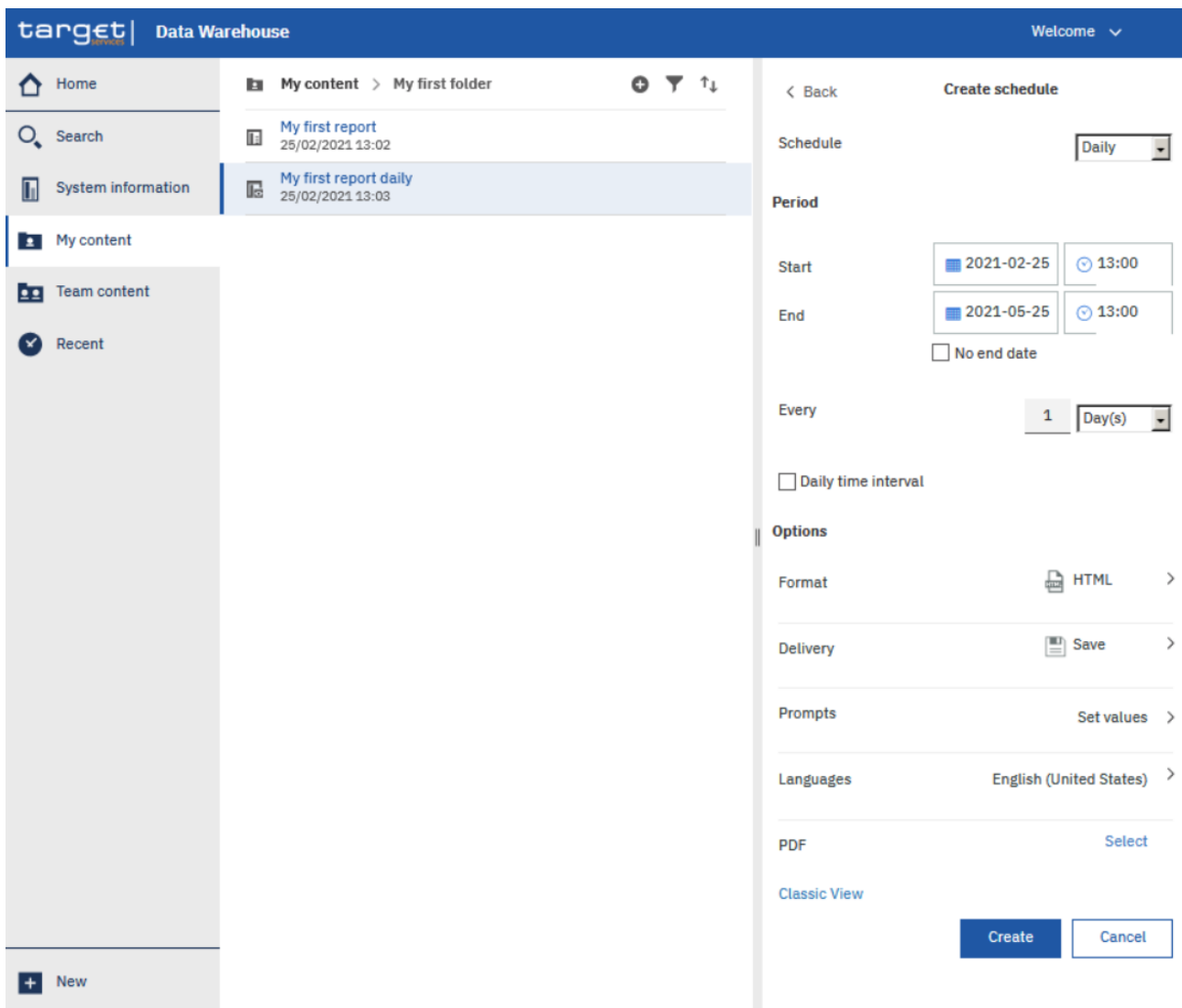


Figure 119 - Welcome page - My content - report view - Properties - create schedule (2)

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](#) [▶ 83].

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 \(U2A\)](#) [▶ 92].

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.

Current values

Set | Clear



You currently have no prompt values set

Figure 120 - Welcome page - My content - Report view - Properties - Create schedule – Current values

TRN01 - Cash transfer (order) search and details

Please select the group of criteria you wish to perform your search : * by Transaction Reference

Select by Transaction Reference

Keywords:

Input keywords here

No Results

Reference : *

Starts with any of these keywords

Case Insensitive

Figure 121 - 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.

Languages

- English (Ireland)
- English (Malta)
- English (New Zealand)
- English (Philippines)
- English (Singapore)
- English (South Africa)
- English (U.S. Virgin Islands)
- English (United Kingdom)
- English (United States)
- English (Zimbabwe)
- Estonian
- Estonian (Estonia)
- Faroese
- Faroese (Faroe Islands)
- Finnish
- Finnish (Finland)

Figure 122 - Welcome page - My content - Report view - Properties - Create schedule – Languages

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

PDF options

Orientation Default ▾

Paper size Default ▾

Requires a password to open the report

Password:

Confirm Password:

Requires a password to access options

Password:

Confirm Password:

Figure 123 - 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.

The screenshot shows the 'My content' view in Target Services. On the left, a folder named 'My first folder' contains two reports: 'My first report' (dated 25/02/2021 13:02) and 'My first report daily' (dated 25/02/2021 13:03). The 'My first report daily' report is selected. On the right, the 'Create schedule' dialog is open. It includes a 'Schedule' dropdown set to 'Daily', a 'Period' section with a 'Start' date of '2021-02-25' and time of '13:00', and a checked 'No end date' option. The 'Every' field is set to '1' with a 'Day(s)' dropdown. There is an unchecked 'Daily time interval' checkbox. Under the 'Options' section, there are four rows: 'Format' set to 'HTML', 'Delivery' set to 'Save', 'Prompts' set to 'Set values', and 'Languages' set to 'English (United States)'. Each row has a right-pointing arrow.

Figure 124 - 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 \(U2A\)](#) [▶ 92] .

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”**.

[← Back](#) **Create schedule**

Schedule

Period

Start

No end date

Every

Daily time interval

Options

Format >

Delivery >

Prompts >

Figure 125 - 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](#)).

[< Back](#) **Create schedule**

Schedule

Period


Start


No end date

Every

Daily time interval


Options

Format  HTML >

Delivery  Save >

Prompts [Set values >](#)

Current values [Set](#) | [Clear](#)



You currently have no prompt values set

Figure 126 - 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.

< Back **Create schedule**

Schedule

Period


Start


No end date

Every

Daily time interval

Options

Format  HTML >

Delivery  Save >

Prompts >

Languages >

PDF

[Classic View](#)

Figure 127 - Welcome page - My content - Properties — Schedule

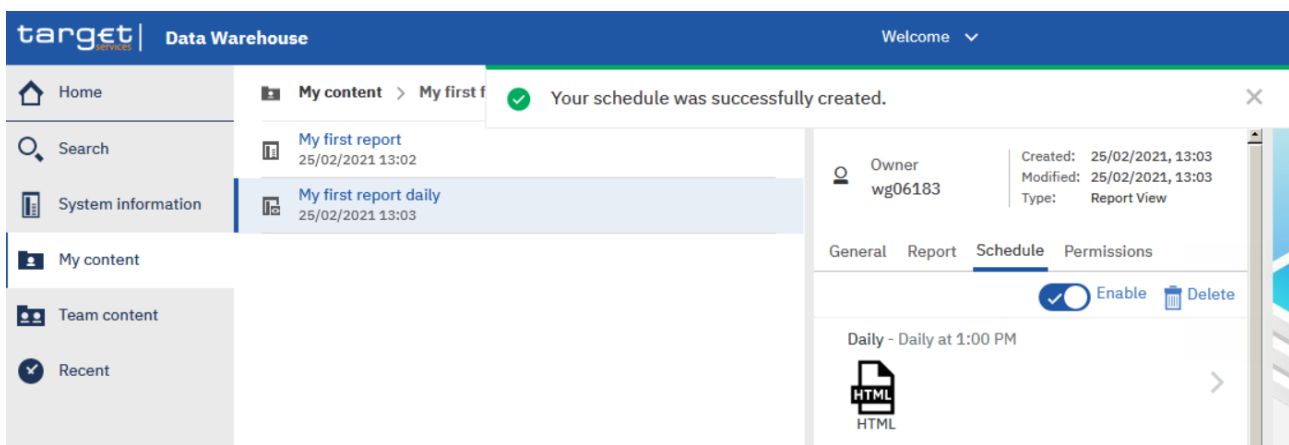



Figure 128 - Welcome page - My content - Properties – Schedule

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”.

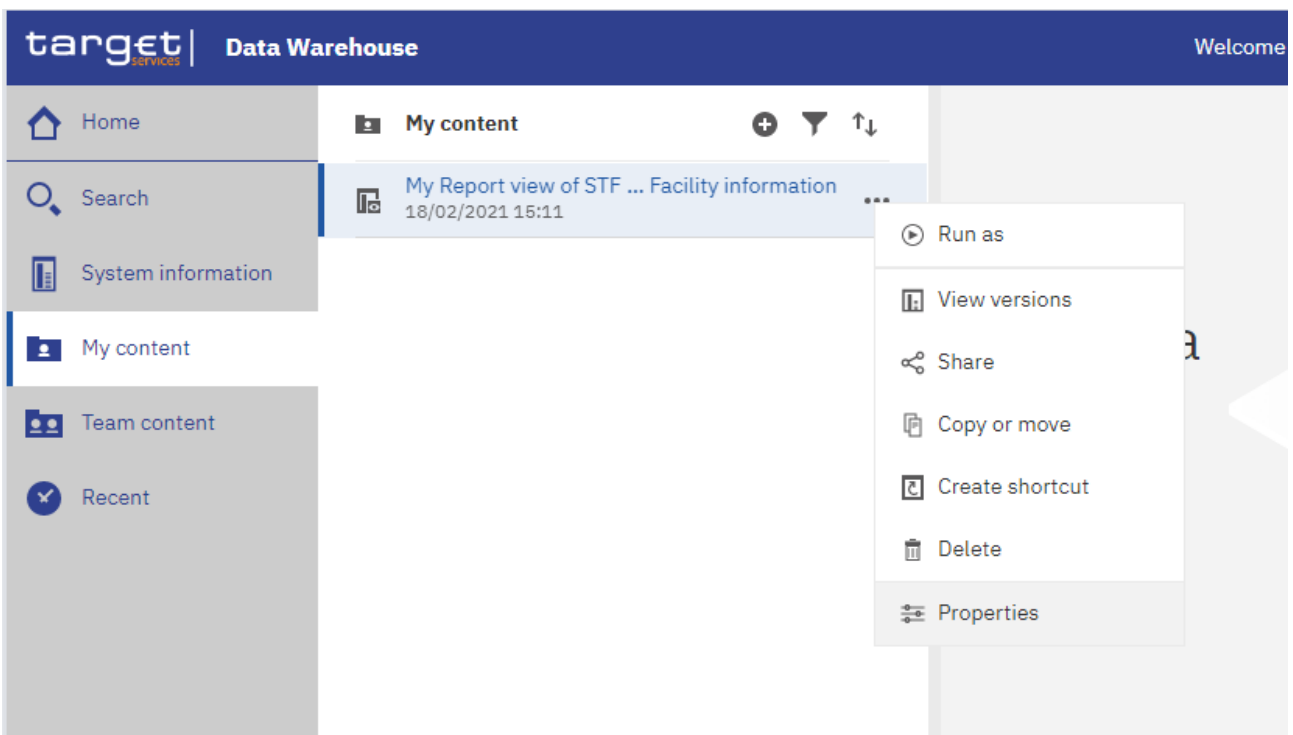


Figure 129 - My content - report view – Properties

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

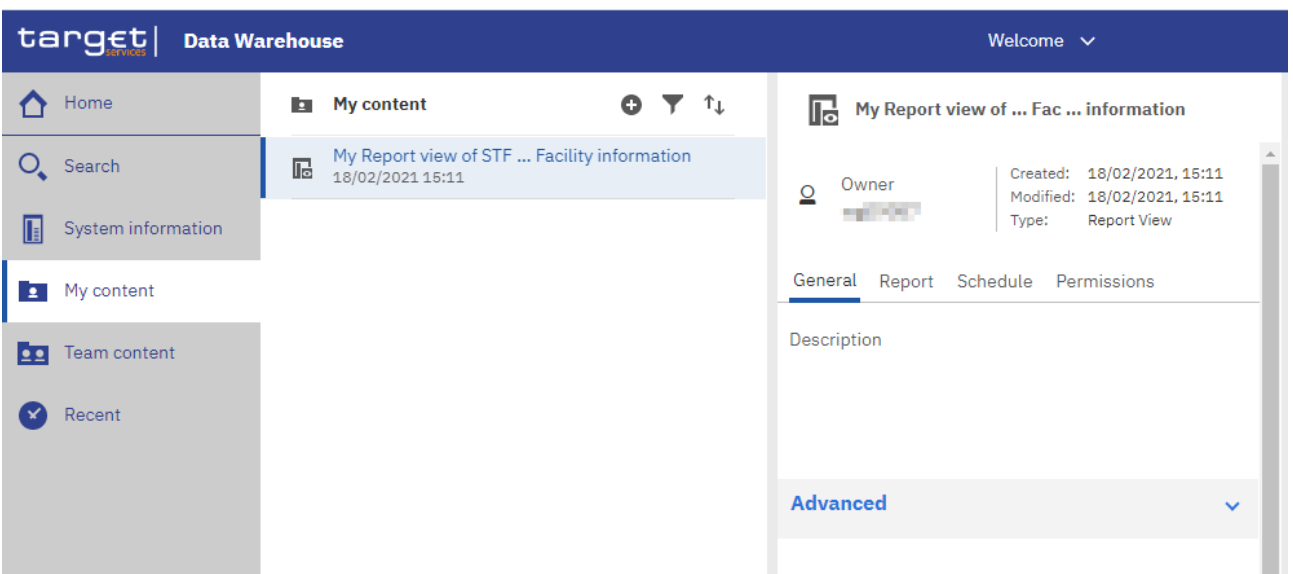
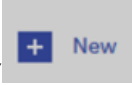


Figure 130 - My content - report view - Properties – General - description of your report

Step 4: In the “Schedule” tab you will find the “New” () icon.

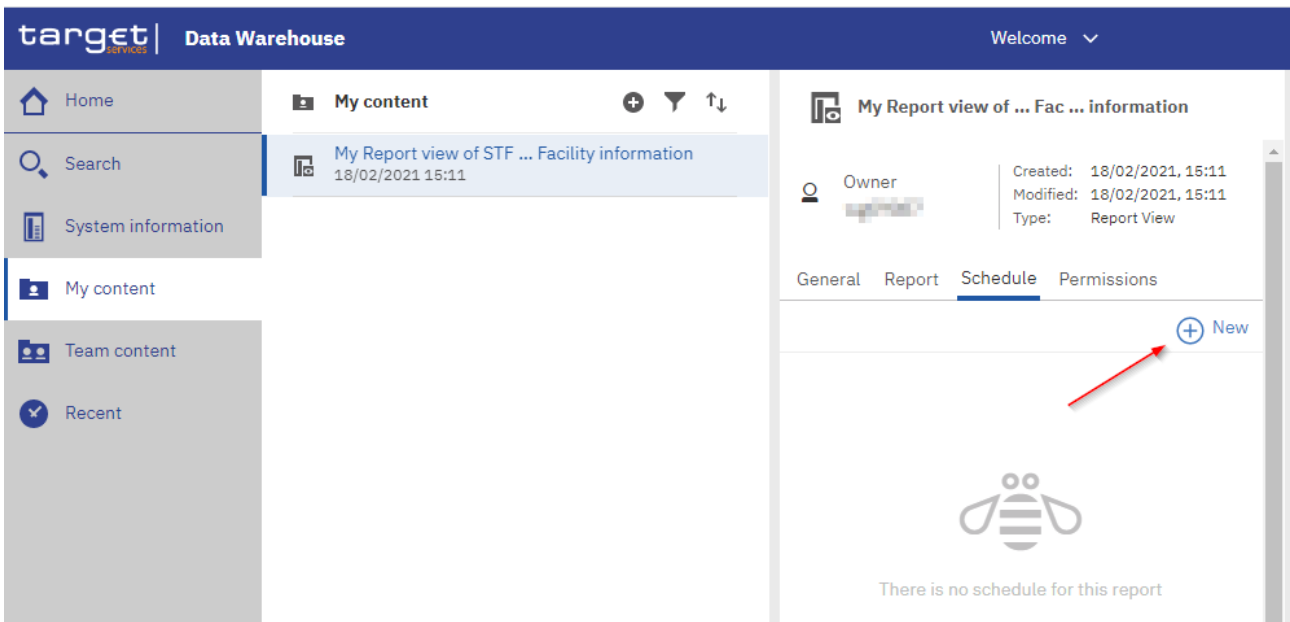
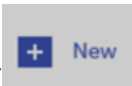


Figure 131 - Welcome page - My content - report view - Properties – Schedule

Step 5: By clicking on the “New” icon (), the “Schedule” is opening where you have multiple options to choose for scheduling your report.

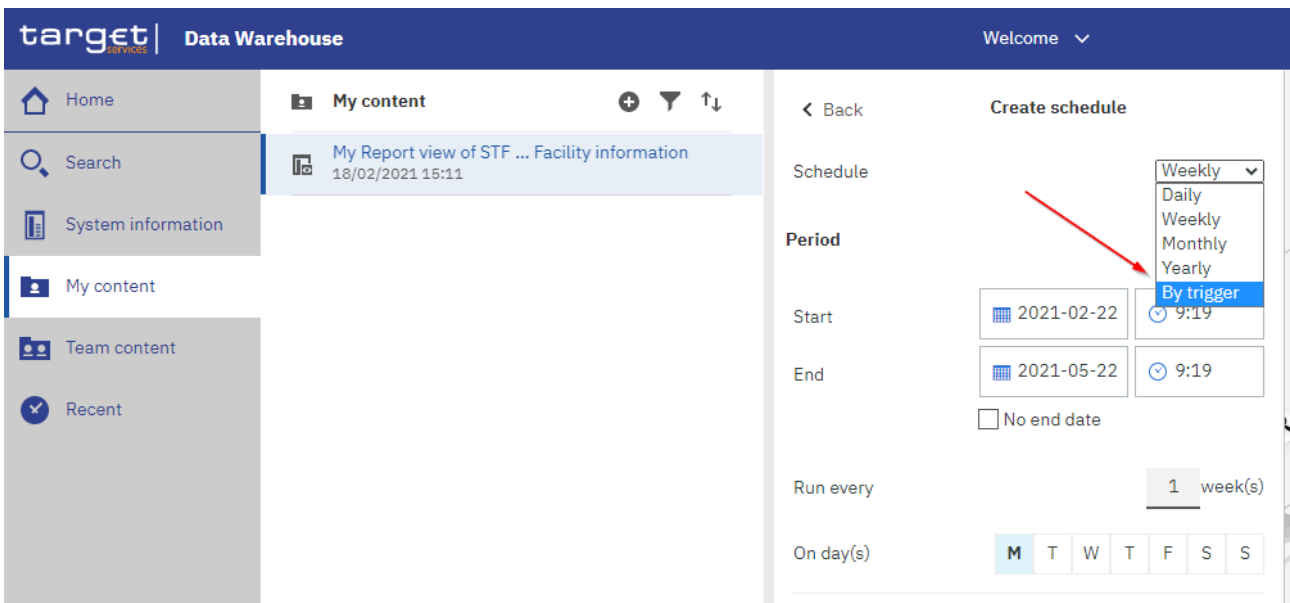


Figure 132 - Welcome page - My content - report view - Properties - create schedule (1)

Step 6: Please select “By Trigger” in the pull down list as schedule. In the field “Trigger name” you have to 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.

The screenshot shows the 'target SERVICES Data Warehouse' interface. The top navigation bar includes 'Welcome' and a dropdown arrow. The left sidebar contains navigation options: Home, Search, System information, My content (selected), Team content, and Recent. The main content area is titled 'My content' and shows a report view: 'My Report view of STF ... Facility information' with a timestamp '18/02/2021 15:11'. On the right, the 'Create schedule' configuration panel is visible. It includes a 'Schedule' dropdown set to 'By trigger', a 'Period' section with 'Start' (2021-02-22 9:19) and 'End' (2021-05-22 9:19) fields, and an unchecked 'No end date' checkbox. The 'Trigger name' field is highlighted with a red box and contains the text 'eodtrigger'. Below this are 'Options' for Format (XML), Delivery (Save), Prompts (Set values), and Languages (English (United Kingdom)). At the bottom are 'PDF' (Select) and 'Classic View' options, along with 'Create' and 'Cancel' buttons.

Figure 133 - 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.

The screenshot shows the 'target SERVICES Data Warehouse' interface. On the left is a navigation sidebar with 'Home', 'Search', 'System information', 'My content', 'Team content', and 'Recent'. The main area displays 'My content' with a report view titled 'My Report view of STF ... Facility information' dated '18/02/2021 15:11'. On the right, the 'Create schedule' dialog is open, showing a 'Schedule' dropdown set to 'By trigger', a 'Period' section with 'Start' date '2021-02-22' and time '9:19', and a checked 'No end date' option. The 'Trigger name' is 'eodtrigger'. Under 'Options', there are expandable sections for 'Format' (XML), 'Delivery' (Save), 'Prompts' (Set values), and 'Languages' (English (United Kingdom)). A 'PDF' option is also visible with a 'Select' link. At the bottom are 'Create' and 'Cancel' buttons.

Figure 134 - 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 \(U2A\)](#) [▶ 92].

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”**.

< Back **Create schedule**

Schedule By trigger ▾

Period

Start 2021-02-22 9:19

No end date

Trigger name eodtrigger

Options

Format XML >

Delivery Save >

Prompts Set values >




Figure 135 - 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.

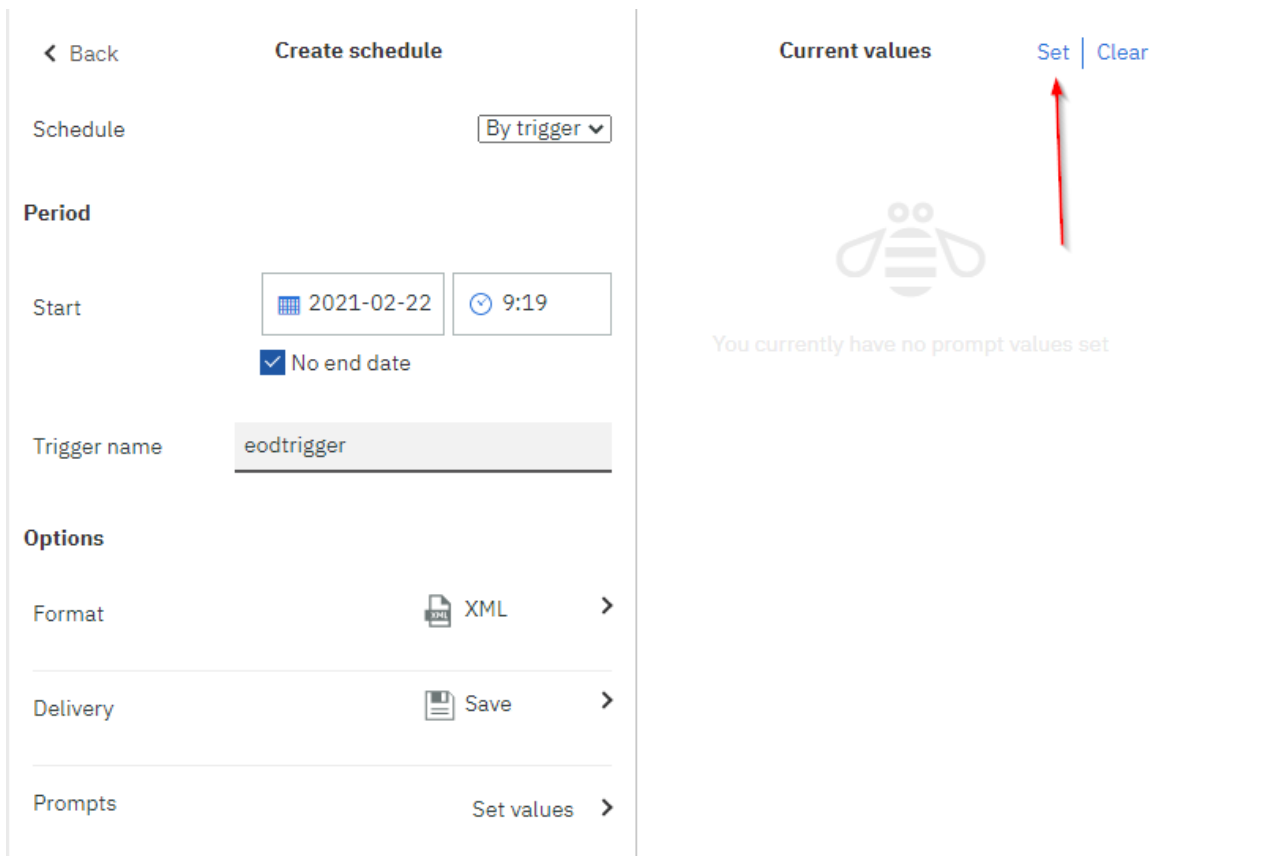


Figure 136 - Welcome page - My content - Properties - Prompts - Set values

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.

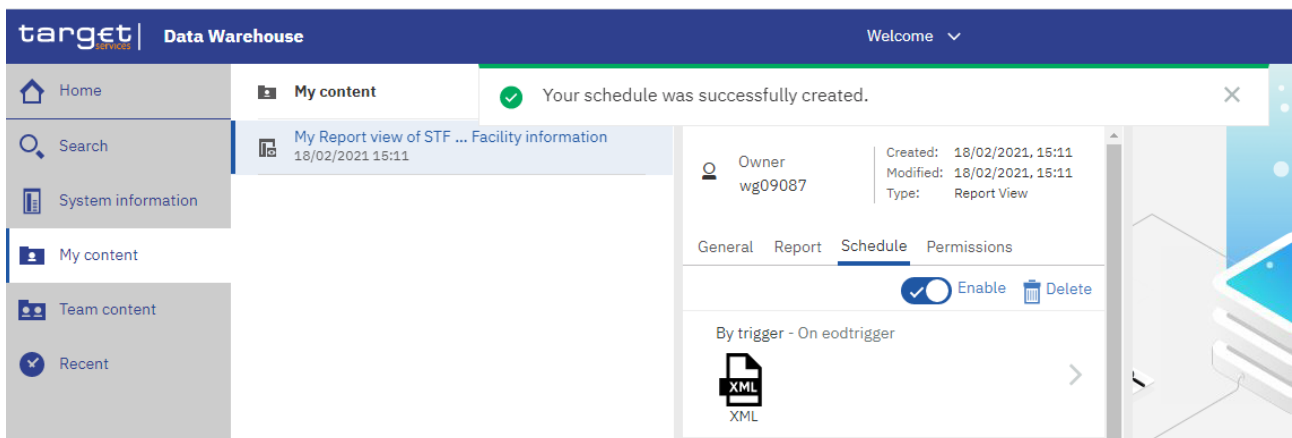


Figure 137 - Welcome page - My content - Properties - Schedule

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”.

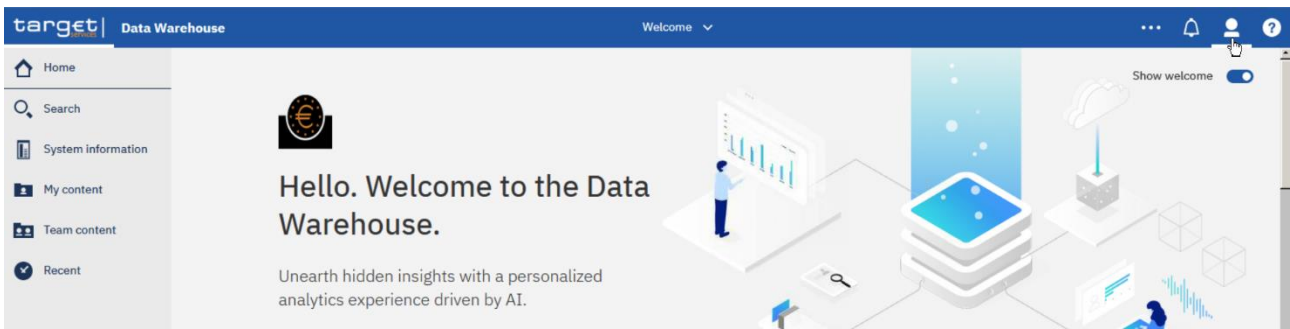


Figure 138 - Welcome page - Personal menu

Step 2: Click on “My schedules and subscriptions”.

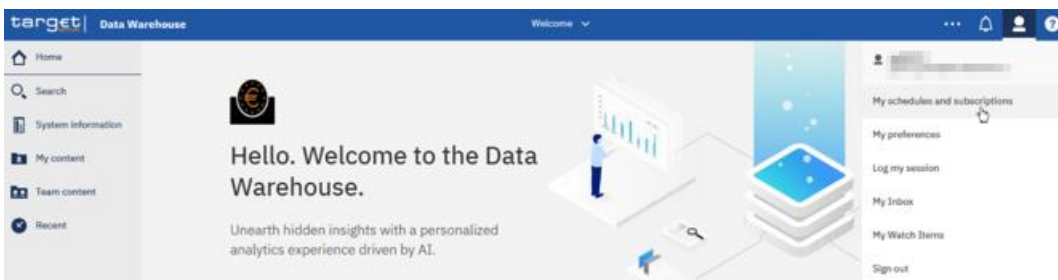


Figure 139 - Welcome page - Personal menu - My schedules and subscriptions

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

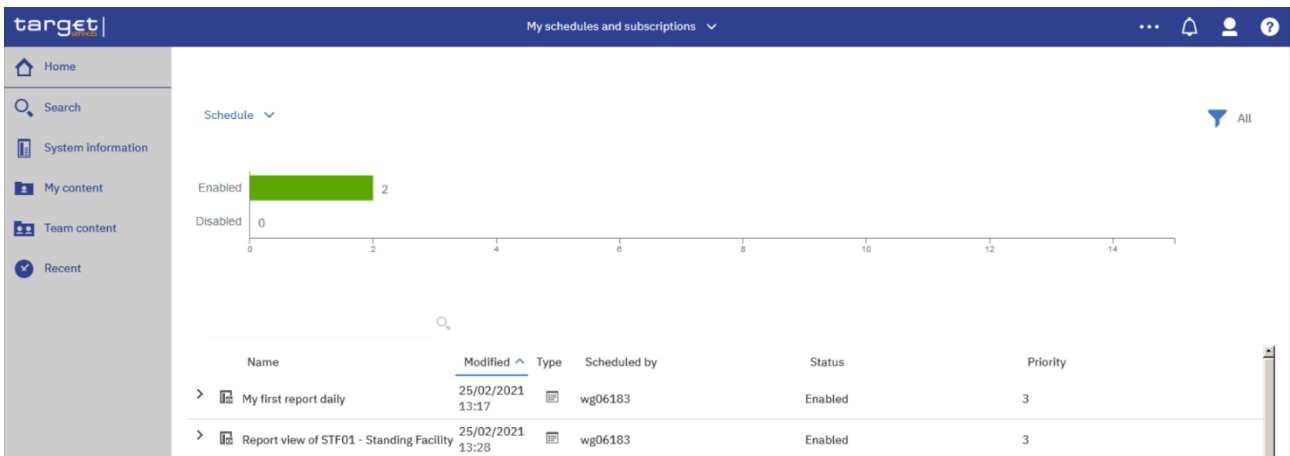


Figure 140 - Welcome page - Personal menu - My schedules and subscriptions - Schedule

Please refer to chapter [Personal menu](#) [▶ 37] for further information.

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

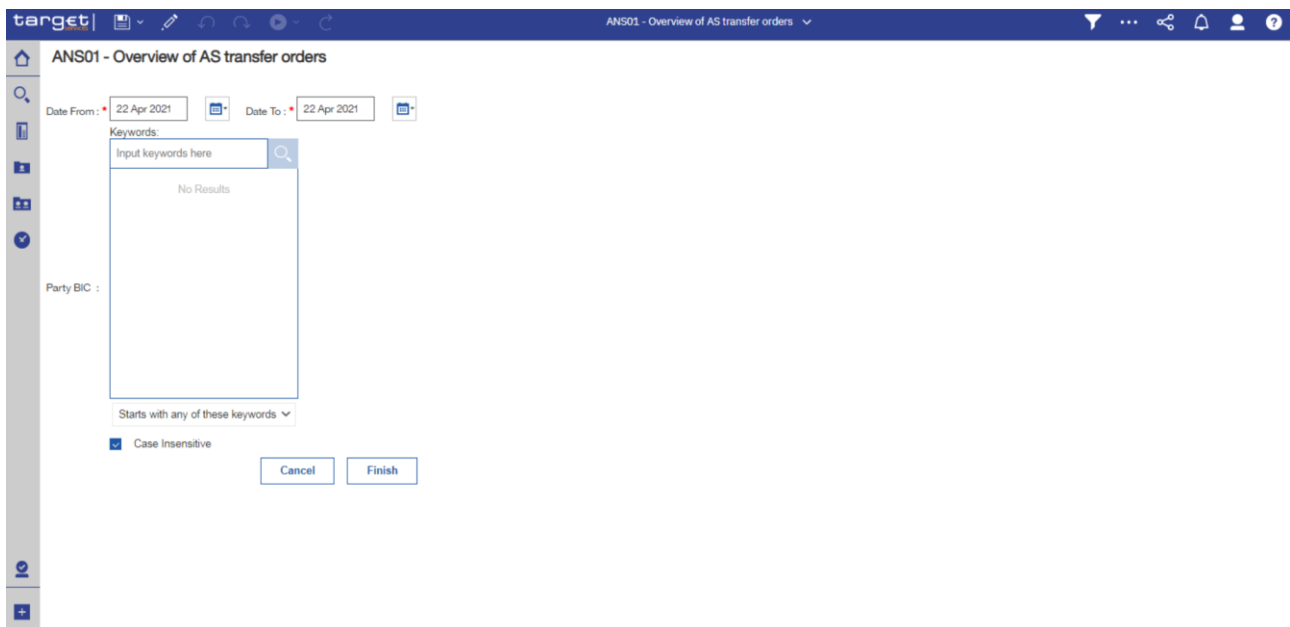


Figure 141 - ANS01 prompt

Prompt description

ANS01 – 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.
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

Screenshot - output screen

AS BIC and short name	AS Settlement procedure	Volume of AS transfer orders		Value of AS transfer orders	
		Settled	Not settled	Settled	Not settled
ASAAKMD0000X - MetroCapital	A	339,874,787	9,960,885	162,643,537,472.63	4,718,524,554.98
	C	2,333,481	398,400	1,104,255,631.89	188,531,449.06
ASABKMD0000X - Auslandskassenverein L.L.	D	14,411,000	0	6,124,675,000	0
Total		356,619,268	10,359,285	169,872,468,104.52	4,907,056,004.04

Figure 142 - 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 2 - 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]

Screenshot – prompt

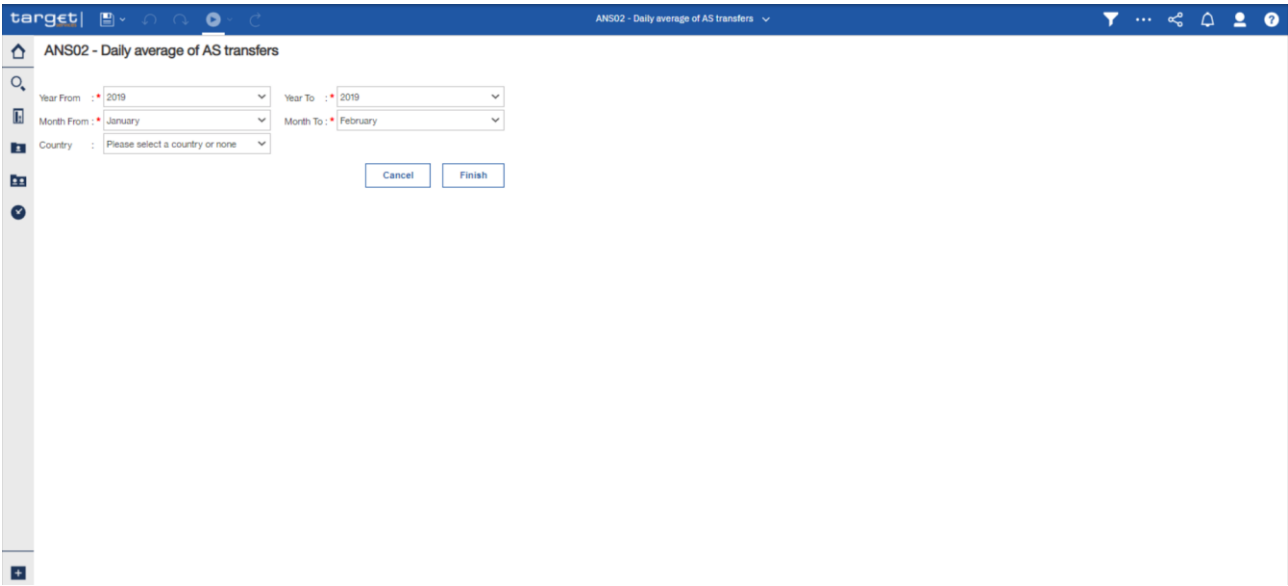


Figure 143 - ANS02 Prompt

Prompt description

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

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

Table 3 - ANS02 - Report description - Prompt screen

Screenshot - output screen

The screenshot displays the 'ANS02 - Daily average of AS transfers' report. It includes filters for Year From (2019), Month From (January), Year To (2019), and Month To (February). The report is divided into two sections: 'Currency : DKK' and 'Currency : EUR'. Each section contains a table with columns for Month, Country Code, and Daily average volume for 2019-01 and 2019-02. A 'Total daily average' row is highlighted in green at the bottom of each table.

Currency : DKK				
Month	2019-01		2019-02	
Country Code	Daily average volume	Daily average value	Daily average volume	Daily average value
KW	4,497,471.00	487,726,460.10	54,136,890.00	12,234,937,625.82
Total daily average	4,497,471.00	487,726,460.10	54,136,890.00	12,234,937,625.82

Currency : EUR				
Month	2019-01		2019-02	
Country Code	Daily average volume	Daily average value	Daily average volume	Daily average value
KM	2,207,834.53	269,376,080.68	4,365,176.81	960,743,968.87
KP	429,976.26	52,463,751.78	842,907.56	185,489,554.44
Total daily average	1,318,905.39	160,919,916.23	2,604,042.19	573,116,761.66

Figure 144 - 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 4 - 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.

Report access

This report can be reached in the following way:

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

Screenshot – prompt

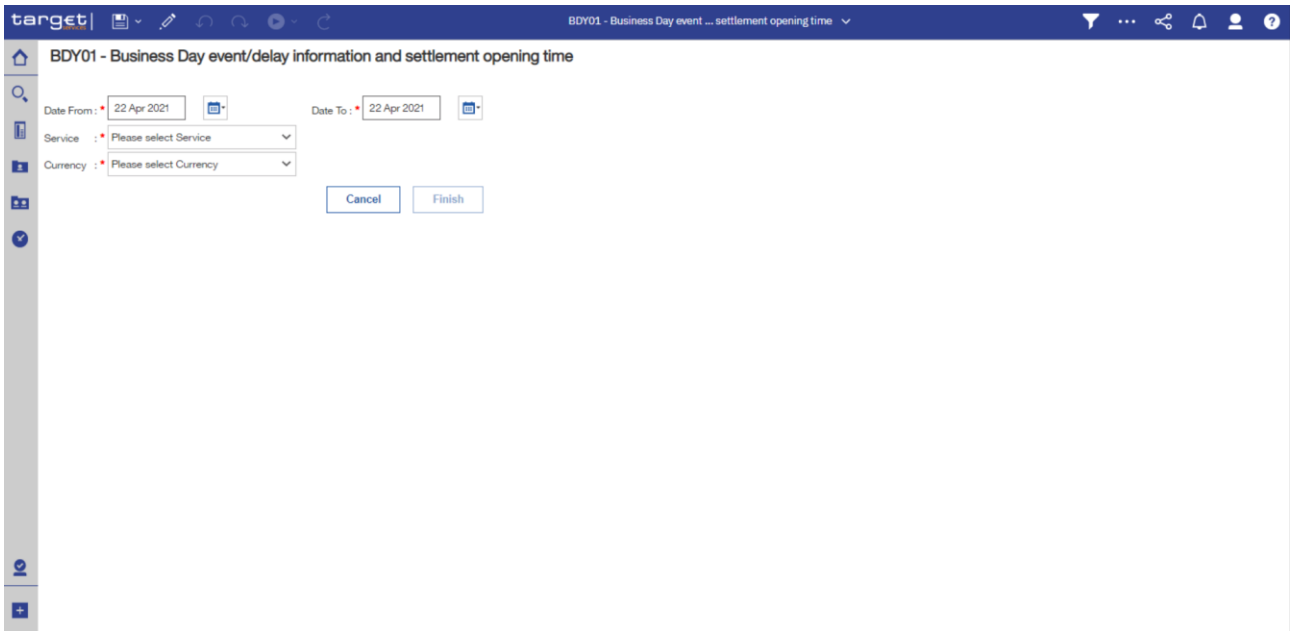


Figure 145 - BDY01 prompt

Prompt description

BDY01 – Report description – prompt screen	
Field label	Description
Service	<p>Service for which the data shall be displayed.</p> <p>Possible values:</p> <ul style="list-style-type: none"> RTGS CLM <p>This field is optional</p>

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 5 - BDY01 - Prompt description

Screenshot - output screen

target | BDY01 - Business Day event ... settlement opening time

Business Day event/delay information and settlement opening time - CLM Business Day event/delay information and settlement opening time - RTGS

target | **BDY01 - Business Day event/delay information and settlement opening time** 2021-03-02 09:15:48
DEV - Development and integration

CEBXXMDDXXX - Central Bank of Fiction

Filters | Service : CLM Date From : 2018-12-17
Currency : EUR Date To : 2018-12-17

17.12.2018

Event	Event code	Planned time	Revised time	Effective time	End time
Change of business day	CSOD	2018-12-14 18:45:01	2018-12-14 18:45:01	2018-12-14 18:46:01	2018-12-14 18:47:01
Start of CLM RTS	CRTI	2018-12-14 19:00:02	2018-12-14 19:00:02	2018-12-14 19:01:02	2018-12-14 19:02:02
Execution of standing orders in CLM	CESO	2018-12-14 19:30:03	2018-12-14 19:30:03	2018-12-14 19:31:03	2018-12-14 19:35:03
Start of non-optional maintenance window	CSMW	2018-12-17 02:00:04	2018-12-17 02:00:04	2018-12-17 02:01:04	2018-12-17 02:02:04
End of non-optional maintenance window	CEMW	2018-12-17 02:30:05	2018-12-17 02:30:05	2018-12-17 02:31:05	2018-12-17 02:32:05
Out-off for CLM RTS	CCII	2018-12-17 17:30:06	2018-12-17 17:30:06	2018-12-17 17:31:06	2018-12-17 17:32:06
Data propagation for T2	T2DP	2018-12-17 17:35:07	2018-12-17 17:35:07	2018-12-17 17:36:07	2018-12-17 17:39:07
Start of EoD processing	CEOD	2018-12-17 17:40:08	2018-12-17 17:40:08	2018-12-17 17:41:08	2018-12-17 17:43:08
General cut-off for standing facilities	CCSF	2018-12-17 17:50:09	2018-12-17 17:50:09	2018-12-17 17:51:09	2018-12-17 17:52:09
CB cut-off for standing facilities	CCML	2018-12-17 17:55:10	2018-12-17 17:55:10	2018-12-17 17:56:10	2018-12-17 17:57:10
EoD - close of service	CCOS	2018-12-17 18:00:11	2018-12-17 18:00:11	2018-12-17 18:01:11	2018-12-17 18:01:11

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Figure 146 - BDY01 Output (1)

Event	Event code	Planned time	Revised time	Effective time	End time
Change of business day	RSCD	2018-12-14 18:45:12	2018-12-14 18:45:12	2018-12-14 18:46:12	2018-12-14 18:47:12
Execution of standing orders in RTGS	RESO	2018-12-14 22:15:14	2018-12-14 22:15:14	2018-12-14 22:16:14	2018-12-14 22:25:14
Start of RTGS RTS I	RRTI	2018-12-14 22:30:13	2018-12-14 22:30:13	2018-12-14 22:31:13	2018-12-14 22:33:13
Start of non-optional maintenance window	RSMW	2018-12-17 02:00:15	2018-12-17 02:00:15	2018-12-17 02:01:15	2018-12-17 02:02:15
End of non-optional maintenance window	REMW	2018-12-17 02:30:16	2018-12-17 02:30:16	2018-12-17 02:31:16	2018-12-17 02:32:16
Start of RTGS RTS II	RRII	2018-12-17 02:35:17	2018-12-17 02:35:17	2018-12-17 02:36:17	2018-12-17 02:37:17
Start of settlement window for interbank and customer payments	RSIC	2018-12-17 03:00:18	2018-12-17 03:00:18	2018-12-17 03:01:18	2018-12-17 03:02:18
Cut-off for customer payments	RCOC	2018-12-17 16:30:19	2018-12-17 16:30:19	2018-12-17 16:31:19	2018-12-17 16:32:19
Cut-off for RTGS RTS II	RCII	2018-12-17 16:45:20	2018-12-17 16:45:20	2018-12-17 16:46:20	2018-12-17 16:47:20
Execution of standing orders after last settlement attempt in RTGS	RLSO	2018-12-17 16:50:21	2018-12-17 16:50:21	2018-12-17 16:51:21	2018-12-17 16:55:21
Start of EoD processing	REOD	2018-12-17 16:55:22	2018-12-17 16:55:22	2018-12-17 16:56:22	2018-12-17 16:57:22
EoD - close of service	RCOS	2018-12-17 17:00:23	2018-12-17 17:00:23	2018-12-17 17:01:23	2018-12-17 17:02:23

Figure 147 - BDY01 Output (2)

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	<p>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.</p> <p>Only for time-based events.</p> <p>For non-time based events this field is empty.</p>
Effective time	<p>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.</p>
End time	<p>The end time is the time, when CLM or RTGS informed the BDM, that the processes for this event have been finished.</p>

Table 6 - 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 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

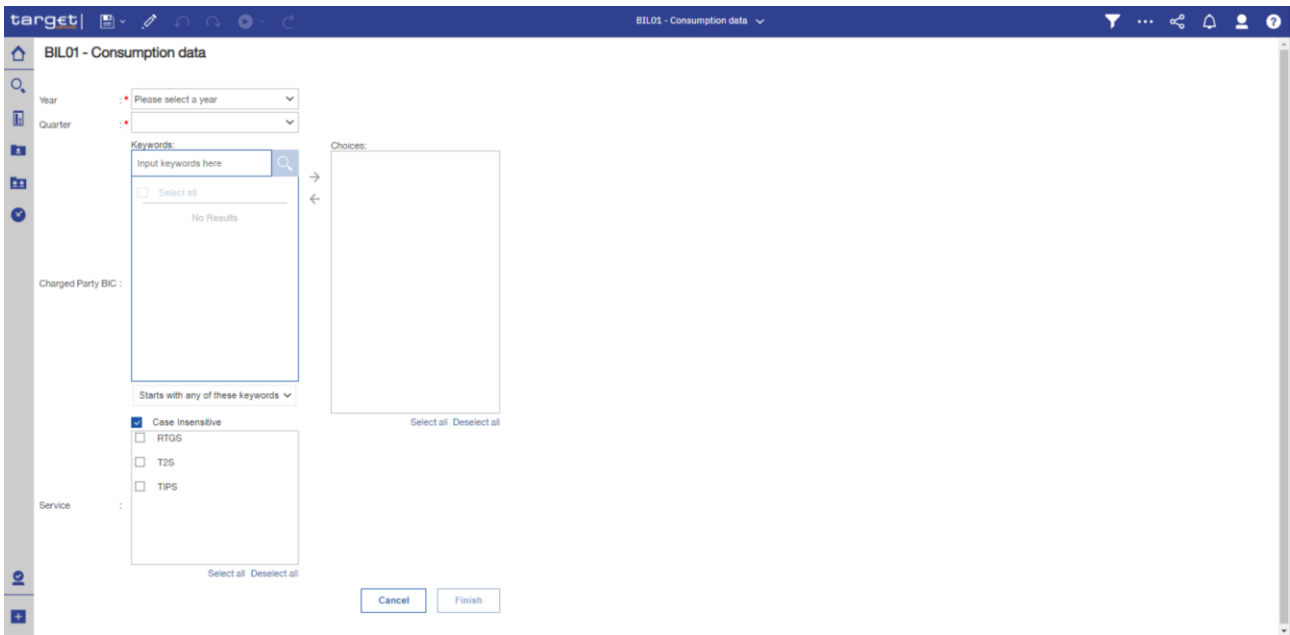


Figure 148 - BIL01 prompt

Prompt description

BIL01 – Report description – prompt screen

Field label	Description
Year	<p>You can use this drop-down field to select the year, from which the report should contain the data.</p> <p>This field is mandatory.</p>

Quarter	<p>You can use this drop-down field to select the quarter, for which the report should show the data.</p> <p>This field is mandatory</p>
Charged party BIC	<p>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.</p> <p>This field is optional.</p>
Service	<p>Service for which the data shall be displayed.</p> <p>Possible values:</p> <ul style="list-style-type: none"> RTGS TIPS <p>This field is optional</p>

Table 7 - BIL01 - Prompt description

Screenshot - output screen

Charged party BIC	Responsible party BIC	Category	Service Item	2018 October		2018 November		2018 December	
				Quantity	Share (%)	Quantity	Share (%)	Quantity	Share (%)
PBAAXM00XXX	CBXXXM00XXX	Account Management Services	5002 Fixed fee - RTGS account	243	8.56	249	9.50	666	10.47
			5004 Addressable BIC - Correspondent	171	7.30	177	8.27	522	9.67
			5005 Fee for unpublished BIC	117	8.42	120	9.38	324	10.38
			5009 Ancillary system - Fixed fee II	171	7.30	177	8.27	522	9.67
			5011 RTGS payment order	72	6.67	75	7.65	234	9.29
			5012 RTGS AS cash transfer order	162	7.10	168	8.08	504	9.55
		Information Services	5015 Inter-banking group intra-component liquidity transfer order	54	5.65	57	6.63	198	8.68
			5002 Fixed fee - RTGS account	144	9.14	147	10.07	378	10.86
			5004 Addressable BIC - Correspondent	135	8.92	138	9.86	360	10.71
			5005 Fee for unpublished BIC	126	8.68	129	9.63	342	10.56
			5006 Fee for multi-addressee	117	8.42	120	9.38	324	10.38
			5007 Ancillary system - core fixed fee	108	8.14	111	9.10	306	10.20
			5008 Ancillary system - Fixed fee I	99	7.83	102	8.79	288	10.00
		Settlement Services	5009 Ancillary system - Fixed fee II	90	7.48	93	8.45	270	9.78
5011 RTGS payment order	81		7.10	84	8.08	252	9.55		
5012 RTGS AS cash transfer order	72		6.67	75	7.65	234	9.29		
5015 Inter-banking group intra-component liquidity transfer order	63		6.19	66	7.17	216	9.00		
			5016 Inter-banking group intra-component liquidity transfer order	54	5.65	57	6.63	198	8.68
			5006 Fee for multi-addressee	288	7.71	297	8.68	846	9.63
			5007 Ancillary system - core fixed fee	261	7.36	270	8.33	792	9.71

Figure 149 - BIL01 Output ("Per service")(1)

target | BIL01 - Consumption data

Per service System entity wide sums per service

target | BIL01 - Consumption data

2021-03-02 09:50:17 DEV - Development and Integration

Quarter : 2018 Q4
Services : RTGS
Parties : PBAAKMDOXXX - Banco de Isthmus

Charged party BIC	Responsible party BIC	Category	Code	Service Item Description	2018 October		2018 November		2018 December	
					Quantity	Share (%)	Quantity	Share (%)	Quantity	Share (%)
PBAAKMDOXXX	CBKXKMD0XXX	Settlement Services	5008	Ancillary system - Fixed fee I	234	6.96	243	7.94	735	9.48
			5016	Inter-banking group inter-component liquidity transfer order	108	5.65	114	6.63	396	8.68

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Figure 150 - BIL01 Output ("Per service")(2)

target | BIL01 - Consumption data

Per service System entity wide sums per service

target | BIL01 - Consumption data

2021-03-02 09:50:17 DEV - Development and Integration

Quarter : 2018 Q4
Services : RTGS
Parties : PBAAKMDOXXX - Banco de Isthmus

Service: RTGS

Category	Code	Service Item Description	2018 October	2018 November	2018 December	
			Quantity (sum)	Quantity (sum)	Quantity (sum)	
Account Management Services	5002	Fixed fee - RTGS account	2,840	2,620	6,360	
	5004	Addressable BIC - Correspondent	2,344	2,140	6,400	
	5005	Fee for unpublished BIC	1,389	1,280	3,120	
	5009	Ancillary system - Fixed fee II	2,344	2,140	6,400	
	5011	RTGS payment order	1,079	980	2,520	
	5012	RTGS AS cash transfer order	2,282	2,080	5,280	
	5015	Inter-banking group intra-component liquidity transfer order	955	860	2,280	
	Information Services	5002	Fixed fee - RTGS account	1,576	1,460	3,480
		5004	Addressable BIC - Correspondent	1,513	1,400	3,360
		5005	Fee for unpublished BIC	1,451	1,340	3,240
5006		Fee for multi-addressee	1,389	1,280	3,120	
5007		Ancillary system - core fixed fee	1,327	1,220	3,000	
5008		Ancillary system - Fixed fee I	1,265	1,160	2,880	
5009		Ancillary system - Fixed fee II	1,203	1,100	2,760	
5011		RTGS payment order	1,141	1,040	2,640	
5012		RTGS AS cash transfer order	1,079	980	2,520	
5015		Inter-banking group intra-component liquidity transfer order	1,017	920	2,400	
Settlement Services	5016	Inter-banking group inter-component liquidity transfer order	955	860	2,280	
	5006	Fee for multi-addressee	3,723	3,420	8,520	
	5007	Ancillary system - core fixed fee	2,547	2,340	6,180	

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Figure 151 - BIL01 Output ("System entity wide sums per service")(1)

target | BIL01 - Consumption data

Per service: system entity wide sums per service

target | BIL01 - Consumption data

2021-09-02 09:50:17 DEV - Development and Integration

Filters: Quarter: 2018 Q4, Services: RTGG, Parties: PBAAXMDXXXX - Banco de Istmus

Service Item			2018 October	2018 November	2018 December
Category	Code	Description	Quantity (sum)	Quantity (sum)	Quantity (sum)
Settlement Services	5008	Ancillary system - Fixed fee i	3,361	3,060	7,800
	5016	Inter-banking group inter-component liquidity transfer order	1,910	1,720	4,560

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Figure 152 - BIL01 Output (“System entity wide sums per service”)(2)

Output description

BIL01 – Report description – output screen	
Field label	Description
Year, Quarter	Year and quarter as chosen in input screen
<i>Tab “Per service”: Shows consumption data per selected service</i>	
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
Service item category	Possible values are: <ul style="list-style-type: none"> Settlement Services (SETT) Account Management Services (ACMS) Information Services (INSV)
Service item code	Following service item codes are currently available: <ul style="list-style-type: none"> 5002 5004 5005 5006 5007

	<ul style="list-style-type: none"> 5008 5009 5011 5012 5015 5016 3001 3002 3003 3004
Service item description	<p>Following service item descriptions are currently available:</p> <ul style="list-style-type: none"> Fixed fee – RTGS account (5002) Addressable BIC – Correspondent (5004) Fee for unpublished BICs (5005) Fee for multi-addressee access (5006) Ancillary system – Core fixed fee (5007) Ancillary system – Fixed fee I (5008) Ancillary system – Fixed fee II (5009) RTGS payment order (5011) RTGS AS Cash transfer orders (5012) Inter-banking group intra-component liquidity transfer order (5015) Inter-banking group inter-component liquidity transfer order (5016) Settled Instant Payment transaction (3001) Unsettled Instant Payment transaction (3002) Settled Positive Recall answer (3003) Unsettled Positive Recall answer (3004)
Month, Year	<p>For each month within the chosen quarter, one row will be displayed.</p> <p>If the billing period is not yet closed, then no quantities are shown (empty cells).</p>
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.

Tab “System entity wide sums per service” shows the totals for the system entity per selected service

Service item category	Possible values are: <ul style="list-style-type: none"> Settlement Services Account Management Services Information Services
Service item code	Following service item codes are currently available: <ul style="list-style-type: none"> 5002 5004 5005 5006 5007 5008 5009 5011 5012 5015 5016 3001 3002 3003 3004

Service item description	<p>Following service item descriptions are currently available:</p> <ul style="list-style-type: none"> Fixed fee – RTGS account (5002) Addressable BIC – Correspondent (5004) Fee for unpublished BICs (5005) Fee for multi-addressee (5006) Ancillary system – Core fixed fee (5007) Ancillary system – Fixed fee I (5008) Ancillary system – Fixed fee II (5009) RTGS payment order (5011) RTGS AS Cash transfer orders (5012) Inter-banking group intra-component liquidity transfer order (5015) Inter-banking group inter-component liquidity transfer order (5016) Settled Instant Payment transaction (3001) Unsettled Instant Payment transaction (3002) Settled Positive Recall answer (3003) Unsettled Positive Recall answer (3004)
Month, Year	<p>For each month within the chosen quarter, one row will be displayed.</p> <p>If the billing period is not yet closed, then no quantities are shown (empty cells).</p>
Quantity (sum)	<p>For each service item the sum over all parties belonging to the data scope of the CB.</p>

Table 8 - 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]

Screenshot – prompt

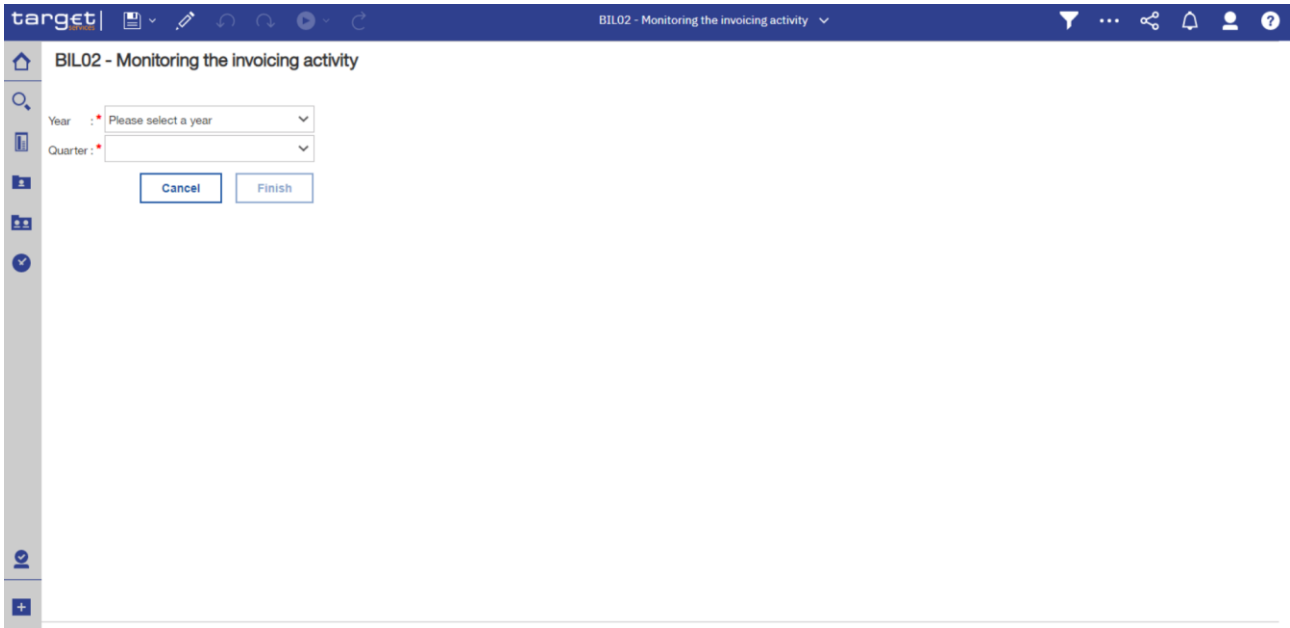


Figure 153 - BIL02 prompt

Prompt description

BIL02 – Report description – prompt screen	
Field label	Description
Year	<p>You can use this drop-down field to select the year, from which the report should contain the data.</p> <p>This field is mandatory.</p>
Quarter	<p>You can use this drop-down field to select the quarter, for which the report should show the data.</p> <p>This field is mandatory</p>

Table 9 - BIL02 – Prompt description

Screenshot - output screen

target | BIL02 - Monitoring the invoicing activity

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 | BIL02 - Monitoring the invoicing activity

2021-03-02 10:10:31 DEV - Development and integration

CB0X0MD000X - Central Bank of Fiction

Filters | Quarter : 2018 Q4

Currency: EUR

Party BIC	Party name	Party type	Volume	Share (%)	Value	Share (%)
PBAAKMD000X	Banco de Isthmus	Payment Bank	554,682	18.68	1,102,411.36	18.65
PBANKMD000X	Gringotts Bank	Payment Bank	531,629	17.91	1,065,442.01	18.03
PBBEKMD000X	Banco di San Giorgio	Payment Bank	419,420	14.13	831,214.30	14.06
PBBHKMD000X	Monte Pio	Payment Bank	285,344	9.61	568,189.81	9.61
PBBKMD000X	Banca de Bondi	Payment Bank	135,093	4.55	272,578.24	4.61
PBBCKMD000X	Fidelity Savings & Trust	Payment Bank	135,972	4.58	272,114.40	4.60
PBBAKMD000X	Tolson's Mutual	Payment Bank	133,934	4.51	265,835.34	4.50
PBAGKMD000X	Woodgrove Bank	Payment Bank	131,442	4.43	263,915.26	4.47
PBAHKMD000X	Goleth National Bank Ltd	Payment Bank	132,690	4.47	262,002.13	4.43
PBADKMD000X	Banque Mammon	Payment Bank	127,972	4.31	254,609.47	4.31
PBAFKMD000X	Dagobert Duck Thrift	Payment Bank	130,010	4.38	252,660.25	4.27
PBACKMD000X	Iron Banks of Braavos	Payment Bank	126,624	4.27	251,576.05	4.26
PBMFKMD000X	Par o Six Ouvert Bank	Payment Bank	124,008	4.18	247,939.36	4.19
Total			2,968,820		5,910,487.98	

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Figure 154 - BIL02 Output (“Monitor the invoicing activity by party”)

target | BIL02 - Monitoring the invoicing activity

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 | BIL02 - Monitoring the invoicing activity

2021-03-02 10:10:31 DEV - Development and integration

CB0X0MD000X - Central Bank of Fiction

Filters | Quarter : 2018 Q4

Currency: EUR

Service	Volume	Share (%)	Value	Share (%)
T2S	1,877,440	63.24	3,734,003.09	63.18
RTGS	1,091,380	36.76	2,176,484.89	36.82
Total	2,968,820		5,910,487.98	

NORU82000001 - CB0X0MD0 (NOR) Normal Page: 2 of 7

Figure 155 - BIL02 Output (“Monitor the invoicing activity by service”)

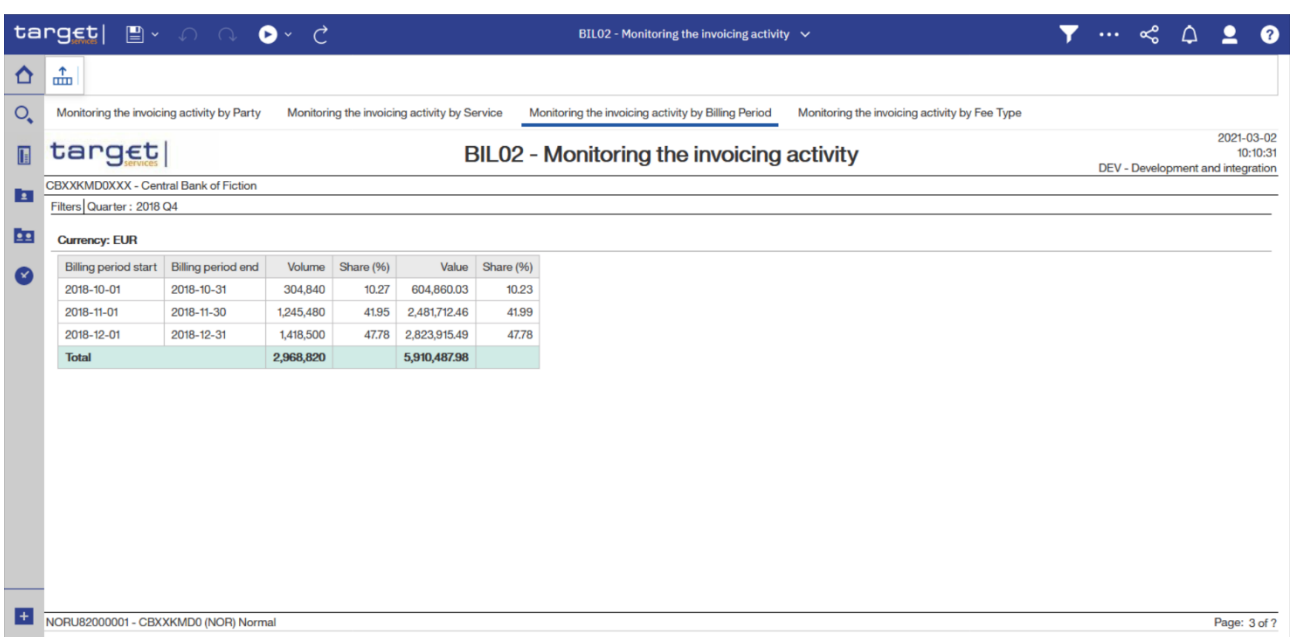


Figure 156 - BIL02 Output (“Monitor the invoicing activity by billing period”)

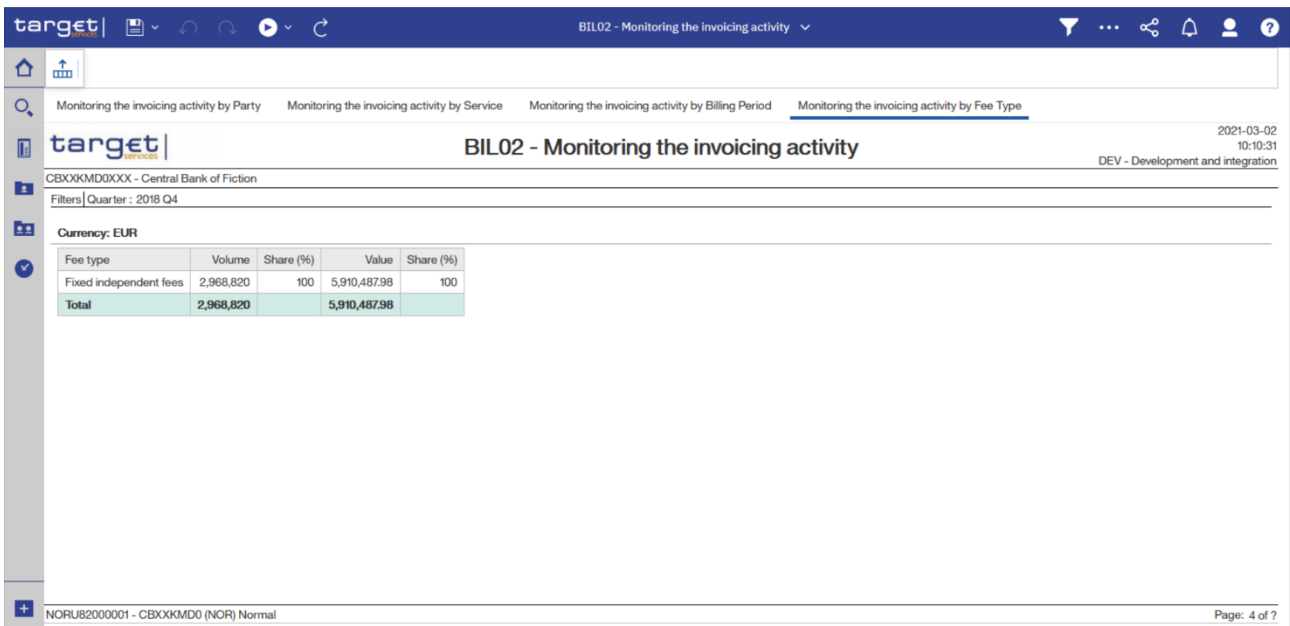


Figure 157 - BIL02 Output (“Monitor the invoicing activity by fee type”)

Output description

BIL02 – Report description – output screen	
Field label	Description
Year, Quarter	Year and quarter as chosen in input screen
<i>Tab “Monitor the invoicing activity by party”</i>	
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
<i>Tab “Monitor the invoicing activity by service”</i>	
Service	Service for which the data is displayed. Possible values: <ul style="list-style-type: none"> 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
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
<i>Tab "Monitor the invoicing activity by billing period"</i>	
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
<i>Tab "Monitor the invoicing activity by fee type"</i>	
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 10 - 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.

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]

Screenshot – prompt

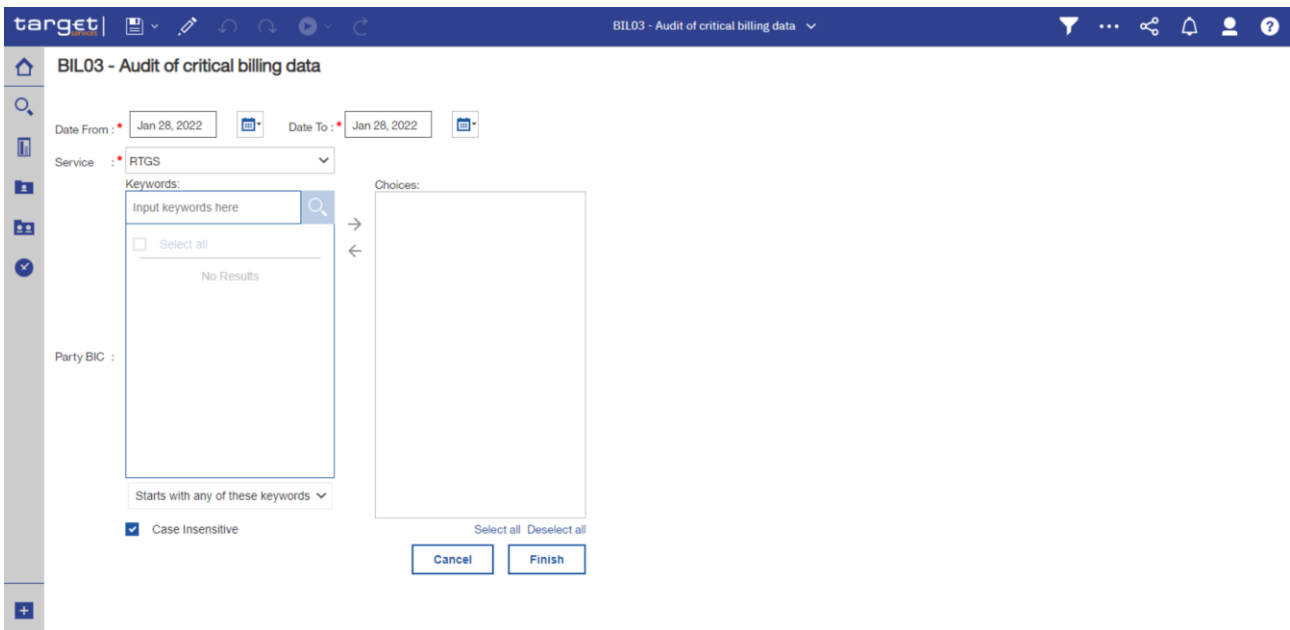


Figure 158 - BIL03 prompt

Prompt description

BIL03 – Report description – prompt screen	
Field label	Description
Service	Service for which the data shall be displayed. Possible values: RTGS

	<p>TIPS</p> <p>This field is mandatory.</p>
Date from	<p>You can select the date by clicking on the calendar.</p> <p>This field is mandatory.</p>
Date to	<p>You can select the end date of the period, for which the report should contain the data by clicking on the calendar.</p> <p>For valid report results, the current day cannot be selected.</p> <p>This field is mandatory.</p>
Party BIC	<p>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.</p> <p>This field is optional.</p>

Table 11 - BIL03 - Prompt description

Screenshot - output screen

The screenshot displays the 'BIL03 - Audit of critical billing data' report in the target services application. The interface includes a top navigation bar with the target logo and a search bar. The report title is 'BIL03 - Audit of critical billing data' with a timestamp of 2022-01-28 9:21:55 and environment 'DEV - Development'. The report content is as follows:

Central Bank of Fiction

Filters: Date From : 2021-01-28, Date To : 2022-01-28, Service : RTGS

Service: RTGS

Party BIC: NCBKSAMM002

Invoice configuration (Last update timestamp: 2021-05-29 12:00:00 AM)

Attributes	Old field value	New field value
Invoice configuration technical identifier		940001004
Tariff technical identifier		1
VAT ID		0
System entity		SNSA
Deletion status		ACTV
Service		RTGS
Party BIC		NCBKSAMM002
Direct invoicing		T
Tax exempt		F
Annual amount threshold		0
Direct charging		F
Credit account		MACASHPBAAAYAA0XXEUR1000
Debit account		CLMTRXTBBEEGA0XXTAQ0400
Creation timestamp		2021-05-29 09:43:21 AM

Figure 159 - BIL03 output (1) ("Invoice configuration")

The screenshot shows the Target Services interface for a report titled "BIL03 - Audit of critical billing data". The report is for the "Central Bank of Fiction" and is filtered by "Date From : 2021-01-28" and "Date To : 2022-01-28". The service is "RTGS". The report is on page 2 of 7. The main content is a table with the following columns: "Attributes", "Old field value", and "New field value". The table lists the following attributes:

Attributes	Old field value	New field value
Fee schedule technical identifier		
Tariff technical identifier		
Tariff name		
System entity		
Service item code		
Fee type		
Fee price		
Computation method		
Valid from		
Valid to		
Creation timestamp		

Figure 160 - BIL03 output (2) ("Fee schedule")

The screenshot shows the Target Services interface for a report titled "BIL03 - Audit of critical billing data". The report is for the "Central Bank of Fiction" and is filtered by "Date From : 2021-01-28" and "Date To : 2022-01-28". The service is "RTGS". The report is on page 3 of 7. The main content is a table with the following columns: "Attributes", "Old field value", and "New field value". The table lists the following attributes:

Attributes	Old field value	New field value
Fee band technical identifier		
Fee schedule technical identifier		
System entity		
Service item code		
Band price		
Lower bound		
Upper bound		
Creation timestamp		

Figure 161 - BIL03 output (3) ("Fee band")

target | BIL03 - Audit of critical billing data

target | BIL03 - Audit of critical billing data 2022-01-28 9:21:55 DEV - Development

Central Bank of Fiction

Filters | Date From : 2021-01-28 Service : RTGS
Date To : 2022-01-28

VAT

Attributes	Old field value	New field value
VAT technical identifier		
System entity		
Service		
Party BIC (of the CB)		
Default flag		
VAT mnemonic		
VAT percentage		
Creation timestamp		

Page: 4 of ?

Top Page up Page down Bottom

Figure 162 - BIL03 output (4) ("VAT")

target | BIL03 - Audit of critical billing data

target | BIL03 - Audit of critical billing data 2022-01-28 9:21:55 DEV - Development

Central Bank of Fiction

Filters | Date From : 2021-01-28 Service : RTGS
Date To : 2022-01-28

Service

Attributes	Old field value	New field value
Service item technical identifier		
Service		
Category		
Service item code		
Classification		
Creation timestamp		

Page: 5 of ?

Top Page up Page down Bottom

Figure 163 - BIL03 output (5) ("Service")

Output description

BIL03 – Report description – output screen	
Field label	Description
Party BIC	BIC of the party, for which the audit for critical billing data is shown in the following table
<i>The following information is shown per critical data item (entity – see following list for possible values):</i>	
Entity name	Name of the critical data entity. Possible values: <ul style="list-style-type: none"> Invoice configuration Fee schedule Fee band VAT Billing group Service item
Last update timestamp	Timestamp of the last update to attributes of this critical data item
<i>The following information is shown per attribute of the critical data item (entity – see following list for possible values):</i>	
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 12 - BIL03 - Output description

Critical data fields

BIL03 – List of billing critical data entities and attributes	
Entity	Attribute
Invoice configuration	Service
Invoice configuration	Party BIC
Invoice configuration	Direct invoicing
Invoice configuration	Tax exempt
Invoice configuration	Annual amount threshold
Invoice configuration	Direct charging

Invoice configuration	Credit account
Invoice configuration	Debit account
Fee schedule	Tariff name
Fee schedule	Service item code
Fee schedule	Fee type
Fee schedule	Fee price
Fee schedule	Computation method
Fee schedule	Valid from
Fee schedule	Valid to
Fee band	Service item code
Fee band	Band price
Fee band	Lower bound
Fee band	Upper bound
VAT	Service
VAT	Party BIC (of the CB)
VAT	Default flag
VAT	VAT mnemonic
VAT	VAT percentage
Billing group	Billing group leader
Tariff	Service
Tariff	Tariff name

Table 13 - 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 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

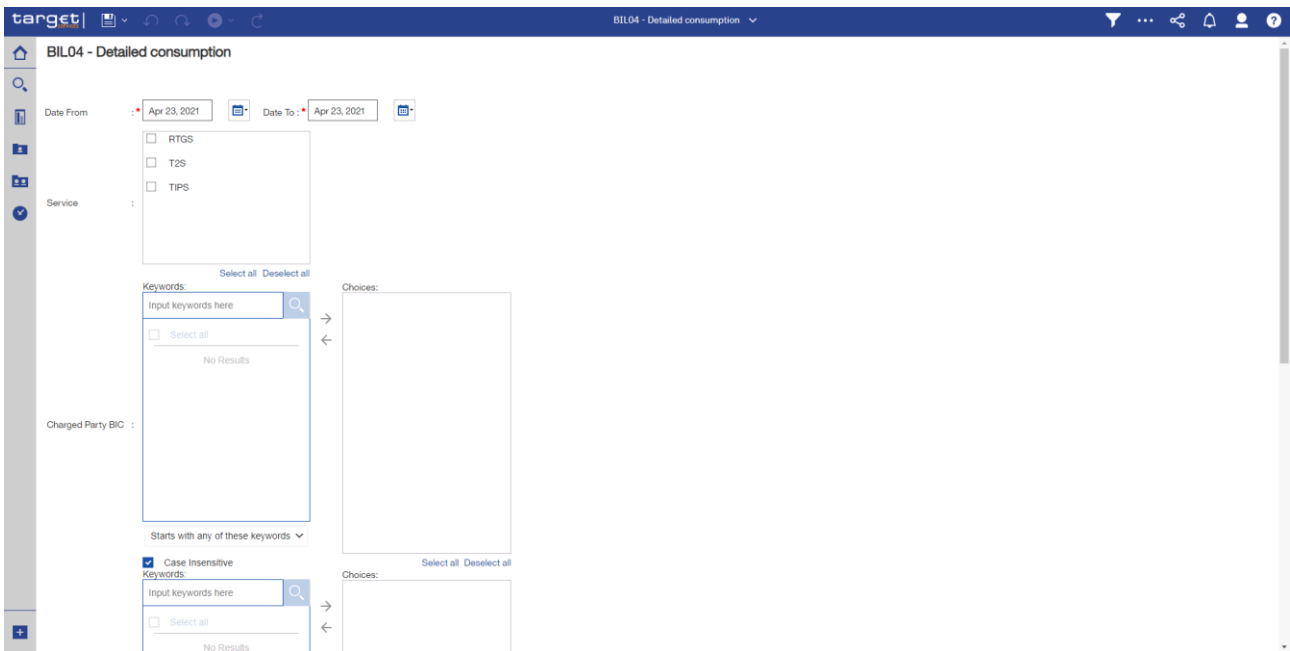


Figure 164 - BIL04 prompt (1)

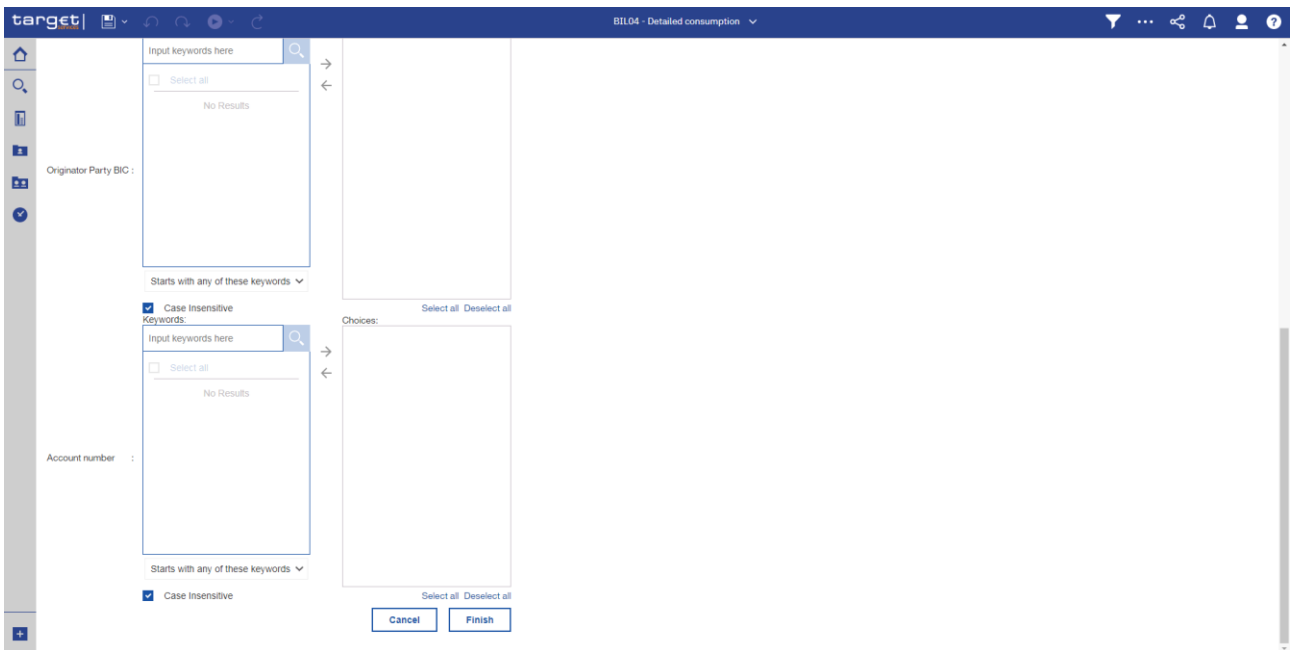


Figure 165 - BIL04 prompt (2)

Prompt description

BIL04 – Report description – prompt screen	
Field label	Description
Date from	<p>You can select the date by clicking on the calendar.</p> <p>This field is mandatory.</p>
Date to	<p>You can select the end date of the period, for which the report should contain the data by clicking on the calendar.</p> <p>For valid report results, the current day cannot be selected.</p> <p>This field is mandatory.</p>
Service	<p>Service for which the data shall be displayed.</p> <p>Possible values:</p> <ul style="list-style-type: none"> RTGS TIPS <p>This field is mandatory.</p>

Charged party BIC and name	<p>BIC and name of the party to be charged</p> <p>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.</p> <p>This field is optional.</p>
Originator party BIC and name	<p>BIC and name of the party originating the charge</p> <p>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.</p> <p>This field is optional.</p>
Account number	<p>Account number to which the service item is linked</p> <p>This field is optional.</p>

Table 14 - BIL04 - Prompt description

Screenshot - output screen

Service	Charged party BIC	Charged party name	Charged party type	Account number	Responsible party BIC	Responsible party name	Originator party BIC	Originator party name	Service item category	Service item code	Service item description	Quantity
RTGS	PBAAKMD00XX	Banco de Isthmus	Payment Bank	MACASHPBAAKMD00XXEUR0A01	CBXXKMD00XX	Central Bank of Fiction	PBAAKMD00XX	Banco de Isthmus	Information Services	5002	Fixed fee - RTGS account	15
RTGS	PBAAKMD00XX	Banco de Isthmus	Payment Bank	MACASHPBAAKMD00XXEUR0A01	CBXXKMD00XX	Central Bank of Fiction	PBAAKMD00XX	Banco de Isthmus	Account Management Services	5002	Fixed fee - RTGS account	11
RTGS	PBAAKMD00XX	Banco de Isthmus	Payment Bank	MACASHPBAAKMD00XXEUR0A01	CBXXKMD00XX	Central Bank of Fiction	PBAAKMD00XX	Banco de Isthmus	Account Management Services	5002	Fixed fee - RTGS account	14
RTGS	PBAAKMD00XX	Banco de Isthmus	Payment Bank	MACASHPBAAKMD00XXEUR0A01	CBXXKMD00XX	Central Bank of Fiction	PBAAKMD00XX	Banco de Isthmus	Information Services	5004	Adressable BIC - Correspondent	14
RTGS	PBAAKMD00XX	Banco de Isthmus	Payment Bank	MACASHPBAAKMD00XXEUR0A01	CBXXKMD00XX	Central Bank of Fiction	PBAAKMD00XX	Banco de Isthmus	Account Management Services	5004	RTGS AS cash transfer order	10
RTGS	PBAAKMD00XX	Banco de Isthmus	Payment Bank	MACASHPBAAKMD00XXEUR0A01	CBXXKMD00XX	Central Bank of Fiction	PBAAKMD00XX	Banco de Isthmus	Account Management Services	5004	RTGS AS cash transfer order	6
RTGS	PBAAKMD00XX	Banco de Isthmus	Payment Bank	MACASHPBAAKMD00XXEUR0A01	CBXXKMD00XX	Central Bank of Fiction	PBAAKMD00XX	Banco de Isthmus	Information Services	5005	Fee for unpublished BIC	13
RTGS	PBAAKMD00XX	Banco de Isthmus	Payment Bank	MACASHPBAAKMD00XXEUR0A01	CBXXKMD00XX	Central Bank of Fiction	PBAAKMD00XX	Banco de Isthmus	Account Management Services	5005	Adressable BIC - Correspondent	4

Figure 166 - BIL04 Output

Output description

BIL04 – Report description – output screen	
Field label	Description
Date	Date, for which detailed consumption data are shown
<i>The following information is shown per date within the chosen date range.</i>	
Service	Service where the detailed consumption data are shown. Possible values: <ul style="list-style-type: none"> RTGS TIPS
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
Service Item Category	Possible values are: <ul style="list-style-type: none"> Settlement Services (SETT) Account Management Services (ACMS) Information Services (INSV)

<p>Service item code</p>	<p>Following service item codes are currently available:</p> <ul style="list-style-type: none"> 5002 5004 5005 5006 5007 5008 5009 5011 5012 5015 5016 3001 3002 3003 3004
<p>Service item description</p>	<p>Following service item descriptions are currently available:</p> <ul style="list-style-type: none"> Fixed fee – RTGS account (5002) Addressable BIC – Correspondent (5004) Fee for unpublished BICs (5005) Fee for multi-addressee (5006) Ancillary system – Core fixed fee (5007) Ancillary system – Fixed fee I (5008) Ancillary system – Fixed fee II (5009) RTGS payment order (5011) RTGS AS Cash transfer orders (5012) Inter-banking group intra-component liquidity transfer order (5015) Inter-banking group inter-component liquidity transfer order (5016) Settled Instant Payment transaction (3001) Unsettled Instant Payment transaction (3002) Settled Positive Recall answer (3003) Unsettled Positive Recall answer (3004)

Quantity	Number of the service items counted
----------	-------------------------------------

Table 15 - 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 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]

Screenshot – prompt

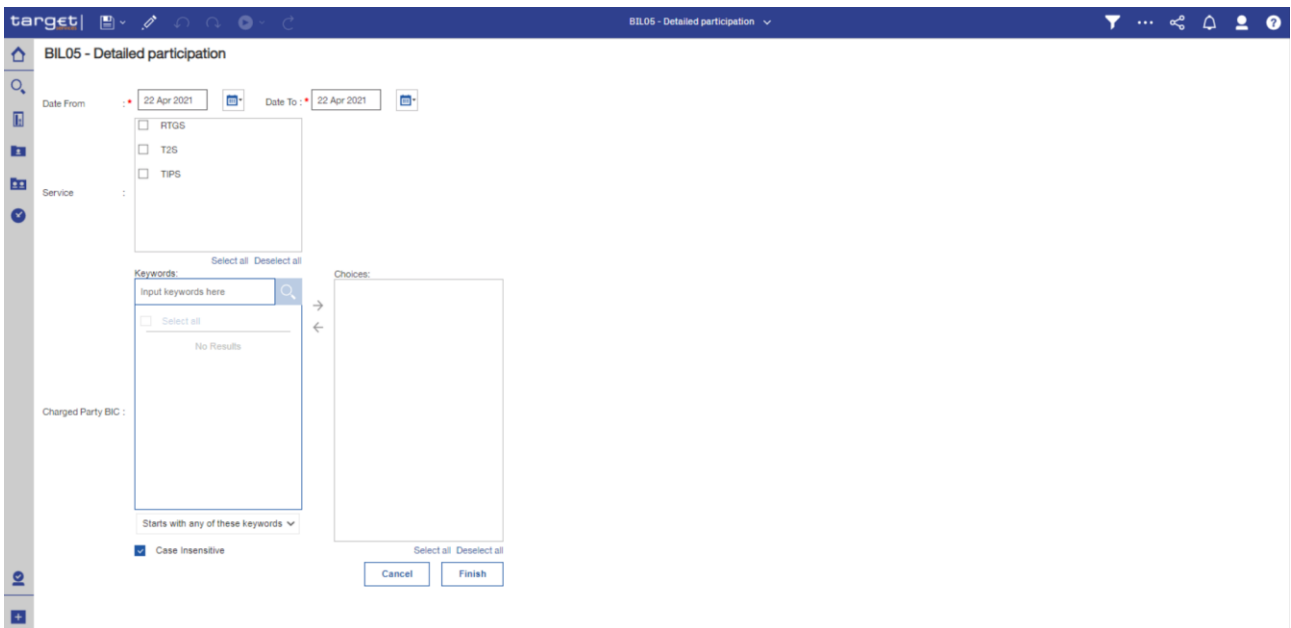


Figure 167 - BIL05 prompt

Prompt description

BIL05 – Report description – prompt screen	
Field label	Description
Date from	<p>You can select the date by clicking on the calendar.</p> <p>This field is mandatory.</p>
Date to	<p>You can select the end date of the period, for which the report should contain the data by clicking on the calendar.</p> <p>For valid report results, the current day cannot be selected.</p> <p>This field is mandatory.</p>
Service	<p>Service for which the data shall be displayed.</p> <p>Possible values:</p> <ul style="list-style-type: none"> RTGS TIPS <p>This field is mandatory.</p>
Charged party BIC and name	<p>BIC and name of the party to be charged</p> <p>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.</p> <p>This field is optional.</p>

Table 16 - BIL05 - Prompt description

Screenshot - output screen

Service	Charged party BIC	Charged party name	Charged party type	Responsible party BIC	Responsible party name	Sum of Consumptions for Settlement Services	Sum of Consumptions for Account Management Services	Sum of Consumptions for Information Services
RTGS	PBAAKMD000X	Banco de Isthmus	Payment Bank	CB00XMD000X	Central Bank of Fiction	904	990	1,056
RTGS	PBAAKMD000X	Gringotts Bank	Payment Bank	CB00XMD000X	Central Bank of Fiction	792	858	924
RTGS	PBACKMD000X	Iron Banks of Braavos	Payment Bank	CB00XMD000X	Central Bank of Fiction	296	308	330
RTGS	PBADM0000X	Banque Mamon	Payment Bank	CB00XMD000X	Central Bank of Fiction	330	352	374
RTGS	PBAFKMD000X	Dagobert Duck Thrift	Payment Bank	CB00XMD000X	Central Bank of Fiction	418	440	462
RTGS	PBAGKMD000X	Woodgrove Bank	Payment Bank	CB00XMD000X	Central Bank of Fiction	462	484	506
RTGS	PBAHKMD000X	Goliath National Bank Ltd	Payment Bank	CB00XMD000X	Central Bank of Fiction	506	528	550
RTGS	PBBAKMD000X	Telson's Mutual	Payment Bank	CB00XMD000X	Central Bank of Fiction	550	572	594
RTGS	PBBEKMD000X	Banca de Bondi	Payment Bank	CB00XMD000X	Central Bank of Fiction	594	616	638
RTGS	PBBCKMD000X	Fidelity Savings & Trust	Payment Bank	CB00XMD000X	Central Bank of Fiction	638	660	682
RTGS	PBBEKMD000X	Banco di San Giorgio	Payment Bank	CB00XMD000X	Central Bank of Fiction	2,244	2,310	2,376
RTGS	PBBHKMD000X	Monte Pio	Payment Bank	CB00XMD000X	Central Bank of Fiction	1,738	1,782	1,826
RTGS	PBMFKMD000X	Par ò Six Overt Bank	Payment Bank	CB00XMD000X	Central Bank of Fiction	198	220	242

Figure 168 - 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
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 17 - BIL05 - Output description

5.4 Contingency reports (CON)

5.4.1 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]

Screenshot – prompt

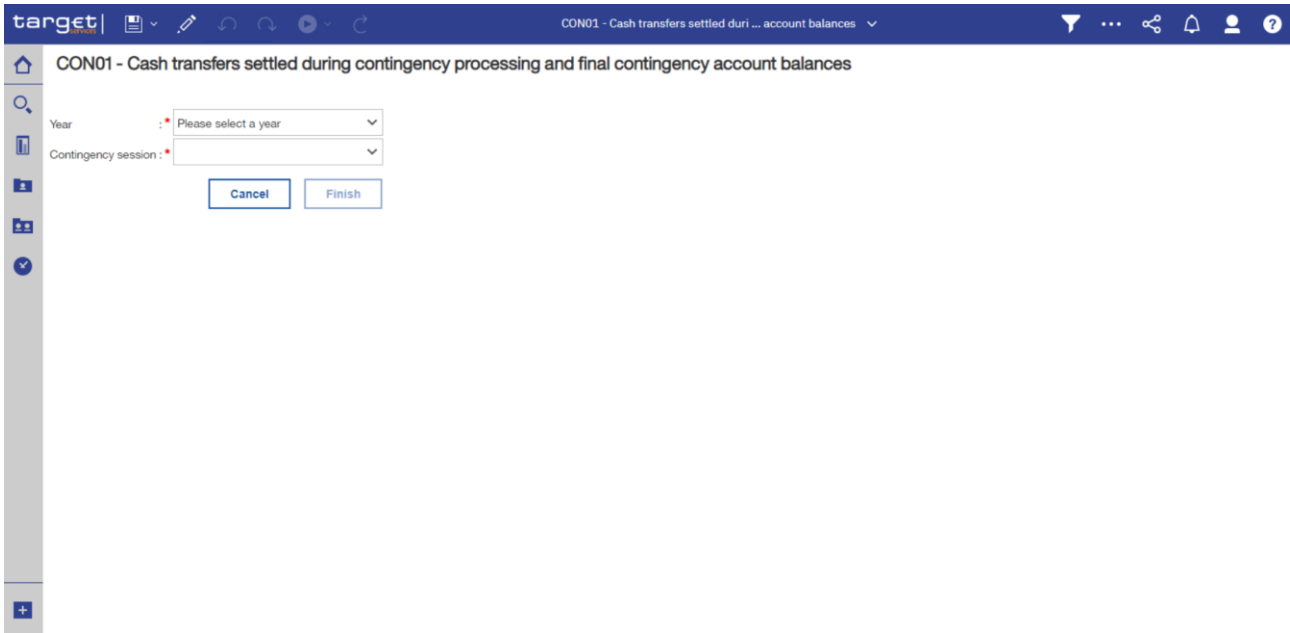


Figure 169 - CON1 prompt

Prompt description

CON01 – Report description – prompt screen	
Field label	Description
Year	<p>You can use this drop-down field to select the year, from which the report should contain the data.</p> <p>This field is mandatory.</p>
Contingency session	<p>You can select the contingency session, for which the report should contain the data, depending on the chosen year.</p> <p>This field is mandatory.</p>

Table 18 - CON01 - Prompt description

Screenshot - output screen

target | CON01 - Cash transfers settled during contingency processing and final contingency account balances

Synthesis of contingency accounts settlements during the contingency procedure and final balances

target | CON01 - Cash transfers settled during contingency processing and final contingency account balances

2022-01-28 9:44:35 DEV - Development

CBXXXM00XXX - Central Bank of Fiction

Year : 2021
Contingency session : from 01-06 09:55:01 to 01-06 16:05:16

Responsible CB : SE - ST 500000006
Currency : EUR
Synthesis of contingency accounts settlements during the contingency procedure and final balances
Contingency Session from 2021-01-06 09:55:01 to 2021-01-06 16:05:16

Party BIC	Parent party BIC	Contingency account number	Injection of drain or liquidity			Total credit	Total debit	Session balance
			CB	T2S	TIPS			
B50000010X	B50000006X	ECCA0untContingency	0.00	0.00	8,000,160.00	0.00	0.00	8,000,160.00
B50000010X	B50000006X	TACCBACC	0.00	0.00	0.00	0.00	0.00	0.00
B50000014X	B50000006X	ECCA2untContingency	0.00	8,000,224.00	0.00	0.00	0.00	8,000,224.00
B50000014X	B50000006X	RTGSSBPBAKEF0001EUR0001	0.00	0.00	0.00	0.00	0.00	0.00
B50000015X	B50000006X	ECCA2untConTestUpdate	0.00	8,000,240.00	0.00	0.00	0.00	8,000,240.00
B50000015X	B50000006X	RTGSSBPBAKEF0002EUR0001	0.00	0.00	0.00	0.00	0.00	0.00
B50000016X	B50000006X	ECCA2untContingency2	0.00	8,000,256.00	0.00	0.00	0.00	8,000,256.00
B50000016X	B50000006X	RTGSSBPBAKEF0003EUR0001	0.00	0.00	0.00	0.00	0.00	0.00
B50000020X	B50000006X	ECCA0untConTestUpdate	0.00	0.00	8,000,320.00	0.00	0.00	8,000,320.00
B50000020X	B50000006X	TACCCACC	0.00	0.00	0.00	0.00	0.00	0.00
B50000030X	B50000006X	ECCA0untContingency2	0.00	0.00	8,000,480.00	0.00	0.00	8,000,480.00
B50000030X	B50000006X	TACCDACC	0.00	0.00	0.00	0.00	0.00	0.00
B50000034X	B50000006X	1914101496	0.00	0.00	0.00	0.00	0.00	0.00
B50000034X	B50000006X	ECCA3untContingency	0.00	8,000,544.00	0.00	0.00	0.00	8,000,544.00
B50000035X	B50000006X	ASTECHASACGHF0001EUR0002	0.00	0.00	0.00	0.00	0.00	0.00

Figure 170 - CON01 output (1) (“Synthesis of contingency accounts settlements during the contingency procedure and final balances”)

target | CON01 - Cash transfers settled during contingency processing and final contingency account balances

Synthesis of contingency accounts settlements during the contingency procedure and final balances

target | CON01 - Cash transfers settled during contingency processing and final contingency account balances

2022-01-28 9:44:35 DEV - Development

CBXXXM00XXX - Central Bank of Fiction

Year : 2021
Contingency session : from 01-06 09:55:01 to 01-06 16:05:16

Responsible CB : SE - ST 500000006
Currency : EUR
Details on contingency cash transfers settled
Contingency Session from 2021-01-06 09:55:01 to 2021-01-06 16:05:16

Party BIC	Parent party BIC	Contingency account number	Settlement timestamp	Counterpart contingency account number	Counterpart CB	Credit	Debit
B50000010X	B50000006X	ECCA0untContingency	2021-01-06 10:00:01	TACCBACC	SE	0	0
B50000010X	B50000006X	TACCBACC	2021-01-06 10:00:01	ECCA0untContingency	BED1	0	0
B50000010X	B50000006X	TACCBACC	2021-01-06 10:00:06	ECCA1untContingency2	BED1	0	0
B50000014X	B50000006X	ECCA2untContingency	2021-01-06 16:00:11	RTGSSBPBAKEF0001EUR0001	SE	0	0
B50000014X	B50000006X	RTGSSBPBAKEF0001EUR0001	2021-01-06 16:00:11	ECCA2untContingency	BED1	0	0
B50000015X	B50000006X	ECCA2untConTestUpdate	2021-01-06 16:00:12	RTGSSBPBAKEF0002EUR0001	SE	0	0
B50000015X	B50000006X	RTGSSBPBAKEF0002EUR0001	2021-01-06 16:00:12	ECCA2untConTestUpdate	BED1	0	0
B50000016X	B50000006X	ECCA2untContingency2	2021-01-06 16:00:13	RTGSSBPBAKEF0003EUR0001	SE	0	0
B50000016X	B50000006X	RTGSSBPBAKEF0003EUR0001	2021-01-06 16:00:13	ECCA2untContingency2	BED1	0	0
B50000020X	B50000006X	ECCA0untConTestUpdate	2021-01-06 10:00:02	TACCCACC	SE	0	0
B50000020X	B50000006X	TACCCACC	2021-01-06 10:00:02	ECCA0untConTestUpdate	BED1	0	0
B50000030X	B50000006X	ECCA0untContingency2	2021-01-06 10:00:03	TACCDACC	SE	0	0
B50000030X	B50000006X	TACCDACC	2021-01-06 10:00:03	ECCA0untContingency2	BED1	0	0
B50000034X	B50000006X	1914101496	2021-01-06 16:00:14	ECCA3untContingency	BED1	0	0
B50000034X	B50000006X	ECCA3untContingency	2021-01-06 16:00:14	1914101496	SE	0	0
B50000035X	B50000006X	ASTECHASACGHF0001EUR0002	2021-01-06 16:00:15	ECCA3untConTestUpdate	BED1	0	0

Figure 171 - CON01 output (2) (“Details on contingency cash transfers settled”)

Output description

CON01 – Report description – output screen	
Sheet 1	
Field label	Description
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. 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 contingency account when the counterparty of the liquidity transfer is the CB contingency account.
Injection or drain of liquidity – 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.
Injection or drain of liquidity - 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 congingency session	
Party BIC	BIC of the CB

Contingency account number	The contingency account number of the CB
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.
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
Sheet 2	
Field label	Description
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
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 19 - CON01 - Output description

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

Context of usage

This report provides the balance for each CB contingency account at the end of a contingency procedure. 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.

Report access

This report can be reached in the following way:

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

Screenshot – prompt

The screenshot shows a web application interface for generating a report. At the top, there is a dark blue header with the 'target SERVICES' logo on the left and navigation icons on the right. Below the header, the main content area has a title bar that reads 'CON02 - Contingency processing - end of procedure account balances per CB'. On the left side, there is a vertical sidebar with several icons. The main area contains a form with two dropdown menus. The first is labeled 'Year' and has a red asterisk followed by the text ': * Please select a year'. The second is labeled 'Contingency session' and also has a red asterisk. Below these dropdowns are two buttons: 'Cancel' and 'Finish'.

Figure 172 - CON02 prompt

Prompt description

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

Table 20 - CON02 - Prompt description

Screenshot - output screen

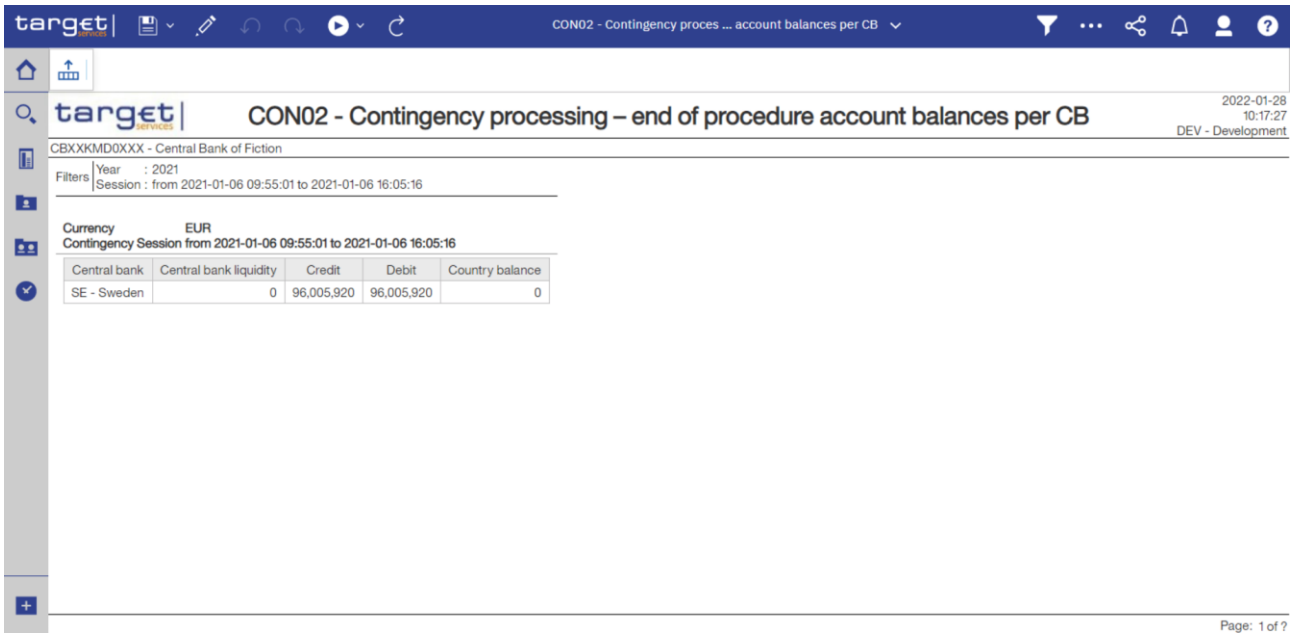


Figure 173 - CON02 output (2)

Output description

CON02 – Report description – output screen	
Field label	Description
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.
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 21 - CON02 - Output description

5.5 Data extraction reports (DEX)

5.5.1 DEX01 - Monitoring data extraction request(s)

Context of usage

This report provides information on data extraction requests (DEX02) by CB users for a given date (range). For each data extraction request, the user, the request date and the status is provided.

CBs can retrieve information on extraction requests of users 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] >> [DEX – Data Extraction Reports] >> [DEX01]

Screenshot – prompt

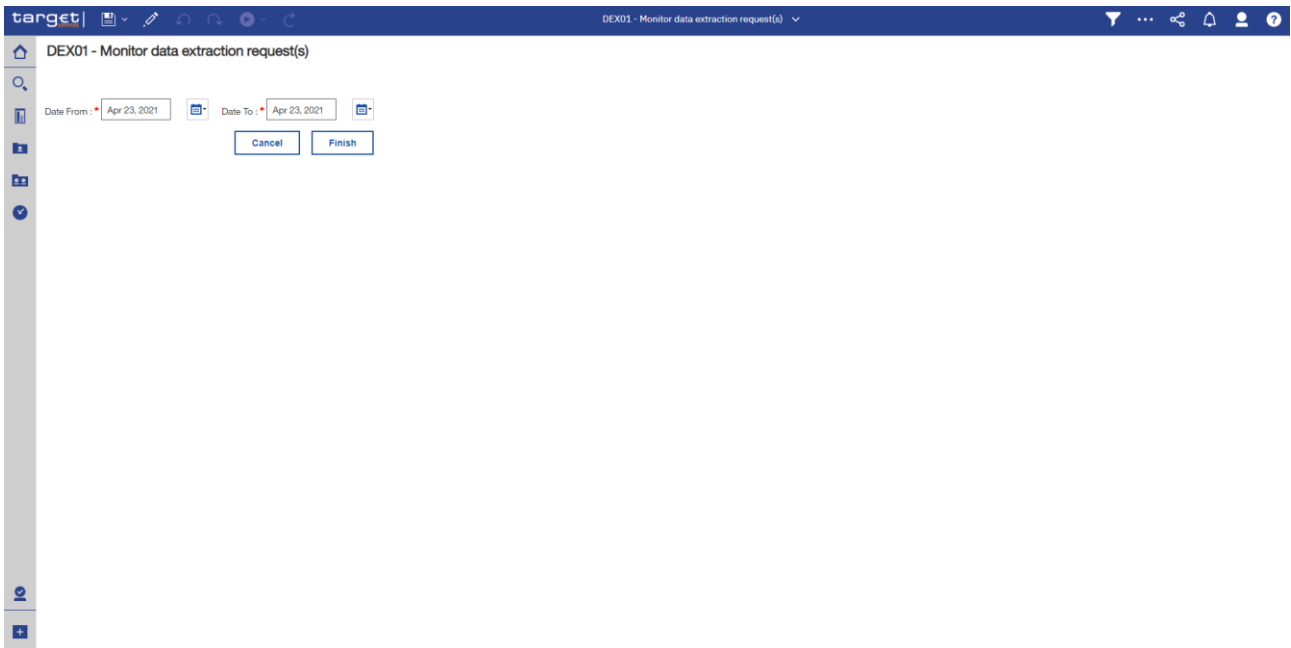


Figure 174 - DEX01 prompt

Prompt description

DEX01 – Report description – prompt screen	
Field label	Description
Date from	<p>You can select the date by clicking on the calendar.</p> <p>This field is mandatory.</p>
Date to	<p>You can select the end date of the period, for which the report should contain the data by clicking on the calendar.</p> <p>For valid report results, the current day cannot be selected.</p> <p>This field is mandatory.</p>

Table 22 - DEX01 - Prompt description

Screenshot - output screen

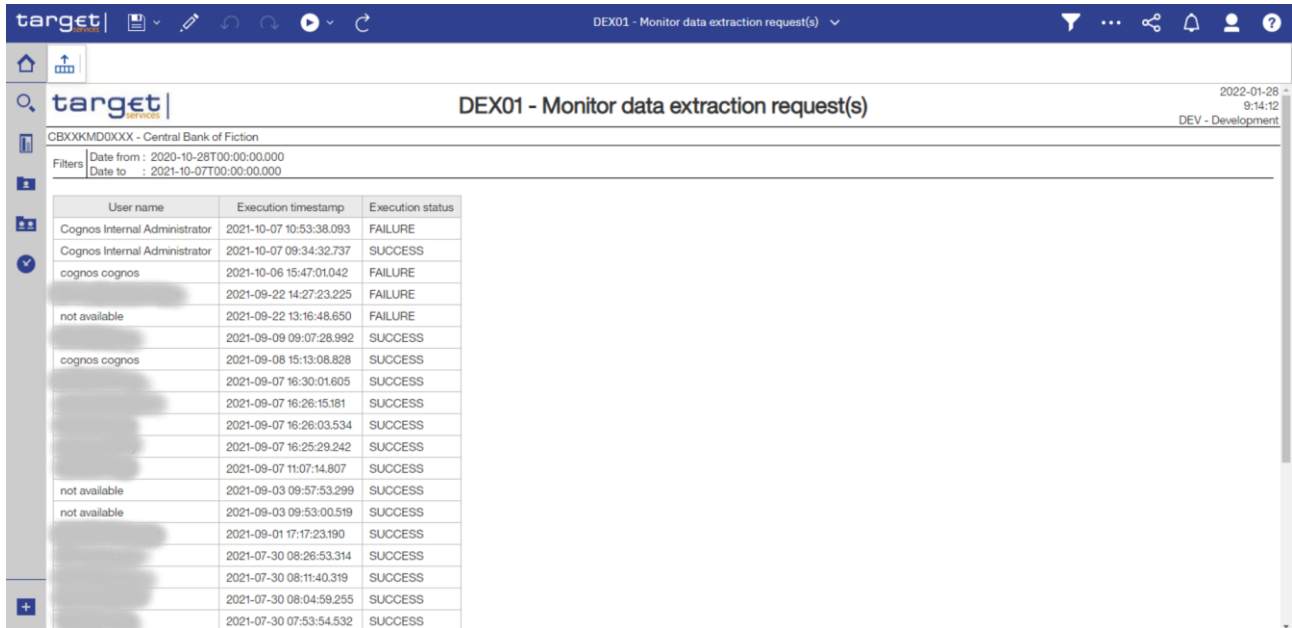


Figure 175 - DEX01 output

Output description

DEX01 – Report description – output screen	
Field label	Description
User name	Name of the user
Execution timestamp	The timestamp of the execution of the DEX02 report
Execution status	Indication whether the report execution and generation was successful or not. Possible values are: <ul style="list-style-type: none"> Failure Success

Table 23 - DEX01 - Output description

5.5.2 DEX02 - Data extraction request

Context of usage

This report is used to submit requests for the extraction of CLM and RTGS data for a given date (range). CBs can retrieve (transaction level and party) data within their own data scope. The data extraction period is limited to a maximum of five business days. The data is only provided as one single file in CSV format via A2A, it does not provide a GUI screen for the report result.

This report can be used by CB users only.

Report access

This report can be reached in the following way:

[Team Content] >> [Predefined Reports] >> [DEX – Data Extraction Reports] >> [DEX02]

Screenshot – prompt

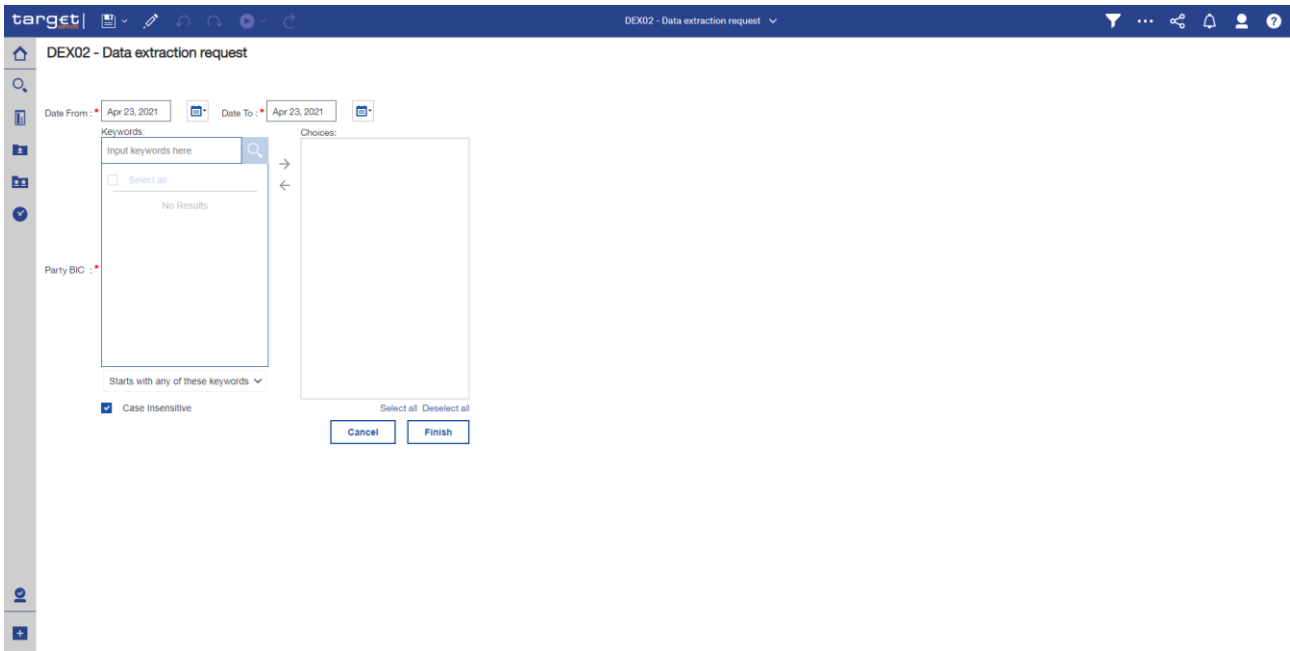


Figure 176 - DEX02 prompt

Prompt description

DEX02 – 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.
Party BIC	You can use this search and select prompt to be able to search for the party BIC or short name you wish to extract data for. 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 24 - DEX02 - Prompt description

Screenshot - output screen

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

Output description

In following the functional structure of the output file is provided. The CSV-output-file contains one row per instance of the functional data object returned. The beginning of each row in the file begins with an indicator of the functional data object. All functional data objects are contained in the listed order:

DEX02 – Report description – CSV file structure	
Filename attributes:	
Attribute	Description
“Data extraction request”	Fixed text
Country code	2 character ISO country code of the requesting CB
Currency code	3 character ISO currency code of the CB
Date from	Date from as requested in prompt screen (YYYY-MM-DD)

Date to	Date to as requested in prompt screen (YYYY-MM-DD)
Business Day Event:	
Repeatable block for each business day within the selected date range according to the requested data range:	
Field content	Description
"BDE"	Indicator of each Business day event – row in the output
Business date	Business date of the selected data
Event code	The event code as delivered by the CLM/RTGS service. The list of events is not static because the set of events may change.
Planned time	The planned time corresponds to the standard schedule applied by default. Only for time-based events. Non-time based events show a default value: "9999-01-01 00:00:00"
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. Non-time based events show a default value: "9999-01-01 00:00:00"
Party:	
Repeatable block for each selected party within the data scope of the current user. The most recent valid party data within the date range (at the last day of the selected date range) are delivered:	
Field content	Description
"PAR"	Indicator of each "Party"-row in the output
Party BIC	BIC of the party whose details are listed in the following fields
Party type	Party type of the party
Banking Group name	The name of the banking group this party belongs to (empty if none)
Leading CLM Account Holder BIC	The BIC of the leading party Display only if the leading party is within the data scope of the current user
LEI	Legal entity identifier
Party short name	Short name of the party
Party long name	Long name of the party
Party opening date	Opening date of the party

Party close date	Closing date of the party
Deletion status	Deletion status of the party

Cash accounts of the party in previous party block:

Each cash account data followed by the cash transfers, credit lines, reservations and limits on that account are reported on per business day

Repeatable block for each cash account (in CLM and RTGS) of the party:

Field content	Description
"ACC"	Indicator of each cash account – row in the output
Business date	Business day of the selected data
Account BIC	Account BIC
Account number	Account number
Account type	Account type
Currency Code	ISO currency code of the account
Liquidity Transfer Group name	The liquidity transfer group of this cash account (empty if none)
Account Monitoring Group name	The account monitoring group of this cash account (empty if none)
Settlement Bank Account Group name	The settlement bank account group of this cash account (empty if none)
Credit based only flag	Indicates whether the account is credit based only
Standing Facilities Interest Flag	Indicates if the CB uses this CLM CB account for Standing facilities interest
Minimum Reserve Interest Flag	Indicates if the CB uses this CLM CB account for Minimum Reserve interest
Service party type	Identifies the settlement service a party belongs to
Balance of account – SoD	Balance of this DCA at the start of the above mentioned business day
Credit line amount at SoD	Credit line of this DCA at the start of the above mentioned business day. Only for accounts in CLM, empty for accounts in RTGS or if none.

Cash transfers of the cash account:

Repeatable block per cash transfer during each business day for the current cash account:

Field content	Description
"TRA"	Indicator of the cash transfer row
Business date	The business day of the cash transfer
Entry timestamp	Timestamp of entry in CLM/RTGS

UETR	Universal-End-to-End-Transaction Reference
End-to-End Reference	End-to-End-Transaction Reference
Instruction Identification	Instruction Identification (InstrId)
Transaction Identification	Transaction Identification (TxId)
Settlement Reference	Settlement Reference
Transaction Reference Number	Technical Identifier of the transfer
Message type	Exhaustive list of possible values: <ul style="list-style-type: none"> camt.050 pacs.004 pacs.008 pacs.009 pacs.010 pain.998 (ASTI)
Settlement status description	Output contains cash transfers in final status: <ul style="list-style-type: none"> Settled Partially Settled Rejected Cancelled (Revoked)
Cash transfer type	Cash transfer type
Priority	Priority of the cash transfer
Transaction classifier	Classification of the cash transfer according to statistical classification framework
Global Filter	More than one global filter can be provided
Local Filter for CLM	More than one local filter for CLM can be provided
Local Filter for RTGS	More than one local filter for RTGS can be provided
From Service	The service from which the cash transfer is initiated
To Service	Counterparty service
On behalf	On behalf flag
Business Case Code	Code indicating the context of a business case
Settlement timestamp	Timestamp of effective settlement

Country code of the counterparty	ISO country code of the counterparty
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 the debited account
Credited account BIC	Credited account BIC
Credited account number	Credited account 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
Originator BIC	BIC of the originator of the cash transfer
Beneficiary BIC	BIC of the beneficiary of the cash transfer
Currency	ISO currency code
Settlement value	Debit or credit amount
Reversed Payment Indicator	
Error code (if provided)	Error code (if provided)
Credit line changes of the cash account:	
Repeatable block for each business day within the selected date range for the current cash account:	
Field content	Description
"CLC"	Indicator of a credit line row
Business date	Business date of the limit change
Account number	Account number of the current cash account
Credit line amount	Amount of the changed credit line
Timestamp	Timestamp of the credit line change
Reservation:	
Repeatable block for each business day within the selected date range and for the current cash account:	
Field content	Description
"RES"	Indicator of a reservation line for the cash account
Business date	Business date of the reservation

Account number	Account number of the current cash account
Type	Type of the reservation
Reservation amount	Amount of the reservation
Timestamp	Timestamp of the reservation
Limit (Bilateral/Multilateral):	
Repeatable block for each business day within the selected date range for the current cash account:	
Field content	Description
"LIM"	Indicator of a limit row
Business date	Business date of the limit
Account BIC	BIC of the current cash account
To Cash Account BIC	BIC of the target account
Bilateral limit amount	Defined bilateral limit amount
Bilateral limit timestamp	Defined bilateral limit timestamp
Multilateral limit amount	Defined multilateral limit amount
Multilateral limit timestamp	Defined multilateral limit timestamp

Table 25 - DEX02 - Output description

5.6 Intraday credit reports (IDC)

5.6.1 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

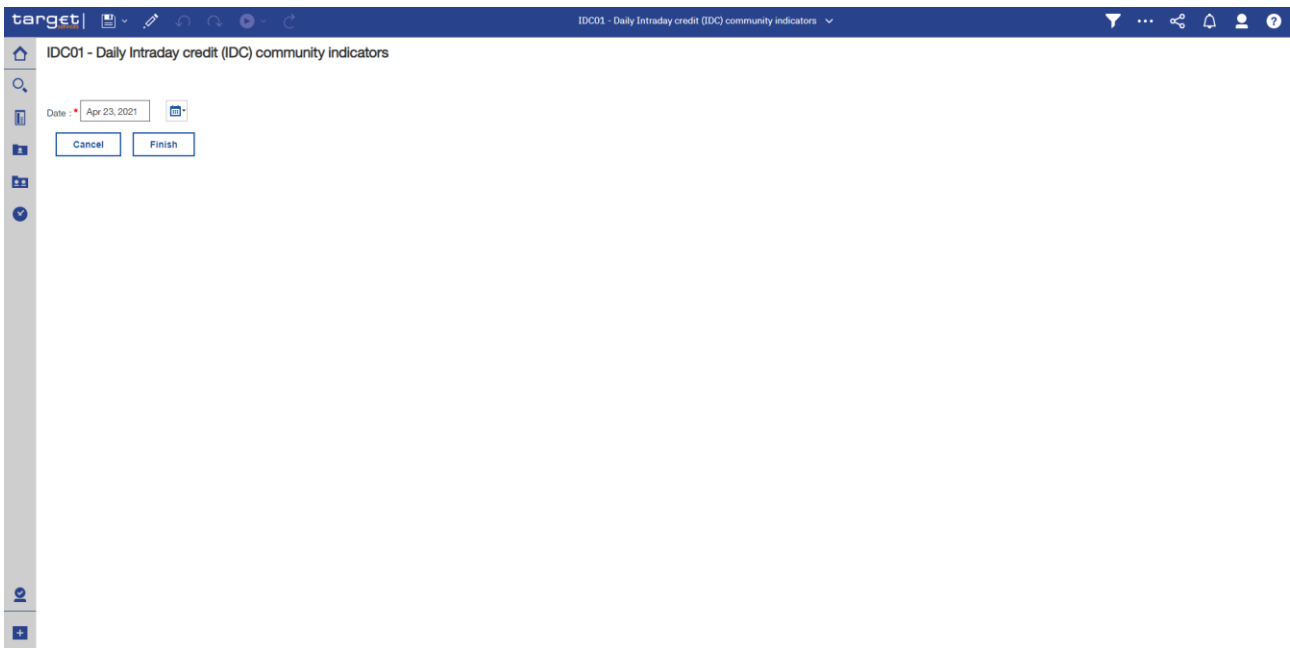


Figure 177 - IDC01 prompt

Prompt description

IDC01 – Report description – prompt screen

Field label	Description
Date	<p>You can select the date by clicking on the calendar.</p> <p>For valid report results, the current day cannot be selected.</p> <p>This field is mandatory.</p>

Table 26 - IDC01 - Prompt description

Screenshot - output screen

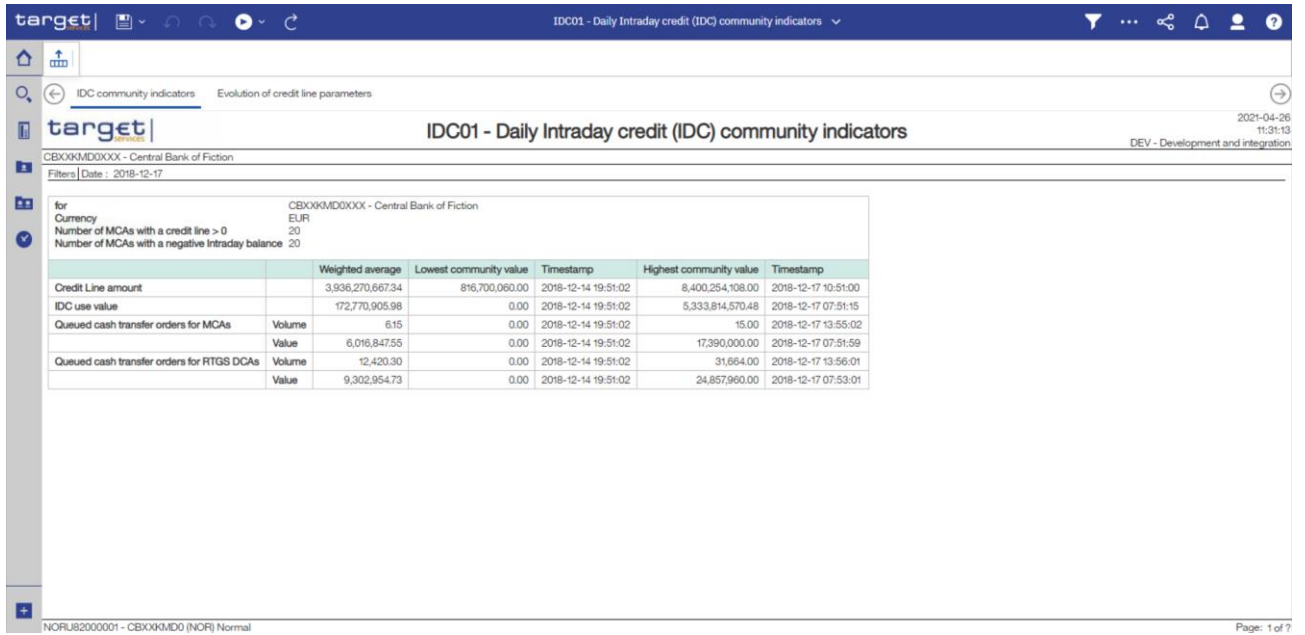


Figure 178 - IDC01 Output (1)

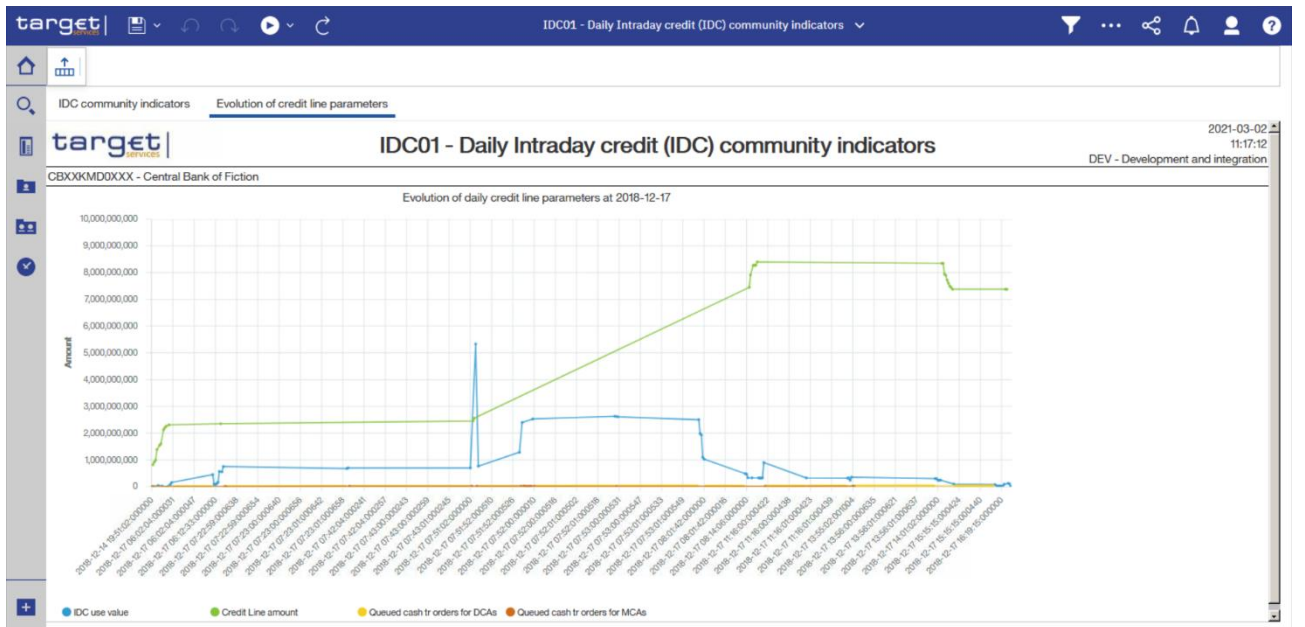


Figure 179 - IDC01 Output (2)

Output description

IDC01 – Report description – output screen	
Field label	Description
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 level	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
Highest community level	Highest community level of the IDC used
Timestamp	For highest community level
Queued cash transfer orders for MCAs	Queued cash transfer orders for the default MCAs
Volume / Value	
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	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
Volume / Value	
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
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 27 - IDC01 - Output description

5.6.2 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

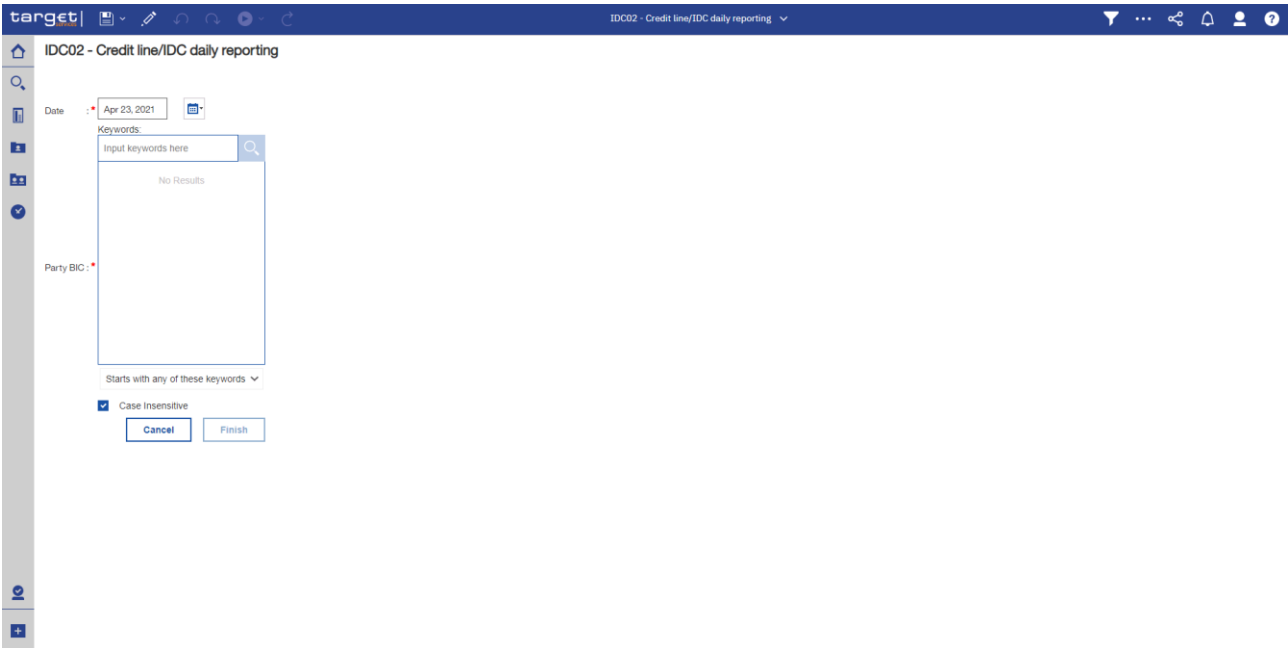


Figure 180 - IDC02 prompt

Prompt description

IDC02 – Report description – prompt screen	
Field label	Description
Date	<p>You can select the date by clicking on the calendar.</p> <p>For valid report results, the current day cannot be selected.</p> <p>This field is mandatory.</p>
Party BIC	<p>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.</p> <p>This field is mandatory.</p>

Table 28 - IDC02 - Prompt description

Screenshot - output screen

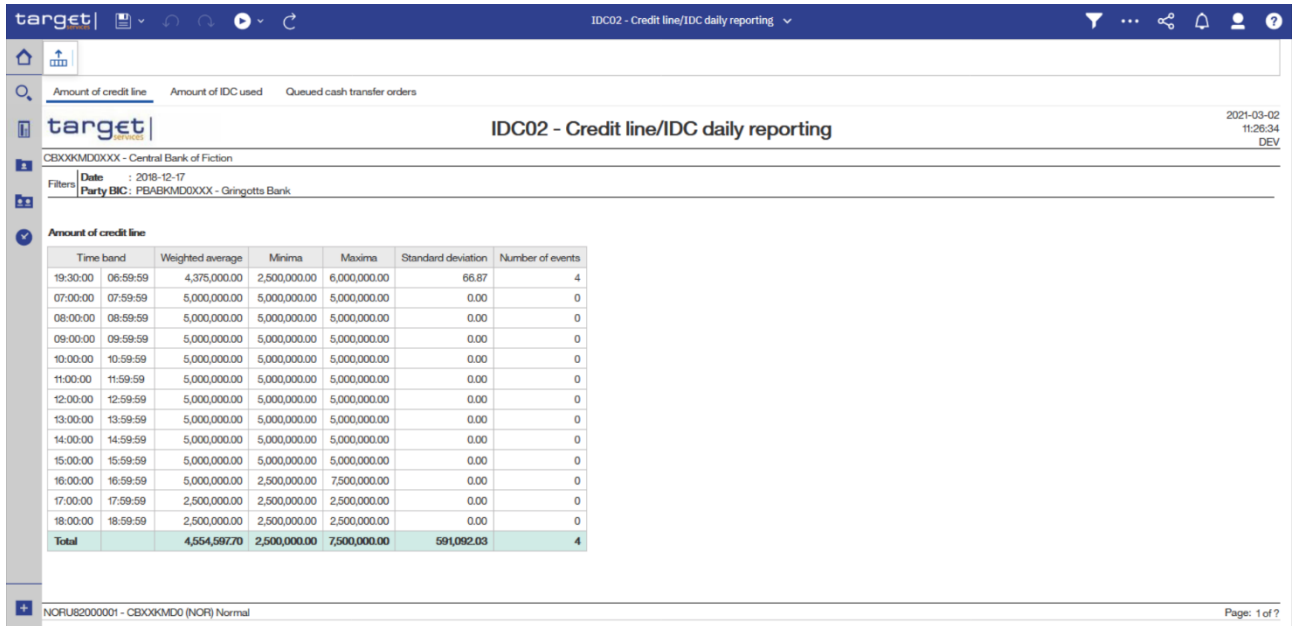


Figure 181 - IDC02 output (1)

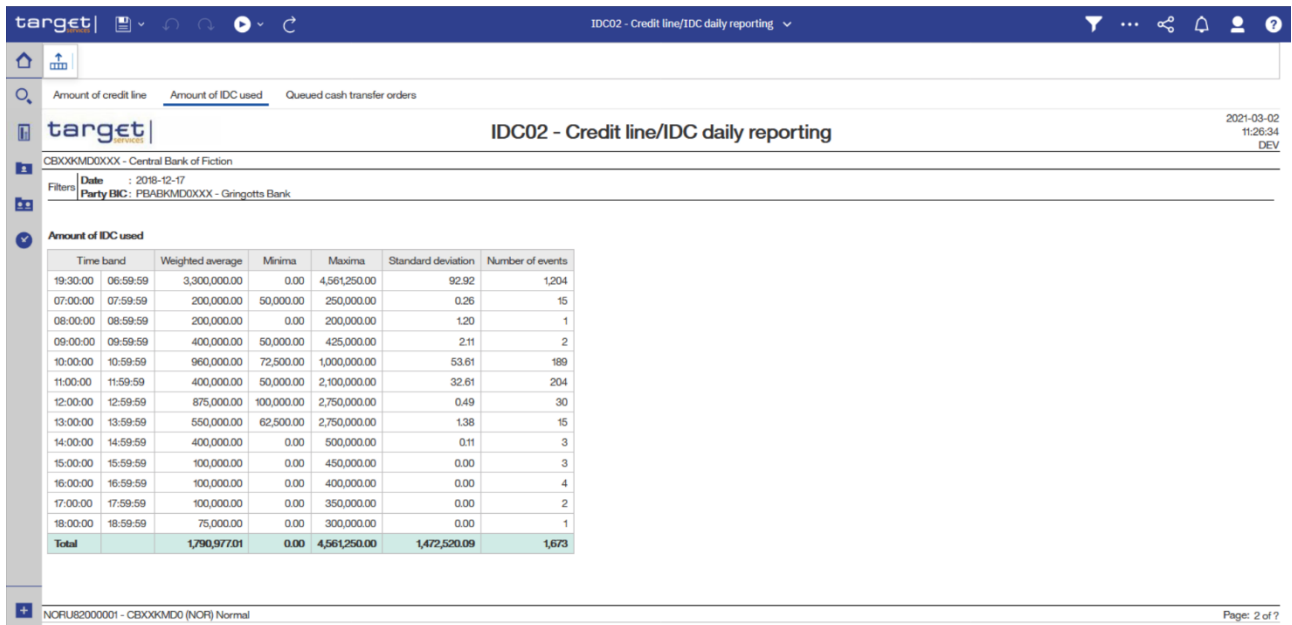


Figure 182 - IDC02 output (2)

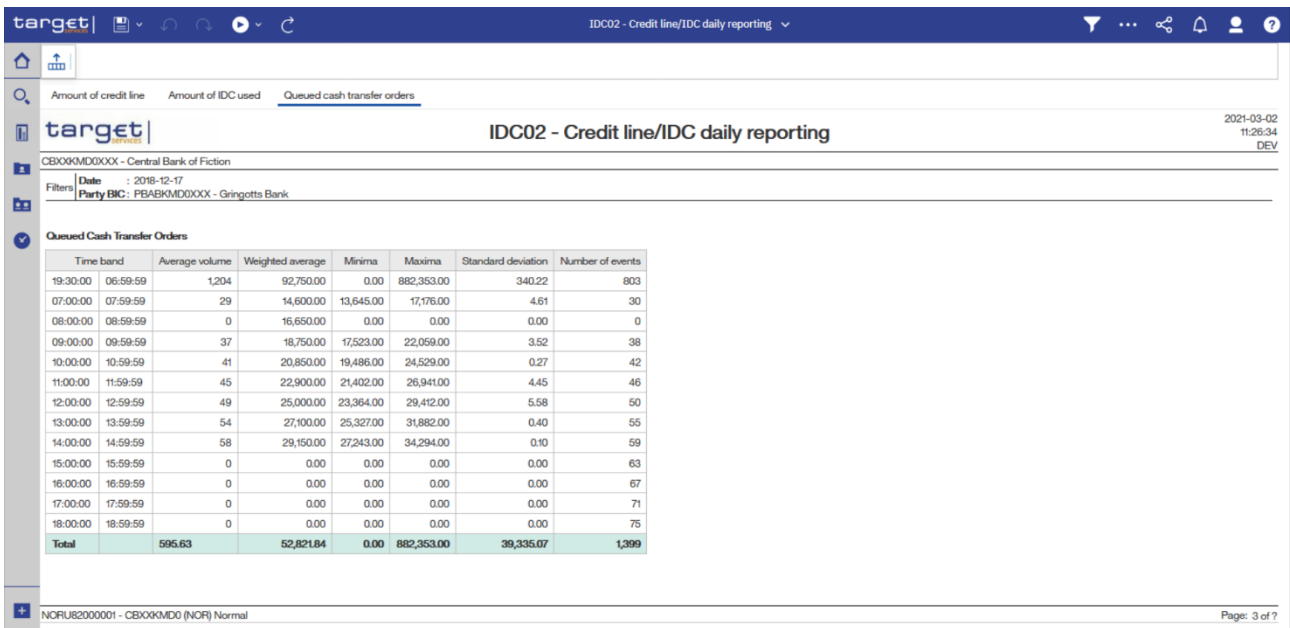


Figure 183 - IDC02 output (3)

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 <ul style="list-style-type: none"> the credit line amount the amount of IDC used the sum of values of queued cash transfer orders for the time band
Minima	Minimum of <ul style="list-style-type: none"> the credit line amount the amount of IDC used the sum of values of queued cash transfer orders for the time band

Maxima	<p>Maximum of</p> <ul style="list-style-type: none"> the credit line amount the amount of IDC used the sum of values of queued cash transfer orders for the time band
Standard deviation	<p>Standard deviation of</p> <ul style="list-style-type: none"> 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	<p>The number of</p> <ul style="list-style-type: none"> changes to the credit line changes to the account balance influencing the IDC use Queued cash transfers during the time band

Table 29 - IDC02 - Output description

5.6.3 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.

Report access

This report can be reached in the following way:

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

Screenshot – prompt

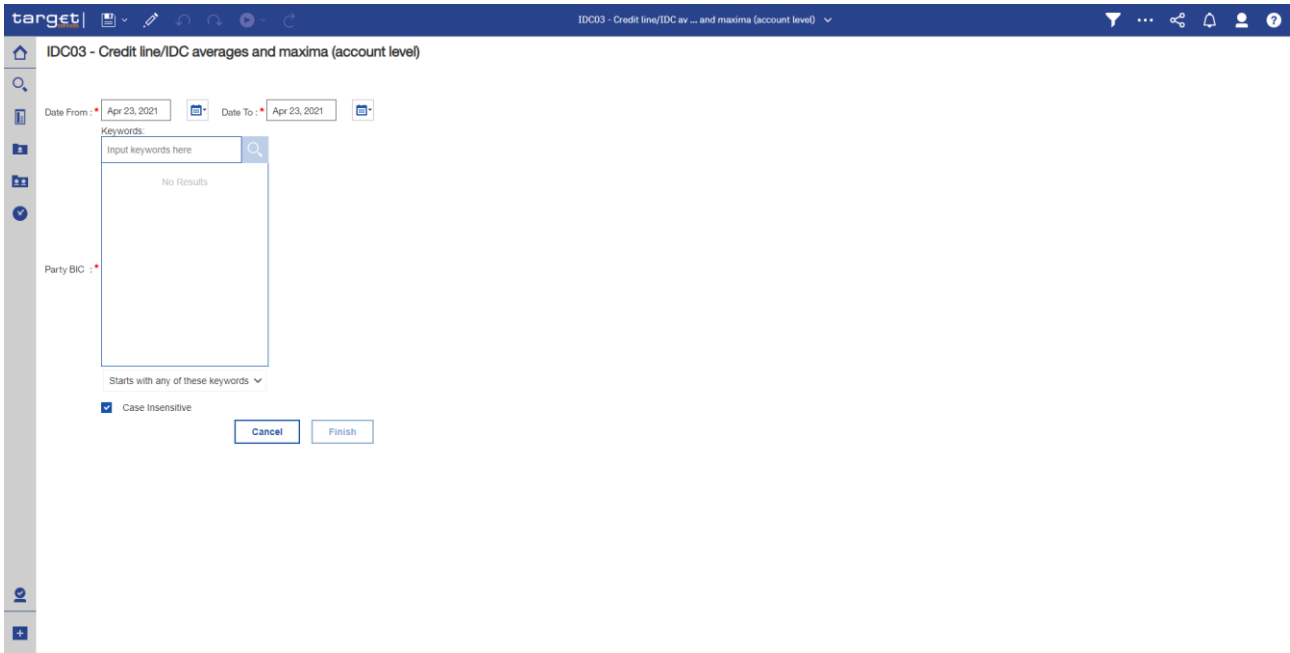


Figure 184 - IDC03 prompt

Prompt description

IDC03 – 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.
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 30 - IDC03 - Prompt description

Screenshot - output screen

target | IDC03 - Credit line/IDC av ... and maxima (account level)

target | IDC03 - Credit line/IDC averages and maxima (account level) | 2021-04-27 16:07:25
DEV - Development and integration

CBXXKMD0XXX - Central Bank of Fiction

Filters
Date From : 2018-12-17
Date To : 2018-12-19
For : PBABKMD0XXX - Gringotts Bank

Currency : EUR
Default MCA: MACASHPBABKMD0XXEUR0A01 - EUR

Date	Credit line amount		Intraday credit use	
	Weighted average	Maxima	Weighted average	Maxima
2018-12-17	4,554,597.70	7,500,000.00	1,790,977.01	6,250,000.00
2018-12-18	910,919.54	1,500,000.00	358,195.40	1,250,000.00
2018-12-19	455,459.77	750,000.00	179,097.70	625,000.00
Maximum over period	4,554,597.70	7,500,000.00	1,790,977.01	6,250,000.00

NORU82000001 - CBXXKMD0 (NOR) Normal | Page: 1 of ?

Figure 185 - IDC03 output (1)

Output Description

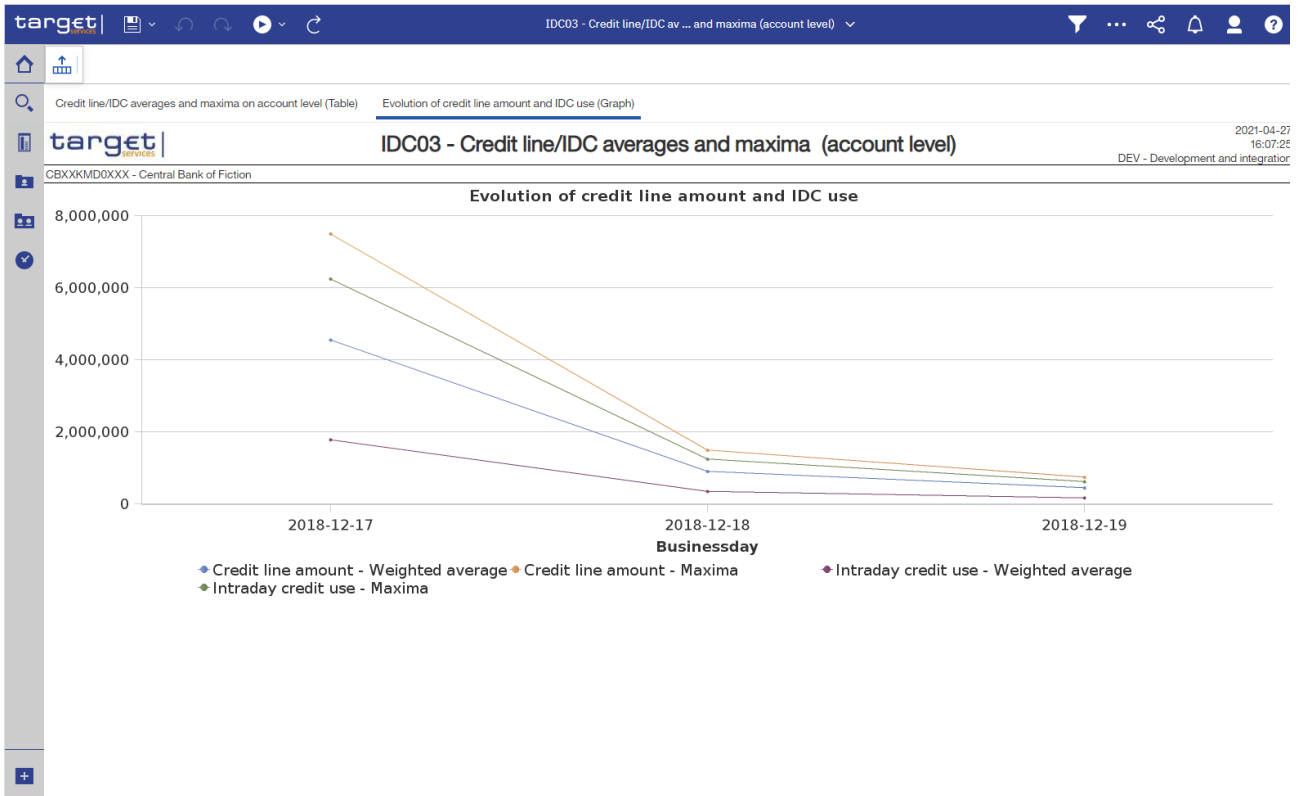


Figure 186 - IDC03 output (2)

Output description

IDC03 – Report description – output screen	
Field label	Description
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.
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.
Maximum over period	Highest amount of the respective column.
Graph 1	<p>Evolution of credit line amount and IDC use</p> <p>Cartesian coordinate system, y-axis representing the amount, x-axis representing the date.</p> <p>Show four lines in different colours representing the values in the table on previous page.</p>

Table 31 - IDC03 - Output description

5.6.4 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

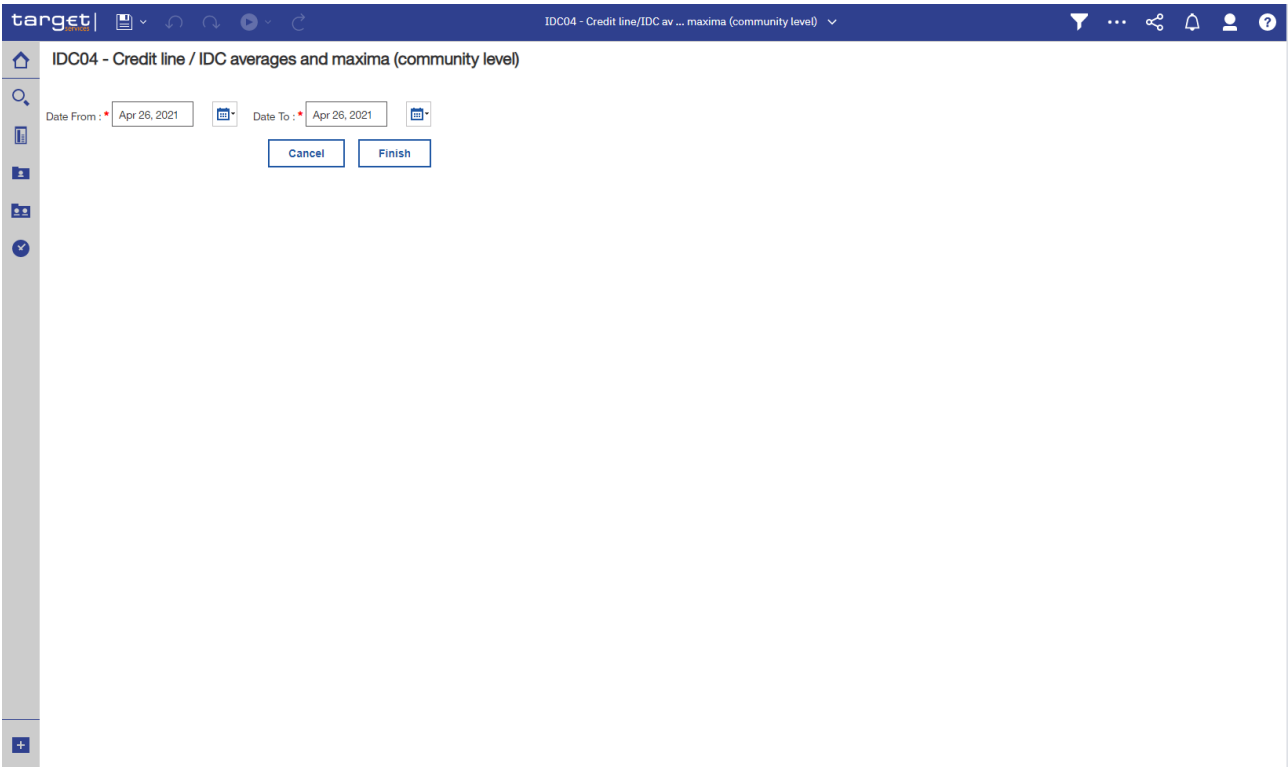


Figure 187 - IDC04 prompt

Prompt description

IDC04 – 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.

Table 32 - IDC04 - Prompt description

Screenshot - output screen

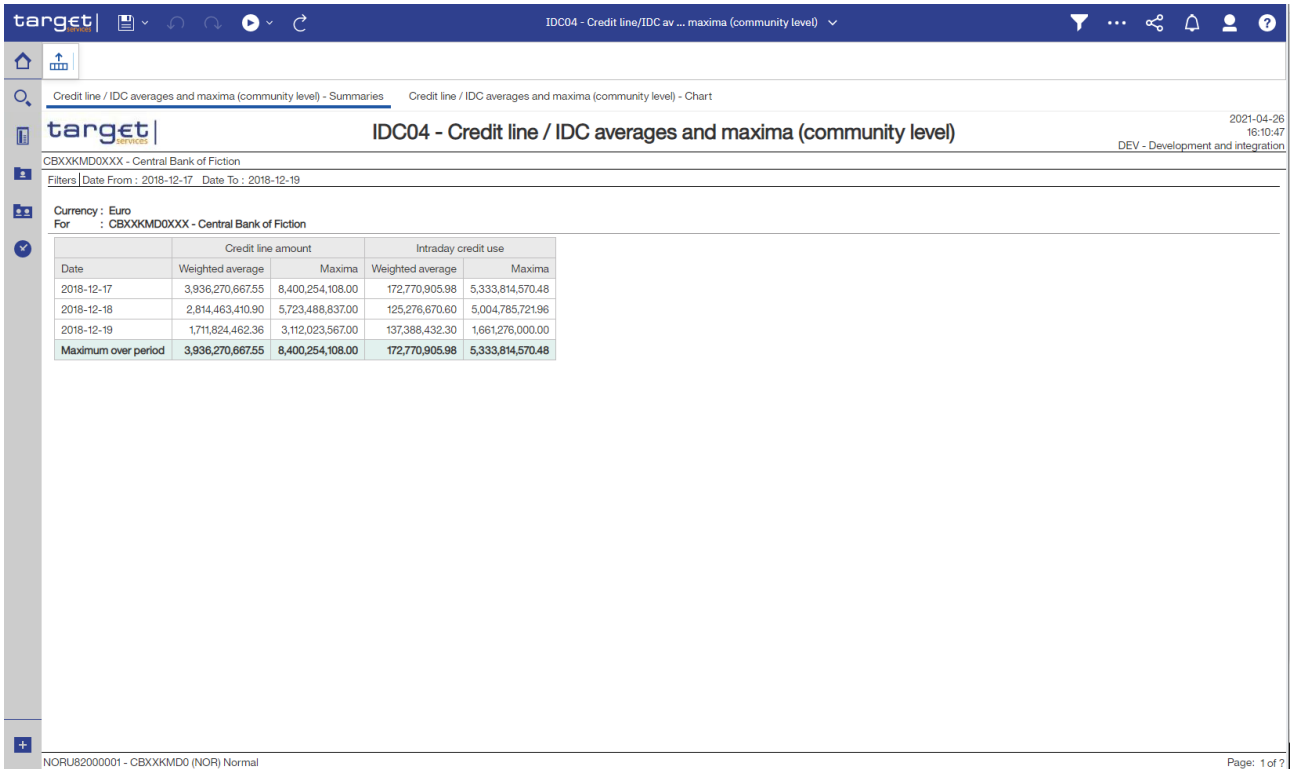


Figure 188 - IDC04 output (1)

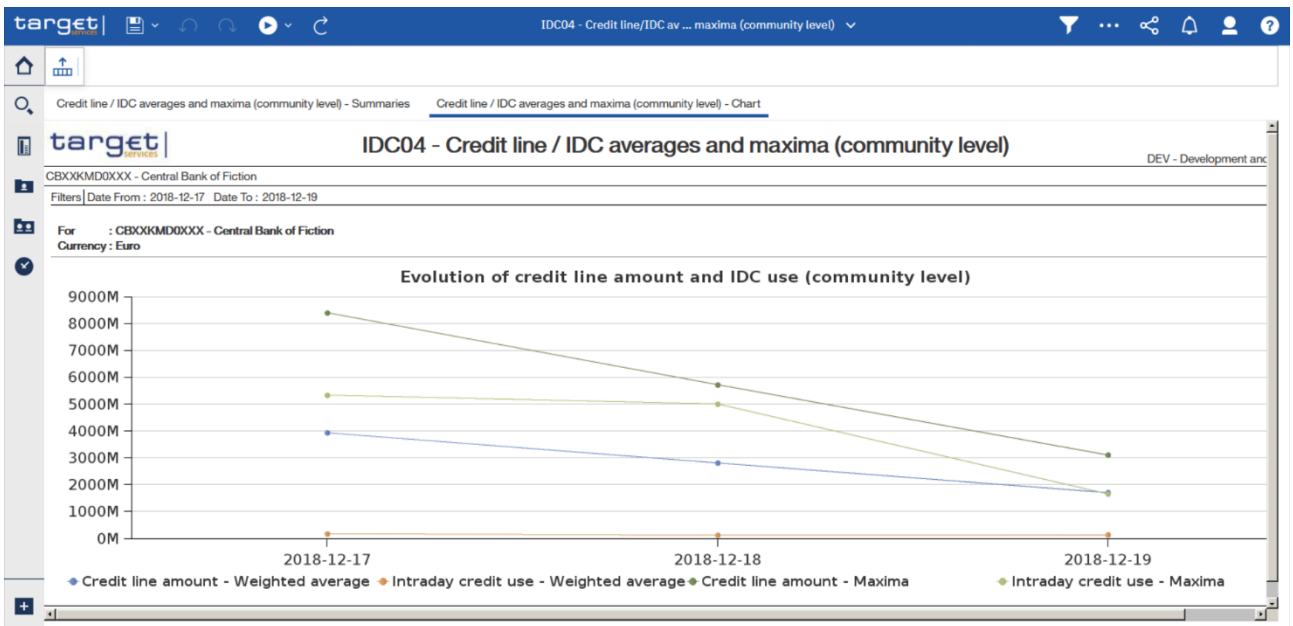


Figure 189 - IDC04 output (2)

Output description

IDC04 – Report description – output screen	
Field label	Description
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.
Credit line amount: 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.
Intraday credit use: Maxima	Maximum of the intraday credit line use at that day.
Maximum over period	Highest amount of the respective column.
Graph 1	<p>“Evolution of credit line amount and IDC use (community level)”</p> <p>Cartesian coordinate system, y-axis representing the amount, x-axis representing the date.</p> <p>Show four lines in different colours representing the values in the table on previous page.</p>

Table 33 - IDC04 - Output description

5.6.5 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 users.

Report access

This report can be reached in the following way:

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

Screenshot – prompt

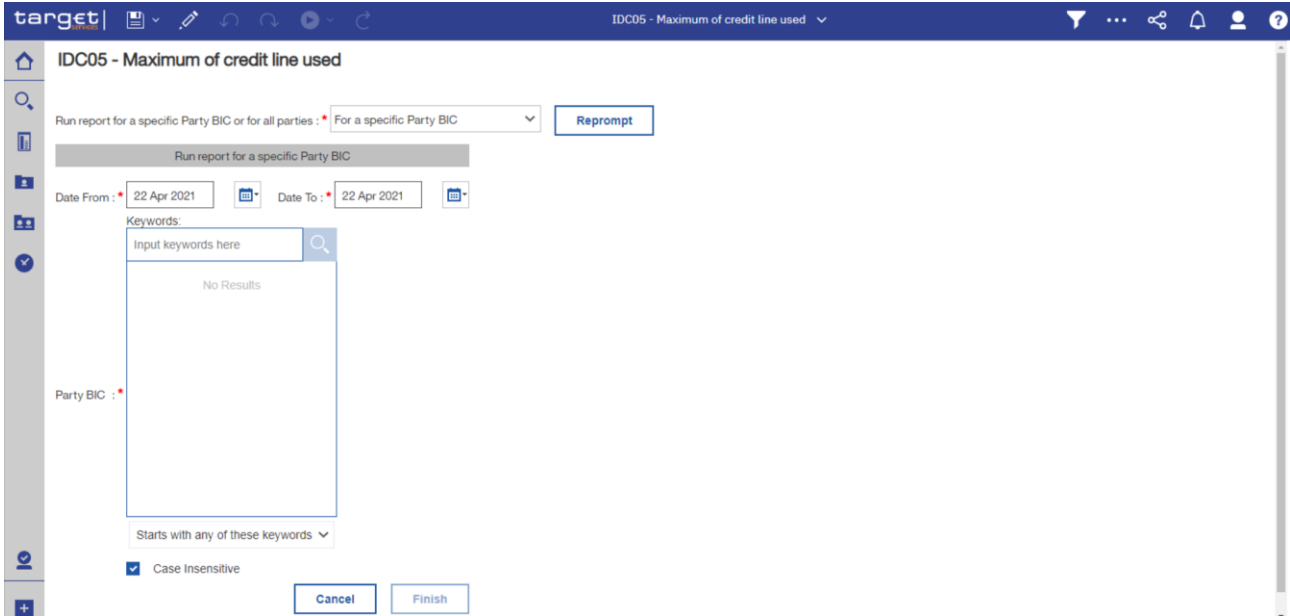


Figure 190 - IDC05 prompt (1) – For a specific party BIC

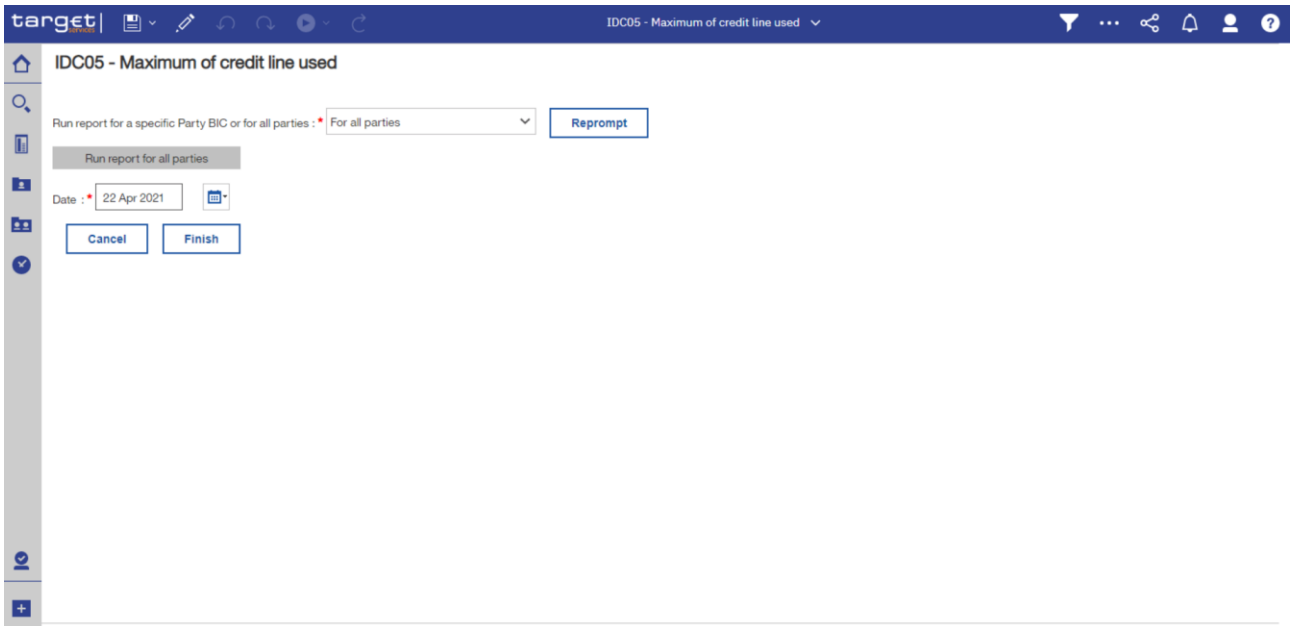


Figure 191 - IDC05 prompt (2) – For all parties

Prompt description

IDC05 – 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.
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 34 - IDC05 - Prompt description

Screenshot - output screen

target | IDC05 - Maximum of credit line used

target | IDC05 - Maximum of credit line used

2021-03-02 13:18:47
DEV - Development and integration

CBXX00MDXXX - Central Bank of Fiction

Filters: Date From : 2017-12-17 Date To :2019-12-19
Party BIC : PBABKMDXXX - Gringotts Bank

Default MCA : MACASHPBABKMDXXXEUR0A01

Currency : EUR

Date	Credit line amount		Account balance		Time	Peak IDC use	
	at SoD	at EoD	at SoD	at EoD		Amount	Credit line amount
2018-12-17	5,000,000.00	6,000,000.00	250,000.00	100,000.00	02:37:47	4,561,250.00	6,000,000.00
2018-12-18	3,000,000.00	4,000,000.00	50,000.00	20,000.00	02:38:47	912,250.00	1,200,000.00
2018-12-19	1,000,000.00	2,000,000.00	25,000.00	10,000.00	02:39:47	456,125.00	600,000.00

NORUB2000001 - CBXX00MD0 (NOR) Normal Page: 1 of ?

Figure 192 - IDC05 output (1) - A party was selected

target | IDC05 - Maximum of credit line used

2021-03-02 13:21:05 DEV - Development and Integration

target | IDC05 - Maximum of credit line used

CBXXXMDXXXX - Central Bank of Fiction
Filters | Date From : 2018-12-17

Currency : EUR

Party BIC	Party name	Default MCA	Credit line amount		Account balance		Time	Peak IDC use	
			at SoD	at EoD	at SoD	at EoD		Amount	Credit line amount
ASAAKMDXXXX	MetroCapital	MACASHASAAKMDXXXXEUR0A01	50,000,004.00	60,000,005.00	2,500,000.00	1,000,000.00	02:37:47	45,612,504.00	60,000,005.00
ASABKMDXXXX	Austlandskassenverein LL	MACADCASABKMDXXXXEUR0A01	6,000,004.00	7,000,005.00	300,000.00	120,000.00	02:37:47	5,473,504.00	7,200,005.00
ASACKMDXXXX	Discount Card	MACADCASACKMDXXXXEUR0A01	5,000,004.00	6,000,005.00	250,000.00	100,000.00	02:37:47	4,561,254.00	6,000,005.00
PBAKMDXXXX	Banco de Isthmus	MACASHPBAKMDXXXXEUR0A01	500,000,004.00	600,000,005.00	0.00	10,000,000.00	02:37:47	456,125,004.00	600,000,005.00
PBAKMDXXXX	Gringotts Bank	MACASHPBAKMDXXXXEUR0A01	5,000,000.00	6,000,000.00	250,000.00	100,000.00	02:37:47	4,561,250.00	6,000,000.00
PBCKMDXXXX	Iron Banks of Braavos	MACASHPBCKMDXXXXEUR0A01	0.00	0.00	0.00	0.00	11:58:40	336,000.00	0.00
PBCKMDXXXX	Banque Mamon	MACASHPBCKMDXXXXEUR0A01	0.00	0.00	0.00	0.00	11:58:40	336,000.00	0.00
PBAKMDXXXX	Bankhaus Goldscheider	MACASHPBAKMDXXXXEUR0A01	8,500,004.00	9,500,005.00	425,000.00	170,000.00	02:37:47	7,754,129.00	10,200,005.00
PBAKMDXXXX	Dagobert Duck Thrift	MACASHPBAKMDXXXXEUR0A01	18,000,004.00	19,000,005.00	900,000.00	360,000.00	02:37:47	16,420,504.00	21,600,005.00
PBAGKMDXXXX	Woodgrove Bank	MACASHPBAGKMDXXXXEUR0A01	2,300,004.00	2,300,005.00	110,000.00	44,000.00	02:37:47	2,006,954.00	2,640,005.00
PBAKMDXXXX	Goliath National Bank Ltd	MACASHPBAKMDXXXXEUR0A01	12,000,000.00	13,000,000.00	600,000.00	240,000.00	02:37:47	10,947,000.00	14,400,000.00
PBBAKMDXXXX	Telson's Mutual	MACASHPBBAKMDXXXXEUR0A01	15,000,004.00	16,000,005.00	750,000.00	300,000.00	02:37:47	13,683,754.00	18,000,005.00
PBBKMDXXXX	Banca de Bondi	MACASHPBBKMDXXXXEUR0A01	46,000,004.00	45,000,005.00	2,300,000.00	920,000.00	02:37:47	41,963,504.00	55,200,005.00
PBCKMDXXXX	Fidelity Savings & Trust	MACASHPBCKMDXXXXEUR0A01	54,000,004.00	64,000,005.00	2,700,000.00	1,080,000.00	02:37:47	49,261,504.00	64,800,005.00
PBCKMDXXXX	DGI Deutsche Global Invest	MACASHPBCKMDXXXXEUR0A01	15,000,000.00	12,500,000.00	750,000.00	300,000.00	02:37:47	13,683,750.00	18,000,000.00
PBBKMDXXXX	Banco di San Giorgio	MACASHPBBKMDXXXXEUR0A01	5,000,004.00	6,000,005.00	250,000.00	100,000.00	02:37:47	4,561,254.00	6,000,005.00
PBBKMDXXXX	Welsler Venezuela Funding	MACASHPBBKMDXXXXEUR0A01	6,000,004.00	7,000,005.00	300,000.00	120,000.00	02:37:47	5,473,504.00	7,200,005.00
PBBKMDXXXX	Compagnie des Indes Occidentales	MACASHPBBKMDXXXXEUR0A01	7,000,004.00	8,000,005.00	350,000.00	140,000.00	02:37:47	6,385,754.00	8,400,005.00
PBBKMDXXXX	Monte Pio	MACASHPBBKMDXXXXEUR0A01	8,000,004.00	9,000,005.00	400,000.00	160,000.00	02:37:47	7,298,004.00	9,600,005.00
PBMFKMDXXXX	Par ó Six Overt Bank	MACADCPBMFKMDXXXXEUR0A01	54,000,004.00	64,000,005.00	2,700,000.00	1,080,000.00	02:37:47	49,261,504.00	64,800,005.00

NORUR2000001 - CBXXXMD0 (NOR) Normal Page: 1 of 7

Figure 193 - IDC05 output (2) - A party was not selected covering one day only

Output description

IDC05 – Report description – output screen (a party was selected)

Field label	Description
Following details are available for:	
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
Following details are available for:	
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 screen (a party was not selected covering one day only)	
Field label	Description
Party BIC	BIC of the party for which the default MCA is regarded.
Party name	Party short name according to party BIC
Default MCA number	Account number of the default MCA of the party
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 Account balance of the MCA at EoD
Following details are available for:	
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 35 - IDC05 - Output description

5.6.6 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

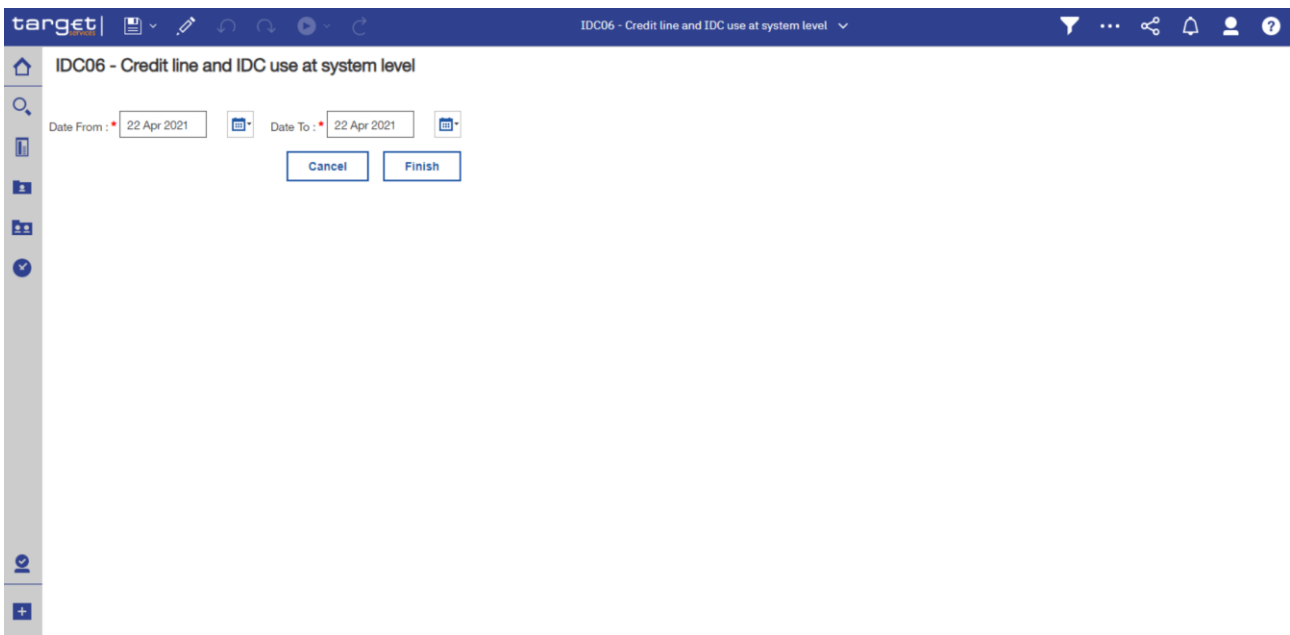


Figure 194 - IDC06 prompt

Prompt description

IDC06 – 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

Table 36 - IDC06 - Prompt description

Screenshot - output screen

The screenshot displays the Target Services web interface. The main header shows the report title "IDC06 - Credit line and IDC use at system level" and the date "2020-07-13 13:35:52". The user is identified as "DEV - Development and integration". The report is for "CBXXKMD0XXX - Central Bank of Fiction" with filters for "Date From : 2018-12-17" and "Date To: 2018-12-19".

Date	Weighted average of credit line amount	Weighted average of intraday credit line use
Currency: DKK		
2018-12-17	91,091.95	35,819.54
2018-12-18	91,091.95	35,819.54
2018-12-19	227,729.89	89,548.85
Currency: EUR		
2018-12-17	29,177,179.92	11,473,096.26
2018-12-18	6,138,539.40	2,413,797.30
2018-12-19	4,102,422.48	1,613,135.67

At the bottom left, there is a "New" button and a reference code "NORU82000001 - CBXXKMD0 (NOR) Normal". At the bottom right, it says "Page: 1 of ?".

Figure 195 - IDC06 output (1)

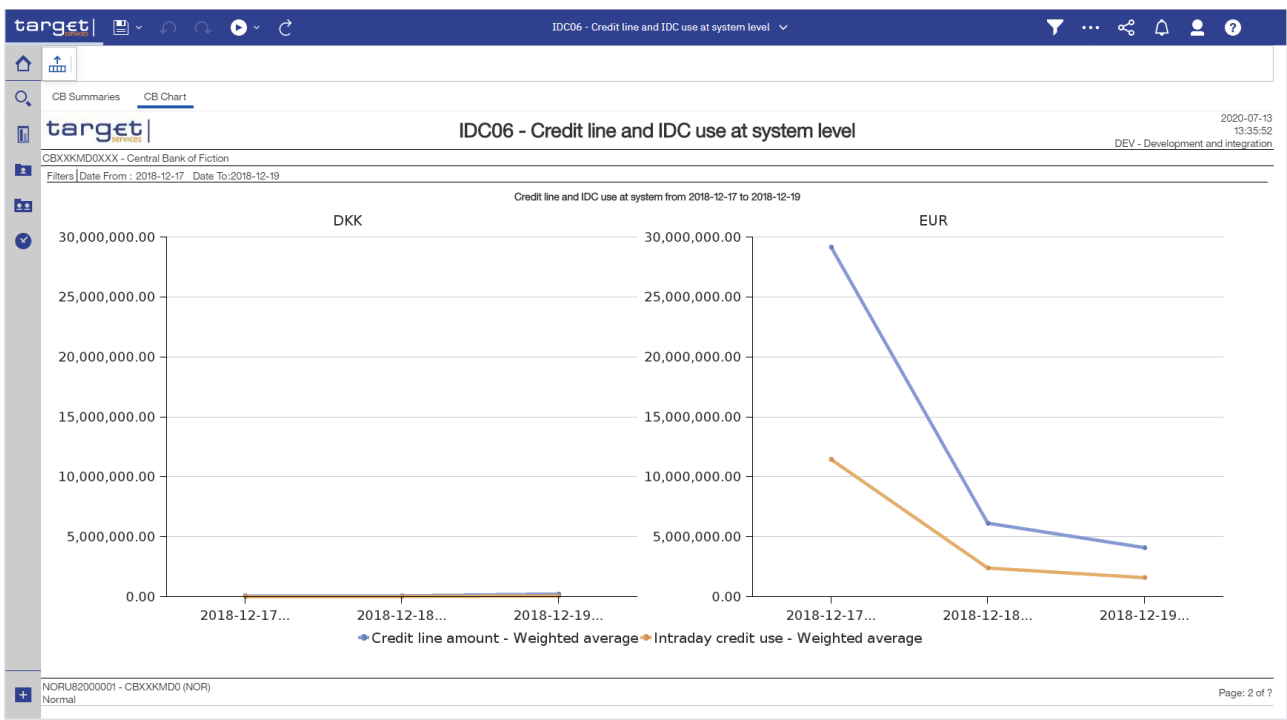


Figure 196 - IDC06 output (2)

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 37 - IDC06 - Output description

5.7 Invoice Data (INV)

5.7.1 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]

Screenshot – prompt

The screenshot displays the 'INV01 - Reporting revenues' prompt within the Target Services application. The interface features a dark blue header with the 'target' logo and the report title. A sidebar on the left contains navigation icons. The main area is divided into several sections: 'Year' and 'Quarter' dropdown menus; a 'Service' section with a list of checkboxes for 'RTGS', 'T2S', and 'TIPS'; a 'Keywords' search section with an input field and a 'No Results' message; and a 'Search and Select the Party BIC' section with a large empty box. At the bottom, there are 'Cancel' and 'Finish' buttons. The 'Case insensitive' checkbox is checked.

Figure 197 - INV01 prompt

Prompt description

INV01 – Report description – prompt screen	
Field label	Description
Year	<p>You can use this drop-down field to select the year, from which the report should contain the data.</p> <p>This field is mandatory.</p>
Quarter	<p>You can use this drop-down field to select the quarter, for which the report should show the data.</p> <p>This field is mandatory</p>
Service	<p>Service for which the data shall be displayed.</p> <p>Possible values:</p> <ul style="list-style-type: none"> RTGS TIPS <p>This field is optional</p>
Charged party BIC	<p>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.</p> <p>This field is optional.</p>

Table 38 - INV01 - Prompt description

Screenshot - output screen

target | INV01 - Reporting revenues | 2021-02-19 07:52:33 DEV - Development and integration

target | INV01 - Reporting revenues

CBXXKMD0XXX - Central Bank of Fiction

Filters Year : 2018 Service : RTGS
Quarter : 2018 Q4

Service: RTGS

Category	Code	Service item Description	Fee type	2018 October		2018 November		2018 December	
				Volume	Value (EUR)	Volume	Value (EUR)	Volume	Value (EUR)
Information Services	5012	RTGS AS cash transfer order	Fixed independent fees	271	813.9	1,687	5,662.35	678	2,034.27
	5015	inter-banking group intra-component liquidity transfer order	Fixed independent fees	241	723.9	1,757	5,272.4	1,110	3,330.5
	5016	Inter-banking group inter-component liquidity transfer order	Fixed independent fees	346	1,039.32	753	2,259.66	222	666.11
Settlement Services	5002	Fixed fee - RTGS account	Fixed independent fees	552	552.15	2,312	2,312.17	1,642	1,642.07
	5004	Addressable BIC - Correspondent	Fixed independent fees	449	449.22	1,214	1,214.18	234	234.02
	5005	Fee for unpublished BIC	Fixed independent fees	455	455.39	2,298	2,298.51	463	463.06
	5006	Fee for multi-addressee	Fixed independent fees	306	306.36	1,489	1,489.44	937	937.16
	5007	Ancillary system - core fixed fee	Fixed independent fees	353	353.5	1,075	1,075.4	2,073	2,073.45
	5008	Ancillary system - Fixed fee I	Fixed independent fees	693	694.26	1,446	1,446.66	457	457.12
	5009	Ancillary system - Fixed fee II	Fixed independent fees	252	252.56	1,457	1,457.77	678	678.21
	5011	RTGS payment order	Fixed independent fees	345	345.88	2,328	2,329.44	914	914.32
	5012	RTGS AS cash transfer order	Fixed independent fees	392	393.17	1,444	1,444.99	917	917.36
	5015	inter-banking group intra-component liquidity transfer order	Fixed independent fees	291	292	1,030	1,030.8	451	451.2
5016	Inter-banking group inter-component liquidity transfer order	Fixed independent fees	414	415.54	1,677	1,678.43	669	669.33	
Total				12,747	24,766.81	53,435	106,420.3	26,532	51,375.85

	2018 October		2018 November		2018 December	
	Volume	Value (EUR)	Volume	Value (EUR)	Volume	Value (EUR)
Overall Total	12,747	24,766.81	53,435	106,420.3	26,532	51,375.85

Page: 2 of 2

Figure 198 - INV01 Output

Output description

INV01 – Report description – output screen	
Field label	Description
Year, Quarter	Year and quarter as chosen in input screen
<i>The following block is repeated for every service chosen in the prompt screen</i>	
Service	The service, for which invoice data are displayed Possible values: <ul style="list-style-type: none"> RTGS TIPS
Month/Year	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:

	<ul style="list-style-type: none"> 5002 5004 5005 5006 5007 5008 5009 5011 5012 5015 5016 3001 3002 3003 3004
Service item description	<p>Following service item descriptions are currently available:</p> <ul style="list-style-type: none"> Fixed fee – RTGS account (5002) Addressable BIC – Correspondent (5004) Fee for unpublished BICs (5005) Fee for multi-addressee (5006) Ancillary system – Core fixed fee (5007) Ancillary system – Fixed fee I (5008) Ancillary system – Fixed fee II (5009) RTGS payment order (5011) RTGS AS Cash transfer orders (5012) Inter-banking group intra-component liquidity transfer order (5015) Inter-banking group inter-component liquidity transfer order (5016) Settled Instant Payment transaction (3001) Unsettled Instant Payment transaction (3002) Settled Positive Recall answer (3003) Unsettled Positive Recall answer (3004)
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	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)	Sum of the volumes/values within the month over all fee types
Overall total (Volume/Value)	Overall sum of the volumes/values within the month over all fee types and services

Table 39 - INV01 - Output description

5.8 Minimum reserve reports (MIR)

5.8.1 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

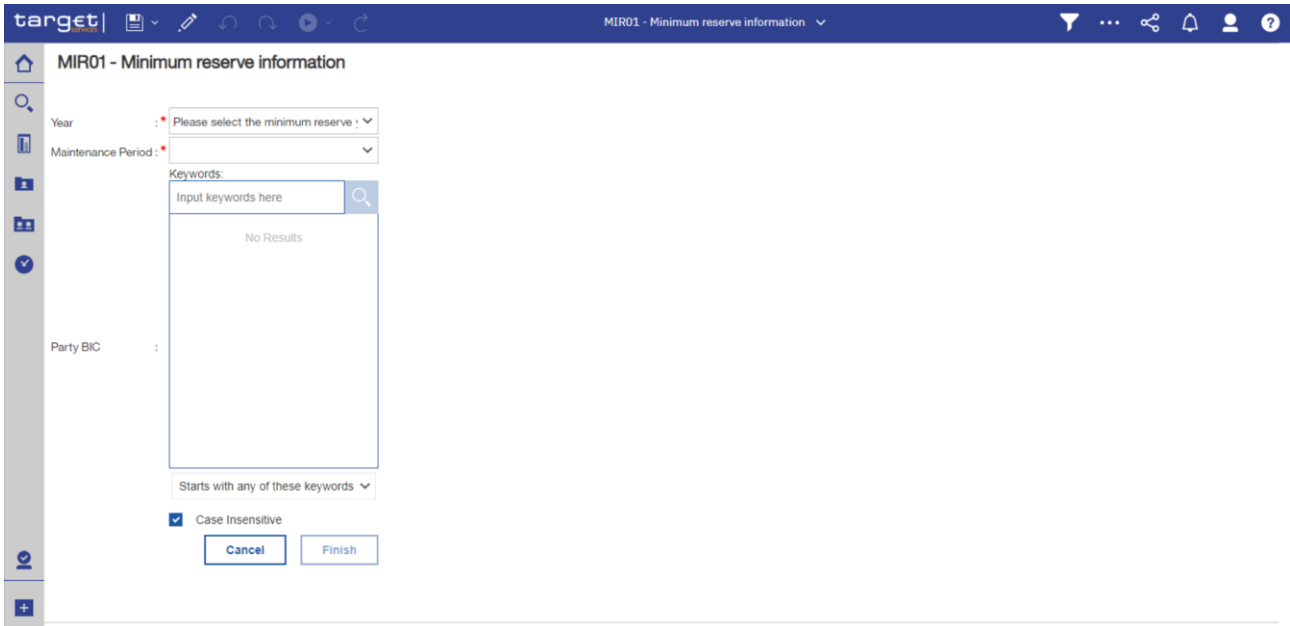


Figure 199 - MIR01 prompt

Prompt description

MIR01 – Report description – prompt screen	
Field label	Description
Year	<p>You can use this drop-down field to select the year, from which the report should contain the data.</p> <p>This field is mandatory.</p>
Maintenance period	<p>You can select the required maintenance period in this drop-down field.</p> <p>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</p> <p>This field is mandatory.</p>
Party BIC	<p>You can use this drop-down field to select the party BIC. This field will show all related BICs, which belong to the party.</p> <p>This field is optional.</p>

Table 40 - MIR01 - Prompt description

Screenshot - output screen

MFI code	Party BIC	Party name	MR Obligation	Party BIC of the Leading CLM account holder	MR Requirement	Effective MR Requirement	Running average	Adjustment balance	Excess / deficiency of reserves	Interest amount	Excess reserve interest amount (non-exemption tier)	Excess reserve interest amount (exemption tier)	MR calculated penalty amount 1 (single infringement)	MR calculated penalty amount 2 (repeated infringement)
1008	ASAAKMD000X	MetroCapital	pool	FBHHKMD000X	1,790,000.00	1,790,000.00	1,790,000.00	N/A	0.00	0.00	0.00	0.00	0.00	0.00
11004	ASABKMD000X	Auslandskassenverein i.L.	indirect	FBABKMD000X	100,400,000.00	0.00	0.00	N/A	0.00	0.00	0.00	0.00	0.00	0.00
11005	ASACHMD000X	Discount Card	indirect	FBABKMD000X	100,900,000.00	0.00	0.00	N/A	0.00	0.00	0.00	0.00	0.00	0.00
10002	PBAAKMD000X	Banco de Isthmus	direct	FBAAKMD000X	2,020,000.00	3,920,000.00	3,920,000.00	N/A	0.00	0.00	0.00	0.00	0.00	0.00
10003	PBAKMD000X	Gringotts Bank	direct	FBABKMD000X	3,020,000.00	203,920,000.00	203,920,000.00	N/A	0.00	0.00	0.00	0.00	0.00	0.00
10004	PBACHMD000X	Iron Banks of Braavos	direct	FBACHMD000X	4,020,000.00	4,020,000.00	4,020,000.00	N/A	0.00	0.00	0.00	0.00	0.00	0.00
10005	PBANKMD000X	Banque Mamonno	direct	FBANKMD000X	5,020,000.00	5,020,000.00	5,020,000.00	N/A	0.00	0.00	0.00	0.00	0.00	0.00
10006	PBAFKMD000X	Bankhaus Goldscheider	indirect	FBAAKMD000X	600,000.00	0.00	0.00	N/A	0.00	0.00	0.00	0.00	0.00	0.00
10007	PBAFKMD000X	Dagobert Duck Thrift	direct	FBAAKMD000X	7,020,000.00	7,020,000.00	7,020,000.00	N/A	0.00	0.00	0.00	0.00	0.00	0.00
10008	PBAGKMD000X	Woodgrove Bank	direct	FBAGKMD000X	8,020,000.00	8,020,000.00	8,020,000.00	N/A	0.00	0.00	0.00	0.00	0.00	0.00
10009	PBAHMD000X	Gollath National Bank Ltd	direct	FBAAKMD000X	9,020,000.00	9,020,000.00	9,020,000.00	N/A	0.00	0.00	0.00	0.00	0.00	0.00
10010	PBAAKMD000X	Tellson's Mutual	direct	FBAAKMD000X	10,020,000.00	10,020,000.00	10,020,000.00	N/A	0.00	0.00	0.00	0.00	0.00	0.00
10011	PBBBKMD000X	Banca de Bondi	direct	FBBBKMD000X	11,020,000.00	11,020,000.00	11,020,000.00	N/A	0.00	0.00	0.00	0.00	0.00	0.00
10012	PBCHKMD000X	Fidelity Savings & Trust	direct	FBCHKMD000X	12,020,000.00	12,020,000.00	12,020,000.00	N/A	0.00	0.00	0.00	0.00	0.00	0.00
10013	PBDBKMD000X	DGI Deutsche Global Invest	indirect	FBAAKMD000X	1,300,000.00	0.00	0.00	N/A	0.00	0.00	0.00	0.00	0.00	0.00
10014	PBBEKMD000X	Banco di San Giorgio	pool	FBEEKMD000X	2,310,000.00	2,310,000.00	2,310,000.00	N/A	0.00	0.00	0.00	0.00	0.00	0.00
10015	PBFKMD000X	Welter Venezuela Funding	pool	FBEEKMD000X	2,310,000.00	2,310,000.00	2,310,000.00	N/A	0.00	0.00	0.00	0.00	0.00	0.00
10016	PBBGKMD000X	Compagnie des Indes Occidentales	pool	FBEEKMD000X	2,310,000.00	2,310,000.00	2,310,000.00	N/A	0.00	0.00	0.00	0.00	0.00	0.00
10017	PBBHMD000X	Monte Pio	pool	FBHHKMD000X	1,790,000.00	1,790,000.00	1,790,000.00	N/A	0.00	0.00	0.00	0.00	0.00	0.00
11002	PBFMKMD000X	Par à Six Ouvert Bank	direct	PBFMKMD000X	1,002,020,000.00	1,002,020,000.00	1,002,010,000.00	N/A	-10,000.00	0.00	0.00	0.00	0.00	0.00

Figure 200 - MIR01 output (1)

MFI code	Party BIC	Party name	MR Obligation	Party BIC of the Leading CLM account holder	MR Requirement	Effective MR Requirement	Running average	Adjustment balance	Excess / deficiency of reserves	Interest amount	Excess reserve interest amount (non-exemption tier)	Excess reserve interest amount (exemption tier)	MR calculated penalty amount 1 (single infringement)	MR calculated penalty amount 2 (repeated infringement)
11003	PBFMKMD000X	Par à Six Fermé Bank	direct	PBFMKMD000X	1,002,020,000.00	1,002,020,000.00	1,003,010,000.00	N/A	-10,000.00	0.00	0.00	0.00	0.00	0.00

Figure 201 - MIR01 output (2)

The screenshot shows the 'MIR01 - Minimum reserve information' report in the target services application. The report is for the Central Bank of Fiction (CB00XMD000X) for the year 2019, with a maintenance period from 13th Mar 2019 to 16th Apr 2019. The currency is EUR and the country code is KM. The table below lists various interest and penalty rates.

Field	Value
Calculation includes data until	2019-04-16
Number of calendar days in the MP	17
Minimum reserve interest rate	-0.5000%
Excess reserve interest rate 1 (exempt tier)	-0.1000%
Excess reserve interest rate 2 (non-exempt tier)	-1.0000%
Excess reserve exemption factor	6.00
Penalty rate 1 (single infringement)	-1.5000%
Penalty rate 2 (repeated infringement)	-2.0000%

Figure 202 - MIR01 – Output (List of interest and penalty rates)

Output description

MIR01 – Report description – output screen – table minimum reserve information	
Field label	Description
Sorted by party BIC:	
MFI code	MFI code of the party
Party BIC	BIC of the party
Party name	Name of the party
MR Obligation	Minimum reserve obligation. Possible Values: <ul style="list-style-type: none"> Direct Indirect Pool
Party BIC of the Leading CLM Account Holder	BIC of the party that holds the leading CLM account
MR Requirement	Amount of minimum reserve to be held at the end of each day of the maintenance period.
Effective MR requirement	Amount of minimum reserve to be held effectively at the end of each day of the maintenance period.

	<p>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.</p> <p>For parties with MR obligation "Indirect", the value is always 0 (zero)</p> <p>For all other parties the value is identical to the MR requirement.</p>
Running average	<p>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).</p> <p>As soon as a Maintenance Period is over, this amount corresponds to the Minimum Reserve fulfilment.</p>
Adjustment balance	<p>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. In case that the minimum reserve requirement for an ongoing maintenance period is already fulfilled the adjustment balance is 0 (zero).</p> <p>This field is only filled in case the chosen maintenance period is the currently running. For past maintenance periods, this field is empty.</p>
Excess / deficiency of reserve	<p>This is the difference between the running average and the minimum reserve requirements.</p>
Interest amount	<p>The amount of MR interest for the displayed maintenance period.</p> <p>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.</p> <p>Please note, that accrued MR interest calculations are based on MR fulfilment data delivered by CLM.</p>
Excess reserve interest amount (non-exemption tier)	<p>Amount of interest to be paid for excess reserves within the non-exemption tier.</p> <p>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.</p>

	Please note, that accrued excess reserve interest calculations are based on MR fulfilment data delivered by CLM.
Excess reserve interest amount (exemption tier)	<p>Amount of interest to be paid for excess reserves within the exemption tier.</p> <p>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.</p> <p>Please note, that accrued excess reserve interest calculations are based on MR fulfilment data delivered by CLM.</p>
MR calculated penalty amount 1 (single infringement)	<p>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.</p> <p>This field is only filled for a past maintenance period. For the current maintenance period, this field is empty.</p>
MR calculated penalty amount 2 (repeated infringement)	<p>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.</p> <p>This field is only filled for a past maintenance. For the current maintenance period, this field is empty.</p>

Table 41 - MIR01 - Output description - table minimum reserve information

MIR01 – Report description – output screen – table list of interest and penalty rates	
Field label	Field label
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 (exempt tier)	Rate (in %) which is used to calculate the interest amount for excess reserves (exempt tier).
Excess reserve interest rate (non-exempt tier)	Rate (in %) which is used to calculate the interest amount for excess reserves (non-exempt tier).

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 42 - MIR01 - Output description - table list of interest and penalty rates

5.8.2 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

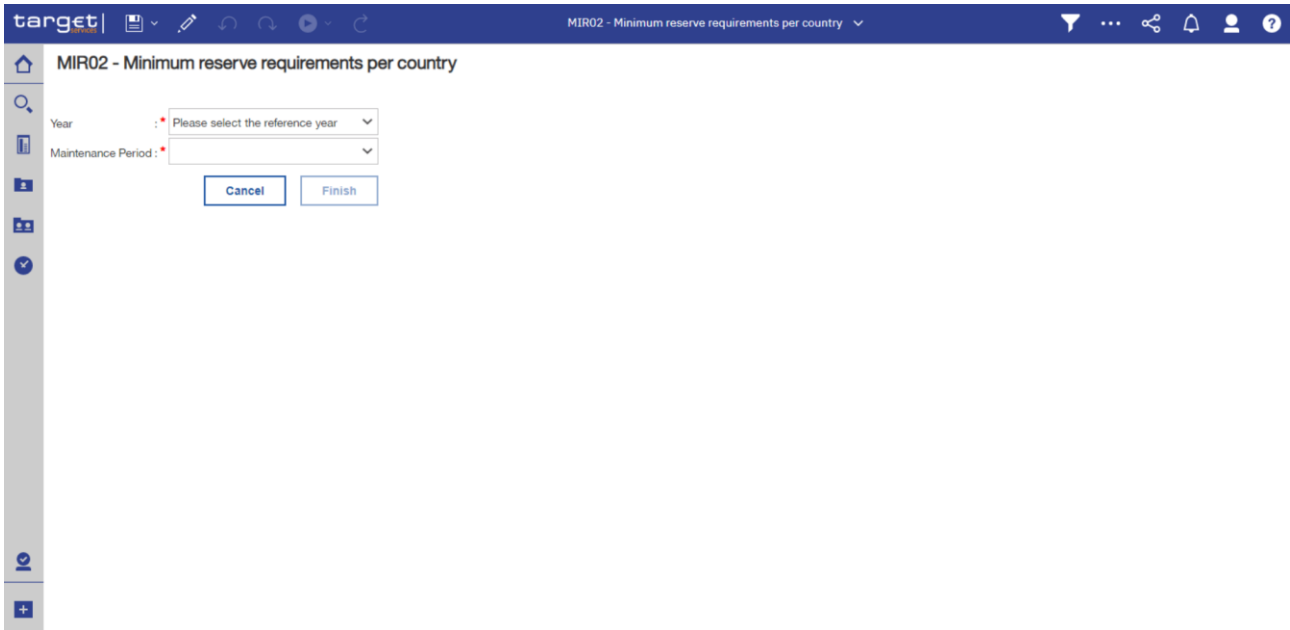


Figure 203 - MIR02 prompt

Prompt description

MIR02 – Report description – prompt screen	
Field label	Description
Year	<p>You can use this drop-down field to select the year, from which the report should contain the data.</p> <p>This field is mandatory.</p>
Maintenance period	<p>You can select the required maintenance period in this drop-down field.</p> <p>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</p> <p>This field is mandatory.</p>

Table 43 - MIR02 - Prompt description

Screenshot - output screen

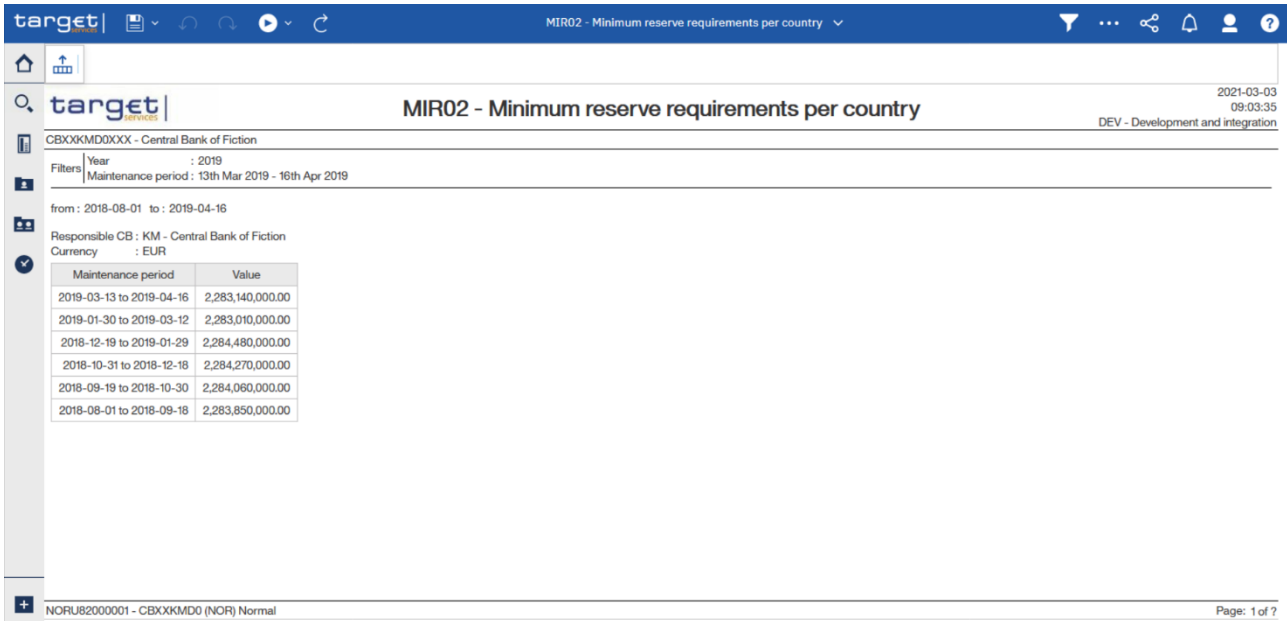


Figure 204 - MIR02 output

Output description

MIR02 – Report description – output screen	
Field label	Description
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
Value	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 44 - MIR02 - Output description

5.9 Participation reports (PAR)

5.9.1 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

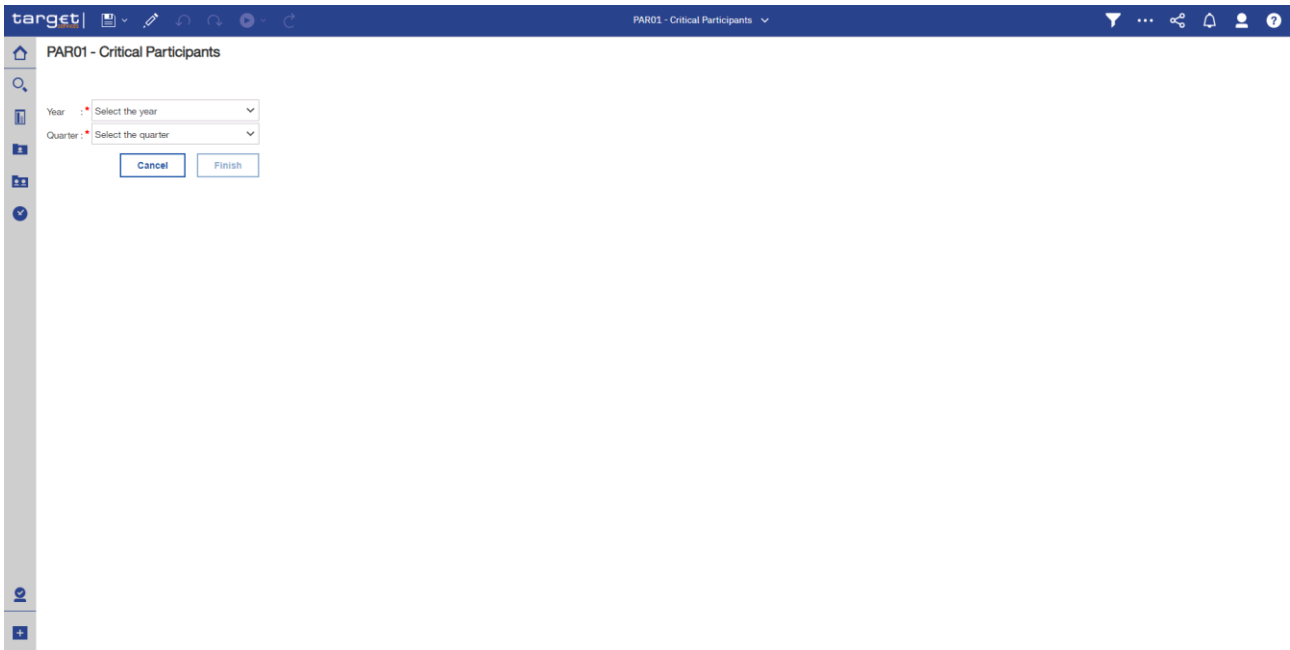


Figure 205 - PAR01 prompt

Prompt description

PAR01 – 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
Quarter	You can use this drop-down field to select the quarter, from which the report should contain the data. This field is mandatory

Table 45 - PAR01 - Prompt description

Screenshot - output screen

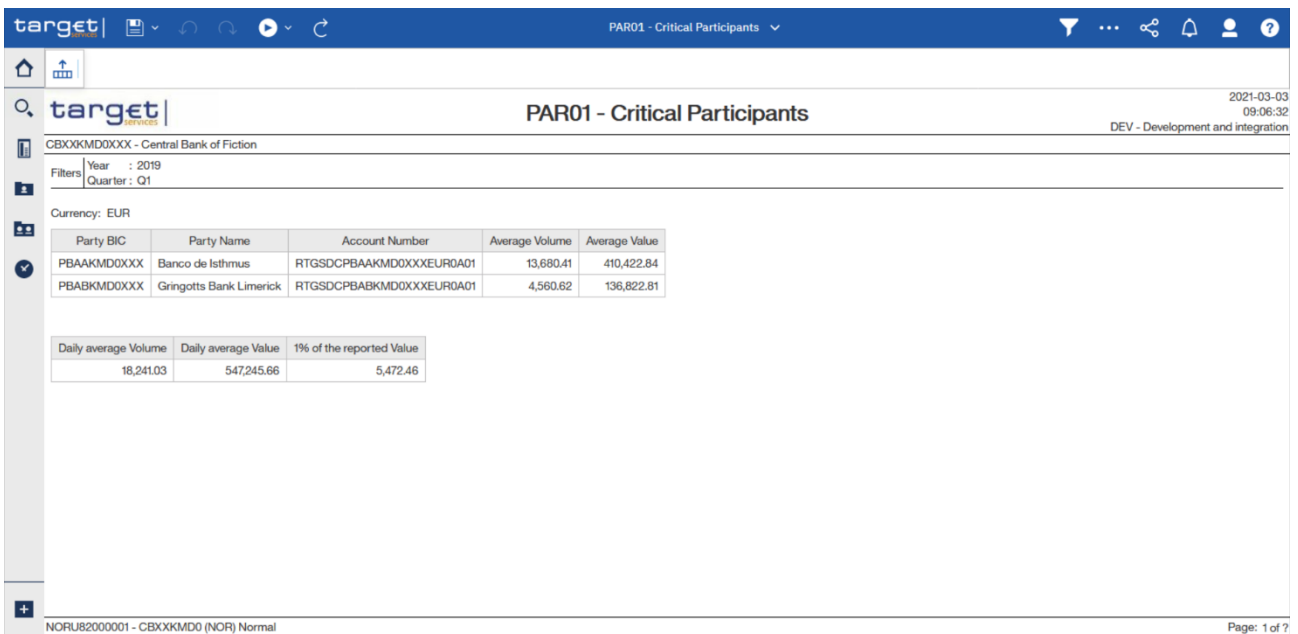


Figure 206 - PAR01 output (1)

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 46 - PAR01 - Output description

5.9.2 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 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 207 - PAR02 prompt

Prompt description

PAR02 – Report description – prompt screen	
Field label	Description
Date	<p>You can select the date by clicking on the calendar.</p> <p>For valid report results, the current day cannot be selected.</p> <p>This field is mandatory.</p>

Table 47 - PAR02 - Prompt description

Screenshot - output screen

Output description

target | PAR02 - List of active Direct and Indirect Participants according to RTGS Directory

2021-03-03 09:11:06
DEV - Development and integration

CBXXKMD0XXX - Central Bank of Fiction

Filters | Date : 2018-01-01

Participant BIC	Participant Name	Account BIC	Indirect participant BIC	Institution Name
PBAAKMD0XXX	Banco de Isthmus	PBAAKMR001X	LBSWKMFFXXX	Banco de Isthmus
PBMFKMD0XXX	Par ô Six Test Bank	PBMFKMR001X	PBMFKMI17X	Par ô Six Ouvert Bank

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Figure 208 - PAR02 output (1)

target | PAR02 - List of active Direct and Indirect Participants according to RTGS Directory

2021-03-03 09:11:06
DEV - Development and integration

CBXXKMD0XXX - Central Bank of Fiction

Filters | Date : 2018-01-01

Account BIC	Participant BIC	Participant Name	Valid from	National Sorting Code	RTGS participation type	Direct Participant BIC	Direct Participant Name	Country Code
ASAAKMR001X	ASAAKMD001X	MetroCapital	2018-01-01	NSORT0028	Direct			
ASAAKPR001X	ASAAKPD001X	Porex	2018-01-01	NSORT0066	Direct			
ASAAKWR001X	ASAAKW001X	Christiansa Central Clearing	2018-01-01	NSORT0103	Direct			
PBAAKMR001X	PBAAKMD001X	Banco de Isthmus	2018-01-01	NSORT0104	Direct			
PBAAKMR001X	LBSWKMFFXXX	Banco de Isthmus	2018-01-01	NSORT0007	Indirect	PBAAKMD0XXX	Banco de Isthmus	KM
PBAAKMR001X	PBAAKMD001X	Banco de Isthmus	2018-01-01	NSORT0009	Direct			
PBAAKPR001X	PBAAKPD001X	Lehman Brothers Bankhaus AG	2018-01-01	NSORT0011	Direct			
PBAAKWR001X	PBAAKW001X	Roma Bank	2018-01-01	NSORT0087	Direct			
PBAAKMR001X	PBAAKMD001X	Gringotts Bank	2018-01-01	NSORT0098	Direct			
PBAAKPR001X	PBAAKPD001X	Washington Mutual	2018-01-01	NSORT0050	Direct			
PBAAKWR001X	PBAAKW001X	Farename Bank	2018-01-01	NSORT0088	Direct			
PBAAKMR001X	PBAAKMD001X	Iron Banks of Braavos	2018-01-01	NSORT0014	Direct			
PBAAKPR001X	PBAAKPD001X	Herrstatt Bank AG	2018-01-01	NSORT0051	Direct			
PBAAKWR001X	PBAAKW001X	Åre Land Paralellrev	2018-01-01	NSORT0089	Direct			
PBAAKMR001X	PBAAKMD001X	Banque Mamon	2018-01-01	NSORT0016	Direct			
PBAAKPR001X	PBAAKPD001X	Thornburg Finance S.A.	2018-01-01	NSORT0052	Direct			
PBAAKWR001X	PBAAKW001X	Bilge Credit	2018-01-01	NSORT0090	Direct			
PBAAKMR001X	PBAAKMD001X	Bankhaus Goldscheider	2018-01-01	NSORT0016	Direct			
PBAAKPR001X	PBAAKPD001X	America First Savings & Loans	2018-01-01	NSORT0093	Direct			
PBAAKWR001X	PBAAKW001X	Vendhyttel-by Andelselskab	2018-01-01	NSORT0091	Direct			

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Figure 209 - PAR02 output (2)

target | PAR02-List of active Direct and Ind ... to RTGS Directory

Direct participant view | Indirect participant view

target | PAR02 - List of active Direct and Indirect Participants according to RTGS Directory

2021-03-03 09:11:06
DEV - Development and Integration

CBXXXXM00000 - Central Bank of Fiction
Filters | Date : 2018-01-01

Account BIC	Participant BIC	Participant Name	Valid from	National Sorting Code	RTGS participation type	Direct Participant BIC	Direct Participant Name	Country Code
PBBDKWR001X	PBBDKWD000XX	Tasinge og Frerup Udbetalingsbank	2018-01-01	NSORT0098	Direct			
PBBEKMFR001X	PBBEKMMD000XX	Banco di San Giorgio	2018-01-01	NSORT0024	Direct			
PBBEKPFR001X	PBBEKPDD000XX	Hypo Alpe Adria	2018-01-01	NSORT0061	Direct			
PBBEKMFR001X	PBBEKMWD000XX	Læse Landbobank	2018-01-01	NSORT0099	Direct			
PBBFKMFR001X	PBBFKMD000XX	Welsler Venezuela Funding	2018-01-01	NSORT0025	Direct			
PBBFKPR001X	PBBFKPD000XX	Banco Português de Negócios	2018-01-01	NSORT0062	Direct			
PBBFKWFR001X	PBBFKWDD000XX	Æro Pensionsbank	2018-01-01	NSORT0100	Direct			
PBBGKMFR001X	PBBGKMD000XX	Compagnie des Indes Occidentales	2018-01-01	NSORT0026	Direct			
PBBGKPR001X	PBBGKPD000XX	Schaaffhausen'scher Bankverein	2018-01-01	NSORT0063	Direct			
PBBGKWR001X	PBBGKWD000XX	Smlandsstarvandet Sparekassen	2018-01-01	NSORT0101	Direct			
PBBHKMFR001X	PBBHKMD000XX	Monte Pio	2018-01-01	NSORT0027	Direct			
PBBHKPR001X	PBBHKPD000XX	Banka	2018-01-01	NSORT0064	Direct			
PBBHKWR001X	PBBHKWD000XX	Masnedo Bank Aktieselskab	2018-01-01	NSORT0102	Direct			
PBMFKMFR001X	PBMFKMFI1TX	Par ò Six Ouvert Bank	2018-01-01	NSORT0125	Direct			
PBMFKMFR001X	PBMFKMI1TX	Par ò Six Ouvert Bank	2018-01-01	NSORT0127	Indirect	PBMFKMD000XX	Par ò Six Test Bank	KM

Total number of direct participants: 53
Total Number of indirect participants: 2

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Figure 210 - 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 48 - PAR02 - Output description

5.9.3 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 211 - 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.

Table 49 - PAR03 - Prompt description

Screenshot - output screen

The screenshot shows the 'target' application interface. The main title is 'PAR03 - Parties subject and not subject to minimum reserve'. The report is filtered for 'Parties subject to minimum reserve'. The data is organized into three sections: 'about', 'subject', and 'part'.

Party BIC	Party Name	MF Code
PSAAMDDXXX	Banco de Intermus	1002
PSBAMDDXXX	Crédit Agricole Leclercq	1003
PSQAMDDXXX	Van Bank of Belgium	1004
PSHAMDDXXX	Banque Marcheur Marchand	1005
PSFAMDDXXX	Dagobert Duck Triff Dierckx	1007
PSGAMDDXXX	Woodhouse Bank S.A.	1008
PSHAMDDXXX	Galati National Bank Ltd Dublin	1009
PSHAMDDXXX	Talman Mutual Ltd Dublin	1010
PSHAMDDXXX	Banco de Breda Plaza	1011
PSHAMDDXXX	Fidelity Savings & Trust	1012
PSHAMDDXXX	Par 3 St. Paul Bank	1013
PSHAMDDXXX	Par 3 St. Paul Bank	1013

Party BIC	Party Name	MF Code	Leading CLM Account Holder BIC	Leading CLM Account Holder Name
ASAMDDXXX	Auton International - L. Frankfurt	1004	PSAMDDXXX	Crédit Agricole
ASAMDDXXX	Discount Card Holder	1005	PSAMDDXXX	Crédit Agricole
PSHAMDDXXX	Banque Mutualité Frankfurt	1006	PSAMDDXXX	Banco de Intermus
PSHAMDDXXX	DG Deutsche Global Investment Bank AG Frankfurt	1013	PSAMDDXXX	Banco de Intermus

Party BIC	Party Name	MF Code	Leading CLM Account Holder BIC	Leading CLM Account Holder Name
ASAMDDXXX	MetroCapital Cooperation Clark	1016	PSHAMDDXXX	Monte Plé
PSHAMDDXXX	Banco di San Giorgio Genova	1016	PSHAMDDXXX	Banco di San Giorgio
PSHAMDDXXX	Wahler Venezia Parking Genova	1016	PSHAMDDXXX	Banco di San Giorgio
PSHAMDDXXX	Compagnie des Indes Occidentales S.A. Paris	1016	PSHAMDDXXX	Banco di San Giorgio
PSHAMDDXXX	Infibus Bancario di Monte Plé	1017	PSHAMDDXXX	Monte Plé

Figure 212 - PAR03 output (1)

The screenshot shows the 'target' application interface. The main title is 'PAR03 - Parties subject and not ... to minimum reserve'. The report is filtered for 'Parties not subject to minimum reserve'. The data is organized into a single table section.

Party BIC	Party Name	MF Code
FACTHMDXXX	Nakamura Factoring N.V. Rotterdam	10055

Figure 213 - 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
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 50 - PAR03 - Output description - table parties subject to minimum reserve

PAR03 – Report description – output screen - table parties not subject to minimum reserve

Label	Description
Party BIC	Party BIC
Party Name	Party short name
MFI Code	MFI-Code of the party (can be empty)

Table 51 - PAR03 - Output description - table parties not subject to minimum reserve

5.9.4 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

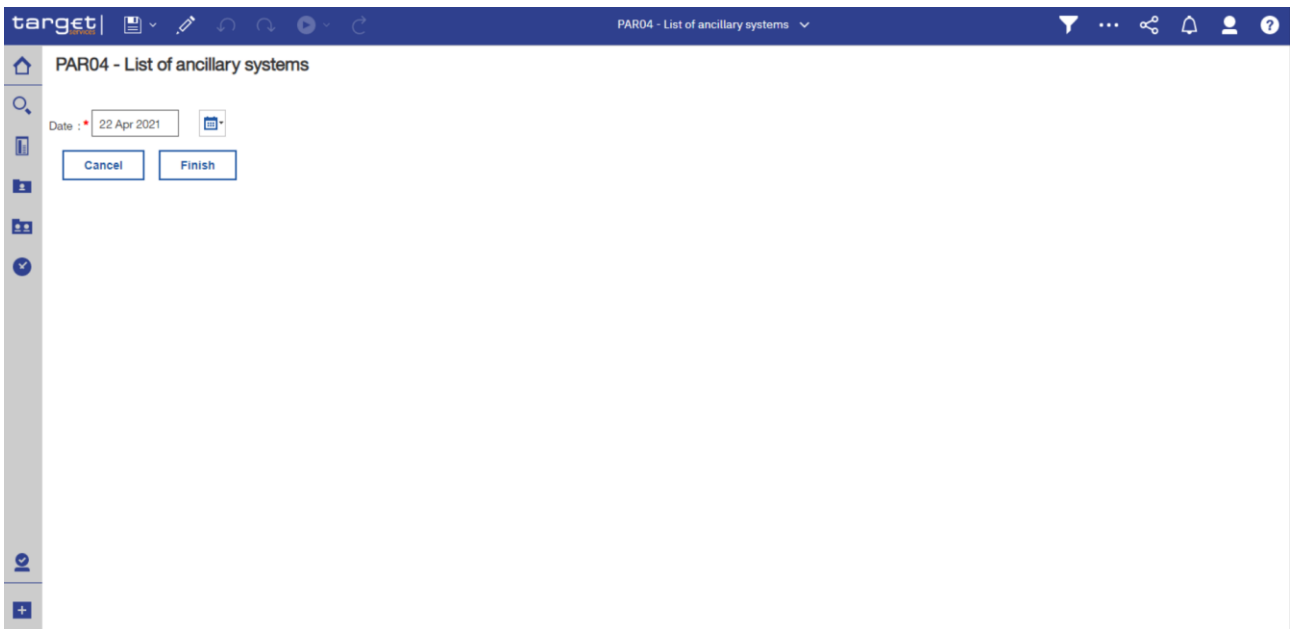


Figure 214 - PAR04 prompt

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 52 - PAR04 - Prompt description

Screenshot - output screen

The screenshot shows the Target Services interface for the report 'PAR04 - List of ancillary systems'. The report is filtered by Party BIC 'ASAAKMD0000' and Party Name 'MetroCapital'. The data is presented in a table with the following columns: Party BIC, Party Name, Ancillary System Type, Service Party Type, Account Type, Account Number, Account Owner BIC, Account Owner Name, and AS Settlement Procedure. The table contains 20 rows of data, each representing a different ancillary system account.

Party BIC	Party Name	Ancillary System Type	Service Party Type	Account Type	Account Number	Account Owner BIC	Account Owner Name	AS Settlement Procedure
ASAAKMD0000	MetroCapital	Security Settlement System	Ancillary System	AS technical account	ASGUAFASAAKMD0000EUR0A02	ASAAKMD0000	MetroCapital	A
ASAAKMD0000	MetroCapital	Security Settlement System	Ancillary System	AS technical account	ASGUAFASAAKMD0000EUR0A02	ASAAKMD0000	MetroCapital	B
ASAAKMD0000	MetroCapital	Security Settlement System	Ancillary System	AS technical account	ASTECHASAAKMD0000EUR0A01	ASAAKMD0000	MetroCapital	A
ASAAKMD0000	MetroCapital	Security Settlement System	Ancillary System	RTGS DCA	RTGSDCASAAMKMD0000EUR0A00	ASAAKMD0000	MetroCapital	A
ASAAKMD0000	MetroCapital	Security Settlement System	Ancillary System	AS technical account	RTGSDCASAAMKMD0000EUR0A01	ASAAKMD0000	MetroCapital	A
ASAAKMD0000	MetroCapital	Security Settlement System	Ancillary System	RTGS DCA	RTGSDCPBAEKPD0000EUR0A01	PBAEKPD0000	America First Savings & Loans	A
ASAAKMD0000	MetroCapital	Security Settlement System	Ancillary System	RTGS DCA	RTGSDCPBAEKPD0000EUR0D01	PBAEKPD0000	America First Savings & Loans	A
ASAAKMD0000	MetroCapital	Security Settlement System	Ancillary System	RTGS DCA	RTGSDCPBBBKMD0000EUR0A01	PBBBKMD0000	Banca de Bondi	A
ASAAKMD0000	MetroCapital	Security Settlement System	Ancillary System	RTGS DCA	RTGSDCPBBBKMD0000EUR0D01	PBBBKMD0000	Banca de Bondi	A
ASAAKMD0000	MetroCapital	Security Settlement System	Ancillary System	RTGS DCA	RTGSDCPBBBKMD0000EUR0D11	PBBBKMD0000	Banca de Bondi	A
ASAAKMD0000	MetroCapital	Security Settlement System	Ancillary System	RTGS DCA	RTGSDCPBBFKPD0000EUR0D01	PBBFKPD0000	Banco Português de Negócios	A
ASAAKMD0000	MetroCapital	Security Settlement System	Ancillary System	RTGS DCA	RTGSDCPBBFKPD0000EUR0D01	PBBFKPD0000	Banco Português de Negócios	A
ASAAKMD0000	MetroCapital	Security Settlement System	Ancillary System	RTGS DCA	RTGSDCPBAAMKMD0000EUR0A01	PBAAMKMD0000	Banco de Isthmus	A
ASAAKMD0000	MetroCapital	Security Settlement System	Ancillary System	RTGS DCA	RTGSDCPBAAMKMD0000EUR0B01	PBAAMKMD0000	Banco de Isthmus	A
ASAAKMD0000	MetroCapital	Security Settlement System	Ancillary System	RTGS DCA	RTGSDCPBAAMKMD0000EUR0D01	PBAAMKMD0000	Banco de Isthmus	A
ASAAKMD0000	MetroCapital	Security Settlement System	Ancillary System	RTGS DCA	RTGSDCPBAAMKMD0000EUR0D02	PBAAMKMD0000	Banco de Isthmus	A
ASAAKMD0000	MetroCapital	Security Settlement System	Ancillary System	RTGS DCA	RTGSDCPBBEKMD0000EUR0A01	PBBEKMD0000	Banco di San Giorgio	A
ASAAKMD0000	MetroCapital	Security Settlement System	Ancillary System	RTGS DCA	RTGSDCPBBEKMD0000EUR0D01	PBBEKMD0000	Banco di San Giorgio	A
ASAAKMD0000	MetroCapital	Security Settlement System	Ancillary System	RTGS DCA	RTGSDCPBBEKMD0000EUR0D11	PBBEKMD0000	Banco di San Giorgio	A
ASAAKMD0000	MetroCapital	Security Settlement System	Ancillary System	RTGS DCA	RTGSDCPBBAKPD0000EUR0A01	PBBAKPD0000	Bank of New England	A

Figure 215 - PAR04 output (1)

Party BIC	Party Name	Ancillary System Type	Service Party Type	Account Type	Account Number	Account Owner BIC	Account Owner Name	AS Settlement Procedure
ASAAKMD000X	MetroCapital	Security Settlement System	Ancillary System	RTGS DCA	RTGSDCPBBAKMD000XEUR0A01	PBBAKMD000X	Telso's Mutual	A
			Ancillary System	RTGS DCA	RTGSDCPBBAKMD000XEUR0D01	PBBAKMD000X	Telso's Mutual	A
			Ancillary System	RTGS DCA	RTGSDCPBBAKMD000XEUR0D11	PBBAKMD000X	Telso's Mutual	A
			Ancillary System	RTGS DCA	RTGSDCPBADKPD000XEUR0A01	PBADKPD000X	Thornburg Finance S.A.	A
			Ancillary System	RTGS DCA	RTGSDCPBADKPD000XEUR0D01	PBADKPD000X	Thornburg Finance S.A.	A
			Ancillary System	RTGS DCA	RTGSDCPBADKPD000XEUR0D11	PBADKPD000X	Washington Mutual	A
			Ancillary System	RTGS DCA	RTGSDCPBARKPD000XEUR0A01	PBARKPD000X	Washington Mutual	A
			Ancillary System	RTGS DCA	RTGSDCPBARKPD000XEUR0D01	PBARKPD000X	Washington Mutual	A
			Ancillary System	RTGS DCA	RTGSDCPBARKPD000XEUR0D11	PBARKPD000X	Welsler Venezuela Funding	A
			Ancillary System	RTGS DCA	RTGSDCPBBFKMD000XEUR0A01	PBBFKMD000X	Welsler Venezuela Funding	A
			Ancillary System	RTGS DCA	RTGSDCPBBFKMD000XEUR0D01	PBBFKMD000X	Welsler Venezuela Funding	A
			Ancillary System	RTGS DCA	RTGSDCPBBFKMD000XEUR0D11	PBBFKMD000X	Welsler Venezuela Funding	A
			Ancillary System	RTGS DCA	RTGSDCPBAGKMD000XEUR0A01	PBAGKMD000X	Woodgrove Bank	A
			Ancillary System	RTGS DCA	RTGSDCPBAGKMD000XEUR0D01	PBAGKMD000X	Woodgrove Bank	A
Ancillary System	RTGS DCA	RTGSDCPBAGKMD000XEUR0D11	PBAGKMD000X	Woodgrove Bank	A			
ASABKMD000X	Auslandskassenverein i.L.	Security Settlement System	Ancillary System	RTGS DCA	RTGSDCASABKMD000XEUR0A01	ASABKMD000X	Auslandskassenverein i.L.	A
ASACKMD000X	Discount Card	Retail Payment System	Ancillary System	AS guarantee funds account	RTGSDCASABKMD000XEUR0G01	ASABKMD000X	Auslandskassenverein i.L.	B
			Ancillary System	RTGS DCA	RTGSDCASABKMD000XEUR0D02	ASACKMD000X	Discount Card	E

Figure 216 - PAR04 output (2)

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	<p>Ancillary system type.</p> <p>Possible values:</p> <ul style="list-style-type: none"> High-Value-Payment- Systems (HVPS) Retail-Payment-Systems (RPS) Instant-Payment-Systems (IPS) Security-Settlement-Systems (SSS) Foreign-Exchange-Settlement-Systems Money-Market-Settlement-Systems (MMS) Central Counterparties (CCP) Other
Service party type	<p>Service party type linked to the party.</p> <p>Possible values:</p> <ul style="list-style-type: none"> Ancillary system

	<ul style="list-style-type: none"> RTGS Account holder
Account type	<p>Account type.</p> <p>Possible values:</p> <ul style="list-style-type: none"> 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	<p>Optional criteria;</p> <p>Possible Values:</p> <p>A, B, C, D, E</p> <p>If not applicable, field is filled with “—”</p>

Table 53 - PAR04 - Output description

5.9.5 PAR05 – List of DCA cross-border links

Context of usage

This report provides information on those DCAs and their linked MCA when they are held in books of different CBs within a given month.

For each cross border link, the account number and the party BIC and name of the DCA and the linked account are reported. In addition, the country code of the CB being responsible for the respective account (DCA and the linked account) is displayed.

The report is provided in two different views (DCA and linked account view).

CBs can retrieve information on those cross border links where either the party owning the DCA and/or the party owning the linked account of a cross border link belongs to their system entity.

This report can be used by CB users only.

Report access²

This report can be reached in the following way:

[Team Content] >> [Predefined Reports] >> [PAR – Participation Reports] >> [PAR05]

Screenshot – prompt

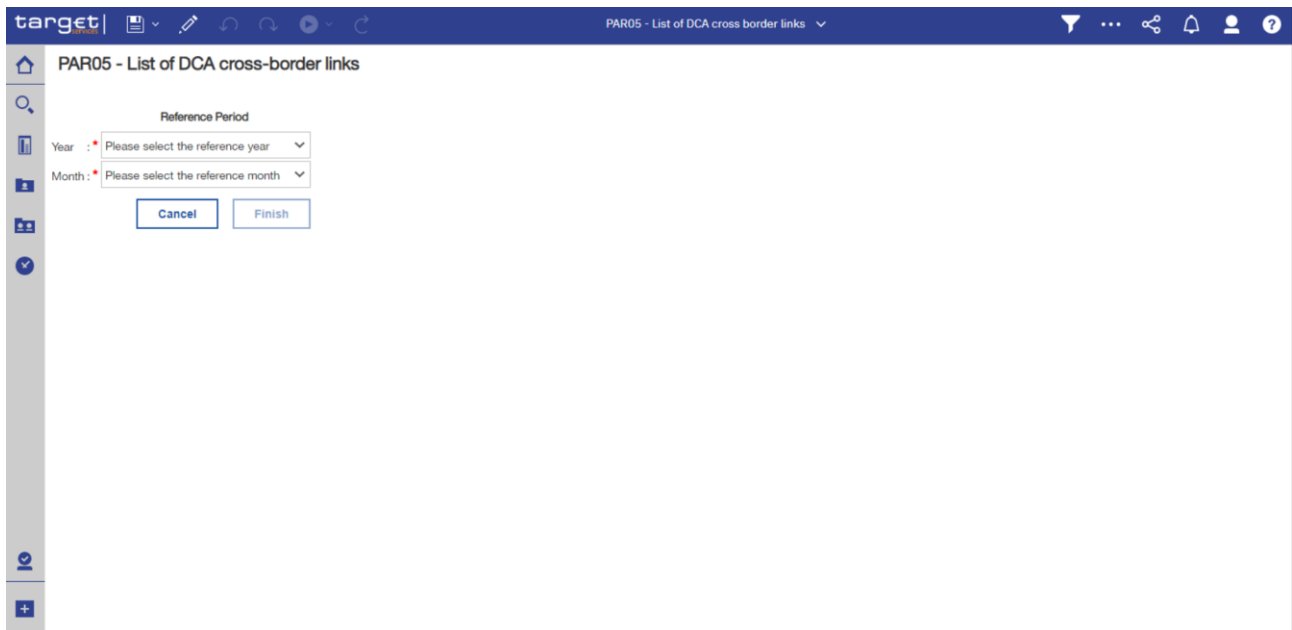


Figure 217 - PAR05 prompt

2 This report currently shows empty results since DCA cross border links no longer exist in T2 (contrary to Target2). Will be transformed by a future CR to show cross-service billing groups.

Prompt description

PAR05 – Report description – prompt screen	
Field label	Description
Year	<p>You can use this drop-down field to select the year, from which the report should contain the data.</p> <p>This field is mandatory</p>
Month	<p>You can use this drop-down field to select the month, from which the report should contain the data.</p> <p>For a valid report result, it is necessary to select at least the previous Month.</p> <p>This field is mandatory</p>

Table 54 - PAR05 - Prompt description

Screenshot - output screen

The screenshot shows the Target Services interface for the report 'PAR05 - List of DCA cross-border links'. The report is displayed in a table format with the following data:

DCA			Linked MCA			
Account Number	Party BIC	Party Name	Account Number	Party BIC	Party Name	Country Code CB
RTGSDCPBBBKMD0XXXEUR0A01	PBBBKMD0XXX	Banca de Bondi	MACASHPBBDKPD0XXXEUR0A01	PBBDKPD0XXX	Bankhaus Medici	KP
RTGSDCPBBBKMD0XXXEUR0A01	PBBBKMD0XXX	Banco di San Giorgio	MACASHPBBDKPD0XXXEUR0A01	PBBDKPD0XXX	Bankhaus Medici	KP
RTGSDCPBBBKMD0XXXEUR0A01	PBBBKMD0XXX	Monte Pio	MACASHPBBDKPD0XXXEUR0A01	PBBDKPD0XXX	Bankhaus Medici	KP

Figure 218 - PAR05 output (1) – DCA view

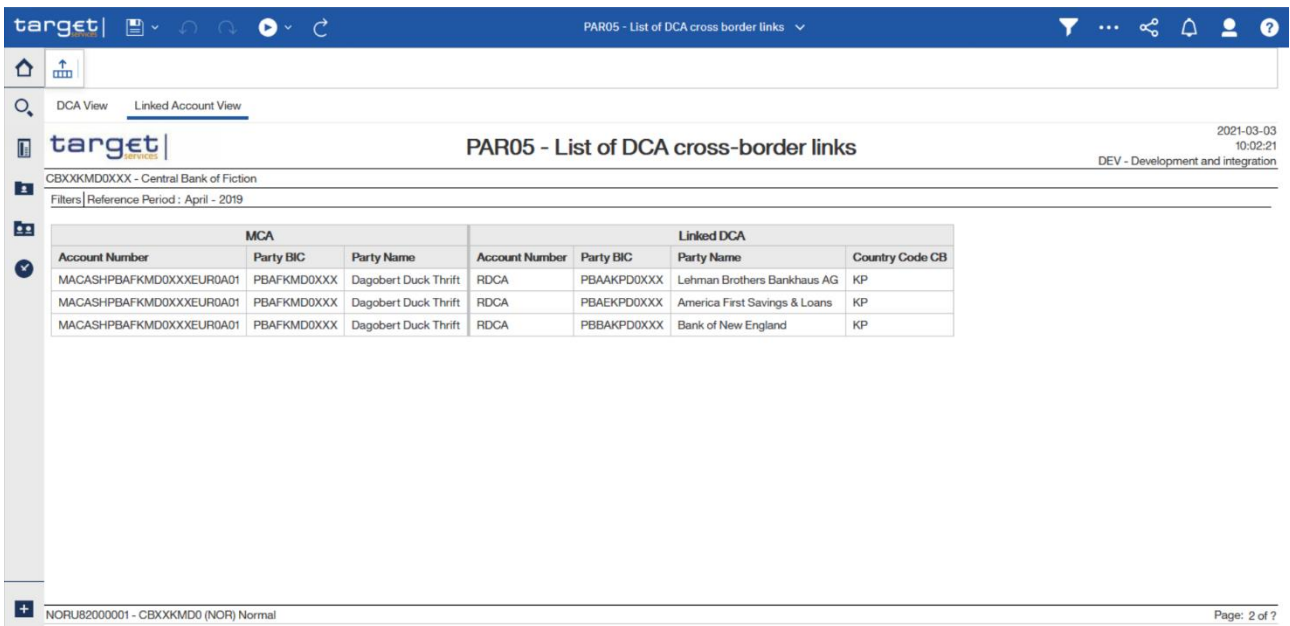


Figure 219 - PAR05 output (2) – Linked account view

Output description

PAR05 –Report description – output screen – table DCA view

Field label	Description
DCA, list sorted by account number	
Account Number	Dedicated cash account number with a cross-border link during the selected month
Party BIC	BIC of the party owning the DCA
Party Name	Short name of the party owning the DCA.
Linked MCA	
Account Number	MCA number corresponding to the DCA
Party BIC	BIC of the party owning the MCA
Party Name	Short name of the party owning the MCA.
Country Code CB	Country code of the CB responsible for the MCA

Table 55 - PAR05 - Output description - Table DCA View

PAR05 –Report description – output screen – table linked account view

Field label	Description
MCA, list sorted by account number	

Account Number	MCA number
Party BIC	BIC of the party owning the MCA
Party Name	Short name of the party owning the MCA
Linked DCA	
Account Number	Dedicated cash account number corresponding to the MCA
Party BIC	BIC of the party owning the DCA
Party Name	Short name of the party owning the DCA.
Country Code CB	Country code of the CB responsible for the MCA corresponding to the DCA

Table 56 - PAR05 - Output description - Table linked account view

5.9.6 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.

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 220 - PAR06 prompt

Prompt description

PAR06 – Report description – prompt screen

Field label	Description
Date	<p>You can select the date by clicking on the calendar.</p> <p>For valid report results, the current day cannot be selected.</p> <p>This field is mandatory</p>

Table 57 - PAR06 - Prompt description

Screenshot - output screen

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				
FO	1	1	2	1	1	0	0	0	0
KM	19	21	40	17	19	2	5	4	1
KP	20	18	38	16	18	0	1	0	1
KW	18	18	36	15	17	0	0	0	1
Overall - Total	58	58	116	49	55	2	6	4	3

Figure 221 - PAR06 output

Output description

PAR06 – Report description – output screen

Field label	Description
Country	ISO country code
Direct Participants	
Published	Number of published RTGS DCA Account BICs
Unpublished	Number of unpublished RTGS DCA Account BICs
Overall	Number of published + unpublished RTGS DCA Account BICs
Payment banks with at least one RTGS DCA	Distinct number of payment banks having at least one RTGS DCA
Direct Participants accord. BIC8-Criterion	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

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 58 - PAR06 - Output description

5.10 Standing facilities reports (STF)

5.10.1 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 “Automated 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]

Screenshot – prompt

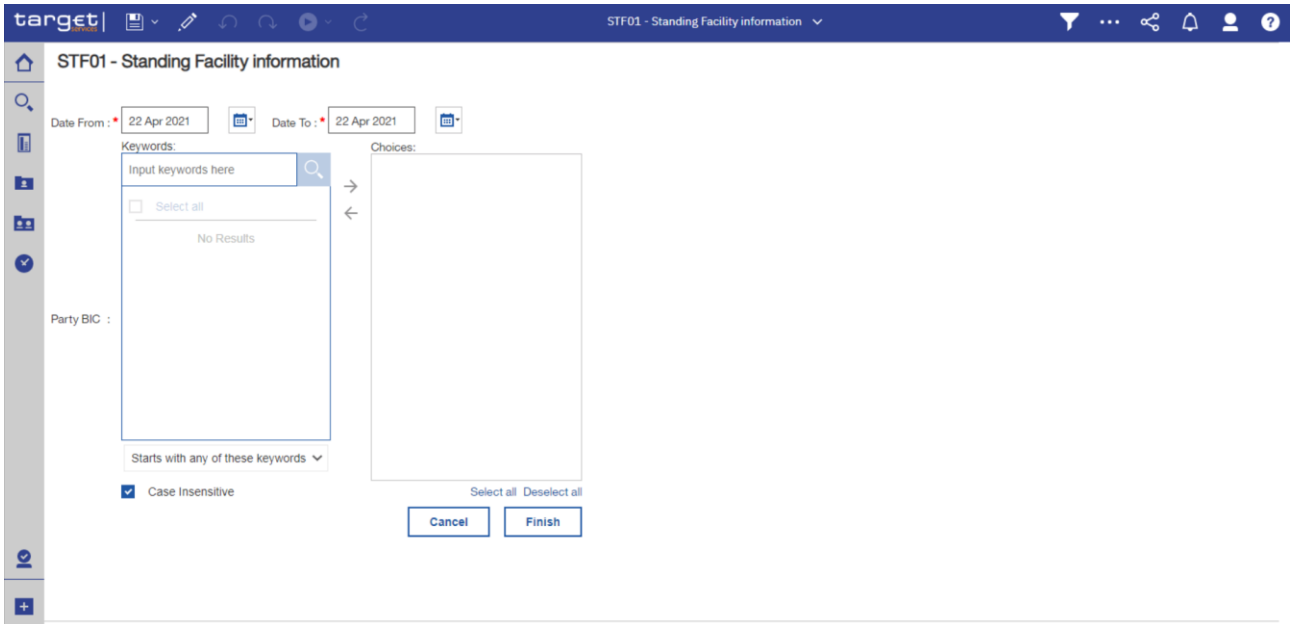


Figure 222 - STF01 prompt

Prompt description

STF01 – 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 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 mandatory.

Table 59 - STF01 - Prompt description

Screenshot - output screen

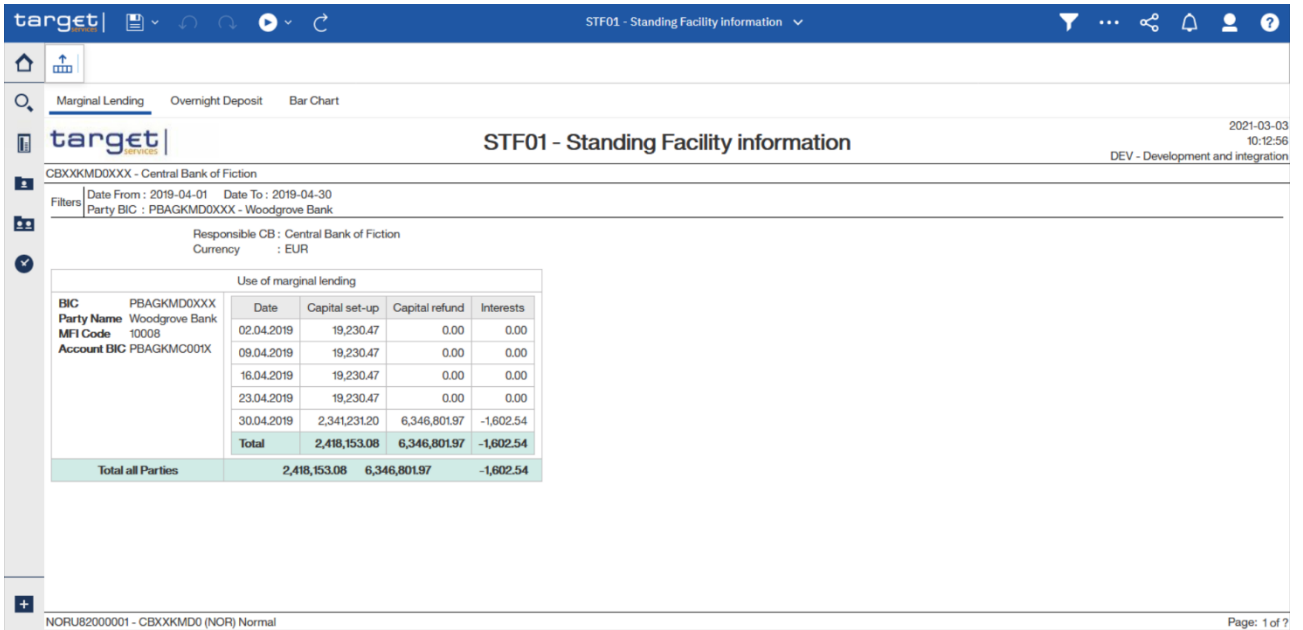


Figure 223 - STF01 output (1)

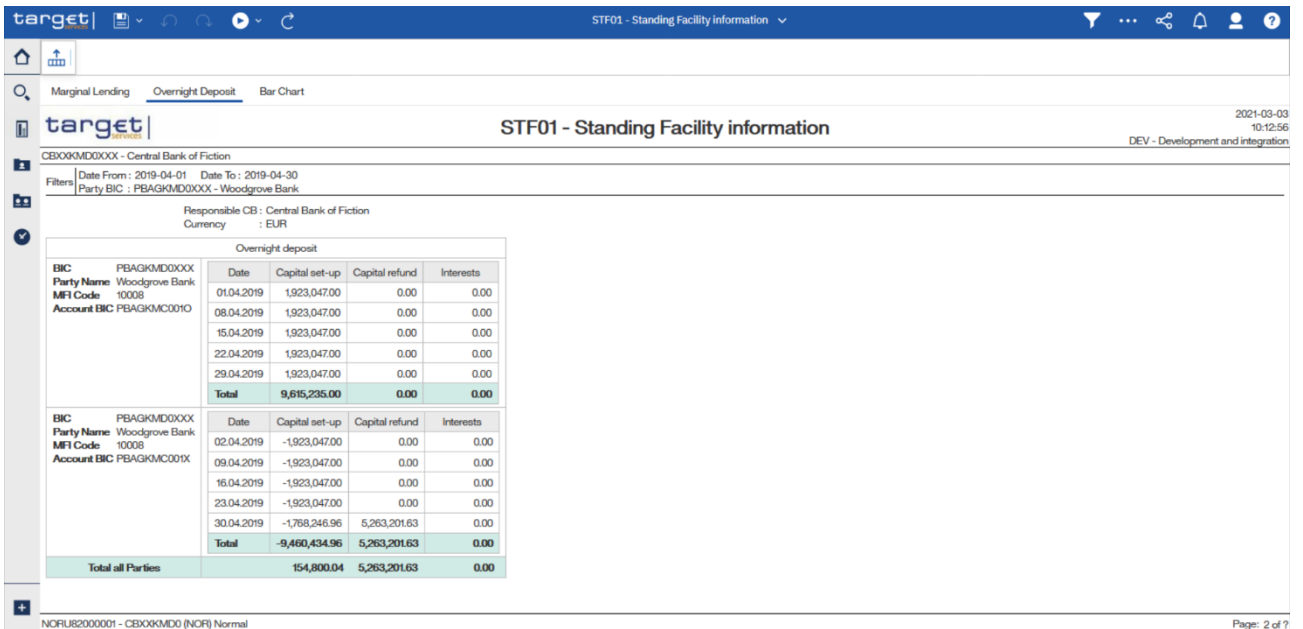


Figure 224 - STF01 output (2)

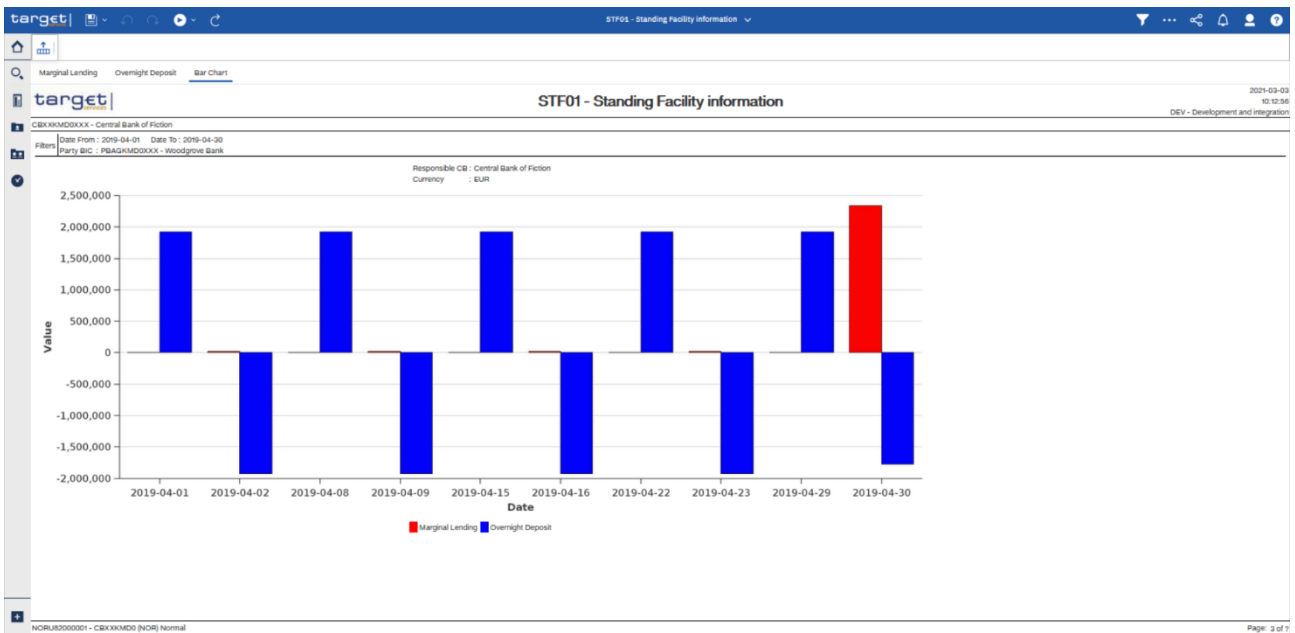


Figure 225 - STF01 output (3)

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 60 - 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.

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 61 - 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	Bar chart:
y-axis:	Each business day within the given date range has an entry on the x-axis-
- The amount of marginal lending capital set-up	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)
- The amount of overnight deposit capital set-up	Marginal lending and overnight deposit are separately shown for each business day and are differentiated by separate colours.
Total all Parties for capital set-up capital refund interests	For all business days and all parties

Table 62 - STF01 - Output description - Bar chart for marginal lending and overnight deposit

5.11 Statement reports (STA)

5.11.1 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.

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

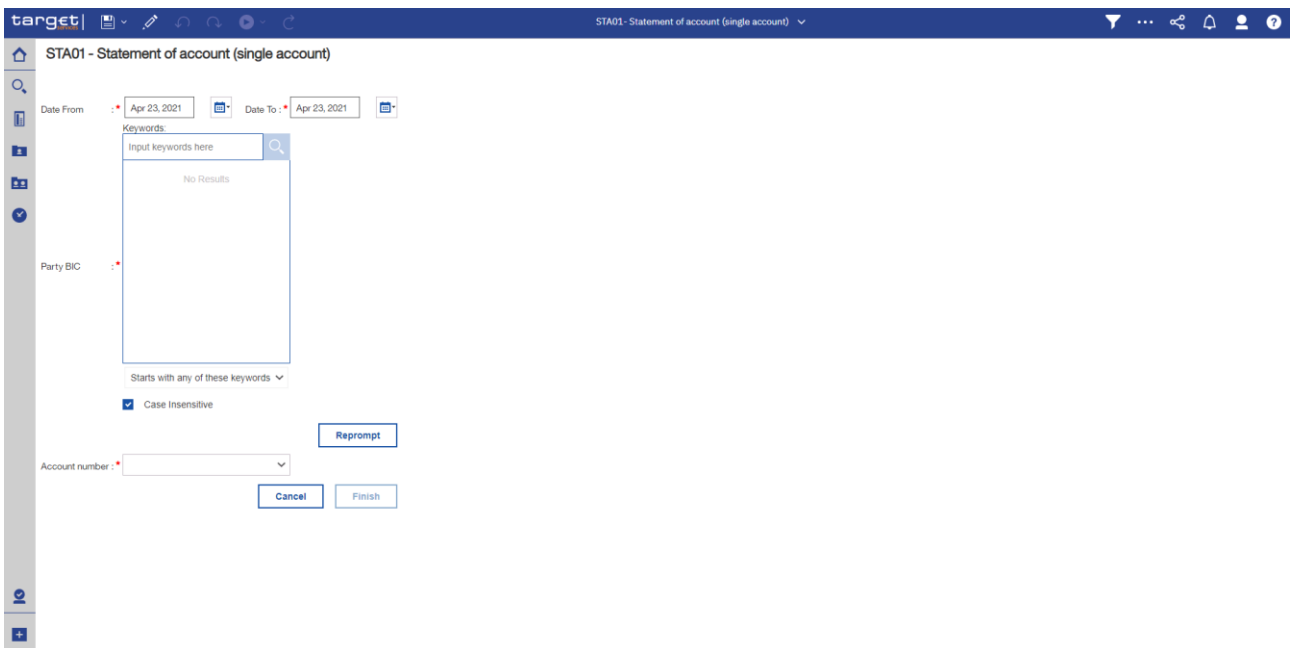


Figure 226 - STA01 prompt (1)

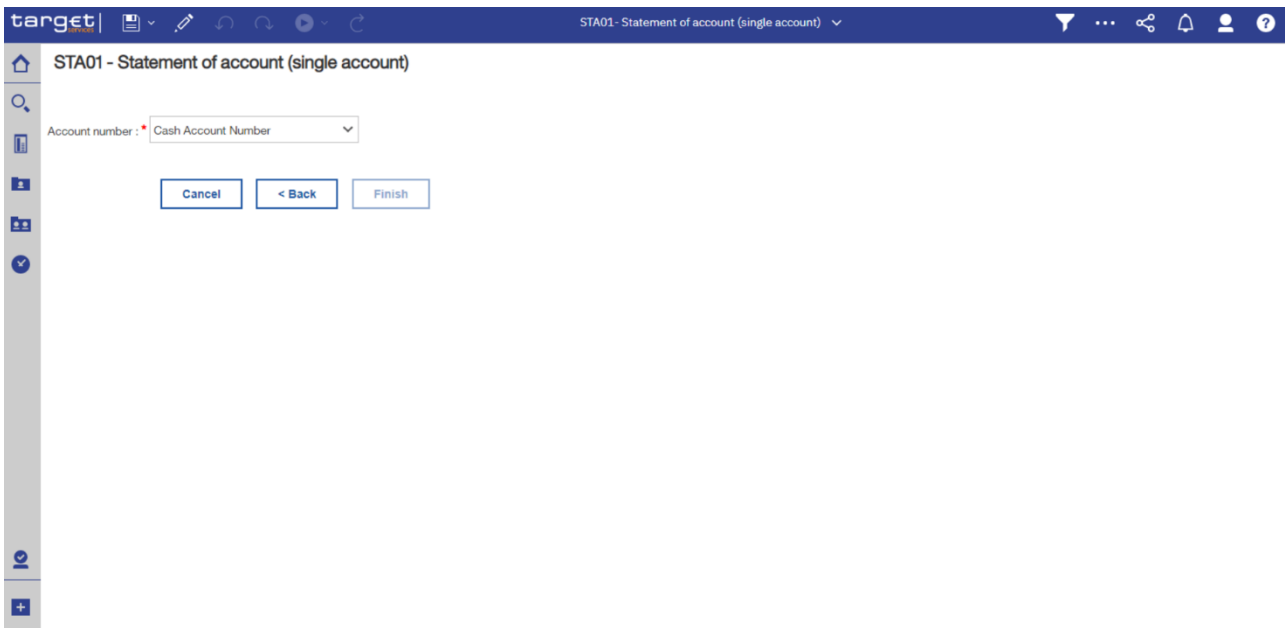


Figure 227 - STA01 prompt (2)

Prompt description

STA01 – 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.
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 63 - STA01 - Prompt description

Screenshot - output screen

target | STA01 - Statement of account (single account) | 2021-04-23 15:15:36
DEV - Development and Integration

target | STA01 - Statement of account (single account)

PBAAKMD0XXX - Banco de Isthmus

Filters: Date From : 2019-04-01, Date To : 2019-04-30, Party BIC : PBAAKMD0XXX - Banco de Isthmus, Account number : MACASHPBAAKMD0XXXEUR0A01

Account Statement (single account)

National Sorting Code: NSORT00000000058, Currency: EUR, Account Type: CMCA, Party Address: Penny Lane 771 8000013 Frankfurt, Place and Date: Montelongo, 2021-04-23, Created by: PBAAKMD0XXX - Banco de Isthmus

Account number : MACASHPBAAKMD0XXXEUR0A01

Date: 2019-04-01 SoD 2,644,188,822.00

Reference Id 1	Reference Id 2	Settlement timestamp	Counterpart country code	Counterpart party BIC	Counterpart account BIC	Counterpart service	Debit	Credit	Balance	
UETR_2018141151270	E2E_2018141151270	2019-04-01 17:48:23.001	KM	CBXXKMD0XXX	PBAAKMC001O	CLM	1,923,046.00		2,642,265,776.00	
UETR_2018141200192	E2E_2018141200192	2019-04-01 17:48:23.164	KM	CBXXKMD0XXX	PBAAKMC001M	CLM	19,230.46		2,642,246,545.54	
Total number of cash transfers							2	Total sum of cash transfers	1,942,276.46	EoS 2,642,246,545.54

Date: 2019-04-02 SoD 2,642,246,545.54

Reference Id 1	Reference Id 2	Settlement timestamp	Counterpart country code	Counterpart party BIC	Counterpart account BIC	Counterpart service	Debit	Credit	Balance
UETR_2018141198848	E2E_2018141198848	2019-04-01 17:48:23.055	KM	CBXXKMD0XXX	PBAAKMC001O	CLM		1,923,046.00	2,644,169,591.54
UETR_2018141200340	E2E_2018141200340							19,230.46	2,644,188,822.00

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Figure 228 - STA01 output (1)

target		STA01- Statement of account (single account)			
Settlement timestamp	2019-04-30 17:04:32.914				
Counterpart country code	KR				
Counterpart party BIC	CBXXXKRD0XXX				
Counterpart account BIC					
Counterpart service	CLM				
Reference id 1	not provided	0.00			2,644,410,186.01
Reference id 2	E2E_2018141190973				
Settlement timestamp	2019-04-30 17:04:32.957				
Counterpart country code	KI				
Counterpart party BIC	CBXXXKID0XXX				
Counterpart account BIC					
Counterpart service	CLM				
Reference id 1	not provided	0.00			2,644,410,186.01
Reference id 2	E2E_2018141191099				
Settlement timestamp	2019-04-30 17:04:32.999				
Counterpart country code	PL				
Counterpart party BIC	CBXXPLD0XXX				
Counterpart account BIC					
Counterpart service	CLM				
Reference id 1	not provided	0.00			2,644,410,186.01
Reference id 2	E2E_2018141191225				
Settlement timestamp	2019-04-30 17:04:33.041				
Counterpart country code	CZ				
Counterpart party BIC	CBXXCZD0XXX				
Counterpart account BIC					
Counterpart service	CLM				
Reference id 1	not provided	0.00			2,644,410,186.01
Reference id 2	E2E_2018141191351				
Settlement timestamp	2019-04-30 17:04:33.083				
Counterpart country code	GL				
Counterpart party BIC	CBXXGLD0XXX				
Counterpart account BIC					
Counterpart service	CLM				
Reference id 1	not provided	0.00			2,644,410,186.01
Reference id 2	E2E_2018141191477				
Settlement timestamp	2019-04-30 17:04:33.125				
Counterpart country code	FO				
Counterpart party BIC	CBXXFOD0XXX				
Counterpart account BIC					
Counterpart service	CLM				
Reference id 1	UETR_2018141201071	1,602.54			2,644,408,583.47
Reference id 2	E2E_2018141201071				
Settlement timestamp	2019-04-30 17:48:23.056				
Counterpart country code	KM				
Counterpart party BIC	CBXXXKMD0XXX				
Counterpart account BIC					
Counterpart service	CLM				
Total number of cash transfers	75	Total sum of cash transfers	86,225,223.58	88,387,262.52	EoD 2,644,408,583.47
Overall number of cash transfers	93	Overall sum of cash transfers	95,936,609.92	96,156,371.39	

Figure 229 - 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	<p>Depending on the message that caused the cash transfer, the following reference type is listed:</p> <ul style="list-style-type: none"> camt.050: Message ID (from BAH) pacs.004: original UETR pacs.008: UETR pacs.009: UETR pacs.010: UETR <p>If no reference can be found, this field is left empty.</p>
Reference 2	<p>End To End ID</p> <p>If no reference can be found, this field is left empty.</p>
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
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
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)	<p>Balance of the account at the end of the business days</p> <p>Balance of account (EoD) is always shown, even if there is no cash transfer during the business day.</p>
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 64 - STA01 - Output description

5.11.2 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]

Screenshot – prompt

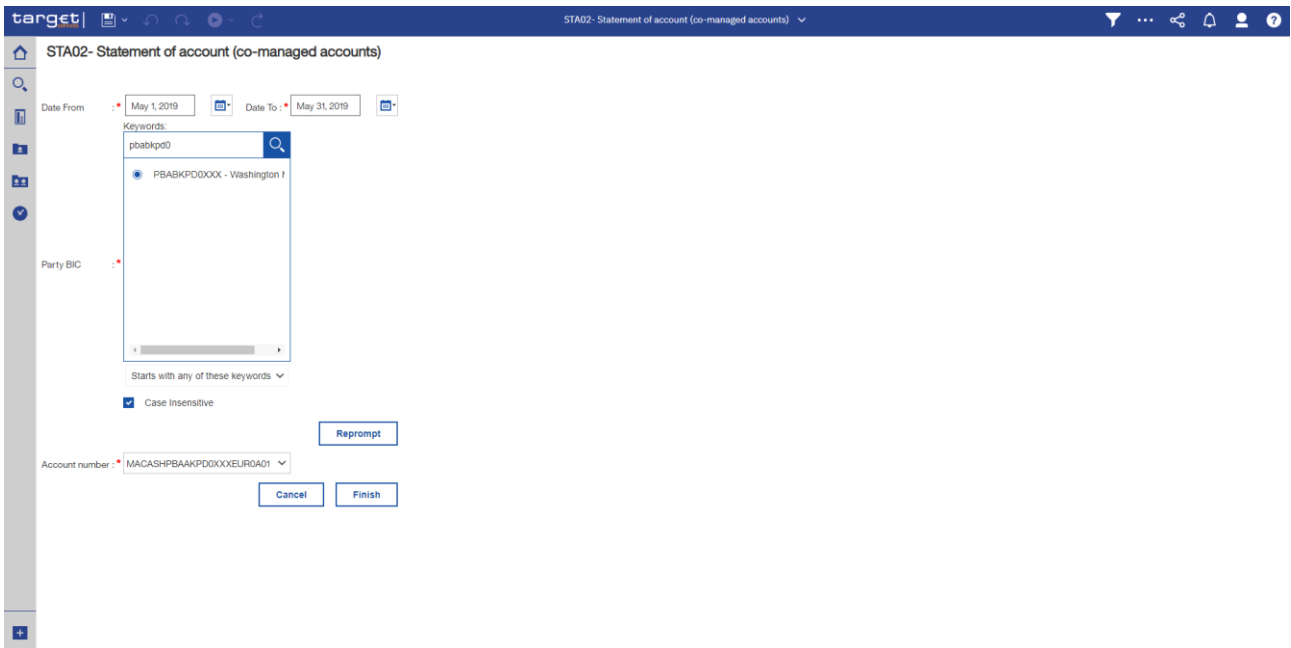


Figure 230 - STA02 prompt

Prompt description

STA02 – 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	<p>You can select the end date of the period, for which the report should contain the data by clicking on the calendar.</p> <p>For valid report results, the current day cannot be selected.</p> <p>This field is mandatory</p>
Party BIC	<p>You can use this search and select prompt to search for the party BIC or short name</p> <p>This field is mandatory</p>
Account number	<p>You can select here the cash account number for which the account statement should be generated.</p> <p>Only MCA numbers under the selected party BIC can be selected</p> <p>This field is optional.</p>

Table 65 - STA02 - Prompt description

Screenshot - output screen

The screenshot displays the 'STA02 - Statement of account (Co-managed account)' interface. It features a header with the target logo and navigation icons. Below the header, there is a search bar and a main content area. The main content area includes a filter section with the following details:

- Filters: Date From: 2019-05-01, Date To: 2019-05-31, Party BIC: PBABKPD0XXX - Washington Mutual, Account number: MACASHPBAAKPD0XXXEUR0A01
- Account Statement (single account): National Sorting Code: NSORT00000000076, Currency: EUR, Account Type: CMCA, Party Address: Penny Lane 771 80000013 Frankfurt, Place and Date: Den Haag, 2021-04-23, Created by: PBABKPD0XXX - Washington Mutual
- Account number: MACASHPBAAKPD0XXXEUR0A01

 The main table shows account statements for two dates: 2019-05-01 and 2019-05-02. The table has columns for Reference Id, Settlement timestamp, Counterpart country code, Counterpart party BIC, Counterpart account BIC, Counterpart service, Debit, Credit, and Balance. The total sum of cash transfers for 2019-05-01 is 1,602.54, and for 2019-05-02, it is 0. The overall balance at the end of the period (EoD) is 7,211,430,120.00.

Figure 231 - STA02 output (1)

Reference Id 1	Reference Id 2	Settlement timestamp	Counterpart country code	Counterpart party BIC	Counterpart account BIC	Counterpart service	0.00	7211704,644.16				
not provided	E2E_2018141191275	2019-05-30 17:04:23.000	CZ	CBXXCZ00XXX		CLM						
not provided	E2E_2018141191527	2019-05-30 17:04:23.000	GL	CBXXGLD00XX		CLM	0.00	7211704,644.16				
not provided	E2E_2018141201121	2019-05-30 17:48:23.000	FO	CBXXFOD00XX		CLM	0.00	7211704,644.16				
UETR_201814201121	E2E_201814201121	2019-05-30 17:48:23.000	KP	CBXXKP000XX		CLM	1,602.54	7211703,04162				
Total number of cash transfers							73	Total sum of cash transfers	106,277,273.36	106,548,514.98	SoD	526,451,111,774.91
Date: 2019-05-31												
								Debit	Credit	Balance		
												7,211,431,860.00
Total number of cash transfers							90	Total sum of cash transfers	114,046,391.32	114,319,235.48	SoD	7,211,431,860.00

Figure 232 - 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: <ul style="list-style-type: none"> camt.050: Message ID (from BAH) pacs.009: UETR

	<p>I pacs.010: UETR</p> <p>If no reference can be found, this field is left empty.</p>
Reference Id 2	<p>End To End ID</p> <p>If no reference can be found, this field is left empty.</p>
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
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	<p>Balance of the account at the end of the business days</p> <p>Balance of account (EoD) is always shown, even if there is no cash transfer during the business day.</p>
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 66 - STA02 - Output description

5.12 Transaction reports (TRN)

5.12.1 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]

Screenshot – prompt

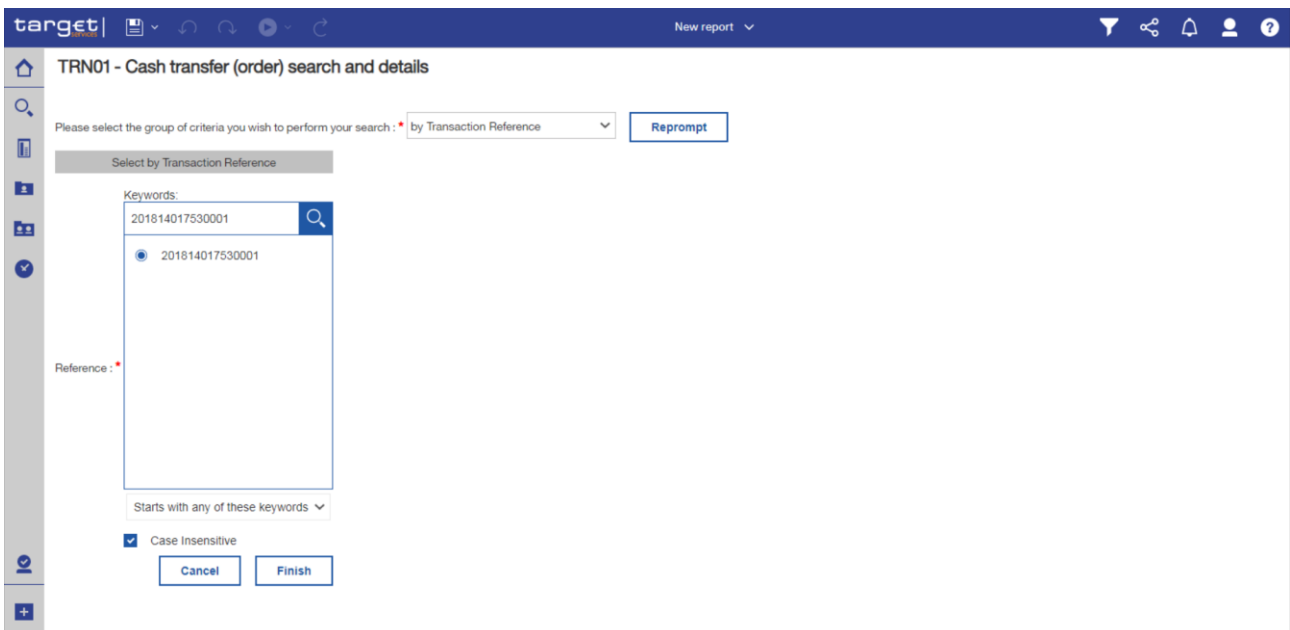


Figure 233 - TRN01 prompt (1) – by transaction reference

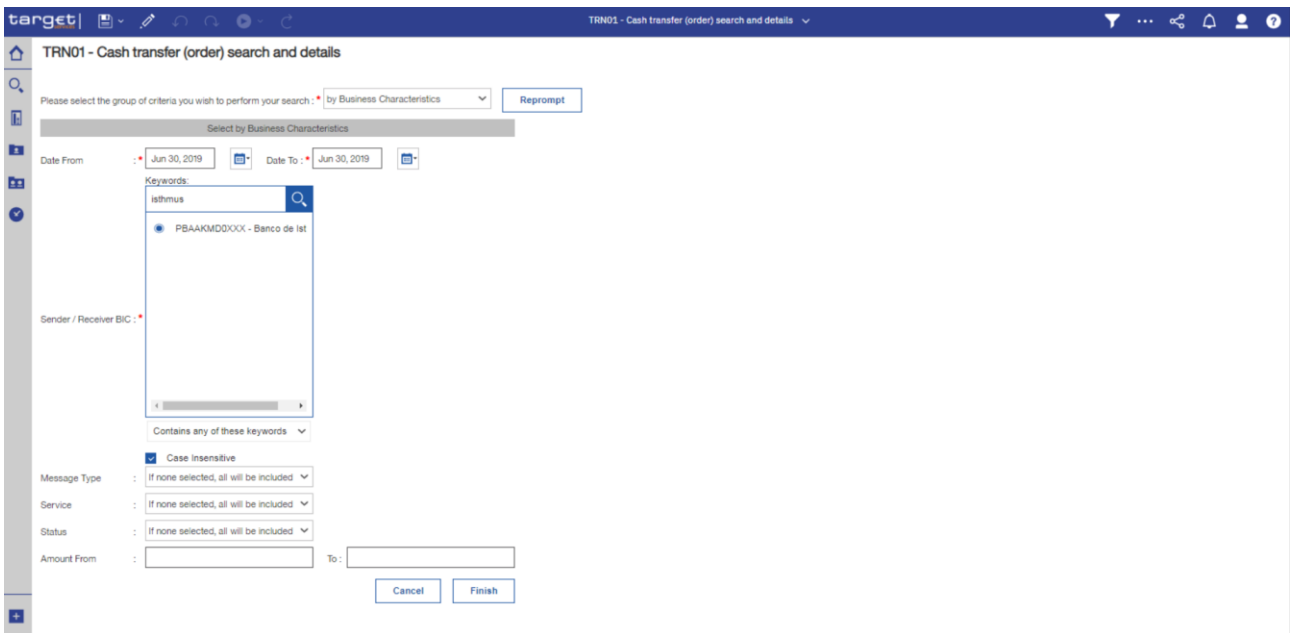


Figure 234 - TRN01 prompt (2) - by business characteristics

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.

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	<p>You can select the end date of the period, for which the report should contain the data by clicking on the calendar.</p> <p>For valid report results, current day cannot be selected.</p> <p>This field is mandatory.</p>
Sender/receiver BIC	<p>You can use this drop-down field to select the BIC of the sending resp. receiving party</p> <p>The possible values are built from parties within the user's data scope.</p> <p>This field is mandatory.</p>
Message Type	<p>You can use this drop-down field to restrict the result list to one message type.</p> <p>Possible Values:</p> <ul style="list-style-type: none"> camt.050 pacs.004 pacs.008 pacs.009 pacs.010 pain.998 (ASTI) <p>This field is optional.</p>

Service Type	<p>This drop-down field offers the possibility to select between the services</p> <p>CLM or RTGS.</p> <p>This field is optional.</p>
Status	<p>You can use this drop-down field to restrict the result list to one status.</p> <p>Possible Values:</p> <ul style="list-style-type: none"> Partially settled Revoked Rejected Settled Warehoused <p>This field is optional.</p>
Amount from/to	<p>You can use these fields to search for a certain amount or amount range.</p> <p>This field is optional.</p>

Table 67 - TRN01 - Prompt description

Screenshot - output screen

target TRN01 - Cash transfer (order) search and details

target TRN01 - Cash transfer (order) search 2021-04-23 12:28:42 DEV - Development and integration

CBXXKMD0XXX - Central Bank of Fiction
Filters | Transaction Reference : 201814017530001

Transaction search
at : 2019-11-12
Currency : EUR

CBXXKMD0XXX as Sender

Transaction Reference Number	Sender Message Reference	Message Type	Service	Status	Debited Account Number	Debited Account BIC	Credited Account Number	Credited Account BIC	Amount
201814017530001	not provided	pac08	RTGS	Settled	RTGSCBCBXXKMD0XXXEUR0A01	CBXXKMR001X	RTGSDCPBBHKMD0XXXEUR0A01	PBBHKMR001X	14,000.00

ADVU82000001 - CBXXKMD0 (ADV) Advanced Page: 1 of ?

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Figure 235 - TRN01 output (1) – by transaction reference

target TRN01 - Cash transfer (order) search and details - target

target TRN01 - Cash transfer (order) details 2021-04-23 09:15:20 DEV - Development and integration

CBXXKMD0XXX - Central Bank of Fiction

Transaction Detail

Business Date 2019-11-15

Entry Timestamp 2019-11-15 13:35:16

UETR UETR_20181401000001

End-to-End Reference E2E_20181401000001

Instruction Identification not provided

Transaction Identification 20181401000001

Clearing System Reference not provided

Settlement Reference not provided

Business Message Identifier not provided

Message ID not provided

Transaction Reference Number 20181401000001

Message Type pac08

Sender BIC PBAAKMD0XXX

Sender Name Banco de Istimus

Receiver BIC PBABKMD0XXX

Receiver Name Gringotts Bank

Debited Account BIC PBAAKMR001X

Debited Account Number RTGSDCPBAAKMD0XXXEUR0A01

Type of Debited Account RTGS DCA

Credited Account BIC PBABKMR001X

Credited Account Number RTGSDCPBABKMD0XXXEUR0A01

Type of Credited Account RTGS DCA

Amount of Payment 10,345.00

Currency of Payment EUR

Settlement Status Description Final

Reversed Payment Indicator Not Reversed

Timestamp of Effective Settlement 2019-11-15 13:35:16

Error Code 0

Error Description no error

Message in XML-Format <?xml version="1.0" encoding="UTF-8"?><Sample XML file pac08XXX COV in EndToEndIdentification--><Document xmlns="urn:iso:std:iso:2002:tech:std:pac08:001:08"><FCIDTrf><GrpHdr><MsgId>NONREF</MsgId><CreDtm>2018-08-24T09:30:44Z</CreDtm><NboOfTx>1</NboOfTx><CbdtRef></CbdtRef></GrpHdr></Document>

Figure 236 - TRN01 output (2) – details

target | TRN01 - Cash transfer (order) search and details

target | TRN01 - Cash transfer (order) search

2021-04-23 12:30:39
DEV - Development and integration

CBXXKMD0XXX - Central Bank of Fiction

Date From : 2019-06-30 Date To : 2019-06-30
Filter: Sender / Receiver BIC : PBAAKMD0XXX - Banco de Istthmus

Transaction search at: 2019-06-30
Currency: EUR

CBXXCZD0XXX as Receiver

Transaction Reference Number	Sender Message Reference	Message Type	Service	Status	Debited Account Number	Debited Account BIC	Credited Account Number	Credited Account BIC	Amount
201814119123	not provided	camt.050	CLM	Settled	MACASHPBAAKMD0XXXEUR0A01	PBAAKM001X			0.00
2018141191749	not provided	camt.050	CLM	Settled	MACASHPBAAKMD0XXXEUR0A01	PBAAKM001X			0.00

CBXXFOD0XXX as Receiver

Transaction Reference Number	Sender Message Reference	Message Type	Service	Status	Debited Account Number	Debited Account BIC	Credited Account Number	Credited Account BIC	Amount
2018141191475	not provided	camt.050	CLM	Settled	MACASHPBAAKMD0XXXEUR0A01	PBAAKM001X			0.00

CBXXGLD0XXX as Receiver

Transaction Reference Number	Sender Message Reference	Message Type	Service	Status	Debited Account Number	Debited Account BIC	Credited Account Number	Credited Account BIC	Amount
2018141191349	not provided	camt.050	CLM	Settled	MACASHPBAAKMD0XXXEUR0A01	PBAAKM001X			0.00

CBXXKDD0XXX as Receiver

Transaction Reference Number	Sender Message Reference	Message Type	Service	Status	Debited Account Number	Debited Account BIC	Credited Account Number	Credited Account BIC	Amount
2018141191457	not provided	camt.050	CLM	Settled	MACASHPBAAKMD0XXXEUR0A01	PBAAKM001X			0.00
2018141191021	not provided	camt.050	CLM	Settled	MACASHPBAAKMD0XXXEUR0A01	PBAAKM001X			0.00

CBXXKMD0XXX as Receiver

Transaction Reference Number	Sender Message Reference	Message Type	Service	Status	Debited Account Number	Debited Account BIC	Credited Account Number	Credited Account BIC	Amount
2018141191352	not provided		RTGS	Settled	RTGSDCPBAAKMD0XXXEUR0C01		RTGSDCPBAAKMD0XXXEUR0A01	PBAAKM001X	100,800.00

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Figure 237 - TRN01 output (3) - by business characteristics

target | TRN01 - Cash transfer (order) search and details - target

target | TRN01 - Cash transfer (order) details

2021-04-23 12:29:49
DEV - Development and integration

CBXXKMD0XXX - Central Bank of Fiction

Transaction Detail

Business Date: 2019-11-12

Entry Timestamp: 2019-11-12 11:35:16 AM

UETR: UETR_201814017530001

End-to-End Reference: E2E_201814017530001

Instruction Identification: not provided

Transaction Identification: 201814017530001

Clearing System Reference: not provided

Settlement Reference: not provided

Sender Message Reference: not provided

Message ID: not provided

Transaction Reference Number: 201814017530001

Message Type: pacs.008

Sender BIC: CBXXKMD0XXX

Sender Name: Central Bank of Fiction

Receiver BIC: PBBHKMD0XXX

Receiver Name: Monte Pio

Debited Account BIC: CBXXKMR001X

Debited Account Number: RTGSCBCBXXKMD0XXXEUR0A01

Type of Debited Account: RTGS CB account

Credited Account BIC: PBBHKMR001X

Figure 238 - TRN01 output (4) - details

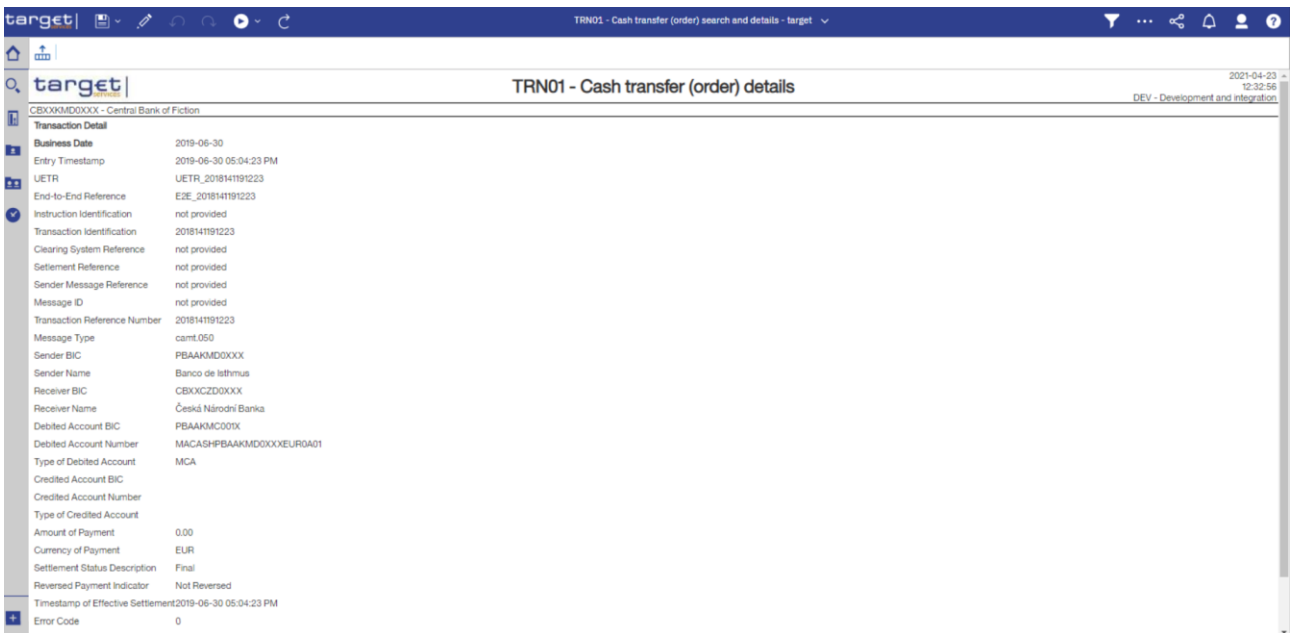


Figure 239 - TRN01 output (5) - details

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 “**Sender BIC**” and one table for “**Receiver 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	<p>Message type</p> <p>Possible values:</p> <ul style="list-style-type: none"> camt.050 pacs.004 pacs.008 pacs.009 pacs.010 pain.998 (ASTI)

Service	Service for which the data is displayed. Possible values: <ul style="list-style-type: none"> CLM RTGS
Status	Status of the cash transfer order. Possible values: <ul style="list-style-type: none"> Warehoused Settled Revoked
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 68 - 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
End-to-End Reference	End-to-End-Transaction Reference
Instruction Identification	Instruction Identification
Transaction Identification	Transaction Identification
Clearing System Reference	Clearing System Reference
Settlement Reference	Settlement Reference
Sender Message Reference	Sender Message Reference

Message ID	Message ID
Transaction Reference Number	Technical Identifier of the transfer
Message Type	<p>Message Type</p> <p>Possible values:</p> <ul style="list-style-type: none"> camt.050 pacs.004 pacs.008 pacs.009 pacs.010 pain.998 (ASTI)
Sender BIC	Party BIC of the sender
Sender Name	Sender Name
Receiver BIC	Party BIC of the receiver
Receiver Name	Receiver name
Debited Account BIC	Debited account BIC
Debited Account Number	<p>Debited account number</p> <p>The account number is not displayed if it does not belong to data scope of the user.</p>
Type of Debited Account	<p>Type of debited account</p> <p>Possible Values:</p> <ul style="list-style-type: none"> RTGS DCA RTGS CB account AS guarantee funds account RTGS sub-account AS technical account for procedure A AS technical account for procedure B AS technical account for procedure D AS technical account for procedure C AS technical account for procedure E CLM dedicated transit account in RTGS MCA CLM CB account

	<ul style="list-style-type: none"> 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	<p>Credited account number</p> <p>The account number is not displayed if it does not belong to data scope of the user.</p>
Type of Credited Account	<p>Type of credited account</p> <p>Possible Values:</p> <ul style="list-style-type: none"> RTGS DCA RTGS CB account AS guarantee funds account RTGS sub-account AS technical account for procedure A AS technical account for procedure B AS technical account for procedure D AS technical account for procedure C AS technical account for procedure E 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

	<ul style="list-style-type: none"> RTGS dedicated transit account in CLM
Amount of Payment	Amount of payment
Currency of Payment	Currency of payment
Settlement Status Description	Status description. <ul style="list-style-type: none">
Reversed Payment Indicator	Reversed payment indicator. Possible values: <ul style="list-style-type: none"> "not reversed" "is a reversed" "has been reversed"
Timestamp of Effective Settlement	Date and time of effective settlement
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 69 - TRN01 - Report description - Details

5.12.2 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

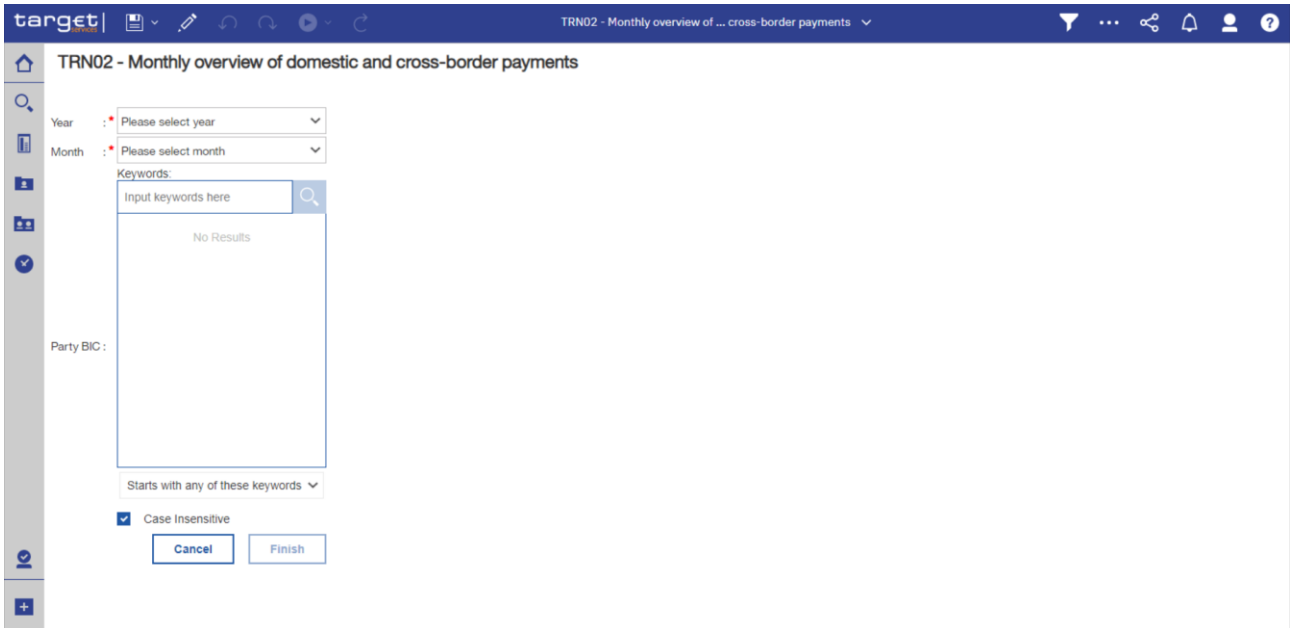


Figure 240 - TRN02 prompt

Prompt description

TRN02 – Report description – prompt screen	
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 70 - TRN02 - Prompt description

Screenshot - output screen

target | TRN02 - Monthly overview of ... cross-border payments

2021-03-04 09:24:49
DEV - Development and Integration

CBXXKMD0XXX
Filters Year : 2019
Month : January

Currency EUR

Customer Payments

National Sorting Code	Party BIC	Party Name	Message Type	Domestic/Cross Border	Debit/Credit	Volume	Value
NSORT000000000058	PBAAKMD0XXX	Banco de Isthmus	pacs.008	Cross Border	Credit	645,010	15,350,701.46
NSORT000000000058	PBAAKMD0XXX	Banco de Isthmus	pacs.008	Cross Border	Debit	225,088	6,753,236.72
NSORT000000000058	PBAAKMD0XXX	Banco de Isthmus	pacs.008	Domestic	Credit	230,106	6,903,799.96
NSORT000000000058	PBAAKMD0XXX	Banco de Isthmus	pacs.008	Domestic	Debit	65,920	1,978,345.58
NSORT000000000058	PBAAKMD0XXX	Gringotts Bank	pacs.008	Cross Border	Credit	2,812	87,432.05
NSORT000000000058	PBAAKMD0XXX	Gringotts Bank	pacs.008	Cross Border	Debit	23,534	706,182.20
						Total	35,779,697.98

Interbank Payments

National Sorting Code	Party BIC	Party Name	Message Type	Domestic/Cross Border	Debit/Credit	Volume	Value
NSORT000000000058	PBAAKMD0XXX	Banco de Isthmus	camt.050	Cross Border	Credit	209,014	6,270,862.78
NSORT000000000058	PBAAKMD0XXX	Banco de Isthmus	camt.050	Cross Border	Debit	133,896	3,717,430.60
NSORT000000000058	PBAAKMD0XXX	Banco de Isthmus	camt.050	Domestic	Credit	61,226	1,837,035.20
NSORT000000000058	PBAAKMD0XXX	Banco de Isthmus	camt.050	Domestic	Debit	562,660	16,880,586.40
NSORT000000000058	PBAAKMD0XXX	Banco de Isthmus	pacs.009	Cross Border	Credit	261,228	7,837,415.03
NSORT000000000058	PBAAKMD0XXX	Banco de Isthmus	pacs.009	Cross Border	Debit	694,616	20,839,216.92
NSORT000000000058	PBAAKMD0XXX	Banco de Isthmus	pacs.009	Domestic	Credit	418,042	12,541,723.66
NSORT000000000058	PBAAKMD0XXX	Banco de Isthmus	pacs.009	Domestic	Debit	347,816	7,434,861.52
NSORT000000000058	PBAAKMD0XXX	Banco de Isthmus	pacs.010	Cross Border	Credit	30,608	918,517.84
NSORT000000000058	PBAAKMD0XXX	Banco de Isthmus	pacs.010	Cross Border	Debit	281,320	8,440,293.04
NSORT000000000058	PBAAKMD0XXX	Banco de Isthmus	pacs.010	Domestic	Credit	1,280,028	36,701,402.96
NSORT000000000058	PBAAKMD0XXX	Banco de Isthmus	pacs.010	Domestic	Debit	450,196	13,006,473.80
NSORT000000000058	PBAAKMD0XXX	Banco de Isthmus	pain.998	Cross Border	Credit	115,052	3,451,899.90
NSORT000000000058	PBAAKMD0XXX	Banco de Isthmus	pain.998	Cross Border	Debit	32,856	985,172.62

NORU82000001 - CBXXKMD0 (NOR) Normal Page: 1 of 7

Figure 241 - TRN02 output (1)

target | TRN02 - Monthly overview of ... cross-border payments

2021-03-04 09:24:49
DEV - Development and Integration

CBXXKMD0XXX
Filters Year : 2019
Month : January

Currency EUR

Interbank Payments

National Sorting Code	Party BIC	Party Name	Message Type	Domestic/Cross Border	Debit/Credit	Volume	Value
NSORT000000000058	PBAAKMD0XXX	Banco de Isthmus	pain.998	Domestic	Credit	522,476	15,674,830.26
NSORT000000000058	PBAAKMD0XXX	Banco de Isthmus	pain.998	Domestic	Debit	1,389,260	41,678,434.06
NSORT000000000059	PBANKMD0XXX	Gringotts Bank	camt.050	Cross Border	Credit	21,854	655,740.62
NSORT000000000059	PBANKMD0XXX	Gringotts Bank	camt.050	Cross Border	Debit	210,594	6,317,977.20
NSORT000000000059	PBANKMD0XXX	Gringotts Bank	pacs.009	Cross Border	Credit	37,300	1,119,130.64
NSORT000000000059	PBANKMD0XXX	Gringotts Bank	pacs.009	Cross Border	Debit	3,134	94,157.60
NSORT000000000059	PBANKMD0XXX	Gringotts Bank	pacs.010	Cross Border	Credit	57,116	1,713,668.88
NSORT000000000059	PBANKMD0XXX	Gringotts Bank	pacs.010	Cross Border	Debit	40,168	1,205,217.66
NSORT000000000059	PBANKMD0XXX	Gringotts Bank	pain.998	Cross Border	Credit	195,550	5,866,693.14
NSORT000000000059	PBANKMD0XXX	Gringotts Bank	pain.998	Cross Border	Debit	61,508	1,845,489.58
						Total	219,538,233.60

NORU82000001 - CBXXKMD0 (NOR) Normal Page: 2 of 7

Figure 242 - 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	<p>Message type.</p> <p>Possible Values:</p> <ul style="list-style-type: none"> camt.050 pacs.004 pacs.008 pacs.009 pacs.010 pain.998 (ASTI)
Domestic/Cross Border	<p>Mark, which identifies whether the displayed aggregation refers to domestic or cross border payments.</p> <p>Possible values:</p> <ul style="list-style-type: none"> 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	<p>Total of volumes and values listed in the preceding rows.</p> <p>Recalculated automatically on the base of a data subset when the user uses filters.</p>

Table 71 - TRN02 - Output description

5.12.3 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. The report delivers peaks for each system entity and differentiates per settlement status.

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]

Screenshot – prompt

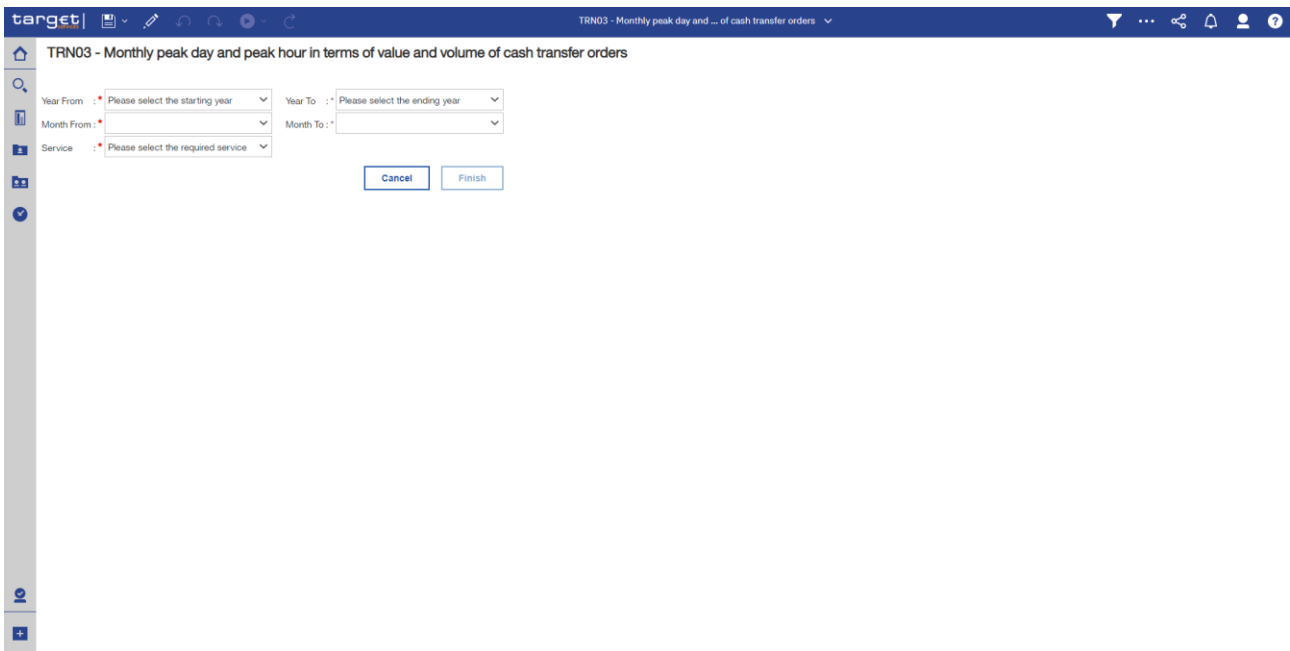


Figure 243 - TRN03 prompt

Prompt description

TRN03 – Report description – prompt screen

Field label	Description
Service	You can use this drop-down field to select between the services. Possible values:

	<ul style="list-style-type: none"> CLM, RTGS. <p>This field is mandatory.</p>
Year From	<p>You can use this drop-down field to select the year, from which the report should contain the data.</p> <p>This field is mandatory.</p>
Month From	<p>You can use this drop-down field to select the month, from which the report should contain the data.</p> <p>For a valid report result, it is necessary to select at least the previous month.</p> <p>This field is mandatory.</p>
Year To	<p>You can use this drop-down field to select the end date of the period, for which the report should contain the data.</p> <p>This field is mandatory</p>
Month To	<p>You can use this drop-down field to select the end date of the period, for which the report should contain the data.</p> <p>For a valid report result, it is necessary to select at least the previous month.</p> <p>This field is mandatory.</p>

Table 72 - TRN03 - Prompt description

Screenshot - output screen

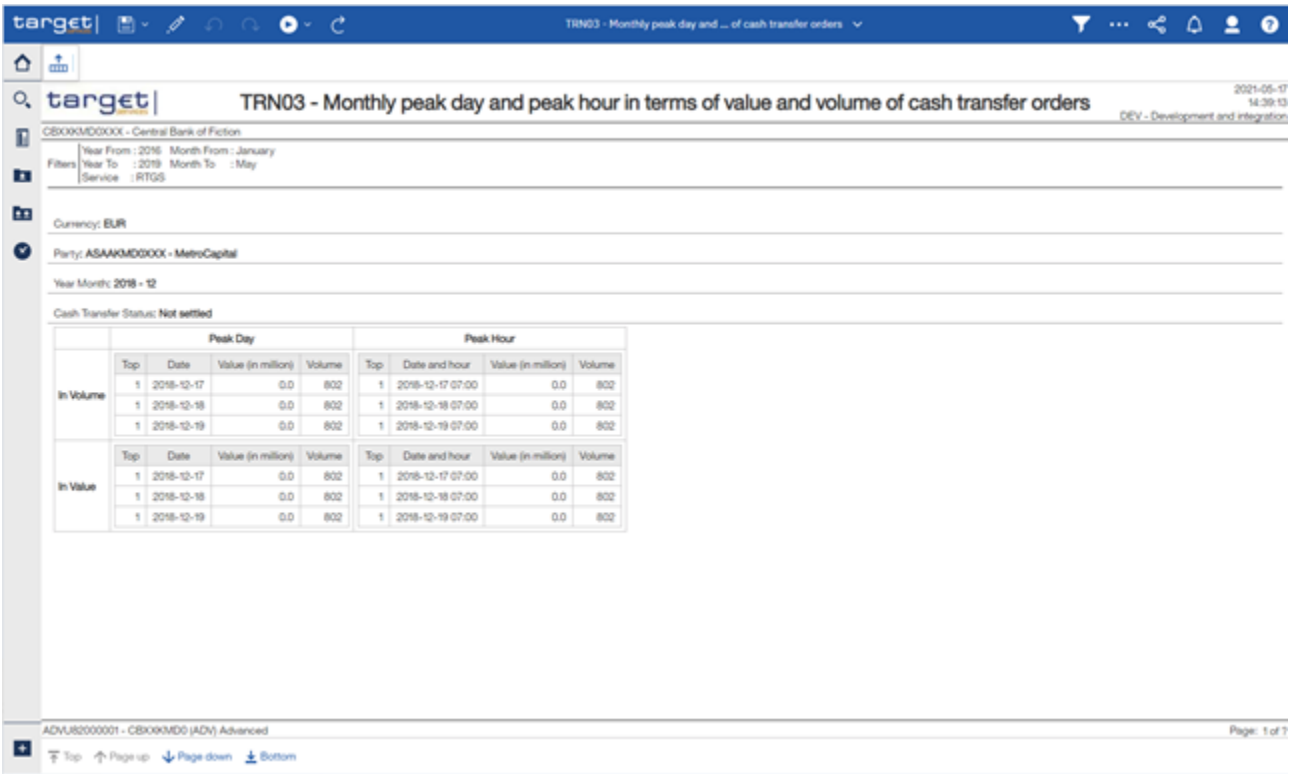


Figure 244 - TRN03 output

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
Party	The party BIC and party short name of the user are shown. Both values are separated by a hyphen “-“
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	
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
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 73 - TRN03 - Output description

5.12.4 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

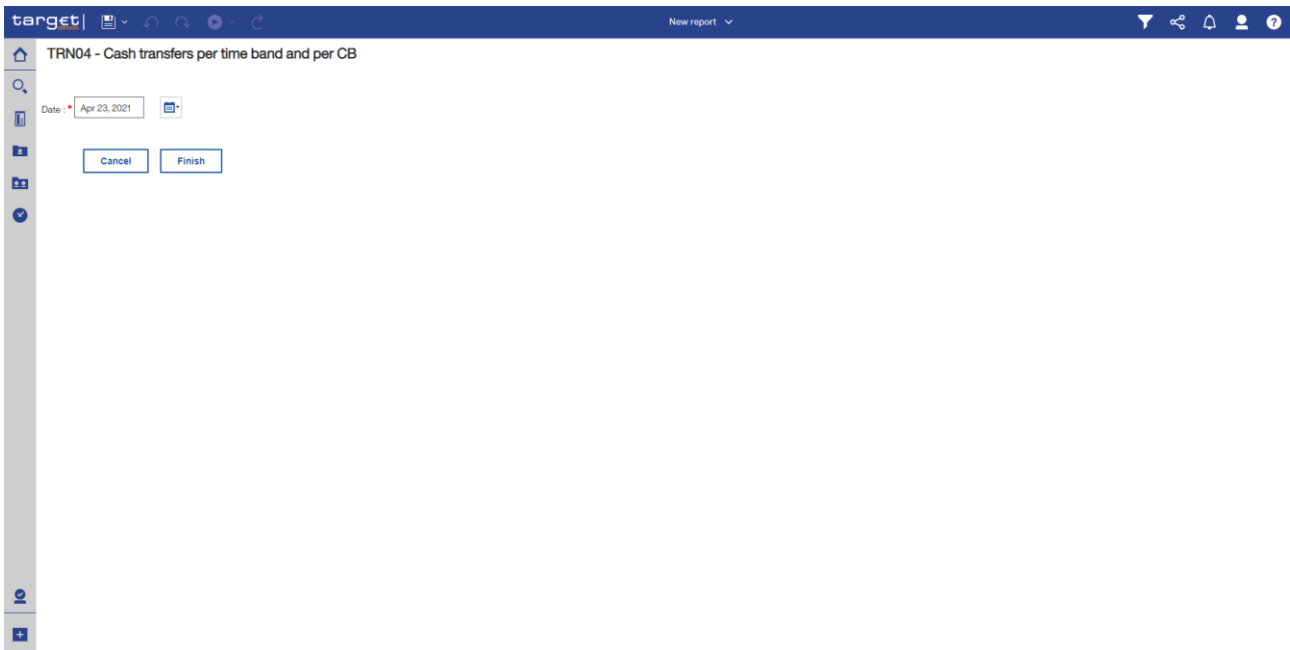


Figure 245 - TRN04 prompt

Prompt description

TRN04 – Report description – prompt screen	
Field label	Description
Date	<p>You can specify the business day by clicking on the calendar.</p> <p>For valid report results, the current day cannot be selected.</p> <p>This field is mandatory.</p>

Table 74 - TRN04 - Prompt description

Screenshot - output screen

target | TRN04 - Cash transfers per time band and per CB

2021-03-04 09:47:12
DEV - Development and integration

Cash transfers per time band and CB
for CLM
Currency : EUR

Time band	Volume				Value			
	Domestic	Cross border debited	Cross border credited	Cumulated volume	Domestic	Cross border debited	Cross border credited	Cumulated value
06:45	100	20	10	130	1,000.00	100.00	50.00	1,150.00
07:00	150	40	20	210	1,500.00	200.00	100.00	1,800.00
07:15	200	60	30	290	2,000.00	300.00	150.00	2,450.00
07:30	250	80	40	370	2,500.00	400.00	200.00	3,100.00
07:45	300	100	50	450	3,000.00	500.00	250.00	3,750.00
08:00	350	120	60	530	3,500.00	600.00	300.00	4,400.00
08:15	400	140	70	610	4,000.00	700.00	350.00	5,050.00
08:30	450	160	80	690	4,500.00	800.00	400.00	5,700.00
08:45	1,500	1,000	300	2,800	15,000.00	20,000.00	8,000.00	43,000.00
09:00	2,550	1,840	520	4,910	25,500.00	39,200.00	15,600.00	80,300.00
09:15	3,600	2,680	740	7,020	36,000.00	58,400.00	23,200.00	117,600.00
09:30	4,650	3,520	960	9,130	46,500.00	77,600.00	30,800.00	154,900.00
09:45	5,700	4,360	1,180	11,240	57,000.00	96,800.00	38,400.00	192,200.00

Figure 246 - TRN04 output (1)

target | TRN04 - Cash transfers per time band and per CB

2021-03-04 09:47:12
DEV - Development and integration

Cash transfers per time band and CB
for CLM
Currency : EUR

Time band	Volume				Value			
	Domestic	Cross border debited	Cross border credited	Cumulated volume	Domestic	Cross border debited	Cross border credited	Cumulated value
13:30	22,000	1,300	400	23,700	40,000.00	45,000.00	32,000.00	117,000.00
13:45	26,000	1,500	700	28,200	45,000.00	52,500.00	37,500.00	135,000.00
14:00	30,000	1,700	800	32,500	50,000.00	60,000.00	43,000.00	153,000.00
14:15	50	40	30	120	100,000.00	15,000.00	200,000.00	315,000.00
14:30	70	100	10	180	150,000.00	8,000.00	35,000.00	193,000.00
14:45	90	160	20	270	155,000.00	8,500.00	37,000.00	200,500.00
15:00	110	220	25	355	160,000.00	9,000.00	39,000.00	208,000.00
15:15	130	280	30	440	165,000.00	9,500.00	41,000.00	215,500.00
15:30	150	340	60	550	170,000.00	10,000.00	43,000.00	223,000.00
15:45	170	400	80	650	175,000.00	10,500.00	45,000.00	230,500.00
16:00	1,000	1,000	500	2,500	200,000.00	8,000.00	37,000.00	245,000.00
16:15	2,000	800	450	3,250	180,000.00	12,000.00	25,000.00	217,000.00
16:30	400	350	100	850	1,000.00	800.00	500.00	2,300.00
16:45	350	300	80	730	900.00	700.00	400.00	2,000.00
17:00	300	250	60	610	800.00	600.00	300.00	1,700.00
17:15	250	200	40	490	700.00	500.00	200.00	1,400.00
17:30	200	150	20	370	600.00	400.00	100.00	1,100.00
17:45	150	100	0	250	500.00	300.00	0.00	800.00
18:00	100	50	5	155	400.00	200.00	50.00	650.00
after 18:15	200	30	36	266	1,160.00	980.00	921.00	3,061.00
Total	188,720	52,830	15,626	257,176	2,258,160	1,240,040	1,042,136	4,540,336.00

NORJ82000001 - CBXXMD0 (NOR)
Normal

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Figure 247 - TRN04 output (2)

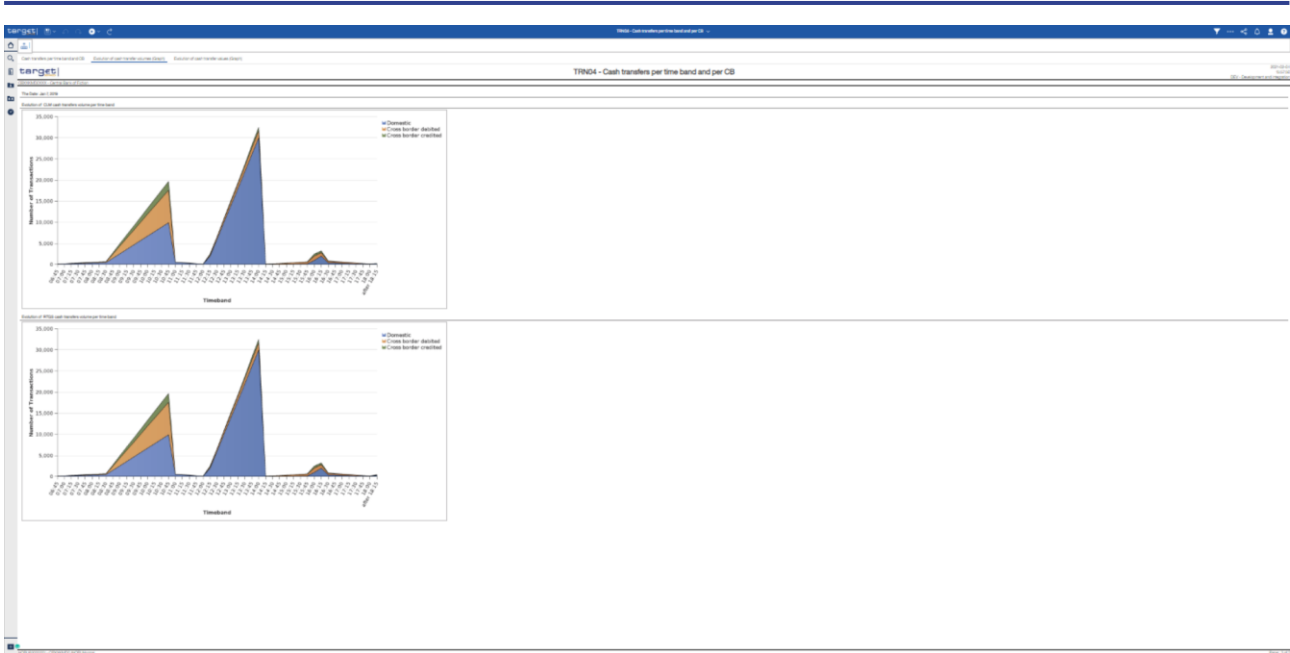


Figure 248 - TRN04 output (3)

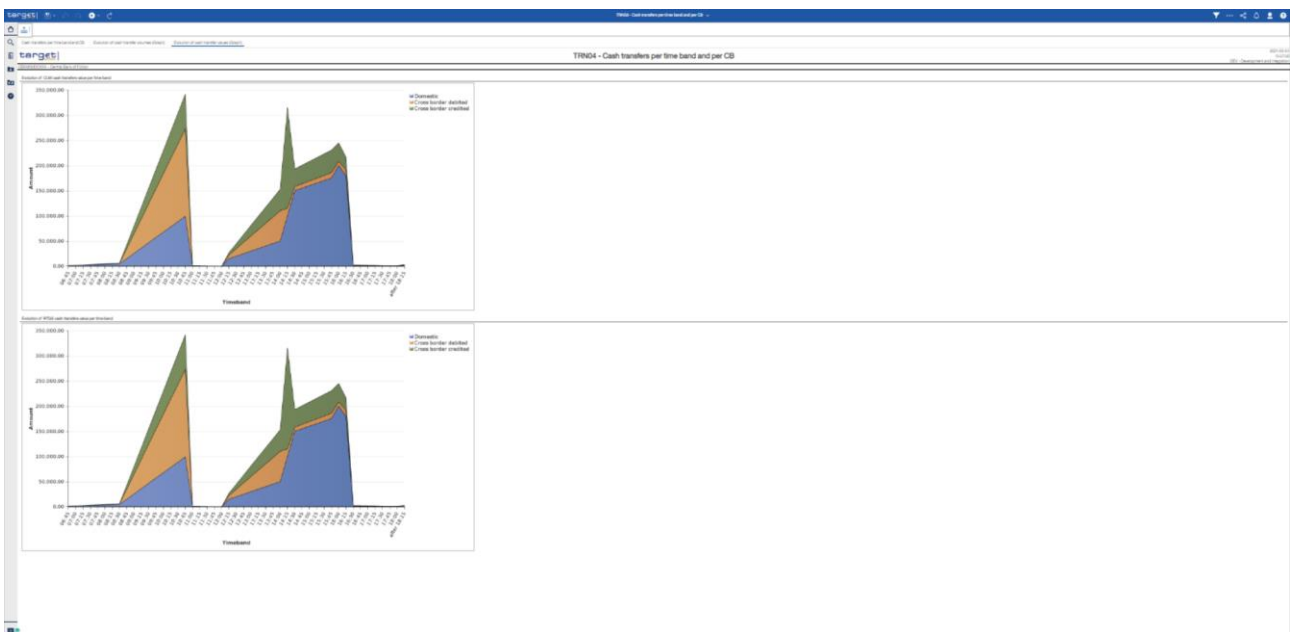


Figure 249 - TRN04 output (4)

Output description

TRN04 – Report description – output screen	
Field label	Description
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 debited	Volume of debited cross border cash transfers per time band
Volume Cross border credited	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 75 - TRN04 - Output description

5.12.5 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 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 250 - TRN05 prompt

Prompt description

TRN05 – 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.
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.

Table 76 - TRN05 - Prompt description

Screenshot - output screen

target | TRN05 - Monthly overview of cash transfer orders per party

Apr 23, 2021 14:30:31 GMT+02:00
DEV - Development and Integration

CBXXXMD000X - Central Bank of Fiction

Filters: Year : 2019
Month : January
Party : PBAAKMD000X

Cross border transactions debited
Currency: EUR
CLM account number: MACASHPBAAKMD000XEUR0A01

Final transactions						
	Total volume	Daily average volume	Previous month daily average	Total value	Daily average value	Previous month daily average value
Urgent	87,744	3,988.36		2,632,541.94	119,661.00	
High	175,500	7,977.27		5,265,084.06	239,322.00	
Normal	614,250	27,920.45		18,427,794.30	837,627.01	
Total	877,494	39,886.09		26,325,420.30	1,196,610.01	

Rejected transactions						
	Total volume	Daily average volume	Previous month daily average	Total value	Daily average value	Previous month daily average value
Urgent	4,710	214.09		141,534.42	6,433.38	
High	9,426	428.45		283,068.90	12,866.77	
Normal	33,018	1,500.82		990,741.54	45,033.71	
Total	47,154	2,143.36		1,415,344.86	64,333.86	

Cancelled transactions						
	Total volume	Daily average volume	Previous month daily average	Total value	Daily average value	Previous month daily average value
Urgent	9,426	428.45		283,068.90	12,866.77	
High	18,864	857.45		566,138.04	25,733.55	
Normal	66,042	3,001.91		1,981,483.14	90,067.42	
Total	94,332	4,287.82		2,830,690.08	128,667.73	

Overall Total						
	Total volume	Daily average volume	Previous month daily average	Total value	Daily average value	Previous month daily average value
Overall Total	1,019,980	46,317.27		30,571,455.24	1,389,611.60	

Figure 251 - TRN05 output (1)

target | TRN05 - Monthly overview of cash transfer orders per party

	Cross border transactions debited	Cross border transactions credited	Domestic transactions debited	Domestic transactions credited		
High			18,884	85745		566,138.04
Normal			66,042	3,00181		1,981,483.14
Total			94,332	4,28782		2,830,690.08
Overall Total			1,018,980	46,31727		30,571,455.24

Currency: EUR
RTGS account number: RTGSDFPBAAKMDXXXEUR0A01

Final transactions

	Total volume	Daily average volume	Previous month daily average	Total value	Daily average value	Previous month daily average value
Urgent	29,182	1,326.45		875,568.68	39,798.58	
High	58,368	2,653.09		1,751,137.46	79,587.16	
Normal	204,294	9,286.09		6,128,981.16	278,590.05	
Total	291,844	13,265.64		8,755,687.30	397,985.79	

Rejected transactions

	Total volume	Daily average volume	Previous month daily average	Total value	Daily average value	Previous month daily average value
Urgent	1,566	71.18		47,073.54	2,139.71	
High	3,134	142.45		94,147.12	4,279.41	
Normal	10,980	499.09		329,515.08	14,977.96	
Total	15,680	712.73		470,735.74	21,397.08	

Cancelled transactions

	Total volume	Daily average volume	Previous month daily average	Total value	Daily average value	Previous month daily average value
Urgent	3,134	142.45		94,147.12	4,279.41	
High	6,274	285.18		188,294.32	8,558.83	
Normal	21,964	998.36		659,030.18	29,955.92	
Total	31,372	1,426.00		941,471.62	42,794.16	
Overall Total	338,896	15,404.36		10,167,894.66	462,177.03	

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Figure 252 - TRN05 output (2)

target | TRN05 - Monthly overview of cash transfer orders per party

target | TRN05 - Monthly overview of cash transfer orders per party

Apr 23, 2021 - 14:30:31 GMT+02:00
DEV - Development and Integration

CBXXXKMDXXX - Central Bank of Fiction
Year: 2019
Month: January
Party: PBAAKMDXXX

Currency: EUR
CLM account number: MACASHPBAAKMDXXXEUR0A01

Final transactions

	Total volume	Daily average volume	Previous month daily average	Total value	Daily average value	Previous month daily average value
Urgent	81,480	3,703.64		2,444,503.26	111,113.78	
High	162,960	7,407.27		4,889,006.58	222,227.57	
Normal	570,378	25,926.27		17,111,523.30	777,796.51	
Total	814,818	37,037.18		24,445,033.14	1,111,137.87	

Rejected transactions

	Total volume	Daily average volume	Previous month daily average	Total value	Daily average value	Previous month daily average value
Urgent	4,380	199.09		131,424.84	5,973.86	
High	8,760	398.18		262,849.60	11,947.72	
Normal	30,660	1,393.64		919,974.30	41,817.01	
Total	43,800	1,990.91		1,314,248.94	59,738.59	

Cancelled transactions

	Total volume	Daily average volume	Previous month daily average	Total value	Daily average value	Previous month daily average value
Urgent	8,760	398.18		262,849.60	11,947.72	
High	17,520	796.36		525,699.20	23,895.44	
Normal	61,320	2,787.27		1,839,948.66	83,634.03	
Total	87,600	3,981.82		2,628,497.46	119,477.18	
Overall Total	946,218	43,009.91		28,387,780.14	1,290,353.64	

Figure 253 - TRN05 output (3)

target | TRN05 - Monthly overview of cash transfer orders per party

	Cross border transactions debited	Cross border transactions credited	Domestic transactions debited	Domestic transactions credited		
High			17,520	796.36		525,699.60
Normal			61,320	2,767.27		1,639,946.66
Total			87,600	3,981.82		2,628,496.06
Overall Total			946,218	43,009.91		28,367,760.14

Cross border transactions credited
Currency: EUR
RTGS account number: RTGSDCPBAAKMD00000EUR001

Final transactions

	Total volume	Daily average volume	Previous month daily average volume	Total value	Daily average value	Previous month daily average value
Urgent	27,100	1,231.82		813,026.10	36,955.82	
High	54,200	2,463.64		1,626,056.22	73,911.65	
Normal	189,702	8,622.82		5,691,196.80	258,690.76	
Total	271,002	12,318.27		8,130,281.12	369,558.23	

Rejected transactions

	Total volume	Daily average volume	Previous month daily average volume	Total value	Daily average value	Previous month daily average value
Urgent	1,454	66.09		43,711.12	1,986.87	
High	2,912	132.36		87,422.34	3,973.74	
Normal	10,194	463.36		305,978.30	13,908.10	
Total	14,560	661.82		437,111.76	19,868.72	

Cancelled transactions

	Total volume	Daily average volume	Previous month daily average volume	Total value	Daily average value	Previous month daily average value
Urgent	2,912	132.36		87,422.34	3,973.74	
High	5,826	264.82		174,844.72	7,947.49	
Normal	20,394	927.00		611,956.62	27,816.21	
Total	29,132	1,324.18		874,223.68	39,737.44	
Overall Total	314,694	14,304.27		9,441,616.56	429,164.39	

NOR182000001 - CBXXXMD0 (NOR) Normal Page: 2 of 7

Figure 254 - TRN05 output (4)

target | TRN05 - Monthly overview of cash transfer orders per party

Apr 23, 2021 14:30:31 GMT+02:00
DEV - Development and Integration

CBXXXMD0000 - Central Bank of Fiction
Year: 2019
Month: January
Party: PBAAKMD0000

Domestic transactions debited
Currency: EUR
CLM account number: MACASHPBAAKMD00000EUR001

Final transactions

	Total volume	Daily average volume	Previous month daily average volume	Total value	Daily average value	Previous month daily average value
Urgent	175,500	7,977.27		5,265,064.06	239,322.00	
High	391,000	15,954.55		10,530,168.12	476,844.01	
Normal	1,228,506	55,841.18		36,855,588.72	1,675,254.03	
Total	1,755,006	79,773.00		52,650,840.90	2,393,220.04	

Rejected transactions

	Total volume	Daily average volume	Previous month daily average volume	Total value	Daily average value	Previous month daily average value
Urgent	9,426	428.45		283,066.90	12,866.77	
High	18,864	857.45		566,136.04	25,733.55	
Normal	66,042	3,001.91		1,961,483.14	90,067.42	
Total	94,332	4,287.82		2,830,690.08	128,667.73	

Cancelled transactions

	Total volume	Daily average volume	Previous month daily average volume	Total value	Daily average value	Previous month daily average value
Urgent	18,864	857.45		566,136.04	25,733.55	
High	37,740	1,715.45		1,132,276.08	51,467.09	
Normal	132,090	6,004.09		3,962,966.46	180,134.84	
Total	188,694	8,577.00		5,661,380.58	257,335.48	
Overall Total	2,038,032	92,637.82		61,142,911.56	2,779,223.25	

Figure 255 - TRN05 output (5)

target | TRN05 - Monthly overview of cash transfer orders per party

	Cross border transactions debited	Cross border transactions credited	Domestic transactions debited	Domestic transactions credited		
High			37,740	1,715,45	1,132,276.06	51,467.09
Normal			132,090	6,004,09	3,962,966.46	180,134.84
Total			188,894	8,577,00	5,061,380.58	257,335.48
Overall Total			2,038,032	92,837.82	61,142,911.56	2,779,223.25

Domestic transactions debited
Currency: EUR
RTGS account number: RTGSDCPBAAKMDXXXXEUR0A01

	Total volume	Daily average volume	Previous month daily average volume	Total value	Daily average value	Previous month daily average value
Urgent	58,368	2,653.09		1,751,137.46	79,597.16	
High	116,740	5,306.36		3,502,274.94	159,194.32	
Normal	408,594	18,572.45		12,257,962.36	557,160.11	
Total	583,702	26,531.91		17,511,374.76	795,971.58	

Rejected transactions

	Total volume	Daily average volume	Previous month daily average volume	Total value	Daily average value	Previous month daily average value
Urgent	3,134	142.45		94,147.12	4,279.41	
High	6,274	285.18		188,294.32	8,558.83	
Normal	21,964	998.36		659,030.18	29,955.92	
Total	31,372	1,426.00		941,471.62	42,794.16	

Cancelled transactions

	Total volume	Daily average volume	Previous month daily average volume	Total value	Daily average value	Previous month daily average value
Urgent	6,274	285.18		188,294.32	8,558.83	
High	12,550	570.45		376,588.68	17,117.67	
Normal	43,932	1,996.91		1,318,060.42	59,911.84	
Total	62,756	2,852.55		1,882,943.42	85,588.34	
Overall Total	677,830	30,810.45		20,335,789.80	924,354.08	

NORU82000001 - CBXXXMDD (NOR) Normal Page: 3 of 7

Figure 256 - TRN05 output (6)

target | TRN05 - Monthly overview of cash transfer orders per party

target | TRN05 - Monthly overview of cash transfer orders per party

CBXXXMDDXXX - Central Bank of Fiction

Year: 2019
Month: January
Party: PBAAKMDXXX

Domestic transactions credited
Currency: EUR
CLM account number: MACASHPBAAKMDXXXXEUR0A01

	Total volume	Daily average volume	Previous month daily average volume	Total value	Daily average value	Previous month daily average value
Urgent	182,960	7,407.27		4,889,006.58	222,227.57	
High	325,926	14,814.82		9,778,013.22	444,455.15	
Normal	1,140,762	51,852.82		34,223,046.66	1,555,593.03	
Total	1,629,648	74,074.91		48,890,066.46	2,222,275.75	

Rejected transactions

	Total volume	Daily average volume	Previous month daily average volume	Total value	Daily average value	Previous month daily average value
Urgent	8,760	398.18		262,849.80	11,947.72	
High	17,520	796.36		525,699.60	23,895.44	
Normal	61,320	2,787.27		1,839,948.66	83,634.03	
Total	87,600	3,981.82		2,628,498.06	119,477.18	

Cancelled transactions

	Total volume	Daily average volume	Previous month daily average volume	Total value	Daily average value	Previous month daily average value
Urgent	17,520	796.36		525,699.60	23,895.44	
High	35,040	1,592.73		1,051,399.14	47,790.87	
Normal	122,652	5,575.09		3,679,897.38	167,268.06	
Total	175,212	7,964.18		5,256,996.12	238,954.37	
Overall Total	1,892,460	86,020.91		56,775,560.64	2,580,707.30	

Figure 257 - TRN05 output (7)

target | TRN05 - Monthly overview of ... transfer orders per party

Cross border transactions debited	Cross border transactions credited	Domestic transactions debited	Domestic transactions credited
High		35,040	1,592.73
Normal		122,652	5,575.09
Total		175,212	7,964.18
Overall Total	1,892,460	86,020.81	56,775,560.84

Domestic transactions credited
Currency: EUR
RTGS account number: RTGSDCPBAAKMDXXXEUR0A01

Final transactions	Total volume	Daily average volume	Previous month daily average volume	Total value	Daily average value	Previous month daily average value
Urgent	54,200	2,463.64		1,626,056.22	73,911.65	
High	108,400	4,927.27		3,252,112.44	147,823.29	
Normal	379,410	17,245.91		11,382,393.62	517,381.53	
Total	542,010	24,636.82		16,260,562.28	739,116.47	

Rejected transactions	Total volume	Daily average volume	Previous month daily average volume	Total value	Daily average value	Previous month daily average value
Urgent	2,912	132.36		87,422.34	3,973.74	
High	5,826	264.82		174,844.72	7,947.49	
Normal	20,394	927.00		611,956.62	27,816.21	
Total	29,132	1,324.18		874,223.68	39,737.44	

Cancelled transactions	Total volume	Daily average volume	Previous month daily average volume	Total value	Daily average value	Previous month daily average value
Urgent	5,826	264.82		174,844.72	7,947.49	
High	11,654	529.73		349,689.46	15,894.98	
Normal	40,794	1,854.27		1,223,913.26	55,632.42	
Total	58,274	2,648.82		1,748,447.44	79,474.88	
Overall Total	629,416	28,609.82		18,883,233.40	858,328.79	

NORU82000001 - CBXXXMD0 (NOR) Normal Page: 4 of 7

Figure 258 - TRN05 output (8)

Output description

TRN05 – Report description – output screen

Field label	Description
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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:

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

	<ul style="list-style-type: none"> CLM CB account <p>For RTGS:</p> <ul style="list-style-type: none"> 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	<p>Possible values:</p> <ul style="list-style-type: none"> Urgent High Normal
Total volume	Total of volume of chosen month
Daily average volume	Daily average of volume
Previous month daily average	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 77 - TRN05 - Output description

5.12.6 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.

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

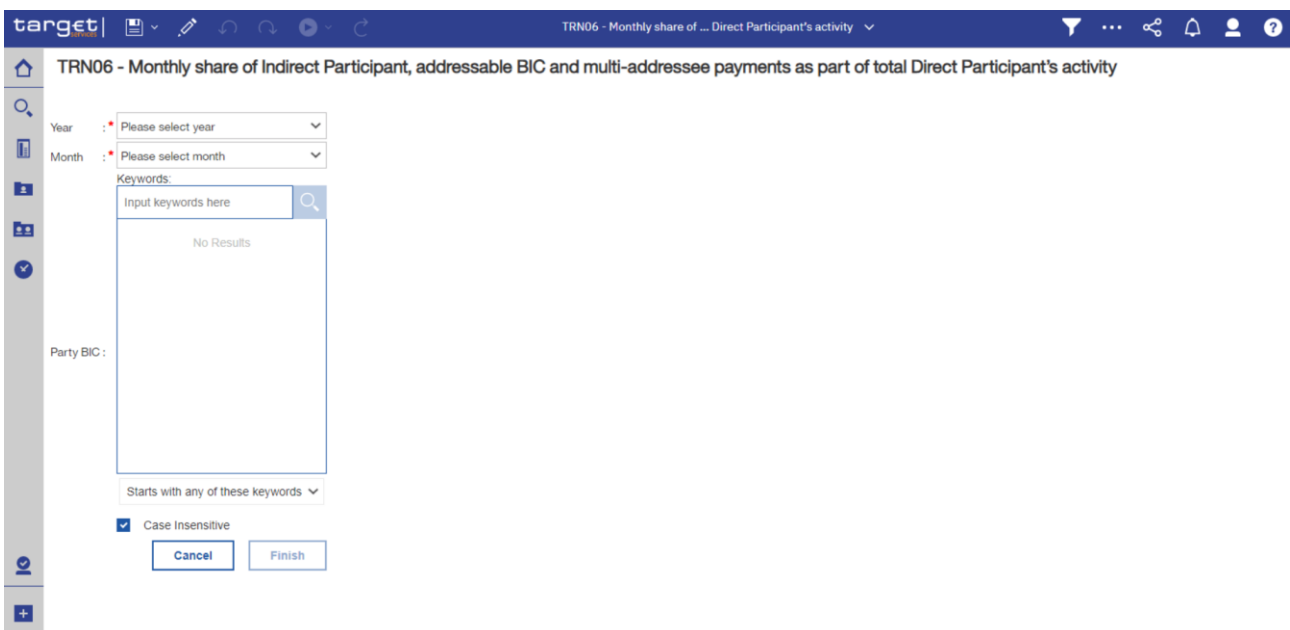


Figure 259 - TRN06 prompt

Prompt description,

TRN06 – Report description – prompt description	
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 78 - TRN06 - Prompt description

Screenshot - output screen

Participation type	Party BIC	Domestic/Cross border	Reported Month			
			Volume	%	Value	%
Overall	PBAAKMD0XXX	Overall	1,703,789,308.00	100.00%	681,516,004,193.50	100.00%
		Domestic	1,107,463,178.00	65.00%	442,985,402,727.16	65.00%
		Cross Border	596,326,130.00	35.00%	238,530,601,466.34	35.00%
Direct	PBAAKMD0XXX	Overall	973,594,200.00	57.14%	389,437,716,686.34	57.14%
		Domestic	632,836,244.00	37.14%	253,134,515,846.24	37.14%
		Cross Border	340,757,956.00	20.00%	136,303,200,840.10	20.00%
Indirect	All Indirect	Overall	389,437,524.00	22.86%	155,775,086,672.24	22.86%
		Domestic	253,134,432.00	14.86%	101,253,806,337.52	14.86%
		Cross Border	136,303,092.00	8.00%	54,521,280,334.72	8.00%
	LBSWKMFF0XX	Overall	389,437,524.00	22.86%	155,775,086,672.24	22.86%
		Domestic	253,134,432.00	14.86%	101,253,806,337.52	14.86%
		Cross Border	136,303,092.00	8.00%	54,521,280,334.72	8.00%
Multi Addressee	All Multi Addressee	Overall	165,510,872.00	9.71%	66,204,411,634.58	9.71%
		Domestic	107,582,092.00	6.31%	43,032,867,692.70	6.31%
		Cross Border	57,928,780.00	3.40%	23,171,544,141.88	3.40%
	HELAKMDA0XX	Overall	67,623,402.00	5.14%	35,045,394,500.70	5.14%
		Domestic	56,955,226.00	3.34%	22,782,106,425.60	3.34%
		Cross Border	30,668,176.00	1.80%	12,267,288,075.10	1.80%
HELAKMW0XX	Overall	77,887,470.00	4.57%	31,155,017,333.88	4.57%	

Figure 260 - TRN06 output (1)

Participation type	Party BIC	Domestic/Cross border	Reported Month			
			Volume	%	Value	%
Multi Addressee	HELLAKM000X	Domestic	50,626,866.00	2.97%	20,250,761,267.10	2.97%
		Cross Border	27,260,604.00	1.60%	10,904,256,066.78	1.60%
Addressable BIC	All Addressable BIC	Overall	175,246,712.00	10.29%	70,998,789,000.34	10.29%
		Domestic	113,910,410.00	6.69%	45,564,212,850.70	6.69%
		Cross Border	61,336,302.00	3.60%	24,534,576,149.64	3.60%
	NASSKM500X	Overall	68,151,520.00	4.00%	27,260,640,166.96	4.00%
		Domestic	44,298,502.00	2.60%	17,718,416,108.72	2.60%
		Cross Border	23,853,018.00	1.40%	9,541,224,058.24	1.40%
	NASSKM520X	Overall	58,415,572.00	3.43%	23,366,263,000.14	3.43%
		Domestic	37,970,140.00	2.23%	15,188,070,950.24	2.23%
		Cross Border	20,445,432.00	1.20%	8,178,192,049.90	1.20%
	NASSKM530X	Overall	48,679,620.00	2.86%	19,471,885,833.24	2.86%
		Domestic	31,641,768.00	1.86%	12,656,725,791.74	1.86%
		Cross Border	17,037,852.00	1.00%	6,815,160,041.50	1.00%

Figure 261 - TRN06 output (2)

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	<p>Participation type.</p> <p>Possible values:</p> <ul style="list-style-type: none"> “Overall” “Direct” “Addressable BIC” “Indirect” “Multi Addressee” <p>In order to increase readability the participation type is displayed only after a group change.</p> <p>Initial sorting by this column , then by party BIC</p>
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.

	<p>In order to increase readability the party BIC/Total is displayed only after a group change.</p> <p>Initial sorting by participation type , then by this column</p>
Overall/Domestic/Cross Border	<p>Mark which identifies whether the displayed aggregation refers to a total per BIC or domestic or cross border cash transfer orders.</p> <p>Possible values:</p> <ul style="list-style-type: none"> Overall Domestic Cross Border
Previous Month	
Volume	Number of cash transfer orders
%	<p>Percentage value of the displayed volume for the combination of participation type, party BIC total and debit/credit;</p> <p>Up to 2 decimals are displayed</p>
Value	Sum of amount. The base for the calculation are debited amounts only.
%	<p>Percentage of the displayed volume for the combination of participation type, party BIC total and debit/credit</p> <p>Up to 2 decimals are displayed.</p>
Reported Month	
%	<p>Percentage value of the displayed volume for the combination of participation type, party BIC total and debit/credit;</p> <p>Up to 2 decimals are displayed.</p>
Value	Sum of amount. The base for the calculation are debited amounts only.
%	<p>Percentage of the displayed volume for the combination of participation type, party BIC total and debit/credit</p> <p>Up to 2 decimals are displayed.</p>

Table 79 - TRN06 - Output description

5.12.7 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]

Screenshot – prompt

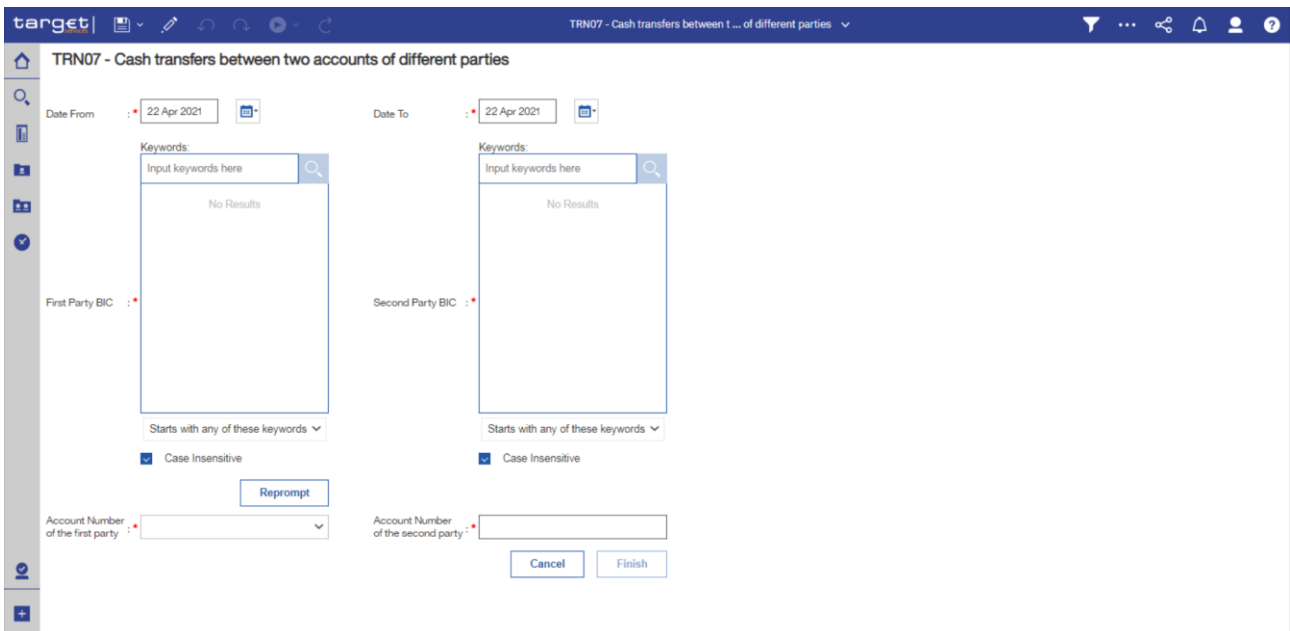


Figure 262 - TRN07 prompt

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. 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

Table 80 - TRN07 - Prompt description

Screenshot - output screen

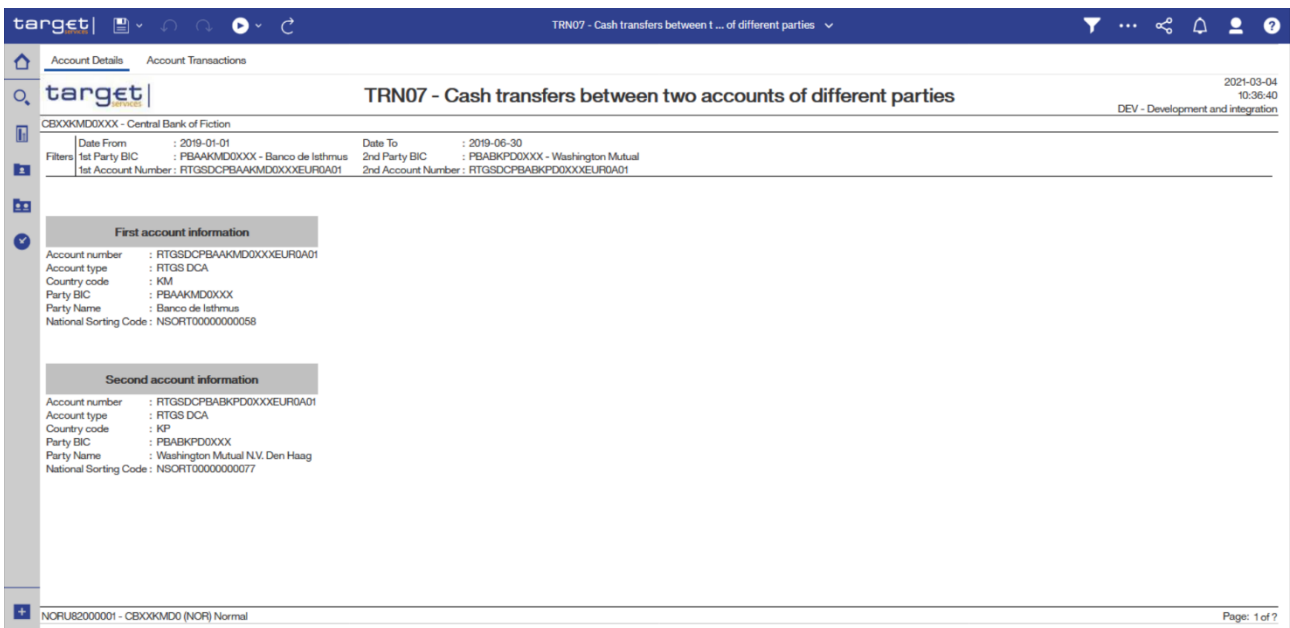


Figure 263 - TRN07 output (1)

target | TRN07 - Cash transfers between two accounts of different parties

Account Details Account Transactions

target | TRN07 - Cash transfers between two accounts of different parties

DEV - Development and Integration

CBXXXMD0000 - Central Bank of Fiction

Date From : 2019-01-01 Date To : 2019-06-30

Filters 1st Party BIC : PBAAKMD0000 - Banco de Isthmus 2nd Party BIC : PBABKPD0000 - Washington Mutual

1st Account Number : RTGSDCPBAAKMD0000EUR0A01 2nd Account Number : RTGSDCPBABKPD0000EUR0A01

Currency: EUR

Transaction Reference Number	Settlement Timestamp	Message Type	Transaction Category	Debited Account	Credited Account	Value of Settlement
2018141432373	2019-05-02 17:04:23	pacs.009 - Interbank Payment	Interbank Payment	RTGSDCPBAAKMD0000EUR0A01	RTGSDCPBABKPD0000EUR0A01	451,800.11
2018141432374	2019-05-02 17:04:23	pacs.010 - Direct Debit	Interbank Payment	RTGSDCPBAAKMD0000EUR0A01	RTGSDCPBABKPD0000EUR0A01	180,720.04
2018141432375	2019-05-02 17:04:23	pain.998 - AS Payment	Interbank Payment	RTGSDCPBAAKMD0000EUR0A01	RTGSDCPBABKPD0000EUR0A01	542,160.13
2018141432376	2019-05-02 17:04:23	pacs.008 - Customer Payment	Interbank Payment	RTGSDCPBAAKMD0000EUR0A01	RTGSDCPBABKPD0000EUR0A01	7,228.80
2018141432429	2019-04-02 17:04:23	pacs.009 - Interbank Payment	Interbank Payment	RTGSDCPBAAKMD0000EUR0A01	RTGSDCPBABKPD0000EUR0A01	361,800.09
2018141432430	2019-04-02 17:04:23	pacs.010 - Direct Debit	Interbank Payment	RTGSDCPBAAKMD0000EUR0A01	RTGSDCPBABKPD0000EUR0A01	14,720.03
2018141432431	2019-04-02 17:04:23	pain.998 - AS Payment	Interbank Payment	RTGSDCPBAAKMD0000EUR0A01	RTGSDCPBABKPD0000EUR0A01	434,160.10
2018141432432	2019-04-02 17:04:23	pacs.008 - Customer Payment	Interbank Payment	RTGSDCPBAAKMD0000EUR0A01	RTGSDCPBABKPD0000EUR0A01	5,788.80
2018141433029	2019-06-02 17:04:23	pacs.009 - Interbank Payment	Interbank Payment	RTGSDCPBAAKMD0000EUR0A01	RTGSDCPBABKPD0000EUR0A01	541,800.13
2018141433030	2019-06-02 17:04:23	pacs.010 - Direct Debit	Interbank Payment	RTGSDCPBAAKMD0000EUR0A01	RTGSDCPBABKPD0000EUR0A01	216,720.05
2018141433031	2019-06-02 17:04:23	pain.998 - AS Payment	Interbank Payment	RTGSDCPBAAKMD0000EUR0A01	RTGSDCPBABKPD0000EUR0A01	650,160.16
2018141433032	2019-06-02 17:04:23	pacs.008 - Customer Payment	Interbank Payment	RTGSDCPBAAKMD0000EUR0A01	RTGSDCPBABKPD0000EUR0A01	8,668.79
2018141433097	2019-05-02 17:04:23	pacs.009 - Interbank Payment	Interbank Payment	RTGSDCPBAAKMD0000EUR0A01	RTGSDCPBABKPD0000EUR0A01	451,800.11
2018141433098	2019-05-02 17:04:23	pacs.010 - Direct Debit	Interbank Payment	RTGSDCPBAAKMD0000EUR0A01	RTGSDCPBABKPD0000EUR0A01	180,720.04
2018141433099	2019-05-02 17:04:23	pain.998 - AS Payment	Interbank Payment	RTGSDCPBAAKMD0000EUR0A01	RTGSDCPBABKPD0000EUR0A01	542,160.13
2018141433300	2019-05-02 17:04:23	pacs.008 - Customer Payment	Interbank Payment	RTGSDCPBABKPD0000EUR0A01	RTGSDCPBAAKMD0000EUR0A01	7,228.80
2018141433345	2019-04-02 17:04:23	pacs.009 - Interbank Payment	Interbank Payment	RTGSDCPBABKPD0000EUR0A01	RTGSDCPBAAKMD0000EUR0A01	361,800.09
2018141433346	2019-04-02 17:04:23	pacs.010 - Direct Debit	Interbank Payment	RTGSDCPBABKPD0000EUR0A01	RTGSDCPBAAKMD0000EUR0A01	14,720.03
2018141433347	2019-04-02 17:04:23	pain.998 - AS Payment	Interbank Payment	RTGSDCPBABKPD0000EUR0A01	RTGSDCPBAAKMD0000EUR0A01	434,160.10
2018141433348	2019-04-02 17:04:23	pacs.008 - Customer Payment	Interbank Payment	RTGSDCPBABKPD0000EUR0A01	RTGSDCPBAAKMD0000EUR0A01	5,788.80

NORUR2000001 - CBXXXMD0 (NOR) Normal

Page: 2 of 7

Figure 264 - TRN07 output (2)

target | TRN07 - Cash transfers between two accounts of different parties

Account Details Account Transactions

target | TRN07 - Cash transfers between two accounts of different parties

DEV - Development and Integration

CBXXXMD0000 - Central Bank of Fiction

Date From : 2019-01-01 Date To : 2019-06-30

Filters 1st Party BIC : PBAAKMD0000 - Banco de Isthmus 2nd Party BIC : PBABKPD0000 - Washington Mutual

1st Account Number : RTGSDCPBAAKMD0000EUR0A01 2nd Account Number : RTGSDCPBABKPD0000EUR0A01

Transaction Reference Number	Settlement Timestamp	Message Type	Transaction Category	Debited Account	Credited Account	Value of Settlement
2018141433689	2019-06-02 17:04:23	pacs.009 - Interbank Payment	Interbank Payment	RTGSDCPBABKPD0000EUR0A01	RTGSDCPBAAKMD0000EUR0A01	541,800.13
2018141433690	2019-06-02 17:04:23	pacs.010 - Direct Debit	Interbank Payment	RTGSDCPBABKPD0000EUR0A01	RTGSDCPBAAKMD0000EUR0A01	216,720.05
2018141433691	2019-06-02 17:04:23	pain.998 - AS Payment	Interbank Payment	RTGSDCPBABKPD0000EUR0A01	RTGSDCPBAAKMD0000EUR0A01	650,160.16
2018141433692	2019-06-02 17:04:23	pacs.008 - Customer Payment	Interbank Payment	RTGSDCPBABKPD0000EUR0A01	RTGSDCPBAAKMD0000EUR0A01	8,668.79
Total value of settlement (first account debited)						3,545,727.23
Total volume of settlement (first account debited)						12
Total value of settlement (first account credited)						3,545,727.23
Total volume of settlement (first account credited)						12

NORUR2000001 - CBXXXMD0 (NOR) Normal

Page: 3 of 7

Figure 265 - 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 <ul style="list-style-type: none"> MCA Overnight Deposit account CLM CB account Marginal Lending account For RTGS : <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> camt.050 pain.998 (ASTI)

	<ul style="list-style-type: none"> pacs.004 pacs.008 pacs.009 pacs.010
Transaction Category	<p>Statistical Classification Transaction category.</p> <p>Possible values:</p> <ul style="list-style-type: none"> 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)

	<ul style="list-style-type: none"> 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 [245]

Table 81 - TRN07 - Output description

5.12.8 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.

Report access

This report can be reached in the following way:

[Team Content] >> [Predefined Reports] >> [TRN – Transaction Report] >> [TRN08]

Screenshot - prompt screen

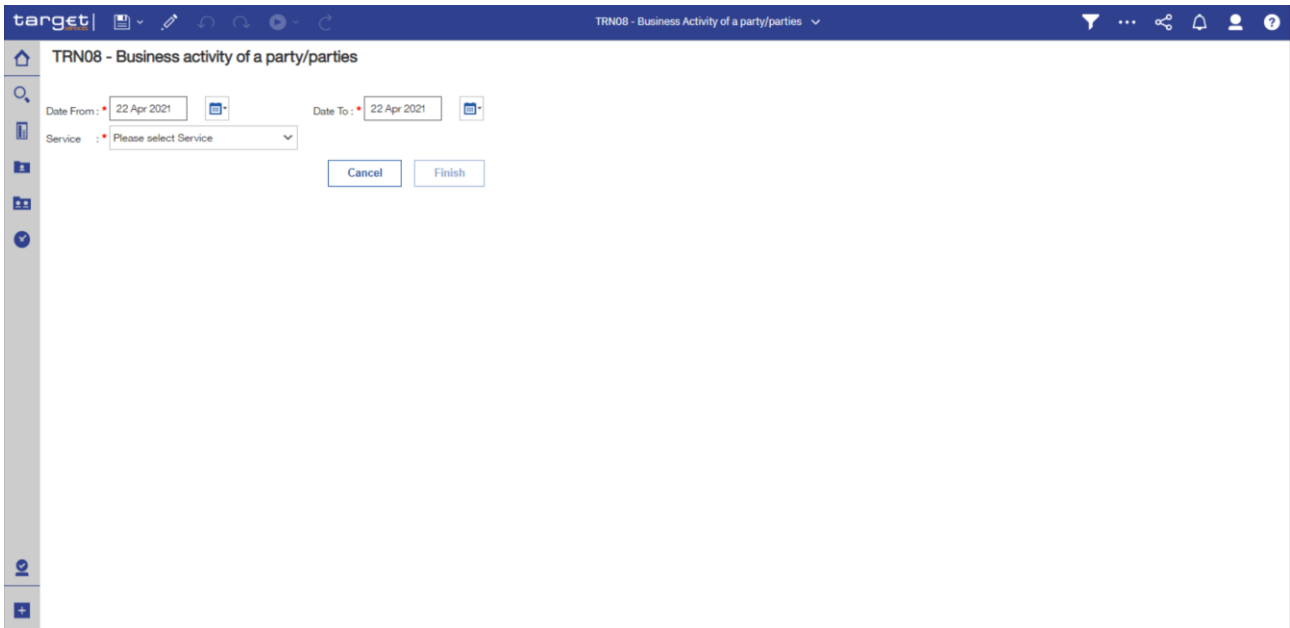


Figure 266 - TRN08 prompt

Prompt description

TRN08 – Report description – prompt screen	
Field label	Description
Service Type	<p>You can use this drop-down field to select between the services</p> <p>Possible values:</p> <ul style="list-style-type: none"> CLM, RTGS. <p>This field is mandatory.</p>
Date From	<p>You can select the date by clicking on the calendar.</p> <p>This field is mandatory.</p>
Date To	<p>You can select the end date of the period, for which the report should contain the data.</p> <p>For valid report results, the current day cannot be selected.</p> <p>This field is optional.</p>

Table 82 - TRN08 - Prompt description

Screenshot - output screen

The screenshot displays the Target Services web application interface. The main header shows 'target SERVICES' and the report title 'TRN08 - Business activity of a party/parties'. The breadcrumb trail includes 'Cash transfer orders debited', 'Cash transfer orders credited', 'Cash transfer orders sent', and 'Cash transfer orders received'. The report parameters are: Service: RTGS, Date From: 2018-01-01, Date To: 2021-02-05. The report title is 'Cash transfer orders debited' with a currency of EUR. The data is presented in a table with the following columns: Party BIC and name, Volume of cash transfer orders debited, Value of cash transfer orders debited, and Average amount.

Party BIC and name	Volume of cash transfer orders debited	Value of cash transfer orders debited	Average amount
PBAAKMD0XXX - Banco de Isthmus	2,165,767	189,049,394.18	87.29
PBANKMD0XXX - Gringotts Bank	1,123,611	189,942,898.53	169.05

The footer of the interface shows the user ID 'NORU82000001 - CBXXKMD0 (NOR) Normal' and the page number 'Page: 1 of ?'.

Figure 267 - TRN08 output (1)

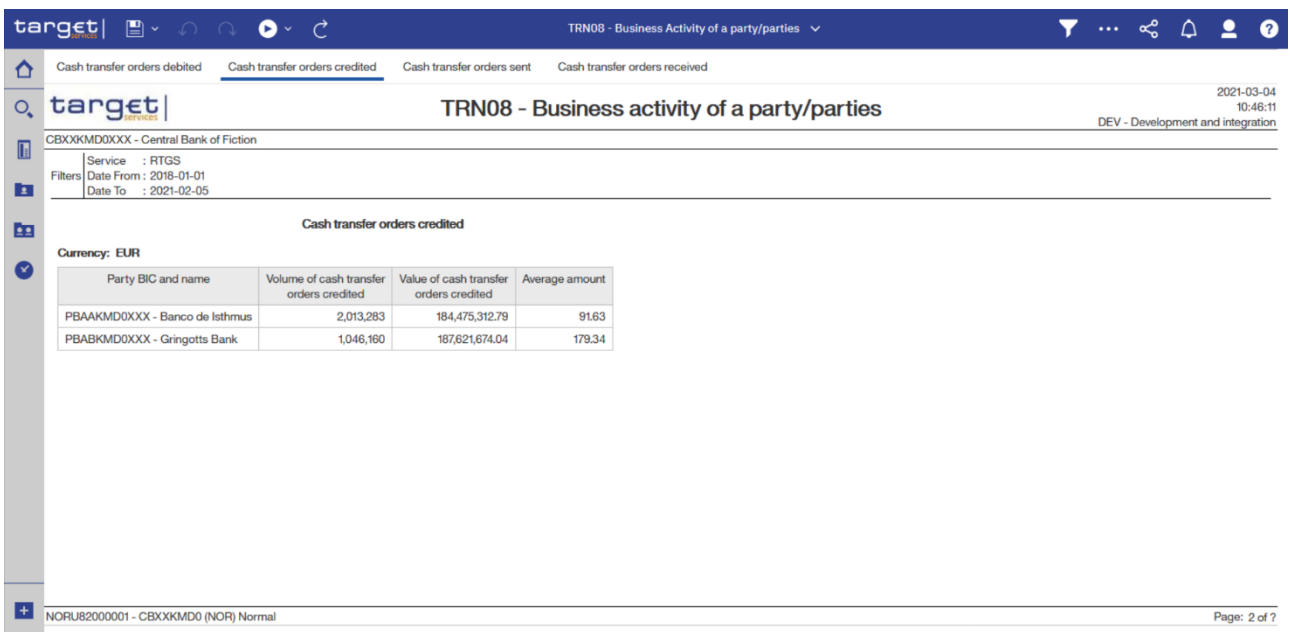


Figure 268 - TRN08 output (2)

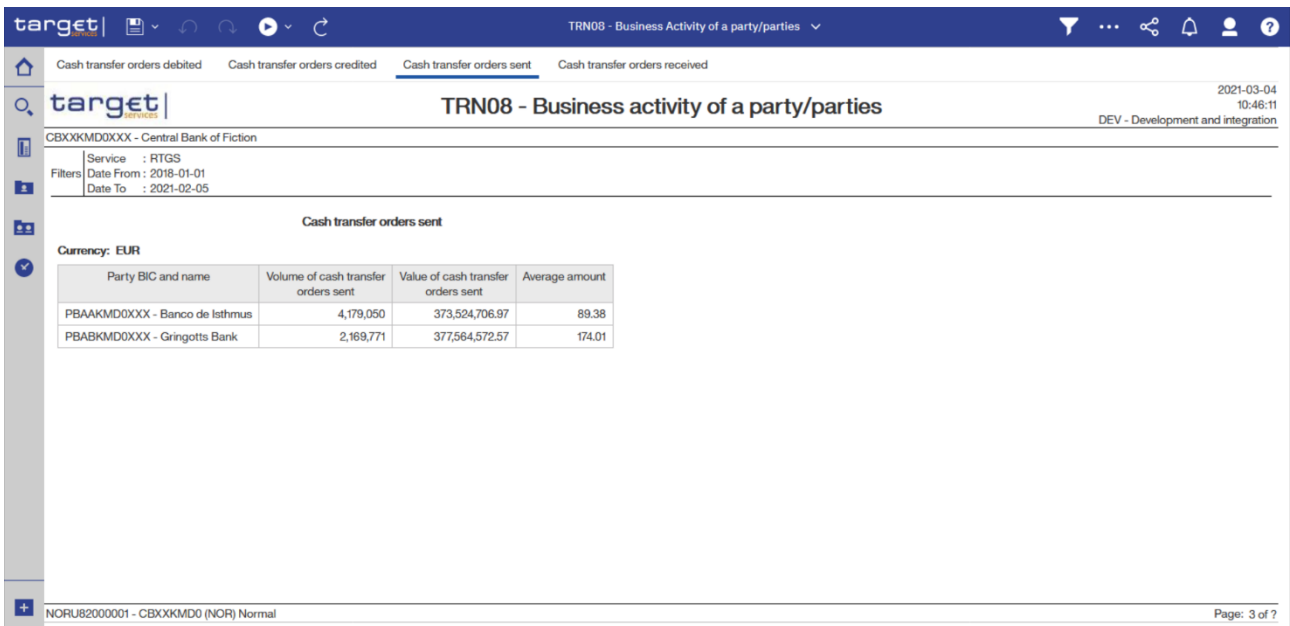


Figure 269 - TRN08 output (3)

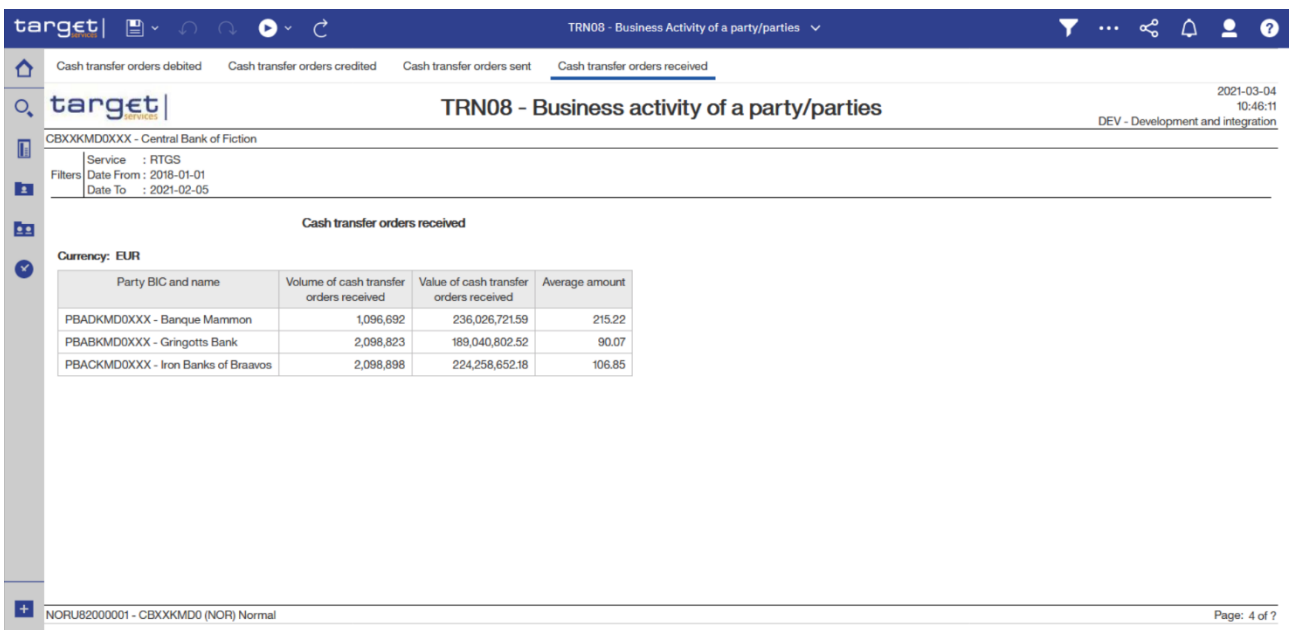


Figure 270 - TRN08 output (4)

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	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 any 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 any status within the regarded date / date range.
Average amount	Average calculated from previous fields of the row (value divided by volume).

Table 83 - TRN08 - Output description

5.12.9 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

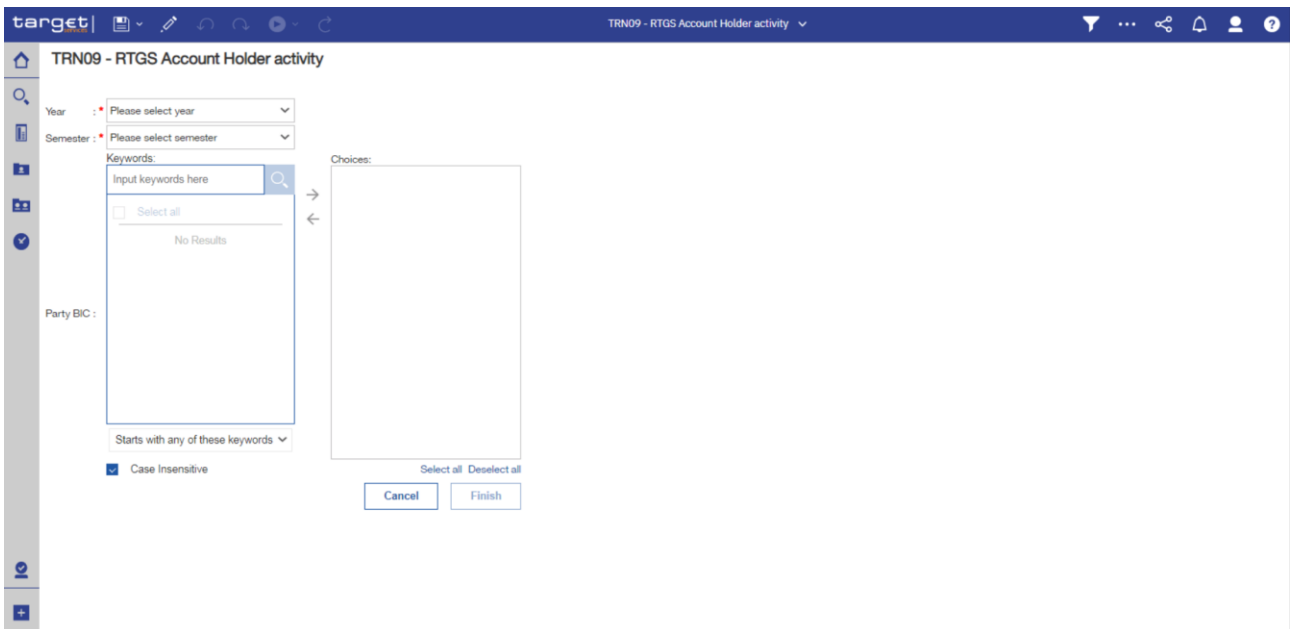


Figure 271 - TRN09 prompt

Prompt description

TRN09 – Report description – prompt screen	
Field label	Description
Semester	<p>You can use this drop-down field to select a semester.</p> <p>Possible Values:</p> <ul style="list-style-type: none"> 1st semester (representing 01.01. – 30.06.) 2nd semester (representing 01.07. – 31.12.) <p>This field is mandatory.</p>
Year	<p>You can use this drop-down field to select the year, for which the report should contain the data.</p> <p>This field is mandatory.</p>
Party BIC	<p>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.</p> <p>This field is mandatory.</p>

Table 84 - TRN09 - Prompt description

Screenshot - output screen

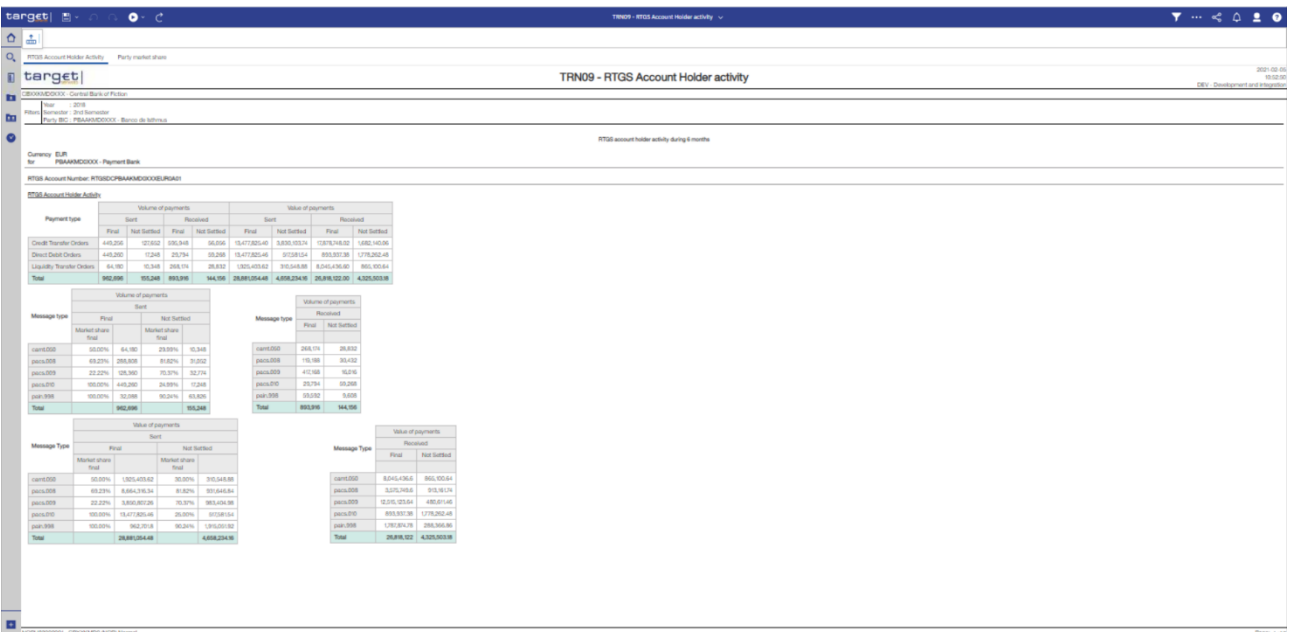


Figure 272 - TRN09 output (1) – RTGS Account Holder activity View

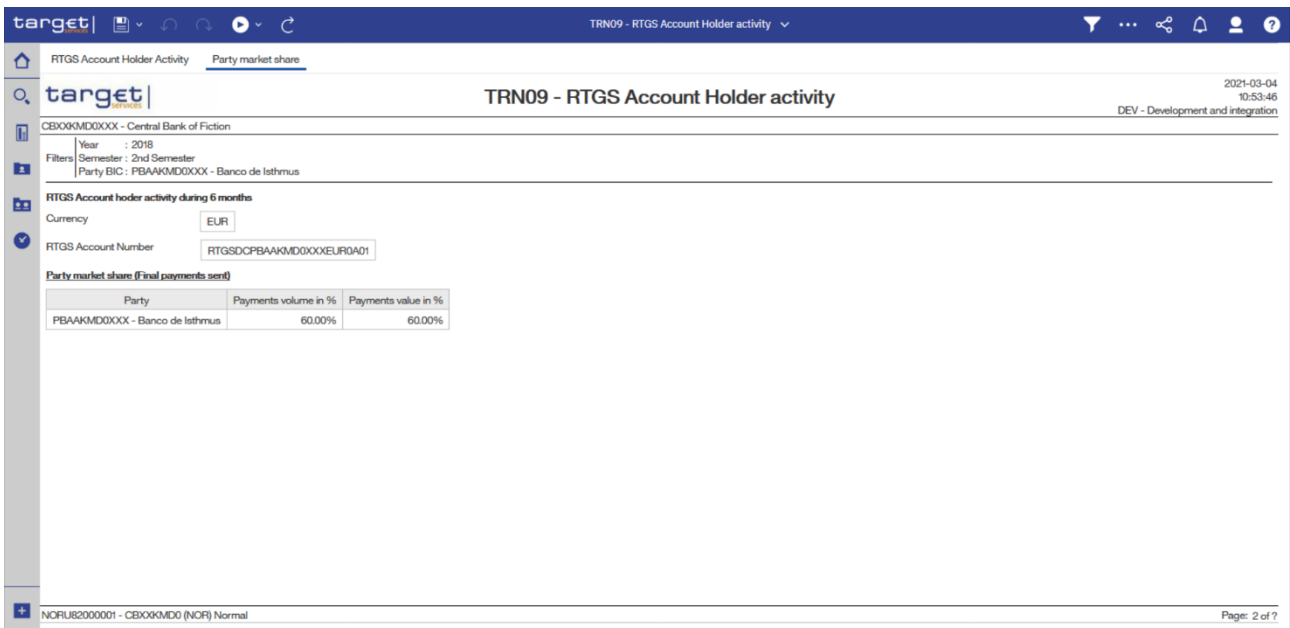


Figure 273 - TRN09 output (2) – Party Market Share View

Output description

TRN09 – Report description – output screen – table

RTGS Account Holder activity

Field label	Description
Payment type	Payment type. Possible values: <ul style="list-style-type: none"> Credit transfer orders Liquidity transfer orders Direct debit orders
Volume of payments sent	Volume of all payments sent <ul style="list-style-type: none"> 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

	<ul style="list-style-type: none"> Final (Settled) Not settled (Cancelled, rejected) <p>per payment type and total for the chosen semester</p>
Value of payments received	<p>Value of all payments received</p> <ul style="list-style-type: none"> Final (Settled) Not settled (Cancelled, rejected) <p>per payment type and total for the chosen semester</p>
Message type	<p>Message type.</p> <p>Possible values:</p> <ul style="list-style-type: none"> camt.050 pacs.004 pacs.008 pacs.009 pacs.010
Volume of payments sent	<p>Volume of all payments sent</p> <p>Market share final (in %)</p> <ul style="list-style-type: none"> Final (Settled) Not settled (Cancelled, rejected) <p>per message type and total for the chosen semester</p>
Volume of payments received	<p>Volume of all payments received</p> <ul style="list-style-type: none"> Final (Settled) Not settled (Cancelled, rejected) <p>per message type and total for the chosen semester</p>
Message type	<p>Message type.</p> <p>Possible values:</p> <ul style="list-style-type: none"> camt.050 pacs.004 pacs.008 pacs.009 pacs.010

Value of payments sent	Value of all payments sent Market share final (in %) Final (Settled) Not settled (Cancelled, rejected) per message type and total for the chosen semester
Value of payments received	Value of all payments received Final (Settled) Not settled (Cancelled, rejected) per message type and total for the chosen semester
Total	Totals of volumes and values

Table 85 - TRN09 - Output description - Table

**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 86 - TRN09 - Output description

5.12.10 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]

Screenshot - prompt

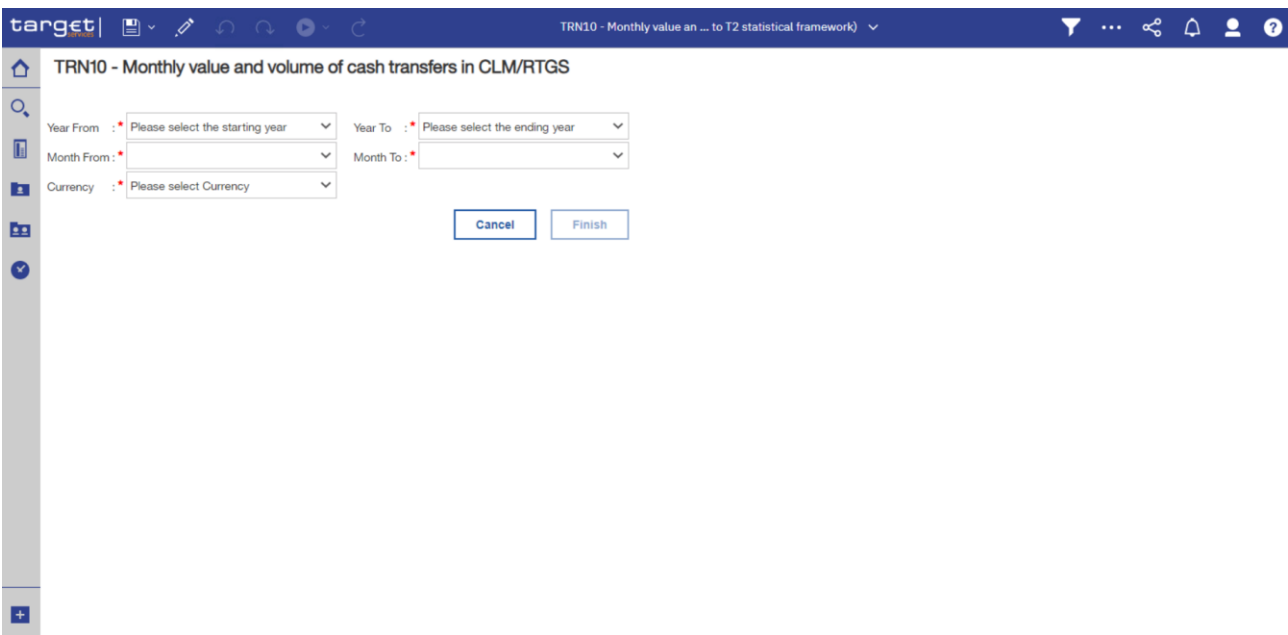


Figure 274 - TRN10 prompt

Prompt description

TRN10 – 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 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.

Table 87 - TRN10 - Prompt description

Screenshot - output screen

target | TRN10 - Monthly value and ... T2 statistical framework

CLM RTGS

target | TRN10 - Monthly value and volume of cash transfers in CLM

2021-04-21 07:15:40
DEV - Development and integration

CBXXKMD0000 - Central Bank of Fiction

Filters Year From : 2019 Month From : April
Year To : 2019 Month To : April
Currency : EUR

Distribution per CB in CLM

April 2019

Country Code CB	Volume	Daily average volume	Value	Daily average value
KM	160	32.00	153,972,251.44	30,794,450.29
KP	51	10.20	65,410,846.18	13,082,169.24
Total	211	42.20	219,383,097.62	43,876,619.52

ADVU82000001 - CBXXKMD0 (ADV) Advanced Page: 1 of ?

Figure 275 - TRN10 output (1)

Country Code CB	Volume	Daily average volume	Value	Daily average value
CZ	264	52.80	82,780,038.34	16,556,007.67
FO	132	26.40	41,390,035.59	8,278,007.32
GL	132	26.40	41,390,035.11	8,278,007.02
KM	4,176	835.20	1,309,429,206.8	261,885,841.36
KP	1,728	345.60	541,832,551.82	106,366,510.36
PL	264	52.80	82,780,037.66	16,556,007.53
Total	6,696	1,338.20	2,099,601,905.32	419,920,381.06

Figure 276 - TRN10 output (2)

Output description

TRN10 – Report description – output screen

Field label	Description
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 88 - TRN10 - Output description

5.12.11 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 displayed 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 277 - TRN11 prompt

Prompt description

TRN11 – 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.

	<p>This field is mandatory.</p>
Month From	<p>You can use this drop-down field to select the month, from which the report should contain the data.</p> <p>For valid report results, the current month cannot be selected.</p> <p>This field is mandatory.</p>
Year To	<p>You can use this drop-down field to select the end year of the period, for which the report should contain the data.</p> <p>This field is mandatory</p>
Month To	<p>You can use this drop-down field to select the end month of the period, for which the report should contain the data.</p> <p>For valid report results, the current month cannot be selected.</p> <p>This field is mandatory.</p>
Service	<p>You can use this drop-down field to select a Service.</p> <p>Possible values:</p> <ul style="list-style-type: none"> CLM RTGS CLM + RTGS <p>This field is mandatory.</p>
Currency	<p>You can use this drop-down field to select from all valid currencies in CLM/RTGS.</p> <p>This field is mandatory.</p>

Table 89 - TRN11 - Prompt description

Screenshot - output screen

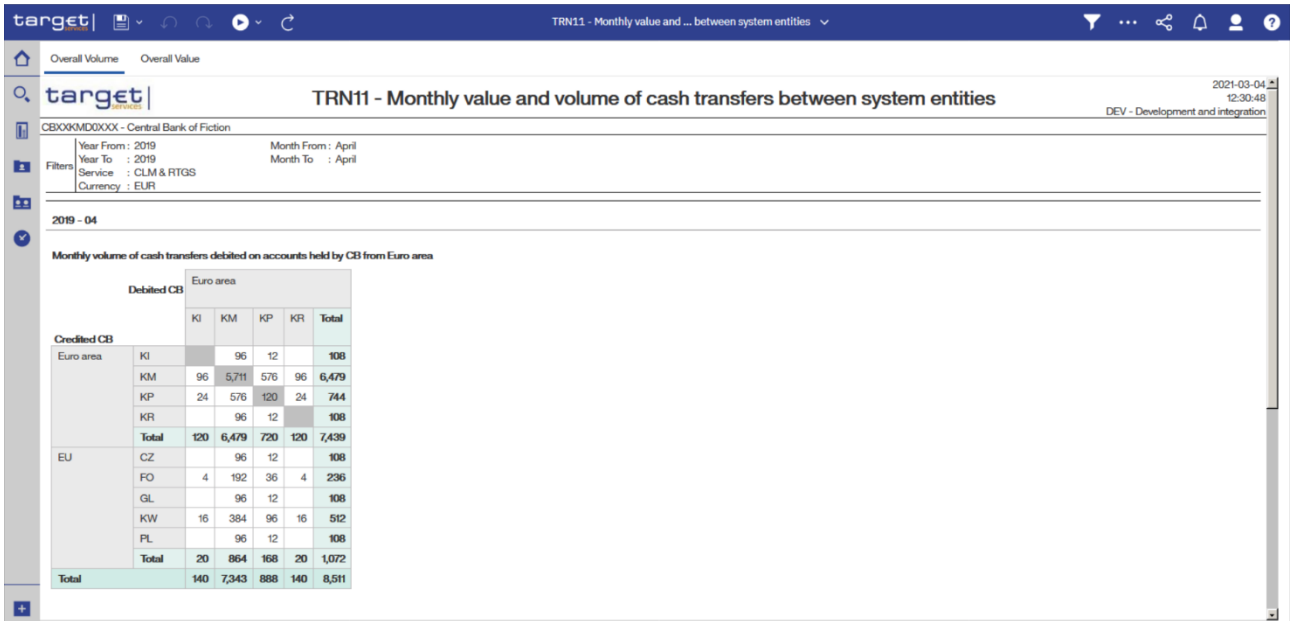


Figure 278 - TRN11 output (1)

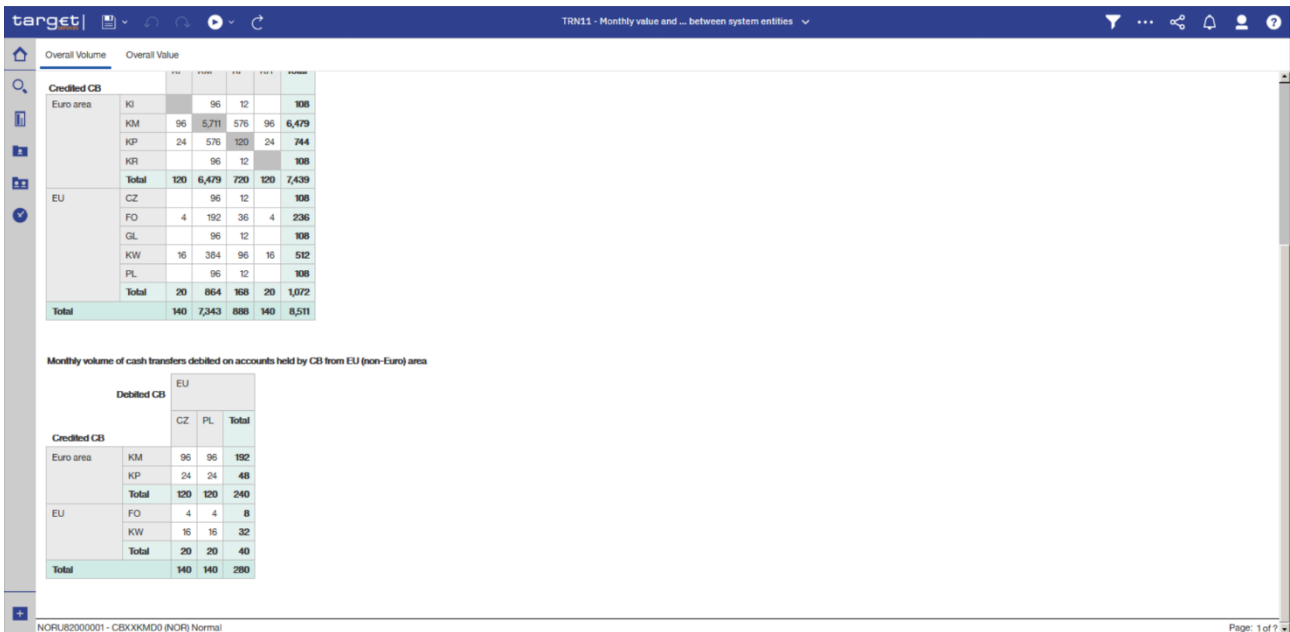


Figure 279 - TRN11 output (2)

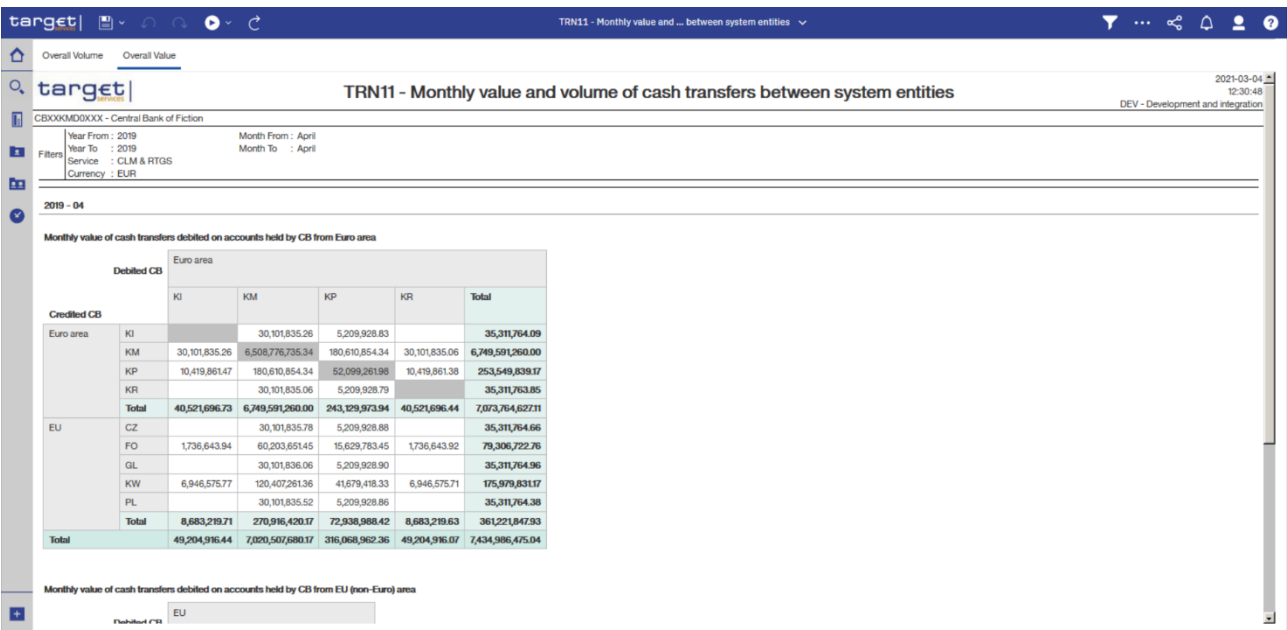


Figure 280 - TRN11 output (3)

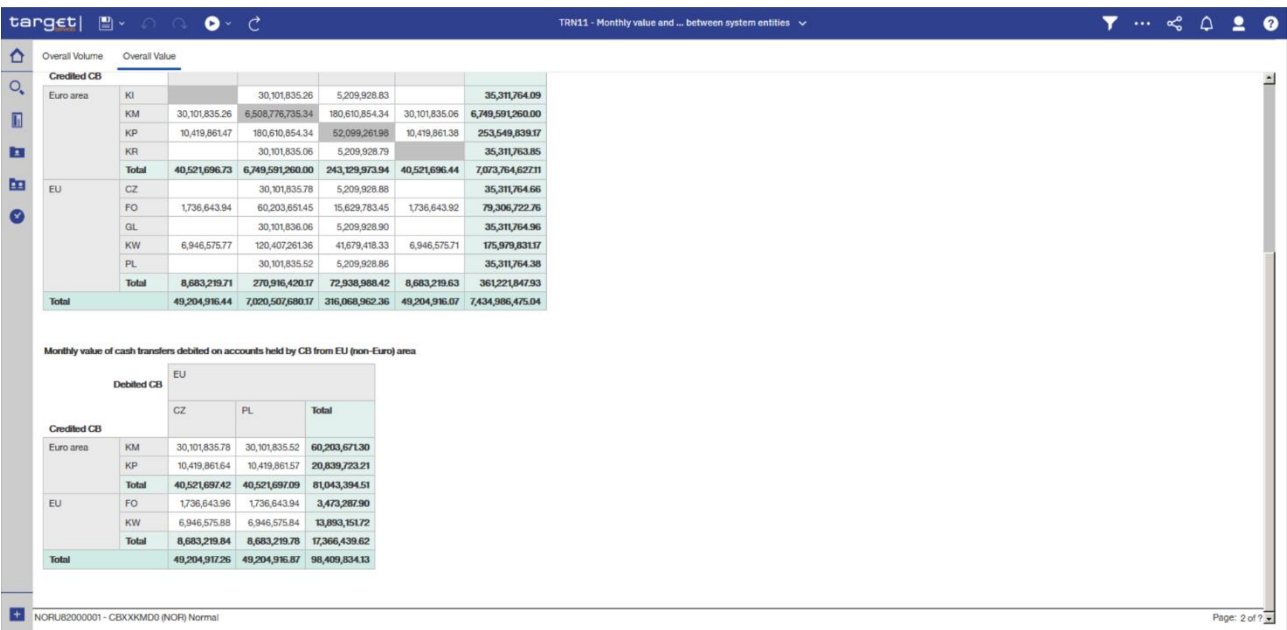


Figure 281 - TRN11 output (4)

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 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 90 - 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 91 - TRN11 - Output description - Table overall value

6 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

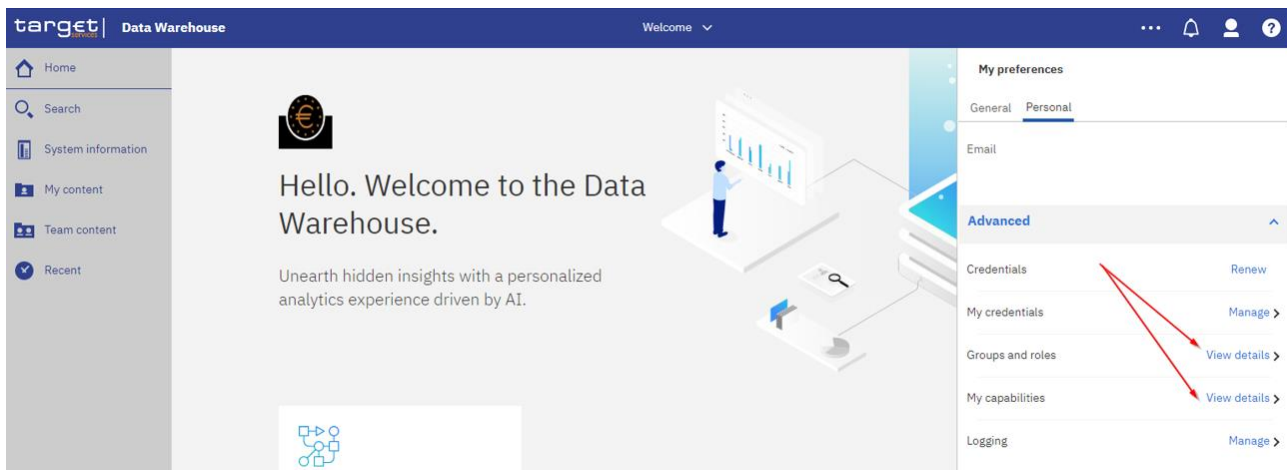


Figure 282 - Groups and roles and capabilities

Based on the above attributes a two level security is defined in the DWH:

- | Functional security
- | Data security

6.1 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. Their roles/groups define the DWH capabilities, assigned to user.

User groups	Can be assigned to party type	DWH Role	Description
Normal	Central Bank Payment Bank Ancillary System	Consumers	Members can read and execute public content, such predefined as 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 92 - 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:

I 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

I 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.

I Predefined Reports (visible to all users)

Contains all predefined reports grouped in sub-folders in the hierarchy of chapter [Predefined reports](#) [▶ 122]. 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](#) [▶ 122] 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:

target | Data Warehouse Welcome ▾

Home | Search | System information | My content | Team content | Recent

Team content > Predefined Reports > TRN - Transaction Reports

- TRN01 - Cash transfer (order) search and details
3/23/2021 3:42 PM
- TRN01 - Cash transfer (order) search and details - target
4/12/2021 1:51 PM
- TRN02 - Monthly overview of domestic and cross-border payments
3/29/2021 10:57 AM
- TRN03 - Monthly peak day and peak hour in terms of value and volume of cash transfer orders
4/7/2021 1:10 PM
- TRN04 - Cash transfers per time band and per CB
4/14/2021 1:06 PM
- TRN05 - Monthly overview of cash transfer orders per party
3/23/2021 4:20 PM
- TRN06 - Monthly share of Indirect Participant, addressabl ... as part of total Direct Participant's activity
4/14/2021 5:17 PM
- TRN07 - Cash transfers between two accounts of different parties
4/14/2021 5:17 PM
- TRN08 - Business Activity of a party/parties
4/14/2021 1:24 PM
- TRN09 - RTGS Account Holder activity
4/14/2021 1:26 PM
- TRN10 - Monthly value and volume of cash transf ... CLM/RTGS (according to T2 statistical framework)
4/7/2021 4:34 PM
- TRN11 - Monthly value and volume of cash transfers between system entities
4/6/2021 9:58 AM

Figure 283 - Functional security - Central Bank user

A Payment Bank user can see the following reports:

target | Data Warehouse W

Home | Search | System information | My content | Team content | Recent

Team content > Predefined Reports > TRN - Transaction Reports

- TRN01 - Cash transfer (order) search and details
4/19/2021 12:59 PM
- TRN01 - Cash transfer (order) search and details - target
4/12/2021 1:51 PM
- TRN02 - Monthly overview of domestic and cross-border payments
4/19/2021 10:56 AM
- TRN03 - Monthly peak day and peak hour i ... value and volume of cash transfer orders
4/16/2021 2:24 PM
- TRN05 - Monthly overview of cash transfer orders per party
3/23/2021 4:20 PM
- TRN06 - Monthly share of Indirect Particip ... as part of total Direct Participant's activity
4/19/2021 11:11 AM
- TRN08 - Business Activity of a party/parties
4/19/2021 11:25 AM

Figure 284 - Functional security - Payment bank user

An Ancillary System user can see the following reports:

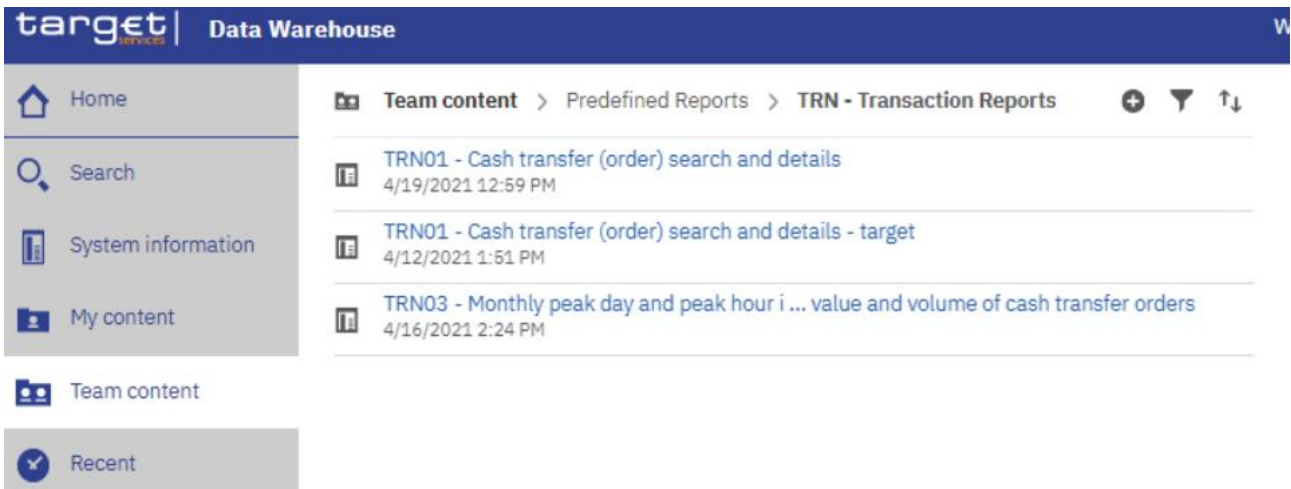


Figure 285 - Functional security - Ancillary System user

6.2 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.

7 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.

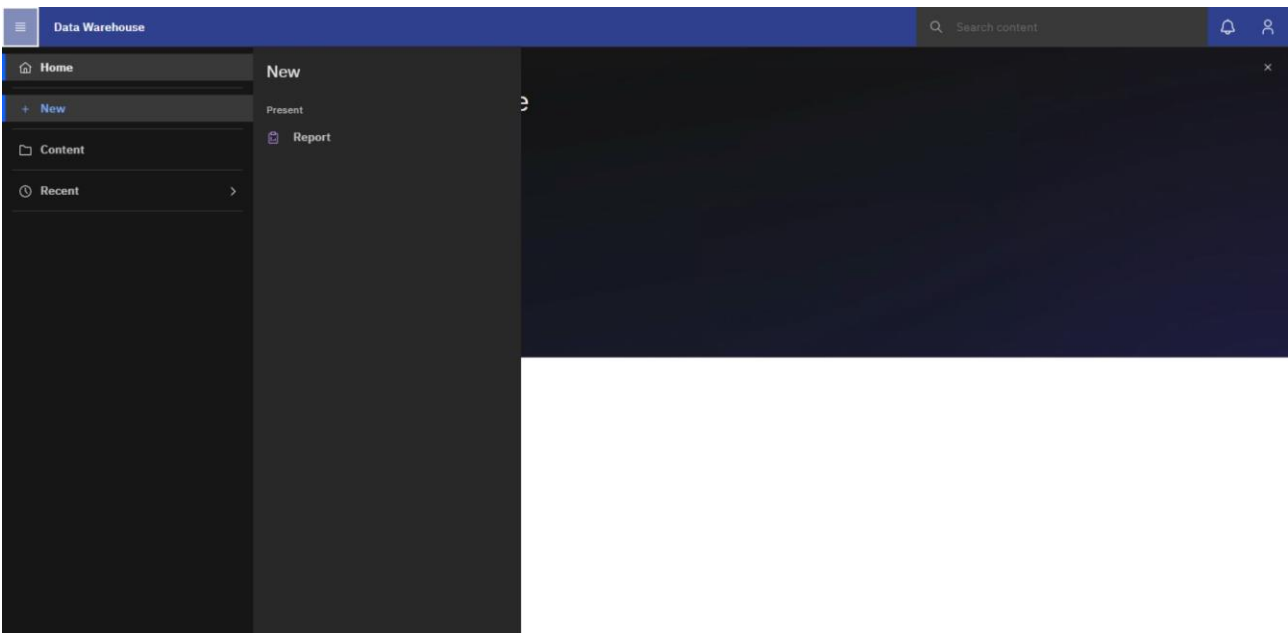



Figure 286 - Creating reports - Welcome page – Open menu - New - Report

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 adaptations can be executed in the same way as how to create a new report from scratch.

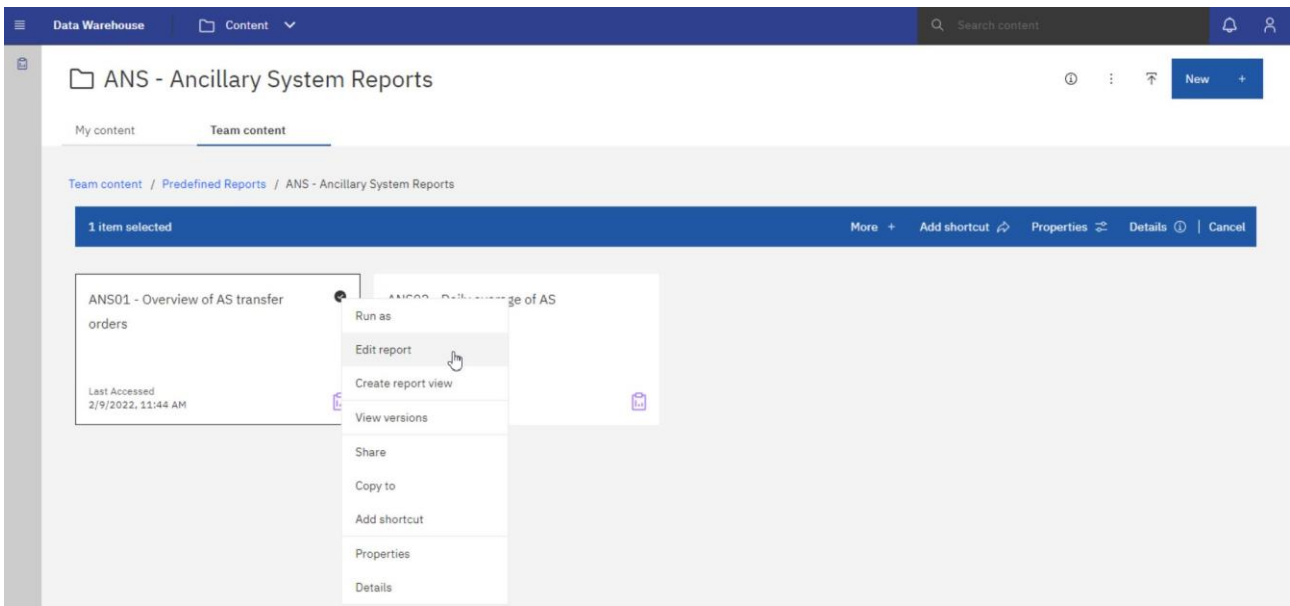


Figure 287 - Creating reports - Predefined Reports - Edit report



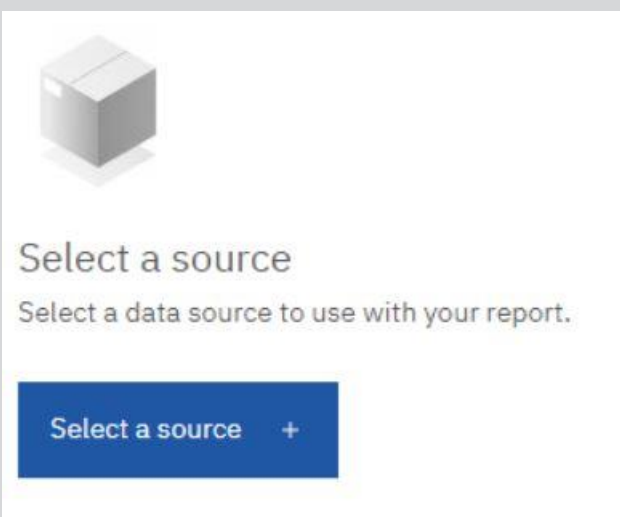

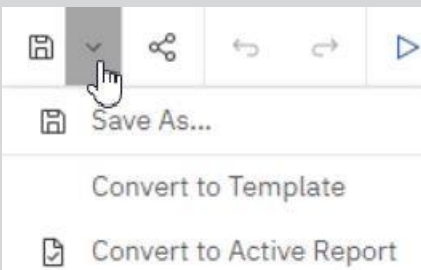
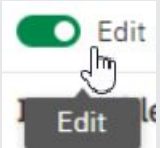


7.1 The user interface

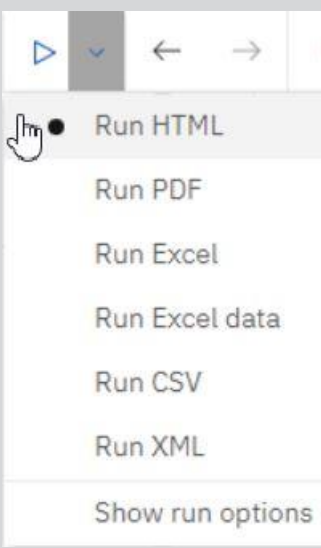


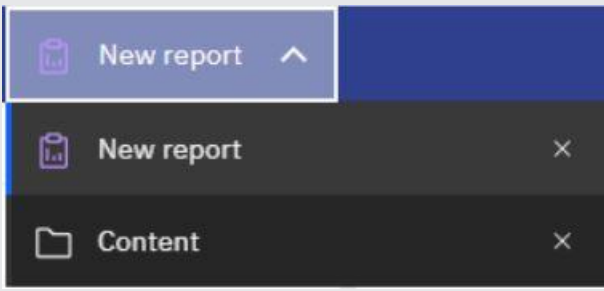
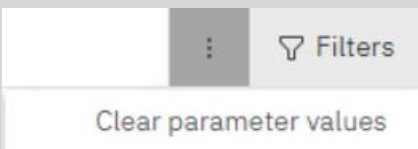

This chapter gives an overview in the creation of a new report.

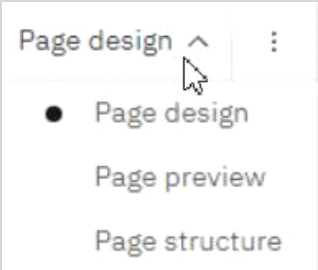
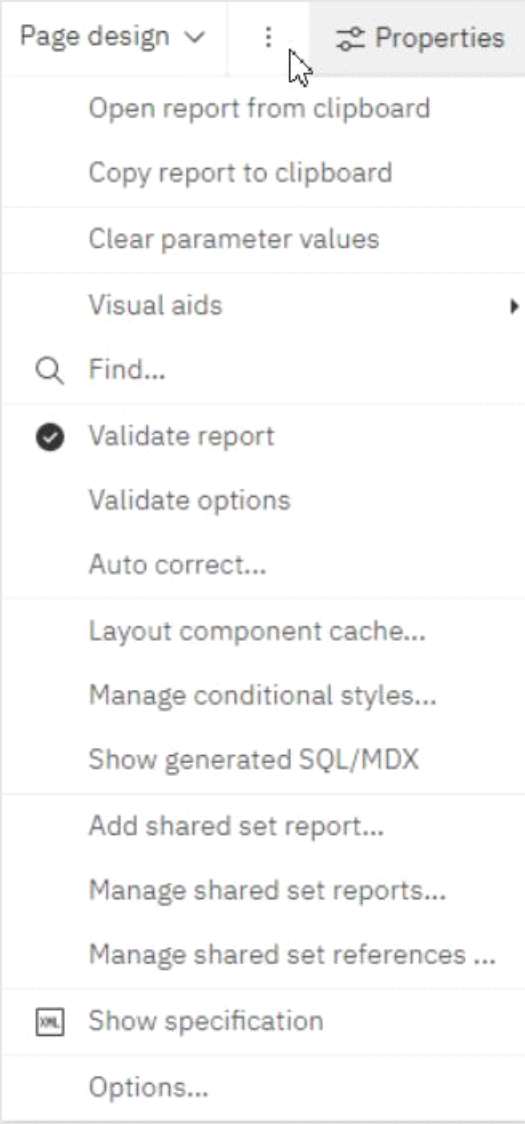

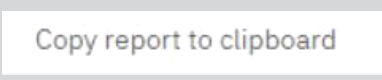
This is the first screen when creating a new report.



Figure 288 - The user interface- Creating a report

Reporting icon	Description
	Navigation menu
	Data source
	<p>Data items</p> <p>The first Symbol is only visible if you did not select a source.</p> <p>Than you can select the source you need from the team content.</p>
	Toolbox
	<p>Save as</p> <p>Convert to Template</p> <p>Convert to Active Report</p>
	<p>Toggle between editing the report and viewing the report.</p> <p>Tip: These two states are referred to as edit mode and view mode.</p>
	Undo last action you made to the report
	Redo the last change you made to the report

	<p>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.</p>
	<p>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.</p>
	<p>Refresh the report using the same prompt values. Appears only in view mode.</p> <p>Note: To ensure that the data is refreshed, disable the “Use local cache” property in the properties for the query.</p>
	<p>Switch between the Welcome page and other views that you have open in the DWH GUI.</p>
	<p>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.</p>
	<p>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</p>

	<p>an image of each product. Unlock the list to insert the image object inside a list column.</p>
	<p>Switch between page design, page preview, or page structure view.</p>
	<p>When you click on the "More" icon () the following options are available to choose:</p> <ul style="list-style-type: none"> 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...
	<p>You can copy a report specification to the clipboard so you can open it from the clipboard later.</p>

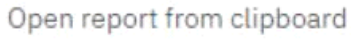



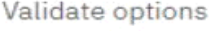



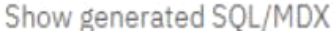

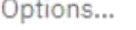

	<p>You can open a report specification that was previously copied to the clipboard. This is useful for importing an XML report specification from outside the DWH environment.</p>
	<p>Visual aids include options to help you when you are designing reports in the layout.</p>
	<p>You can quickly locate specific objects in a report by using “Find”.</p>
	<p>Validate your report to ensure that it contains no errors.</p>
	<p>If you require more details from the validation process.</p>
	<p>If you encounter validation errors and want to identify incorrect objects in your report</p>
	<p>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.</p>
	<p>You can view, modify, or delete the conditional styles that are applied to your report. You can also define a new conditional style.</p>
	<p>View the SQL or MDX for the entire report.</p>
	<p>A report specification is an XML file that you can view.</p>
	<p>Please see Chapter “Options in Reporting” for detailed information.</p>
	<p>Toggle between showing and hiding the Properties pane for the active object. The properties that are displayed are different, depending on the object.</p>

Table 93 - 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.

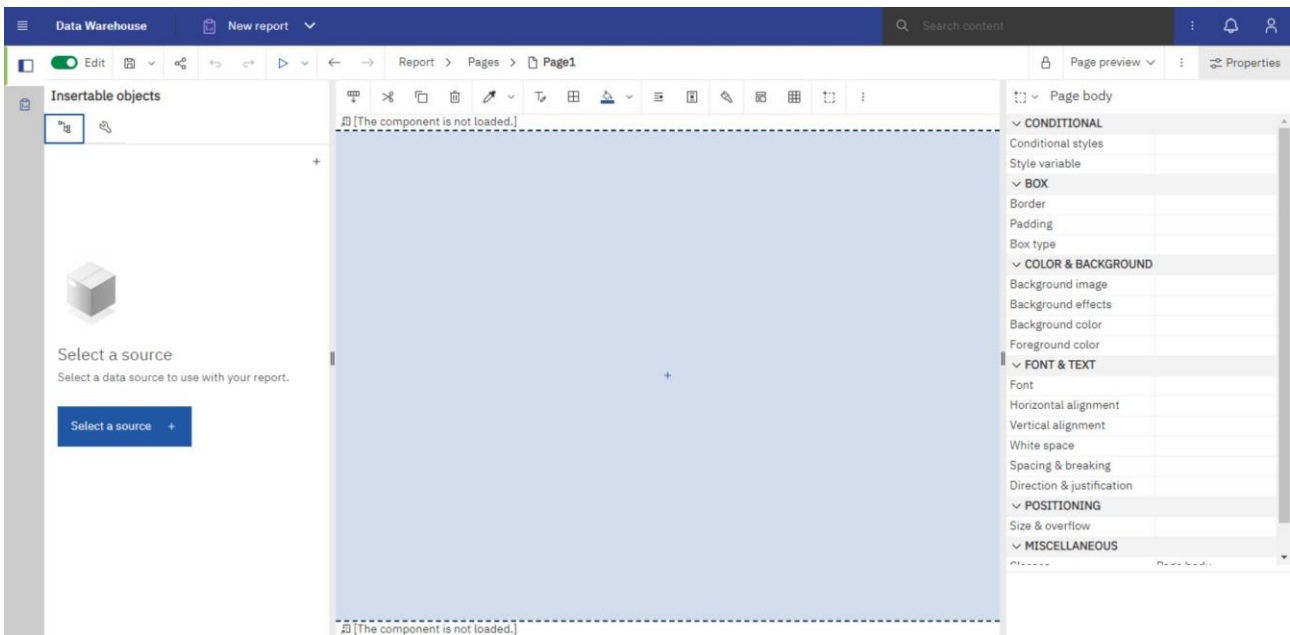


Figure 289 - The user interface - Page Preview

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.

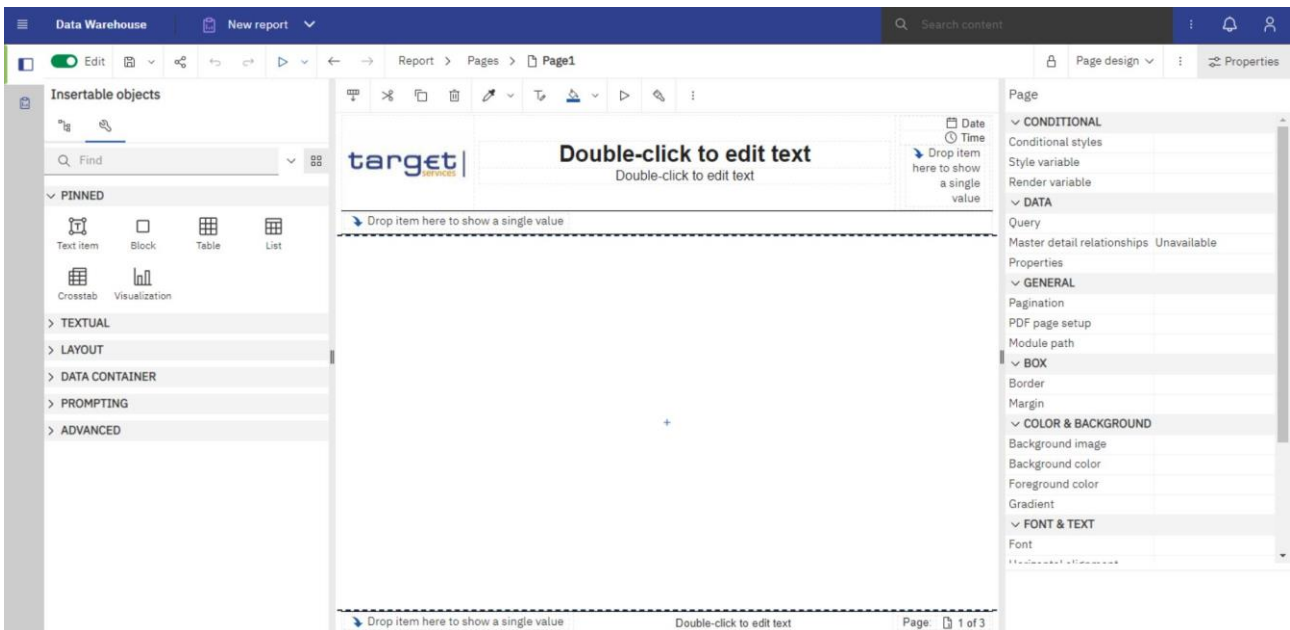


Figure 290 - The user interface - Page design view

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.

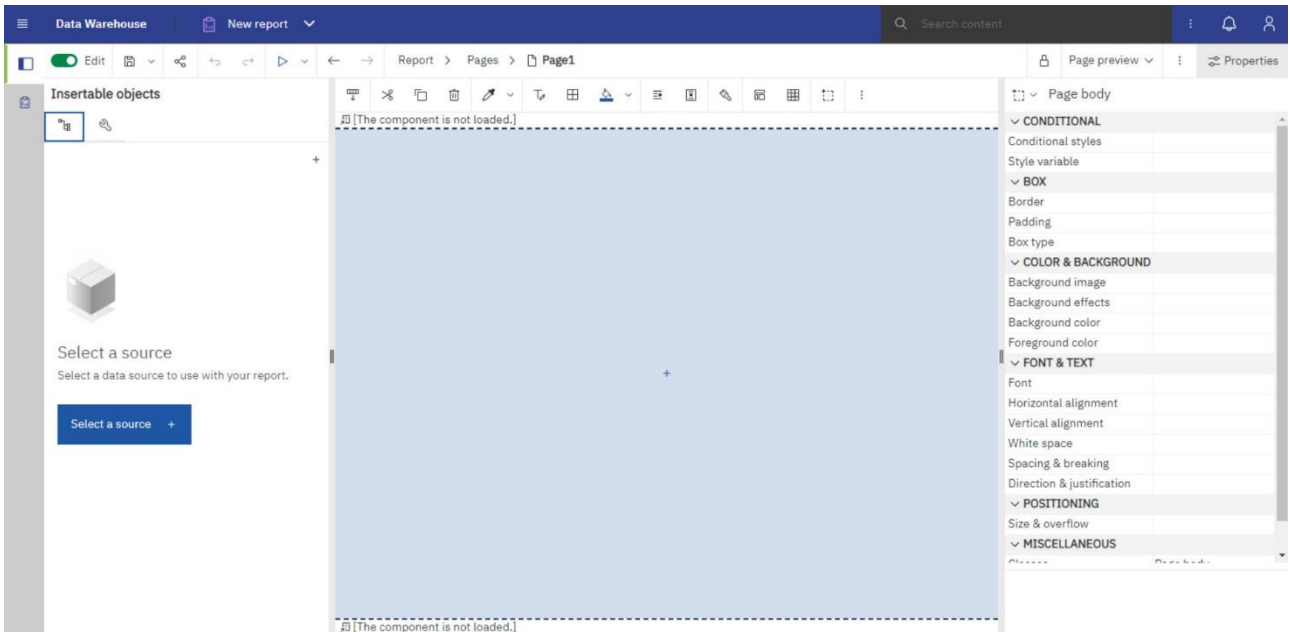


Figure 291 - The user interface - Page structure preview

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.

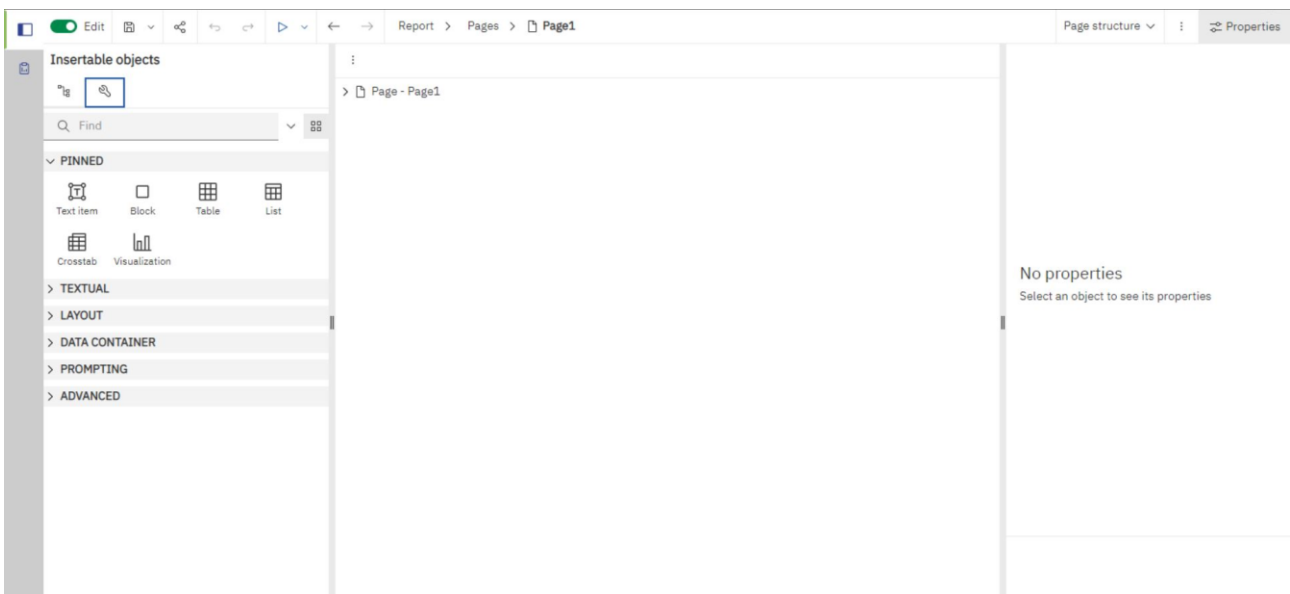


Figure 292 - The user interface - Page structure view

[Create a report](#) [▶ 374] details the process of report creation further by providing a step-by-step guidance.

7.1.1 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 293 - 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

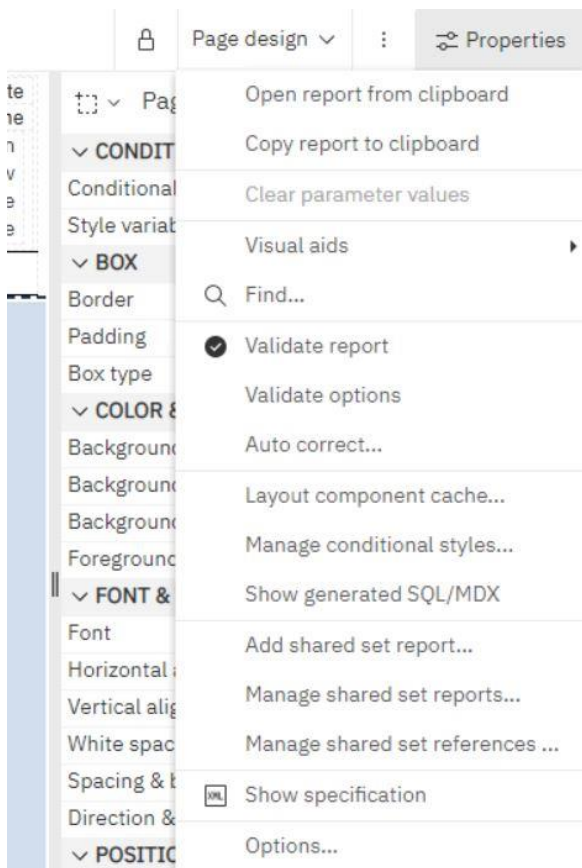


Figure 294 - On-demand toolbar - More icon

Click the “More” icon ().

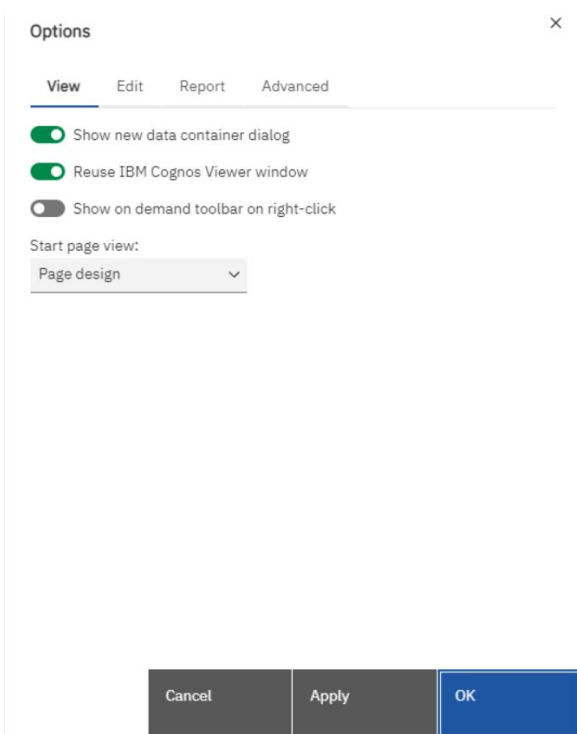







Figure 295 - On-demand toolbar - More icon - Options

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” ()

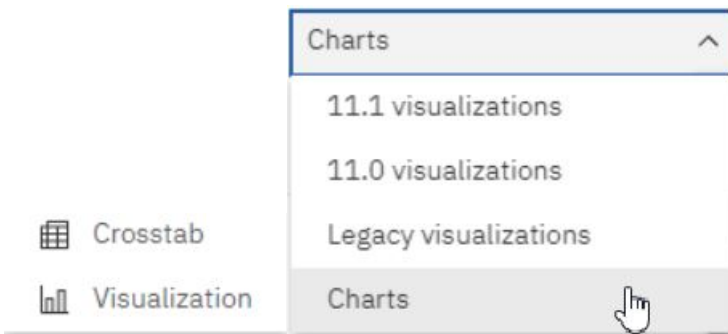
Click the **“Filters”** icon to add, edit, or delete filters or add filter text to the visualization

“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”




“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

“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.

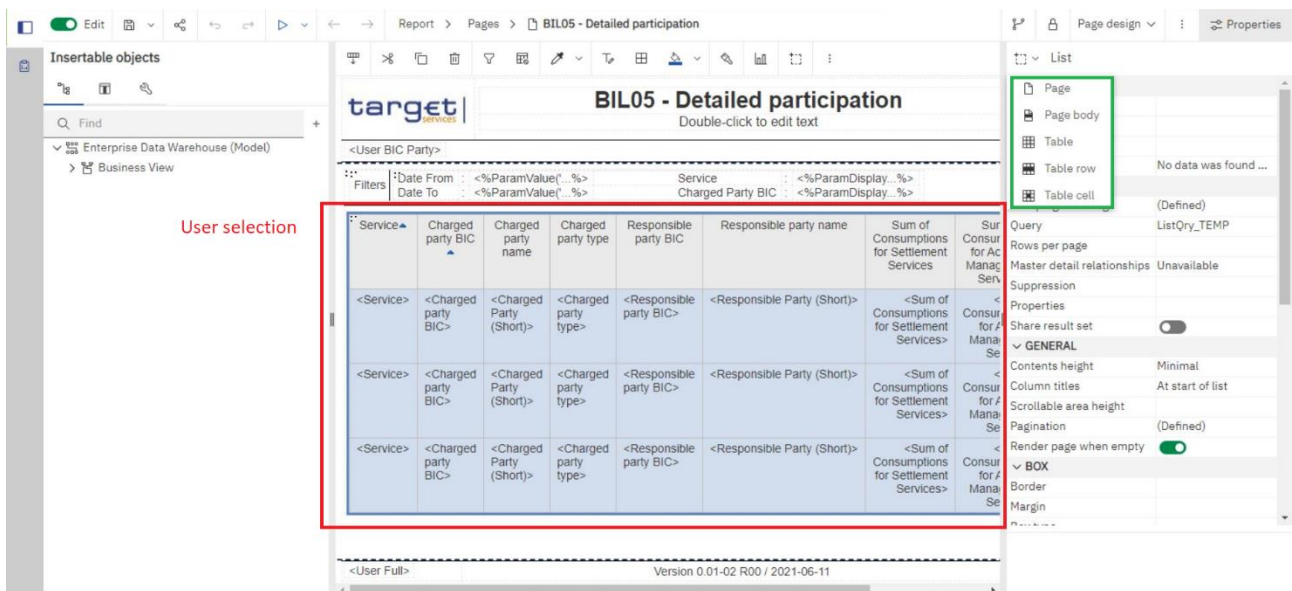





Figure 296 - On-demand toolbar - Select ancestor


“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.

7.1.2 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 (). 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
	Character
	Measure
	Integer
	Date / Time

Figure 297 - Sources tab - Sources items

7.1.3 Data items tab

The “**Data Items**” tab () shows the queries in the report.

7.1.4 Toolbox bar

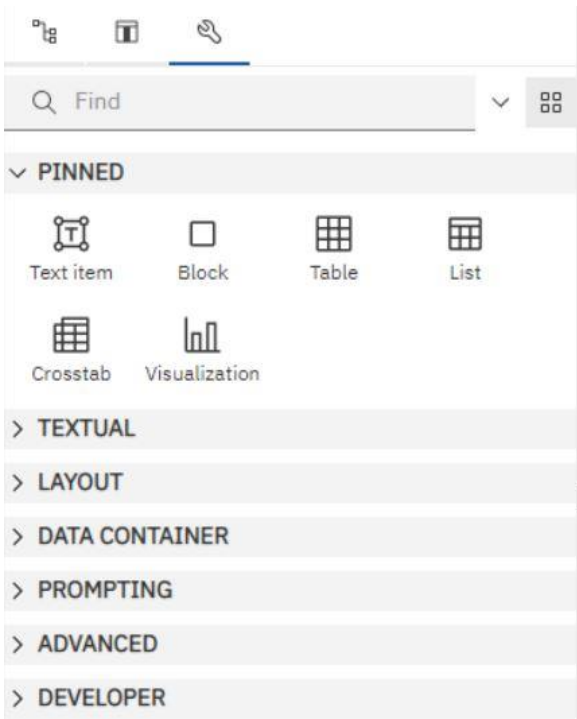



Figure 298 - Toolbox bar

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**”.

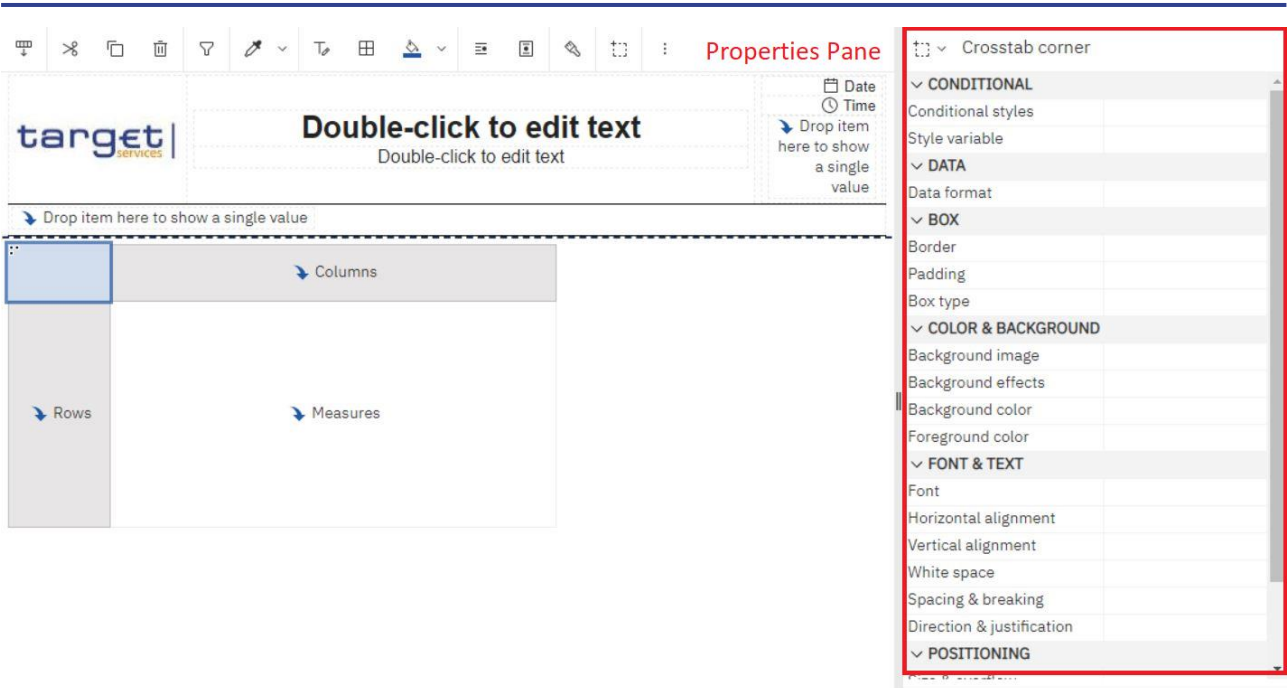








Figure 299 - Toolbox bar - Properties Pane

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).

7.1.5 Report overview pane

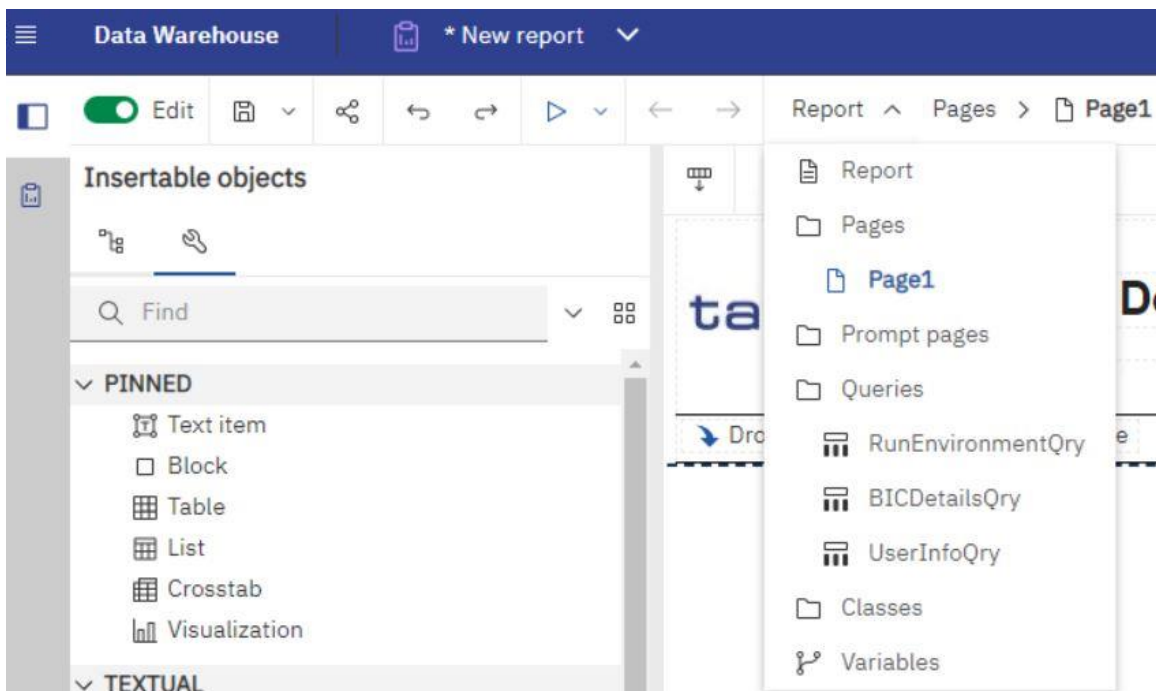



Figure 300 - Report overview pane

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.

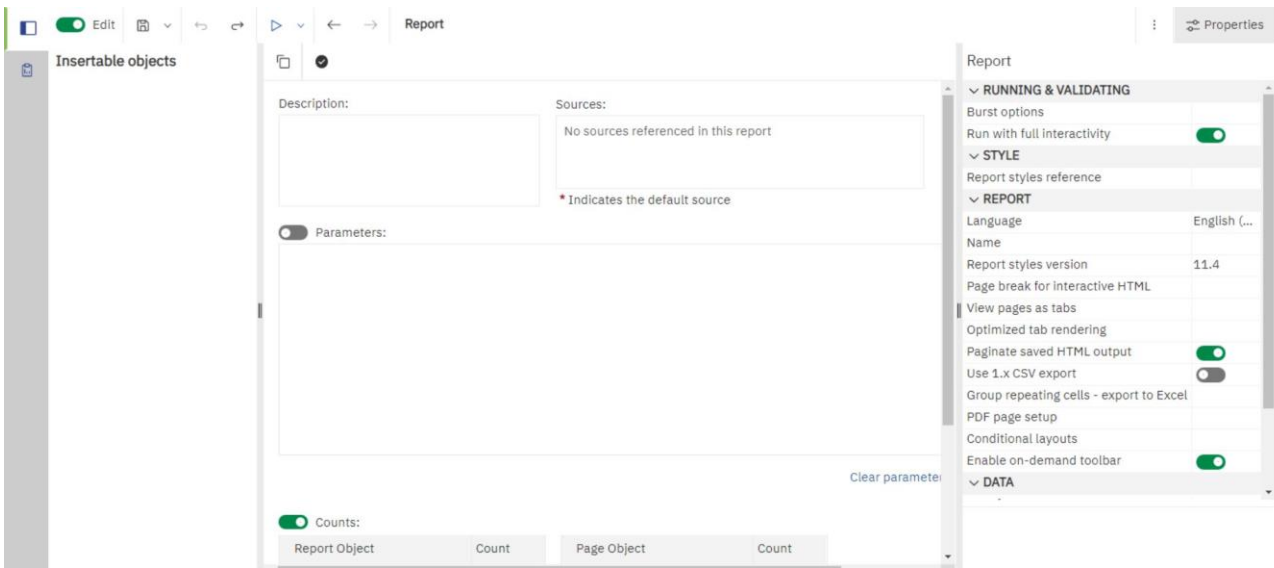



Figure 301 - Report overview pane - Validate report

7.1.6 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.

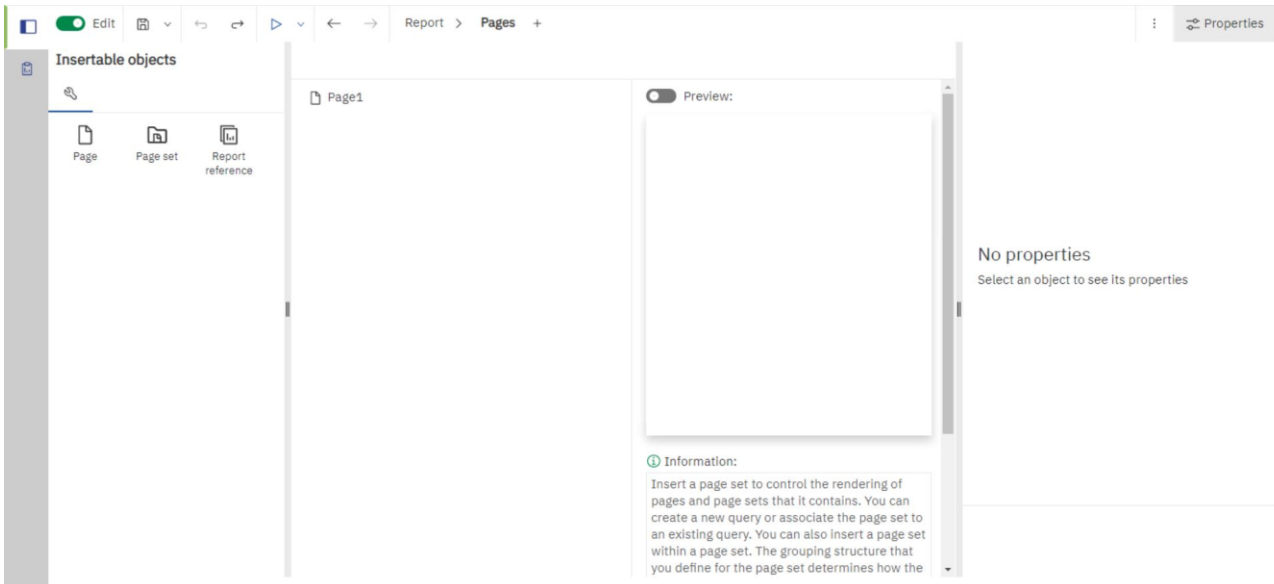



Figure 302 - Pages pane

7.1.7 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.

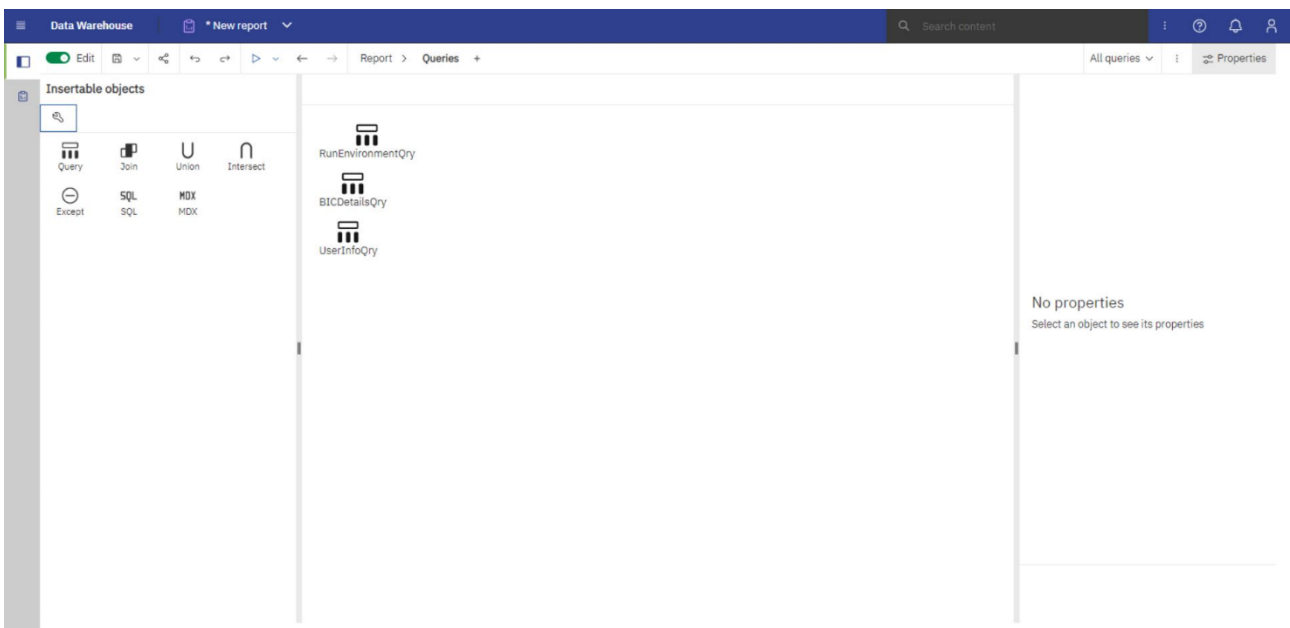



Figure 303 - Queries pane

7.1.8 Classes pane

Click on “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.

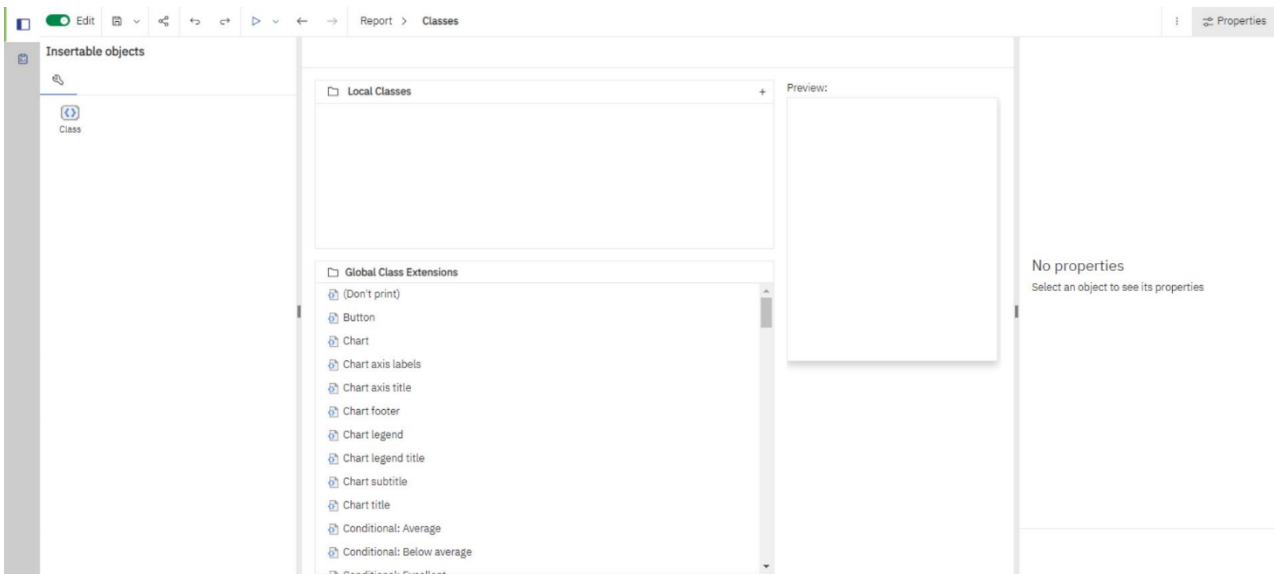



Figure 304 - Classes pane

7.1.9 Variables pane

Click on **“Variables”** ( Variables) to add a variable that has values in a different language, values as strings, and values in Boolean.

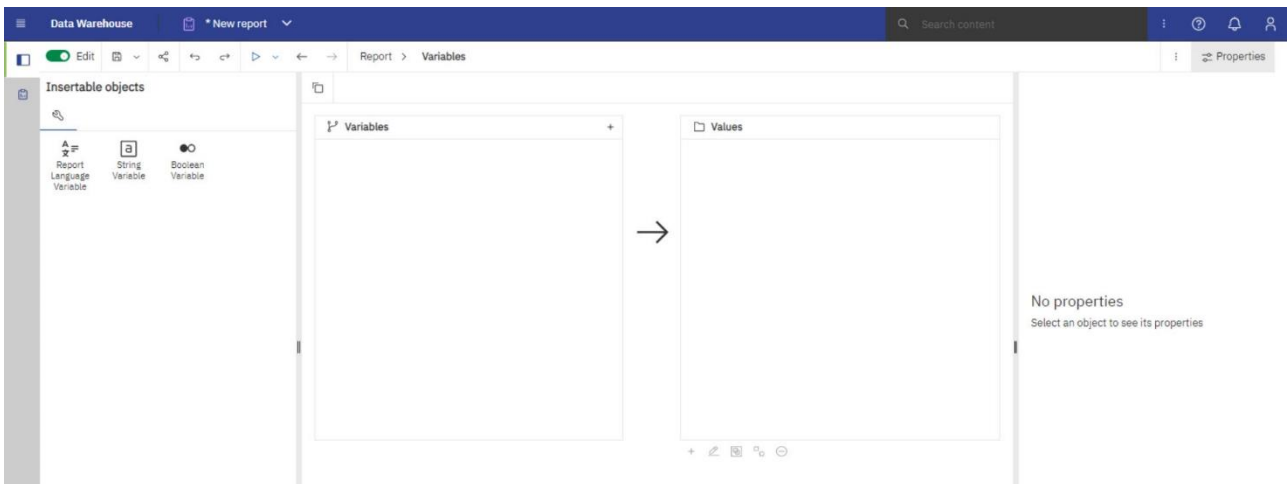



Figure 305 - Variables pane

7.1.10 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.

7.1.11 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:

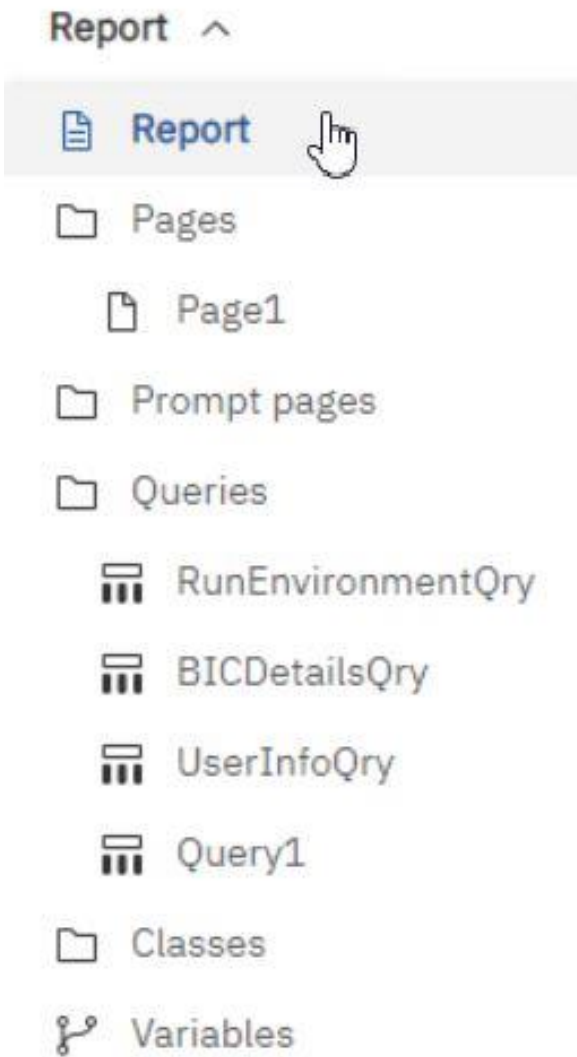


Figure 306 - Properties pane - Report level

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

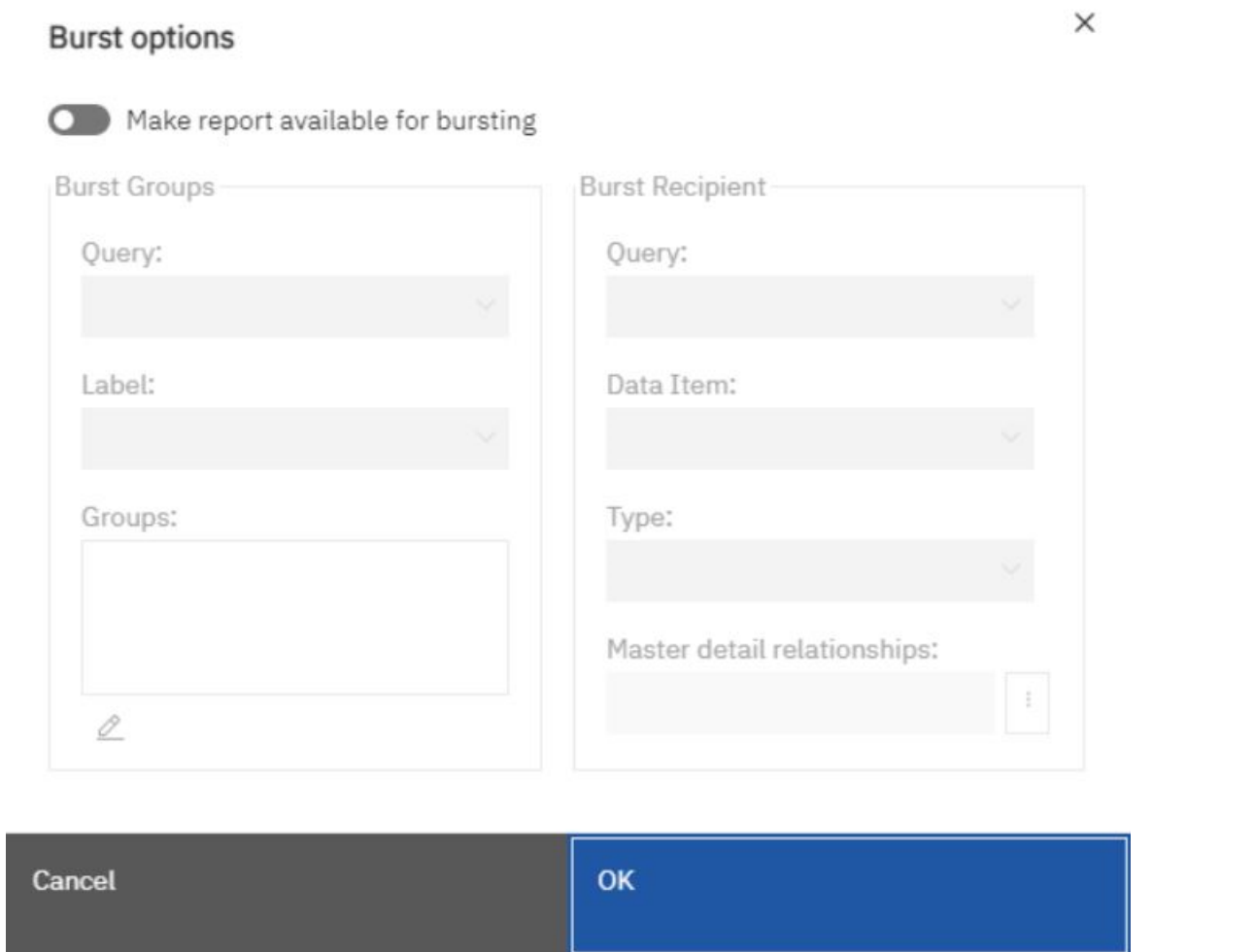




Figure 307 - Properties pane - Report level – Burst options (2)

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.

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 between 1.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.

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.

7.2 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.

7.2.1 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.

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.

- I Identify horizontal bands of information.

Look for natural bands of information running across the page. Each of these bands typically translates into a block.

- I 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.

- I Decide which data frames to use to lay out the data.

Choose a list, crosstab, chart, repeater, or text frame.

- I 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.

- I 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.

7.2.1.1 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 available. To view the report in a different way, select at the right of the top Page design and then click “**Page structure**”.

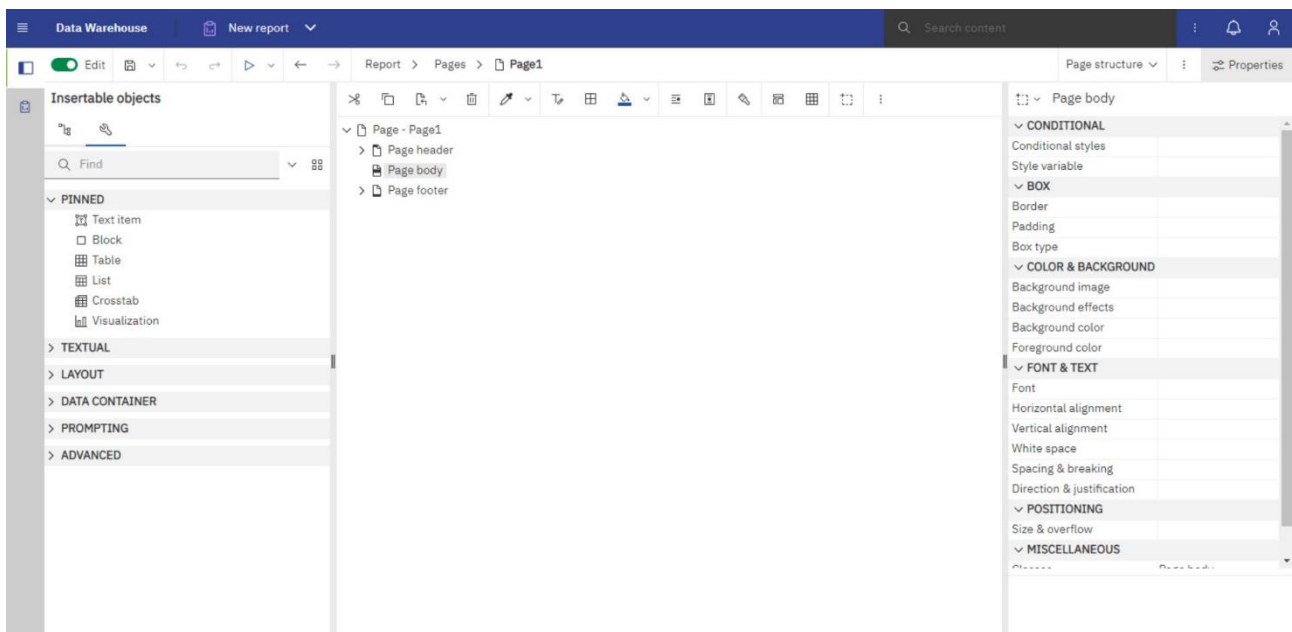


Figure 308 - The user interface - Report Layout, queries and objects - Layout - Page structure

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.

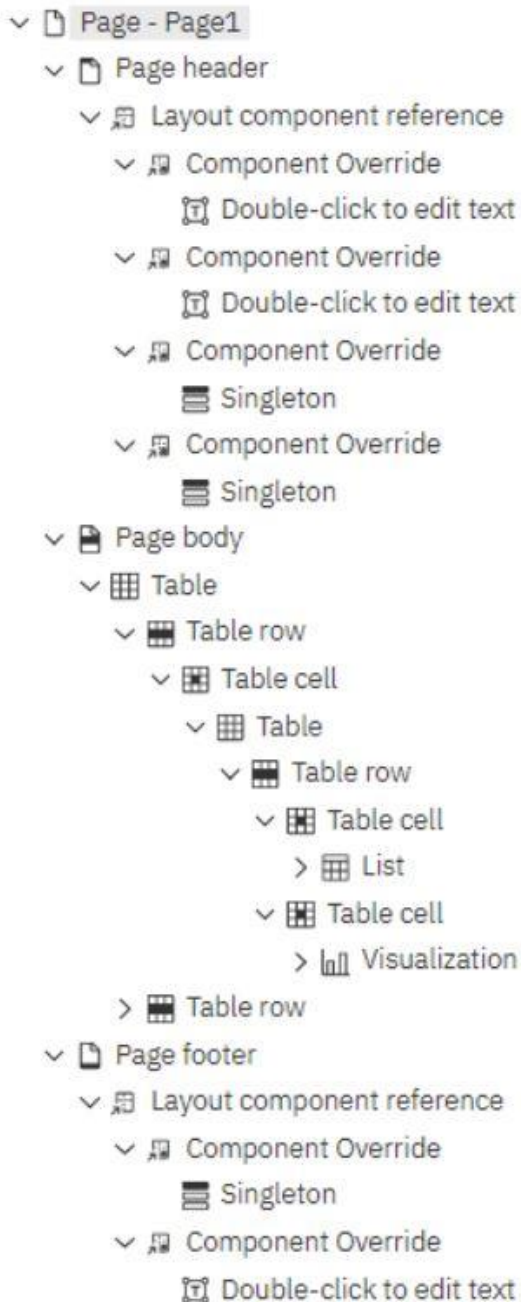


Figure 309 - The Function of the page structure view

Use the “**Page structure**” view:

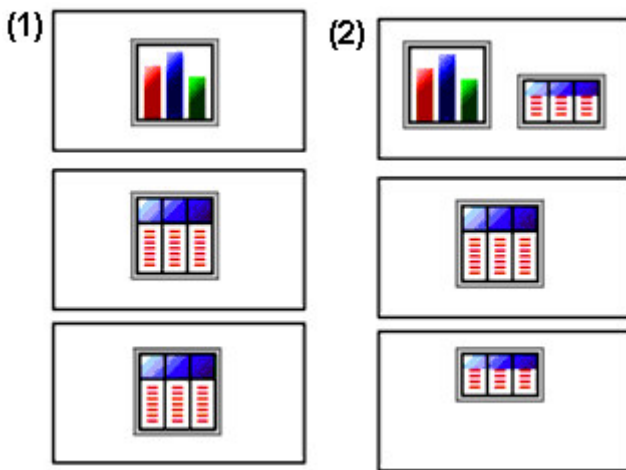
- | To quickly move objects from one area of a page to another. If you have a complex layout, it may be difficult to select, cut, and paste objects in the layout view. Objects are easier to locate in the “**Page structure**” view.
- | When you want to modify object properties, you can navigate to the layout or in the “**Page structure**” view. To switch back to the report layout, select “**Page design**” at the right of the top.

7.2.1.2 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.

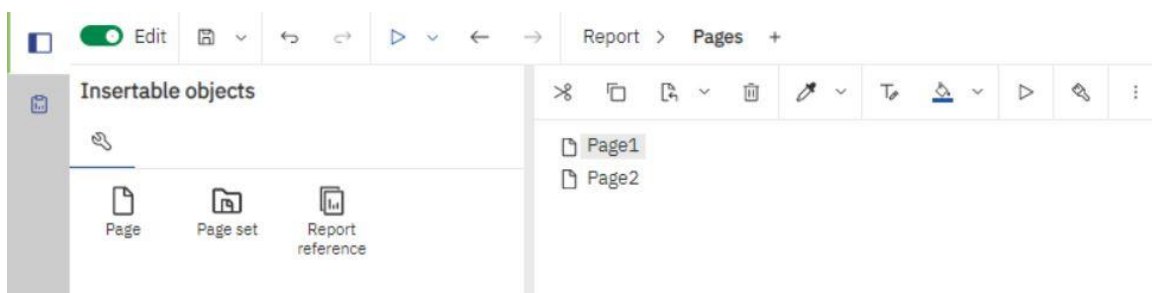


Figure 310 - Report Layout, queries and objects - Pages

It is necessarily to create two pages for this approach.

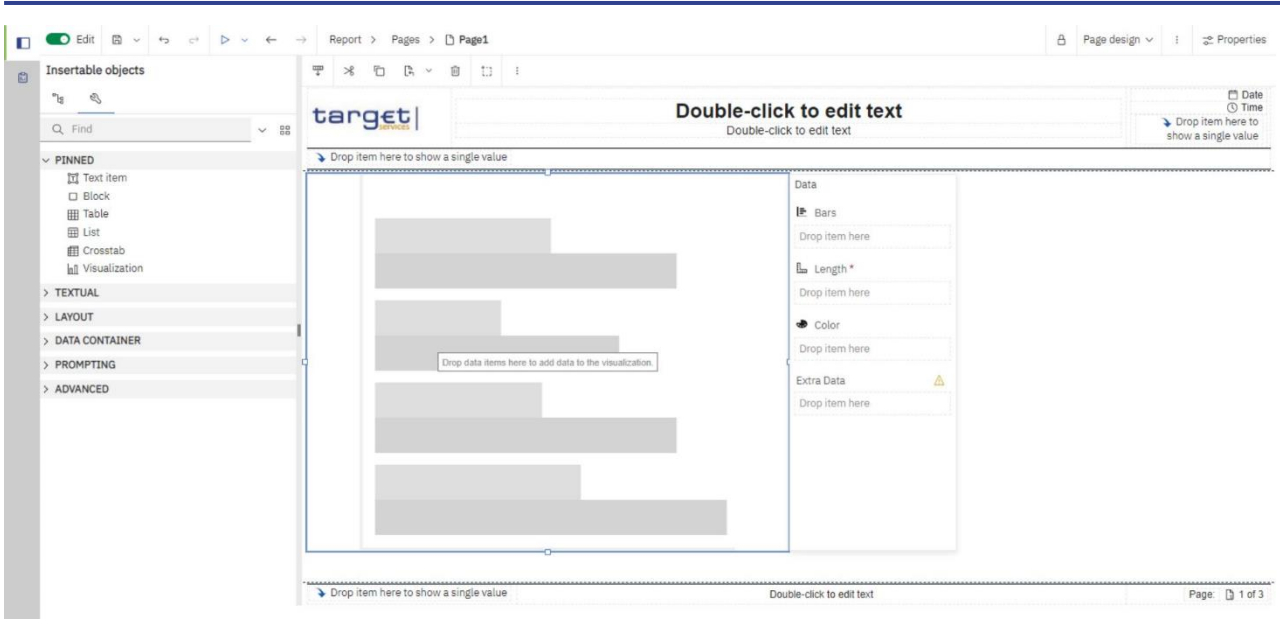


Figure 311 - Report Layout, queries and objects - Pages - First page

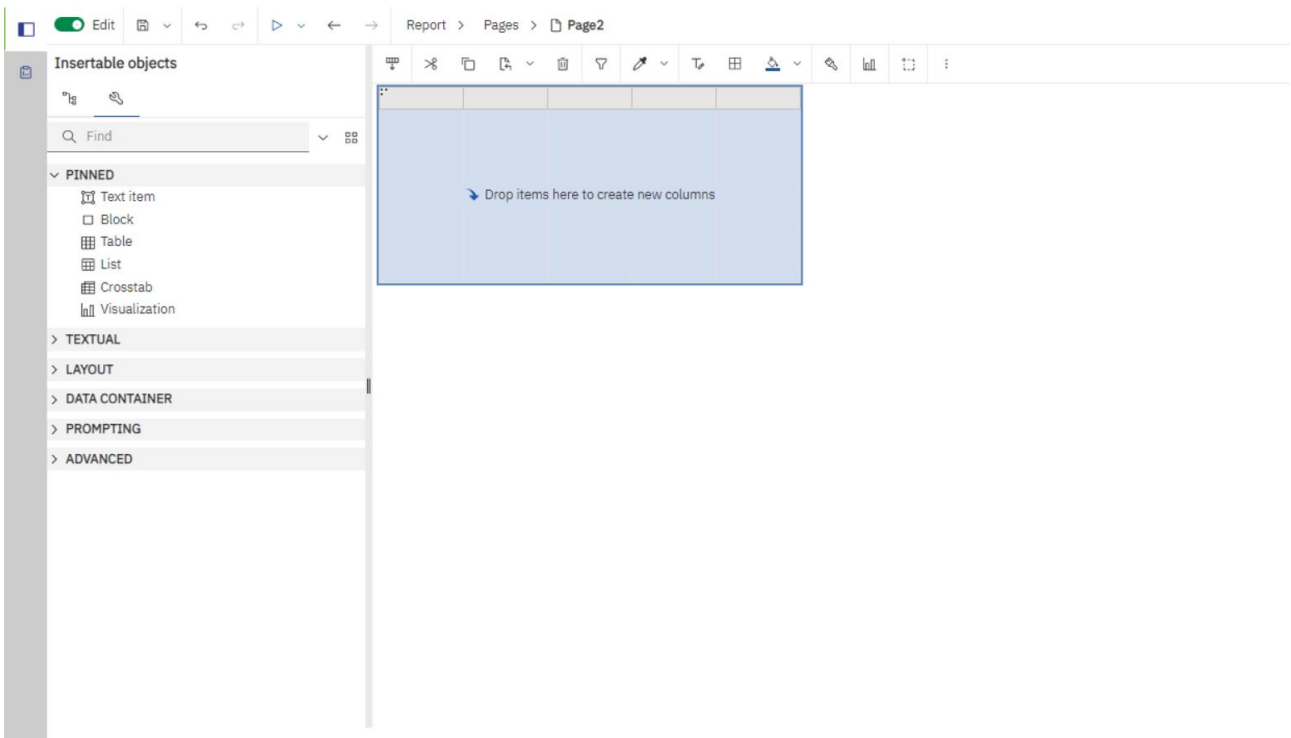


Figure 312 - Report Layout, queries and objects - Pages - Second page

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.

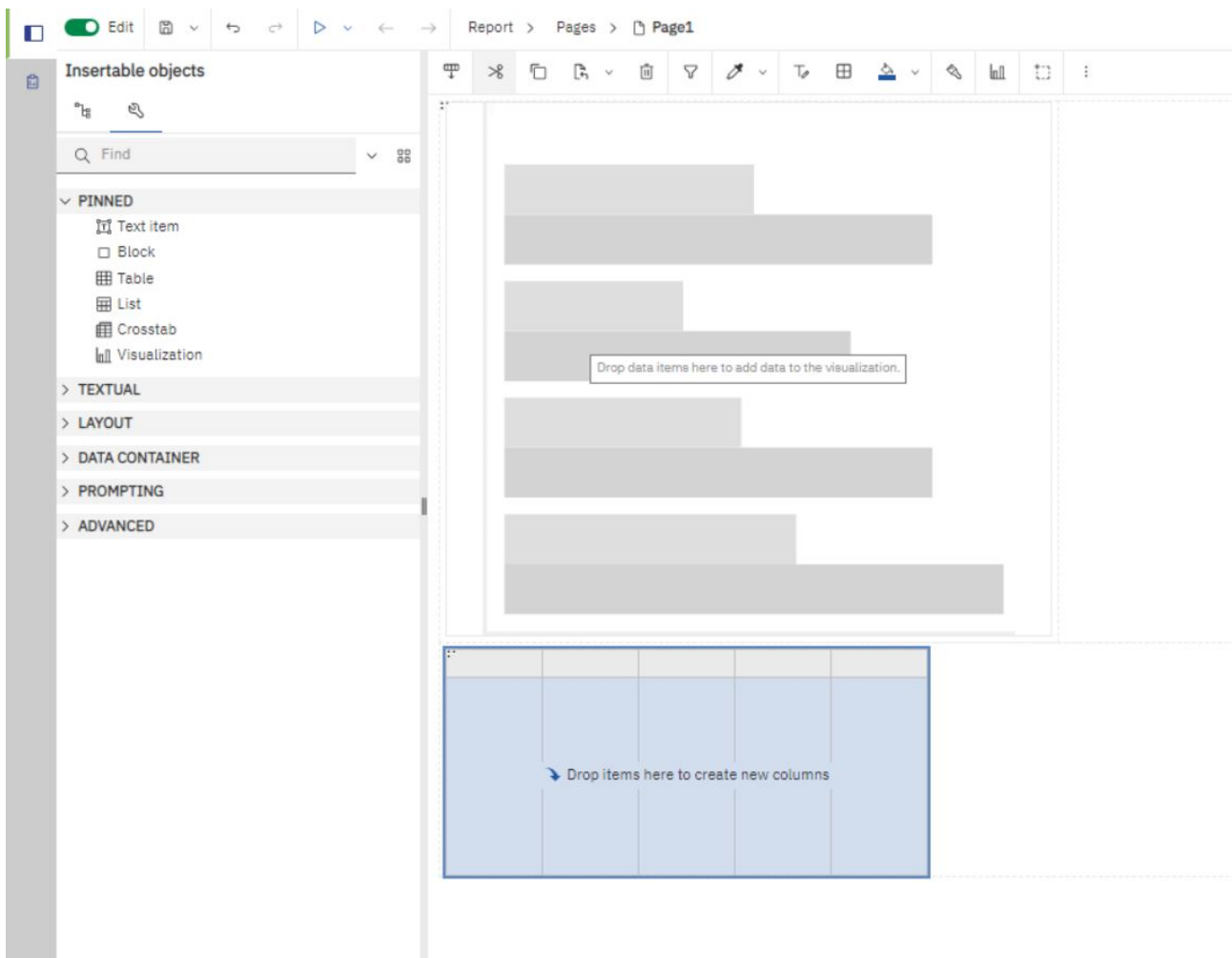


Figure 313 - Report Layout, queries and objects - Pages - Chart and first rows of the table on the first page

7.2.1.3 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 label 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.

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 (), and then click on the Report tab.

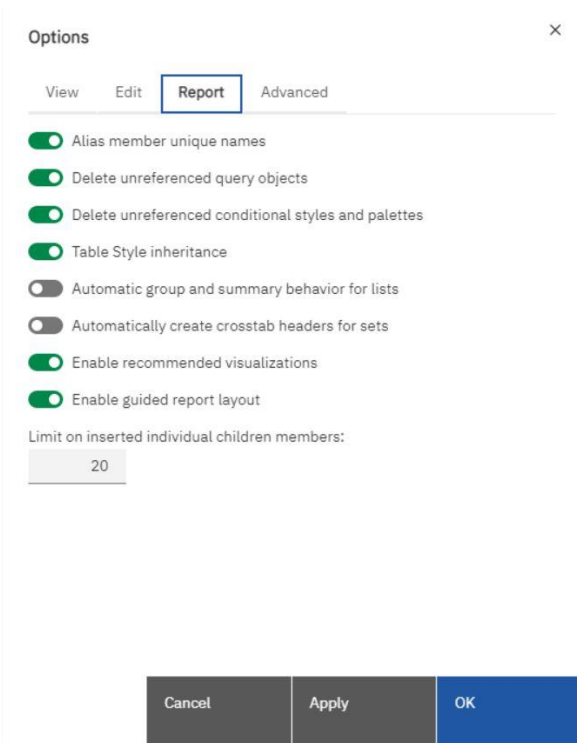


Figure 314 - Guided Report Layout - More icon - Options - Report

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.

7.2.1.4 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.

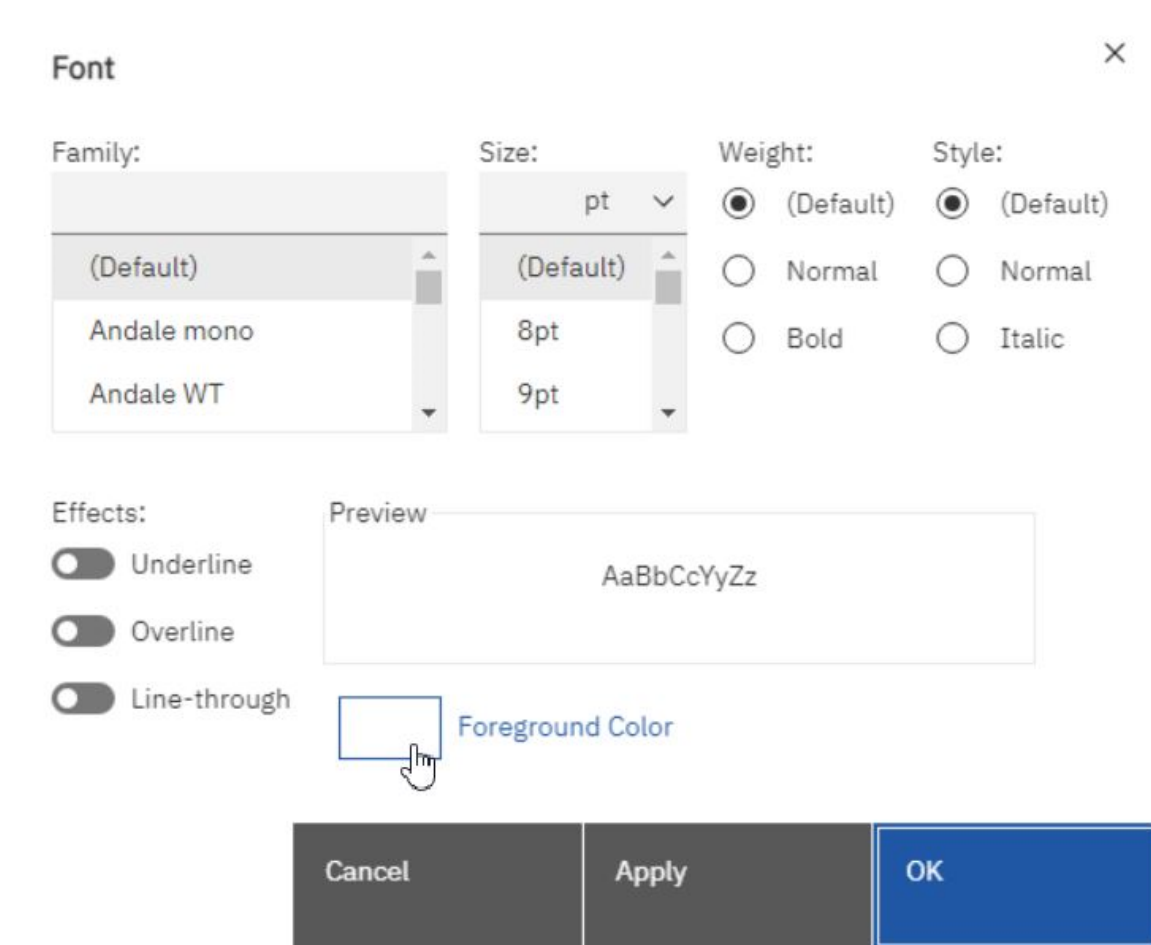


Figure 315 - Specify the font for a report - Font icon - Foreground Color

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.

7.2.2 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.

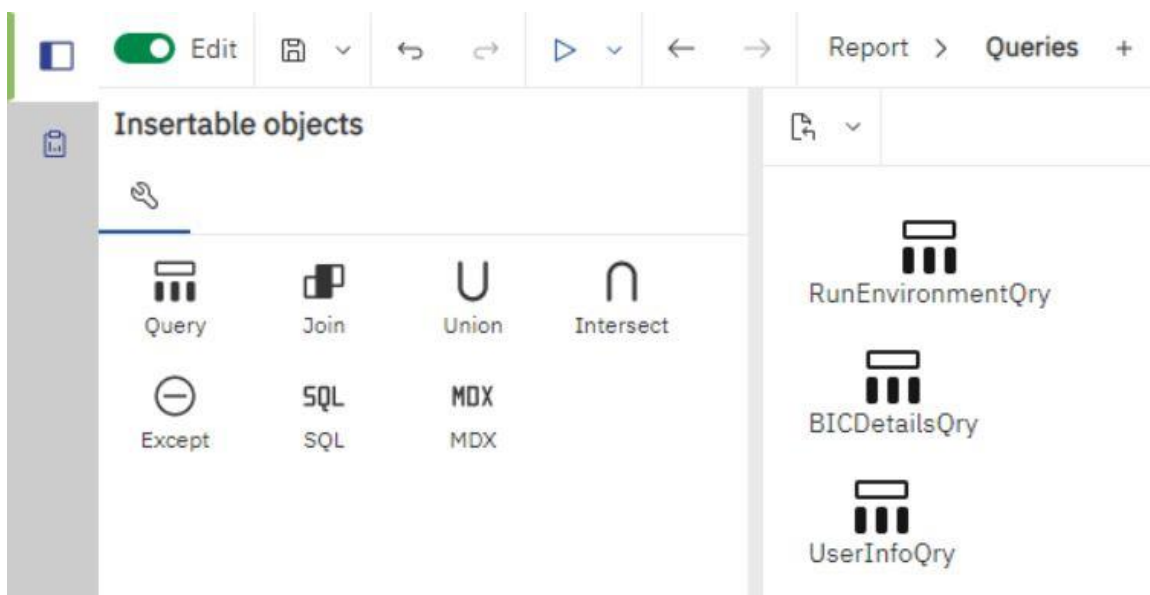


Figure 316 - Queries - Query example of Eurosystem2 template

7.2.3 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.

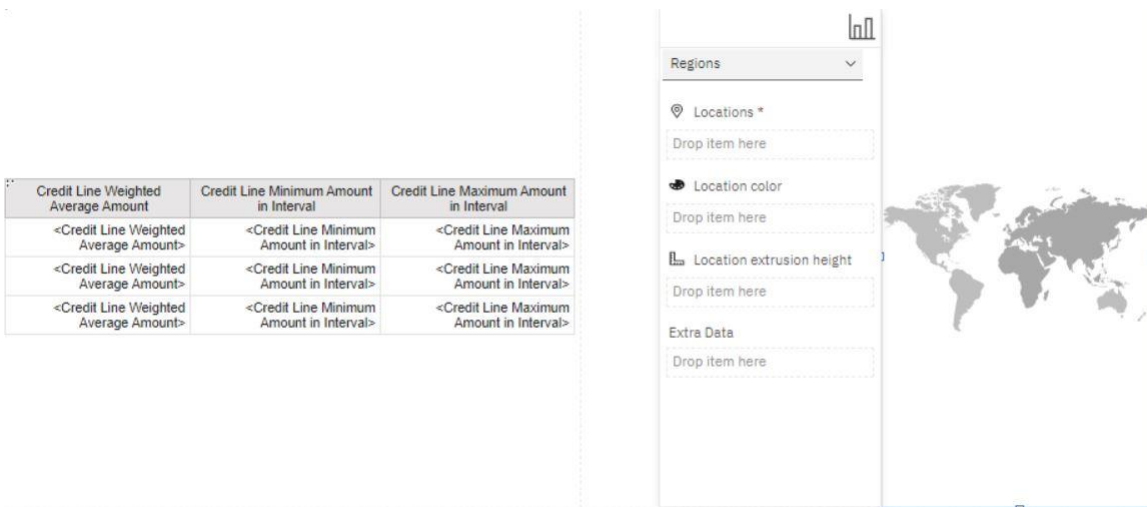


Figure 317 - Report objects - Insert map and list in a cell of table

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

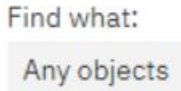

In DWH - Reporting, objects are organized hierarchically. For example, a list contains list columns, and each list column contains a text item, which is the name of the inserted data item.

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 because the formatting is applied to the list and is therefore applied to the objects in the list. If you apply formatting 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**”:

- I Click the “**More**” icon ().
- I Click “**Find**” ( Find...).

- I Click "Find what" () and choose the type of object to find.
- I 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.

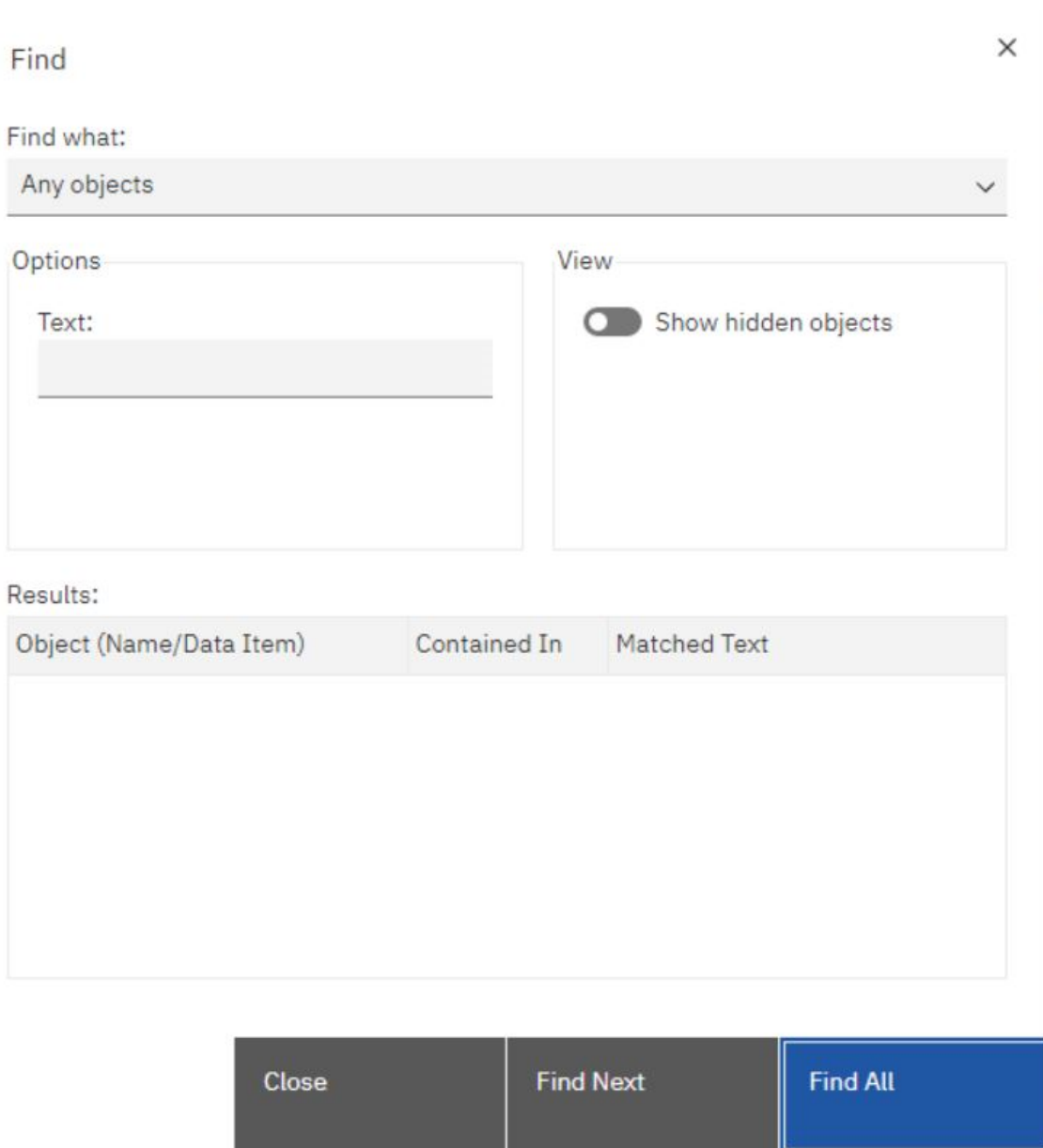

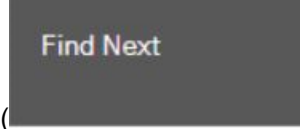
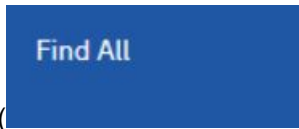


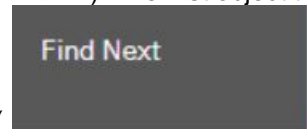
Figure 318 - Report objects - Find - Find objects in the query

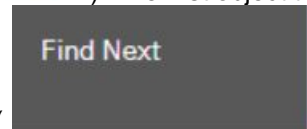
- To search for objects that are hidden in the report, in the “**View**” box ( Show hidden objects), select the Show hidden objects check box.



- 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.

7.2.3.1 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.

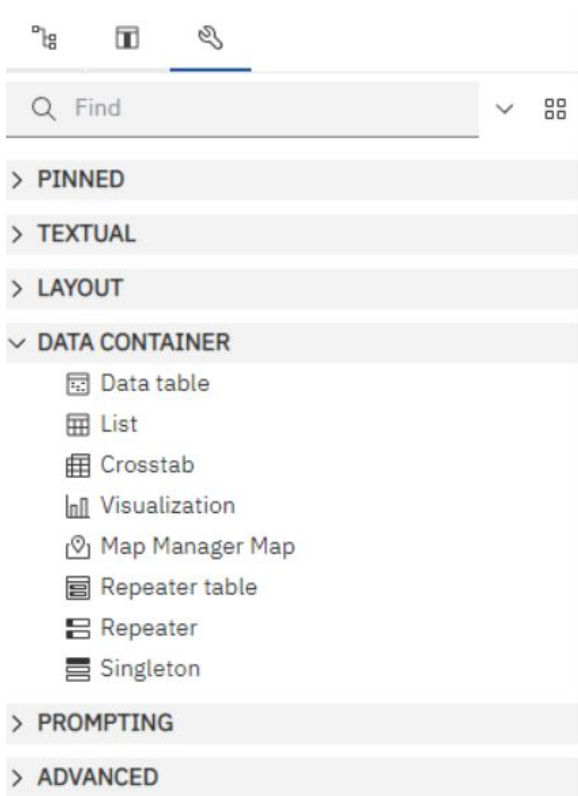


Figure 319 - Report objects - Mostly Used Objects - Data container - List

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

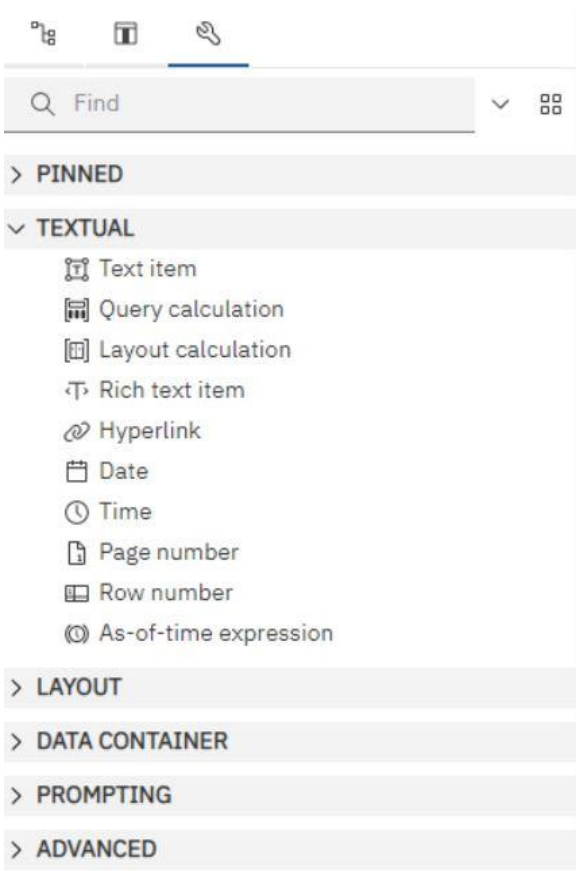


Figure 320 - Report objects - Mostly Used Objects - Textual

Block

Add a block to hold text or other information. Blocks are often used to lay out horizontal bands of information.

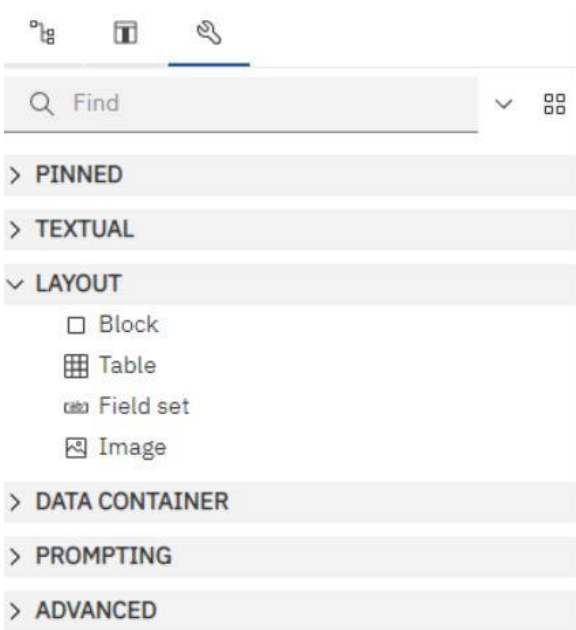


Figure 321 - Report objects - Mostly Used Objects - Layout

(See Block)

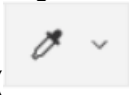
7.2.3.2 Copy object formatting

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.

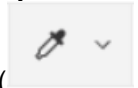
- I Click an item that has the formatting to copy.
- I Do one of the following:
 - To copy all the formatting applied to the item, from the object toolbar, click the **“Pick up style”** icon (

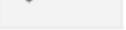


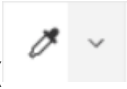

), by clicking on the down arrow to the right, click the item to format, and then click the

“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 ().

- I 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.

7.2.3.3 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 ().

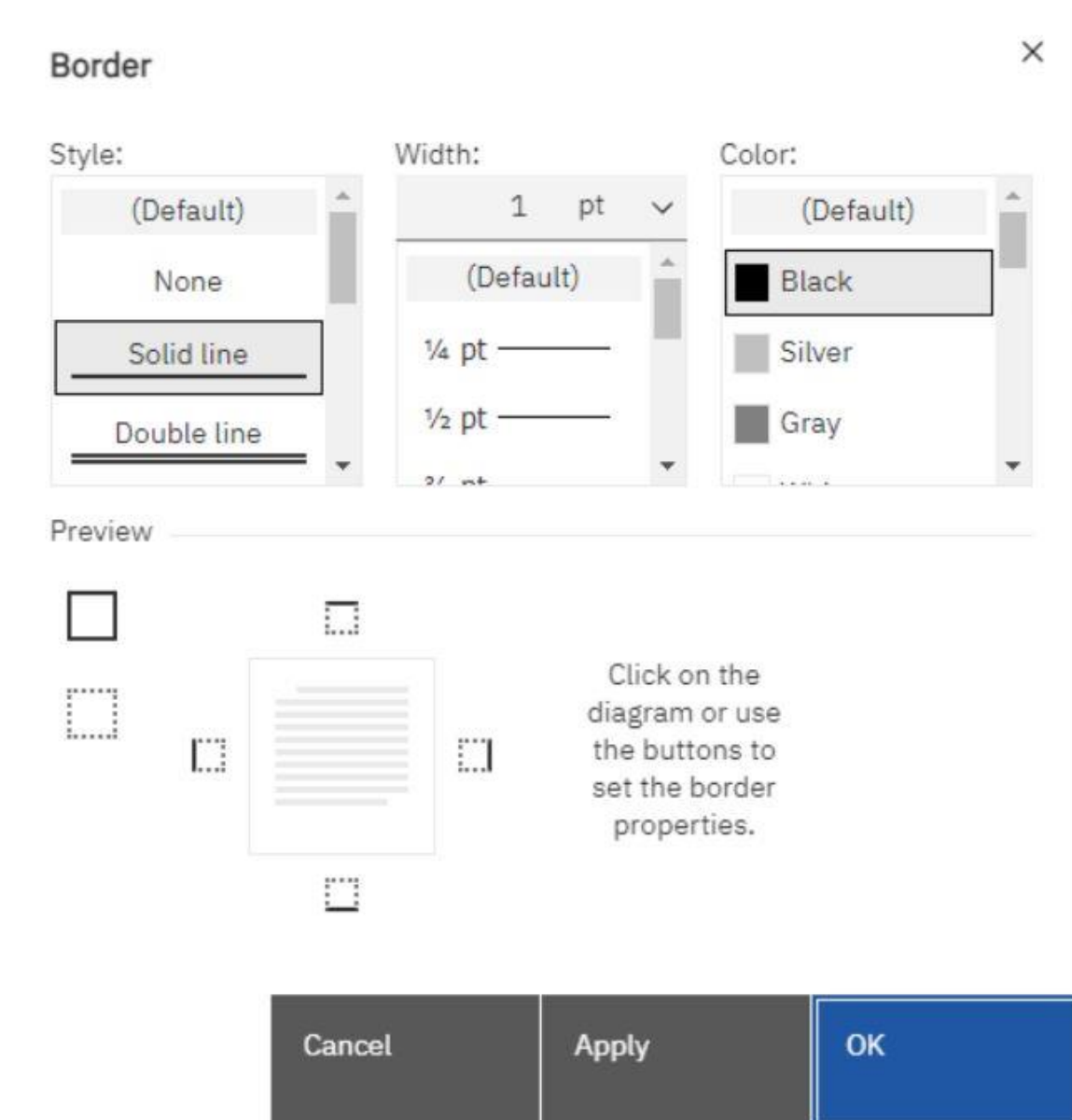




Figure 322 - Report objects - Add borders to a formatting object

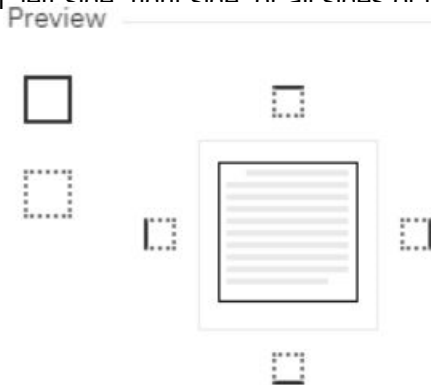
- Alternatively click on the object to which to add a border.
To quickly select the parent of an object, click the object, and then click the **“Select ancestor”** icon select () in the title bar of the Properties pane.

▼ BOX

- In the Properties pane, double-click the **“Border”** property () 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 ().

7.3 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.


7.3.1 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.

7.3.2 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.

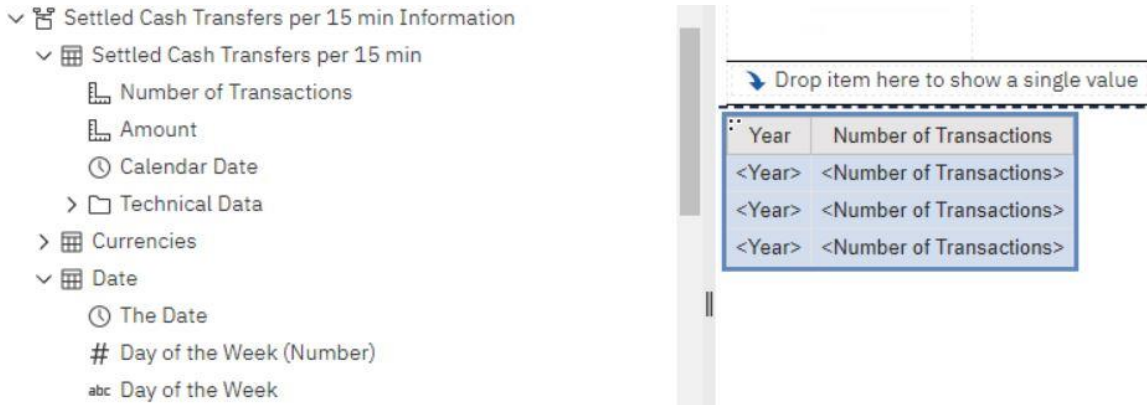


Figure 323 - Relational reporting style - Dimensional data

7.3.3 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.

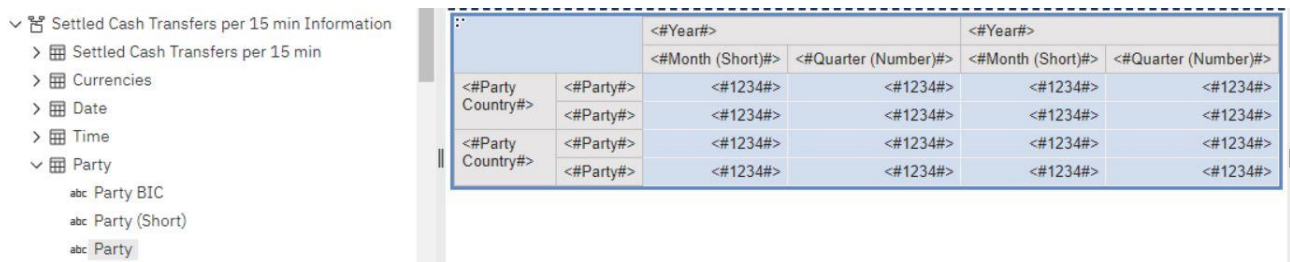


Figure 324 - Dimensional reporting style - Dimensional data (2)

7.3.4 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.

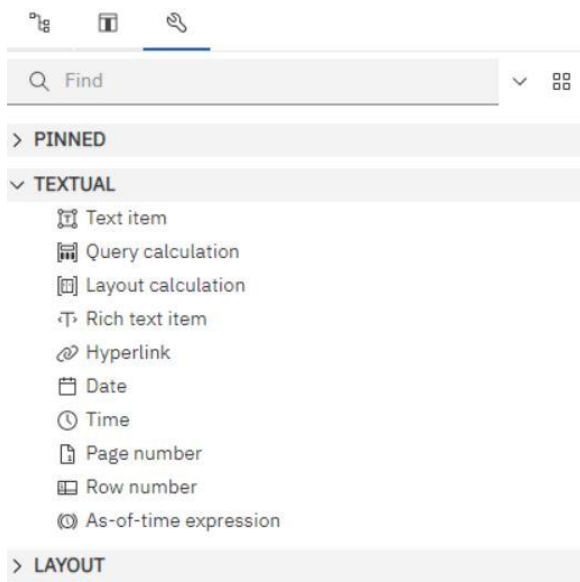


Figure 325 - Insert a Query Calculation

Data item expression - Data Item1

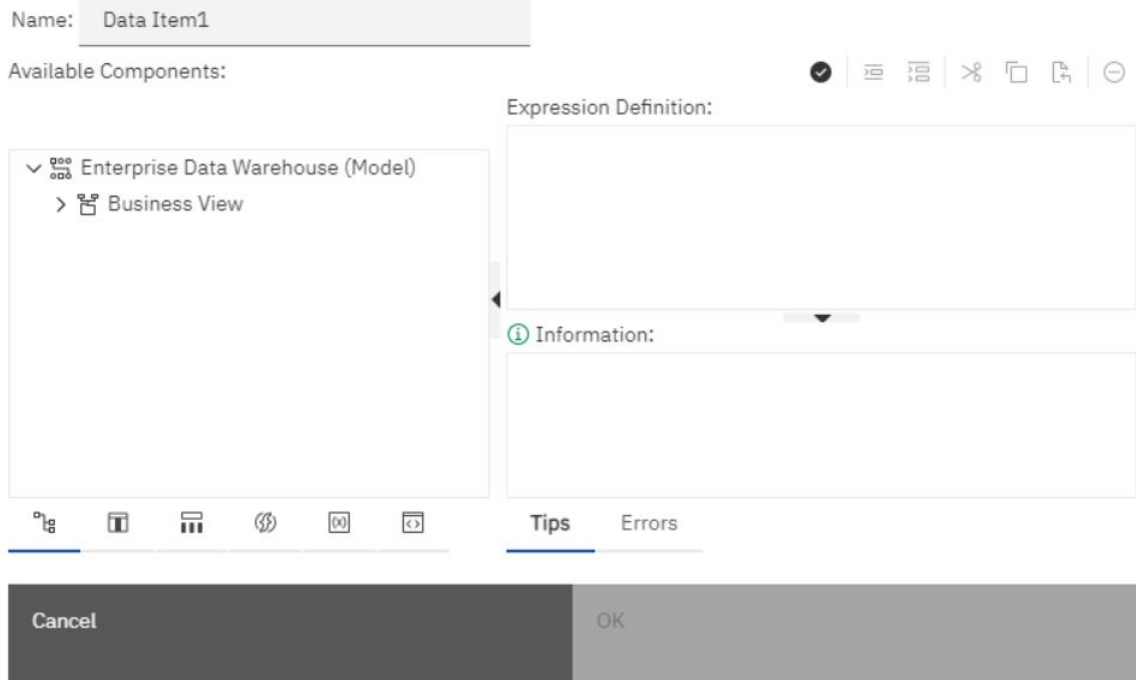


Figure 326 - Insert a Query Calculation - Specify Query Calculation

- 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.

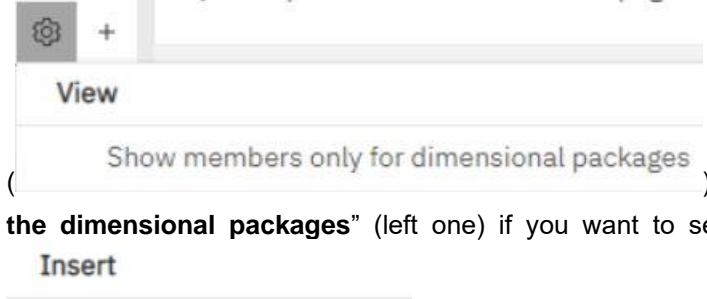
Name: Data Item1

- 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 then select “Show members only for the dimensional packages” (left one) if you want to select only one item or the “Insert” button (

- Individual members
- Create sets

) 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.

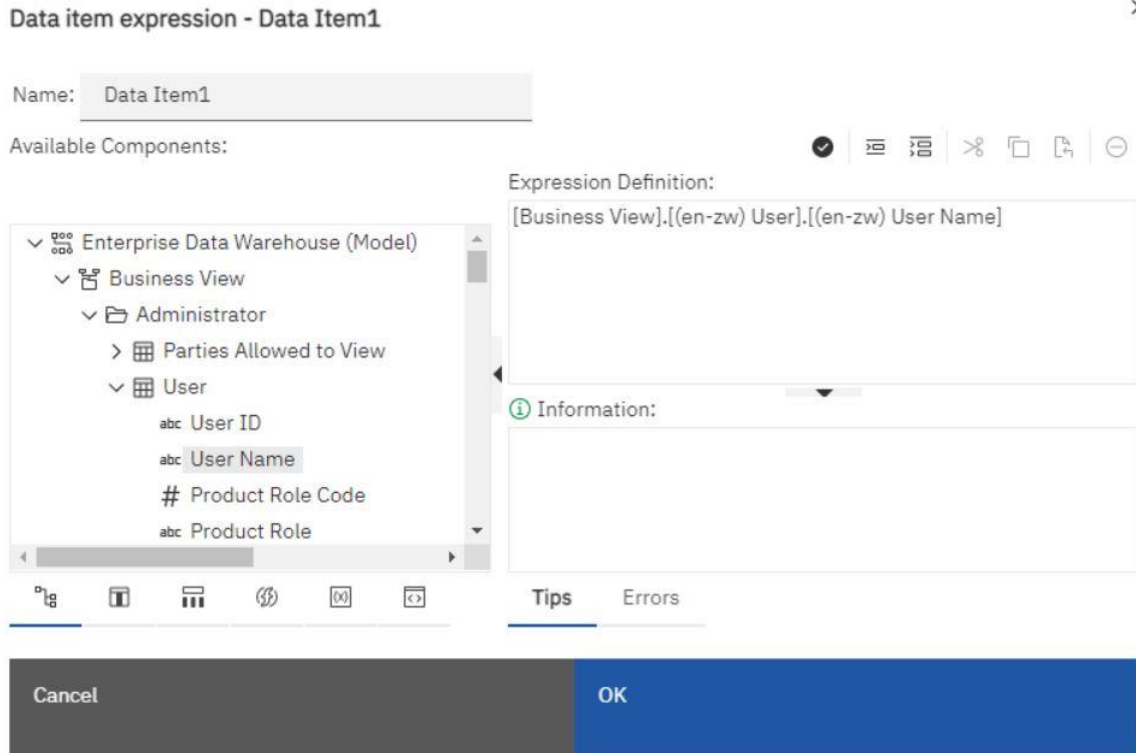






Figure 327 - Insert a Query Calculation - Specify Query Calculation - Data items

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

- 1 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 ().

7.3.4.1 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:

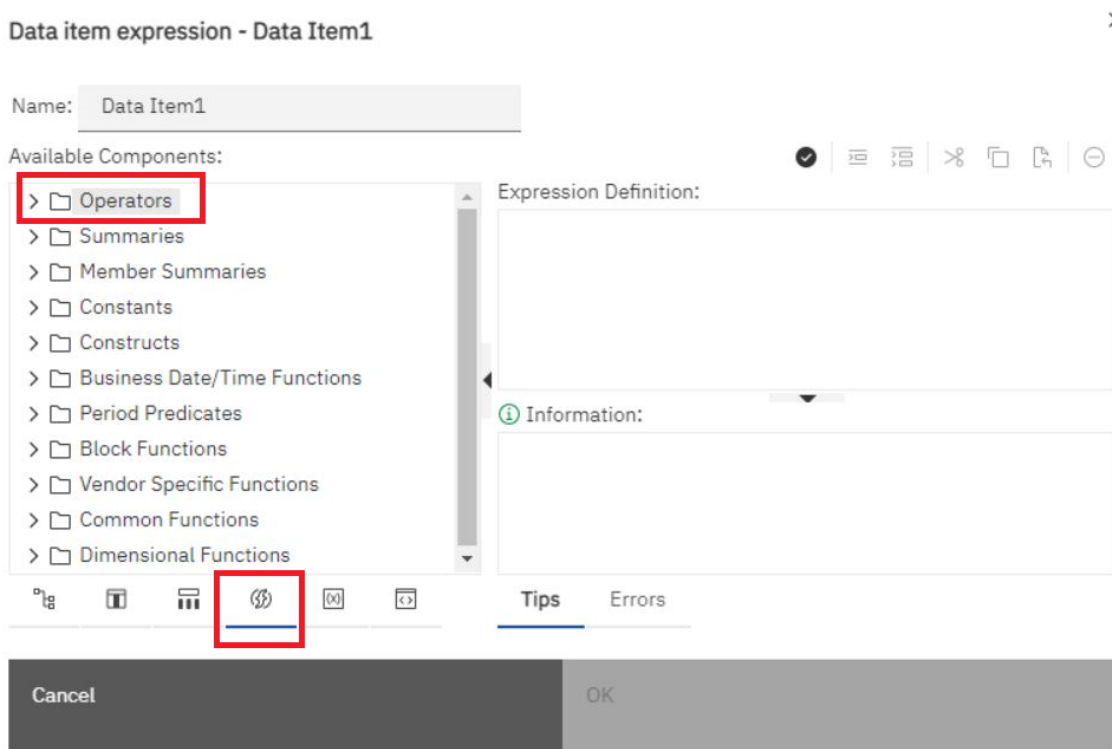


Figure 328 - Insert a Query Calculation - Operators

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.

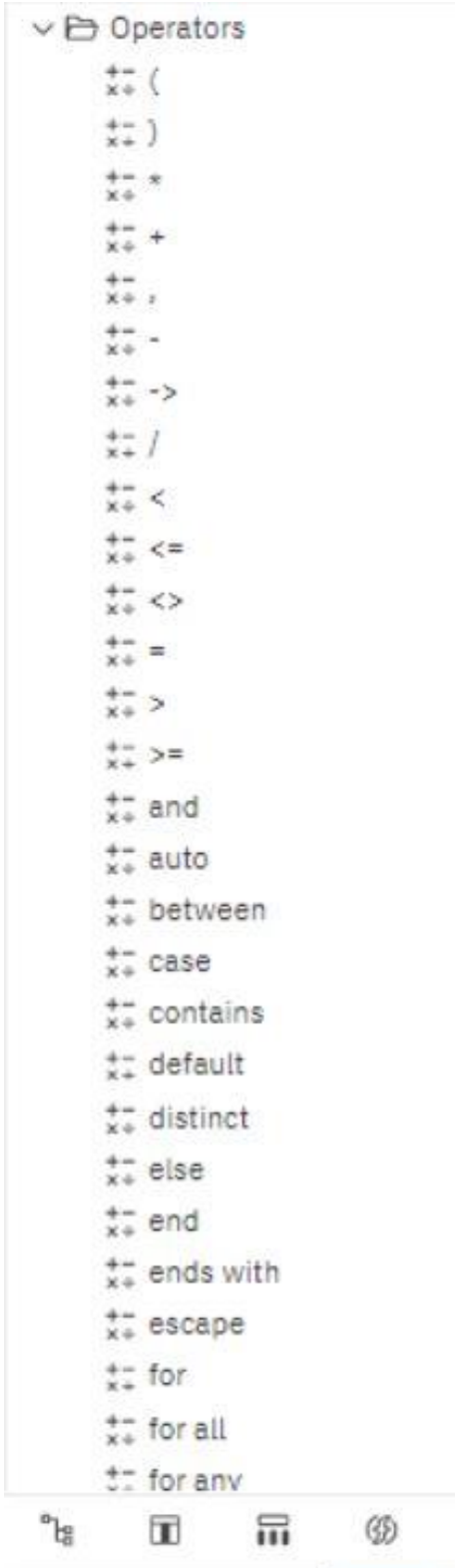


Figure 329 - Insert a Query Calculation - Operators - Function tab

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 330 - Insert a Query Calculation - Searching the string

That is the result:

Party (Short)	Flag
Æro 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
Bågå 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 331 - 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:

```

CASE
WHEN [(en-zw) Parties - Cash Accounts - Other Info].[(en-zw) Parties].[(en-zw) Party (Short)] like '%Ban__%'
THEN 1
ELSE 0
END

```

Figure 332 - 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 333 - 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:

Data item expression - Flag



Name: Flag

Available Components:



- Enterprise Data Warehouse (Model)
 - Business View

Expression Definition:

```

CASE
WHEN [(en-zw) Parties - Cash Accounts - Other Info].[en-zw) Parties].[en-zw) Party (Short)] like '%Ban__%'
THEN 1
ELSE 0
END
    
```

Information:

string1 LIKE string2 [ESCAPE char]
 Determines if "string1" matches the pattern of "string2", with the character "char" optionally used to escape characters in the pattern string. This syntax supports both metacharacters: The percent sign (%) represents zero, one or multiple characters, and the underscore sign () represents any character.



Tips Errors

Cancel OK

Figure 334 - Insert a Query Calculation - Data item expression - Tips tab – Information

The “**contain**” function, can also be found under “**Operators**” folder in “**Functions**” tab:

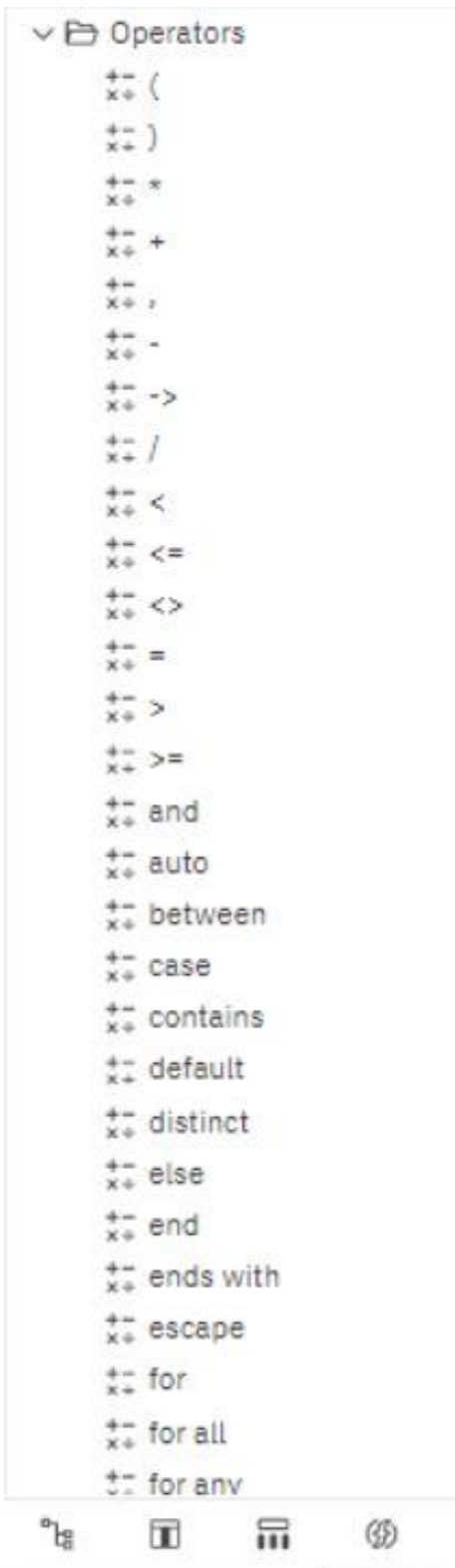


Figure 335 - Insert a Query Calculation - Operators

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 336 - Insert a Query Calculation - Searching the string - Different context than the “like” function

That would be the result:

Party (Short)	Flag
Æro 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
Bågå 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 337 - 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**”

Data item expression - Flag

Name: Flag

Available Components:

- Enterprise Data Warehouse (Model)
 - Business View

Expression Definition:

```
CASE
WHEN [(en-zw) Parties - Cash Accounts - Other Info].[(en-zw) Parties].[(en-zw) Party (Short)] contains literal 'Bank_'
THEN 1
ELSE 0
END
```

Information:

string1 contains [LITERAL] string2
Determines if "string1" contains "string2". This syntax supports both metacharacters: The percent sign (%) represents zero, one or multiple characters, and the underscore sign (_) represents any character. The optional LITERAL keyword indicates how '%' and '_' are interpreted. When the LITERAL keyword is present, '%' and '_' are not to be treated as metacharacters (see Example 3 and 5). Otherwise, in the absence of the LITERAL keyword, '%' and '_' behave as metacharacters (see Example 1, 2 and 4).

Example 1: [PRODUCT_LINE] contains 'door'

Tips Errors

Cancel OK

Figure 338 - 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

Data item expression - Flag

Name: Flag

Available Components:

- Enterprise Data Warehouse (Model)
 - Business View

Expression Definition:

```
CASE
WHEN [(en-zw) Parties - Cash Accounts - Other Info].[(en-zw) Parties].[(en-zw) Party (Short)] contains literal 'Bank_'
THEN 1
ELSE 0
END
```

Information:

string1 contains [LITERAL] string2
Determines if "string1" contains "string2". This syntax supports both metacharacters: The percent sign (%) represents zero, one or multiple characters, and the underscore sign (_) represents any character. The optional LITERAL keyword indicates how '%' and '_' are interpreted. When the LITERAL keyword is present, '%' and '_' are not to be treated as metacharacters (see Example 3 and 5). Otherwise, in the absence of the LITERAL keyword, '%' and '_' behave as metacharacters (see Example 1, 2 and 4).

Example 1: [PRODUCT_LINE] contains 'door'

Tips Errors

Cancel OK

Figure 339 - Insert a Query Calculation - Data item expression - Tips tab - Information - Literal (2)

Summarize Functions:



Figure 340 - 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.

Member Summaries:

- ▼  Member Summaries
 -  aggregate
 -  average
 -  count
 -  maximum
 -  median
 -  minimum
 -  percentage
 -  percentile
 -  quantile
 -  quartile
 -  rank
 -  standard-deviation
 -  total
 -  variance

Figure 341 - 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.

Constants:



Figure 342 - 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.

Constructs:

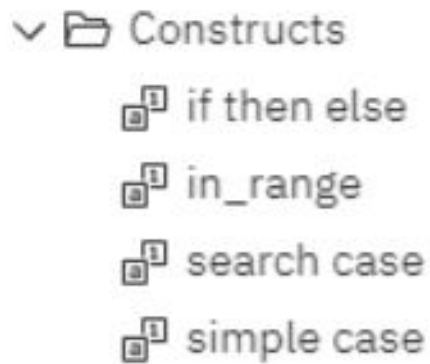


Figure 343 - Insert a Query Calculation - Constructs

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 344 - 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.

Period Predicates:

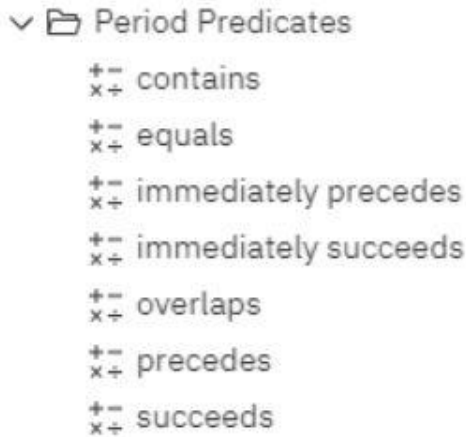


Figure 345 - Insert a Query Calculation - Period Predicates

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:

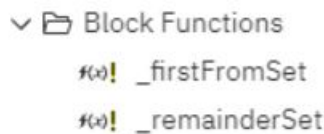






















Figure 346 - Insert a Query Calculation - Block Functions

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.

Common functions:

- ▼  Common Functions
 - ▼  A-C
 -  abs
 -  cast
 -  ceil
 -  ceiling
 -  char_length
 -  character_length
 -  coalesce
 -  current_date
 -  current_time
 -  current_timestamp
 - ▼  D-G
 -  exp
 -  extract
 -  floor
 - ▼  H-L
 -  ln
 -  localtime
 -  localtimestamp
 -  lower

- #() mod
 - #() nullif
 - #() occurrences_regex
 - #(!) octet_length
 - #(!) period
 - #() position
 - #() position_regex
 - #() power
 - #() _round
 - #() random
 - #() row
 - #() sqrt
 - #() substring
 - #() substring_regex
 - #(!) trim
 - #() upper
 - #() width-bucket
 - #() arccos
 - #() arcsin
 - #() arctan
 - #() cos
 - #() coshyp
 - #() sin

Figure 347 - 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:



- ▼  Dimensional Functions
 - ▼  A-C
 - #0! ancestor
 - #0! ancestors
 - #0! bottomCount
 - #0! bottomPercent
 - #0! bottomSum
 - #0! caption
 - #0! children
 - #0! closingPeriod
 - #0! cousin
 - >  Advanced
 - ▼  D-G
 - #0! defaultMember
 - #0! descendants
 - #0! except
 - #0! filter
 - #0! firstChild
 - #0! firstSibling
 - >  Advanced
 - ▼  H-L
 - #0! head
 - #0! hierarchize
 - #0! hierarchy
 - #0! intersect
 - #0! item








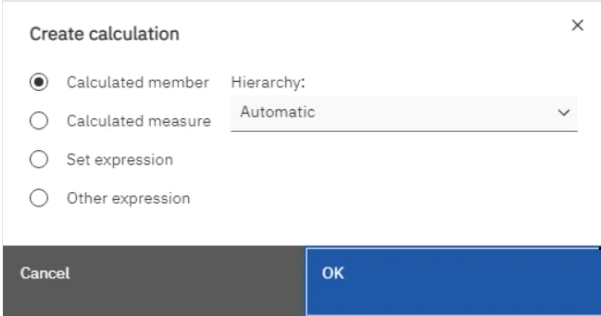
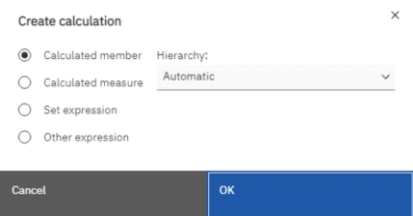
Figure 348 - Insert a Query Calculation - Dimensional Functions

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.

7.3.5 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.


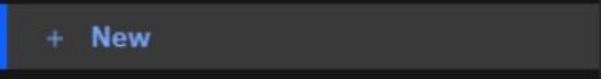

Item	Relational reporting	Dimensional reporting									
Report type	<p>Lists</p> <p>Crosstabs pivoted from lists</p> <p>Charts created from lists</p> <p>Maps created from scratch or from lists</p>	<p>Crosstabs</p> <p>Charts created from scratch or from crosstabs</p> <p>Maps created from scratch or from crosstabs</p>									
Package tree	<p>In the “Source” tab () , click the “Options” icon () , and then click “Show members only for dimensional package”.</p> <p>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”</p> <div data-bbox="406 1034 869 1355"> <p>Settings</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Members <input checked="" type="checkbox"/> Levels <input checked="" type="checkbox"/> Members for each level <input checked="" type="checkbox"/> Member properties </div> <p>and</p> <p>“Members for each level”.</p> <div data-bbox="406 1438 869 1758"> <p>Settings</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Members <input checked="" type="checkbox"/> Levels <input checked="" type="checkbox"/> Members for each level <input checked="" type="checkbox"/> Member properties </div> <p>The view will include the following:</p> <ul style="list-style-type: none"> package folder namespace query subject 	<p>In the “Source” tab () , click the “Options” icon () , and then click “Show members only for dimensional package”.</p> <p>Ensure that the option “Create sets” is selected.</p> <div data-bbox="1021 958 1444 1299"> <table border="1"> <tr><td>View</td></tr> <tr><td><input type="checkbox"/> Show members only for dimensional packages</td></tr> <tr><td>Insert</td></tr> <tr><td><input type="checkbox"/> Individual members</td></tr> <tr><td><input checked="" type="radio"/> Create sets</td></tr> <tr><td>Member insert options</td></tr> <tr><td><input checked="" type="radio"/> Insert single member</td></tr> <tr><td><input type="checkbox"/> Insert children</td></tr> <tr><td><input type="checkbox"/> Insert member with children</td></tr> </table> </div> <p>The view will include the following:</p> <ul style="list-style-type: none"> package folder measure member named set 	View	<input type="checkbox"/> Show members only for dimensional packages	Insert	<input type="checkbox"/> Individual members	<input checked="" type="radio"/> Create sets	Member insert options	<input checked="" type="radio"/> Insert single member	<input type="checkbox"/> Insert children	<input type="checkbox"/> Insert member with children
View											
<input type="checkbox"/> Show members only for dimensional packages											
Insert											
<input type="checkbox"/> Individual members											
<input checked="" type="radio"/> Create sets											
Member insert options											
<input checked="" type="radio"/> Insert single member											
<input type="checkbox"/> Insert children											
<input type="checkbox"/> Insert member with children											

	<ul style="list-style-type: none"> query item measure level 	
Inserting data	<p>From the package tree, add query items or levels to the report.</p> <p>Avoid using hierarchies directly in the report.</p> <p>Avoid using named sets.</p>	<p>From the package tree, add sets of members to the report.</p> <p>You can also choose to insert just the member, just the children of the member, or the member and its children.</p>
Calculating data	<p>Add query calculations using only relational and common constructs.</p> <p>Choose only “Other expression”.</p> 	<p>Add query calculations using only dimensional and common constructs.</p> <p>Use “Other expression” only for value calculations.</p> <p>Avoid “Common functions”</p>  <p>that are marked with an exclamation mark (!) because they have limited support.</p>
Summarizing data	<p>Headers and footers in lists</p> <p>Crosstab member summaries; for example, aggregate within detail</p>	<p>Member set summaries; for example, aggregate within set</p>

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 94 - Guidelines for each reporting style

7.4 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.

7.4.1 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.

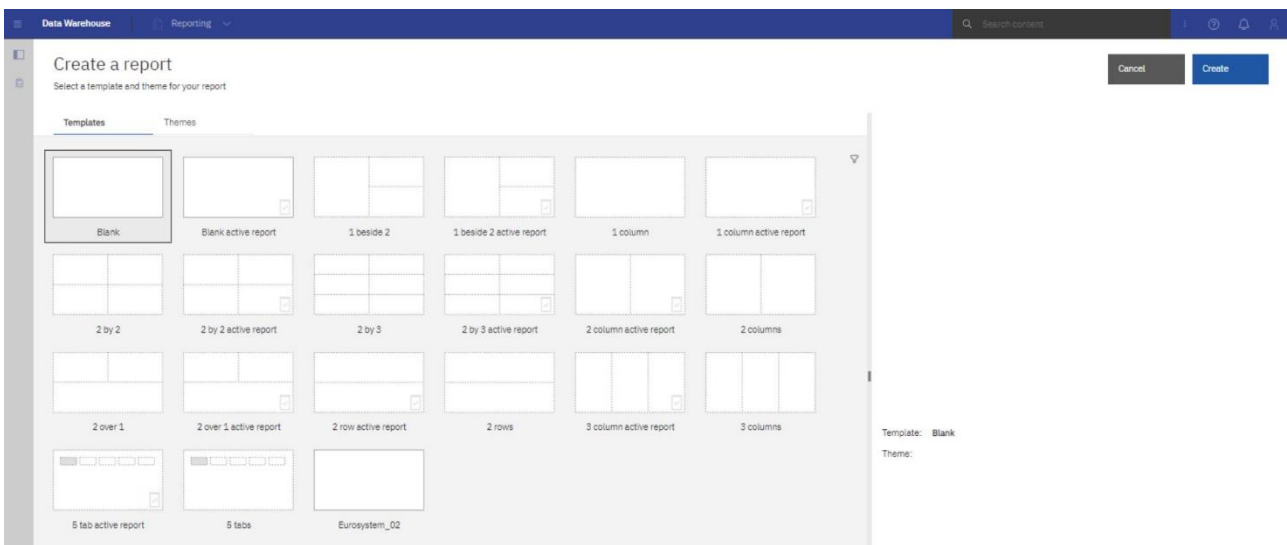


Figure 349 - Templates and themes - Templates

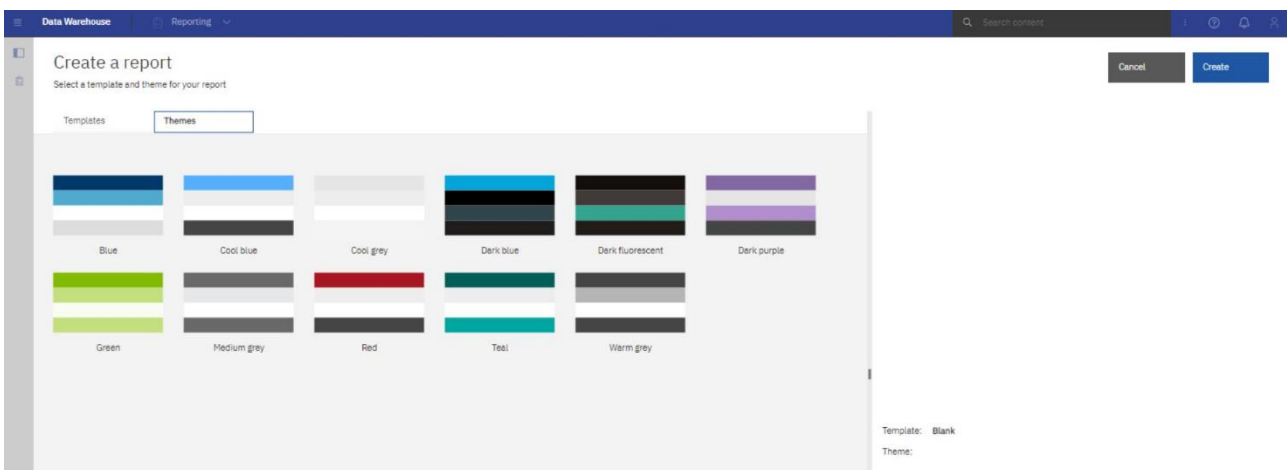


Figure 350 - Templates and themes - Themes

7.4.2 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”.

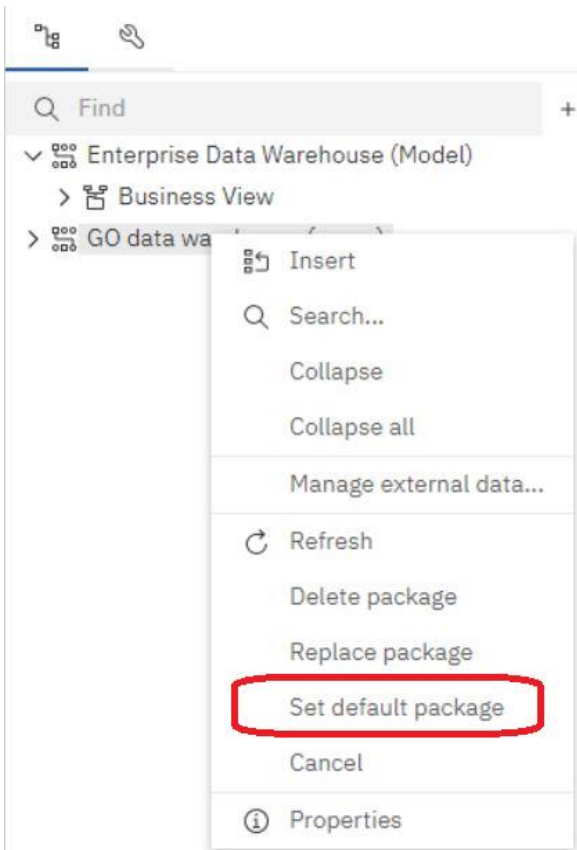


Figure 351 - Adding data - Add a source - Right click item - Set default package

To delete a package, right-click an item in the package and select “Delete package”.

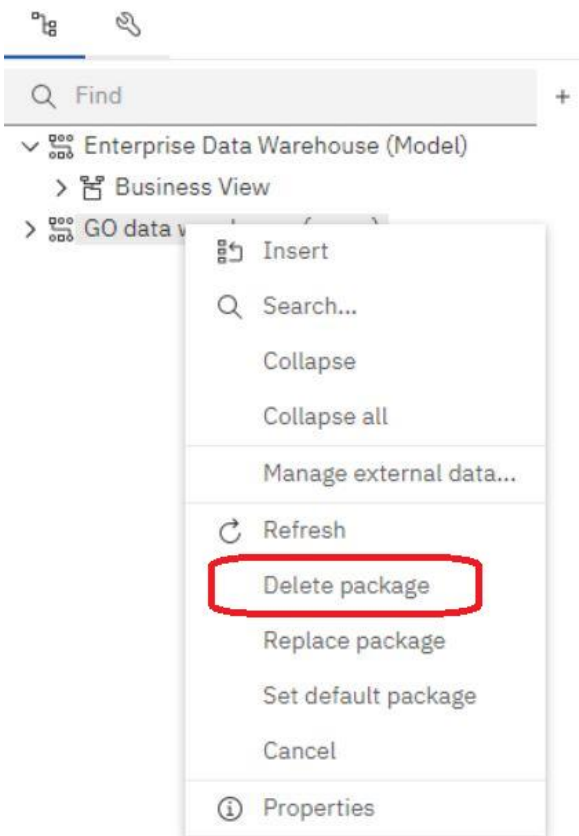


Figure 352 - Adding data - Add a source - Right click item - Delete package

To replace a package by another package, right-click an item in the package and select **“Replace package”**.

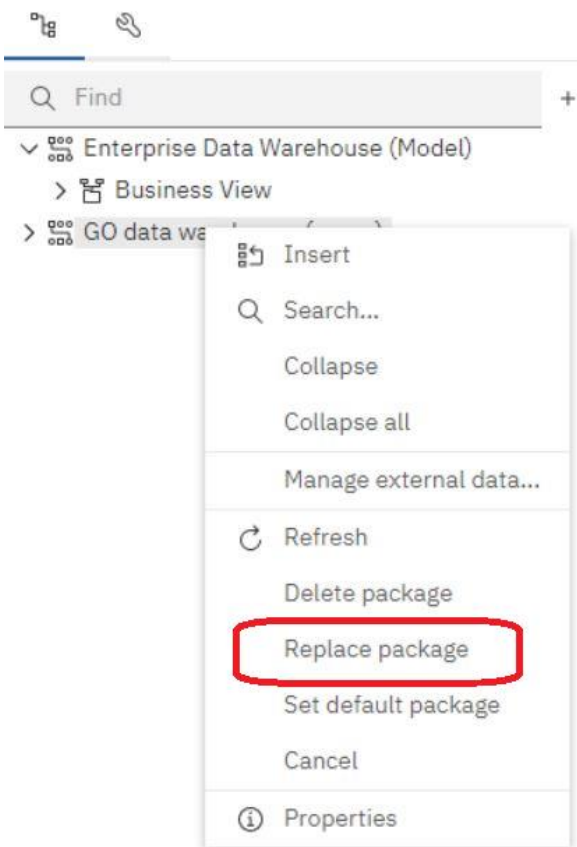


Figure 353 - Adding data - Add a source - Right click item - Replace package

If queries exist that use the package that you are replacing, model paths in the queries are updated to the new package.

7.4.3 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 delimited text (CSV) format.

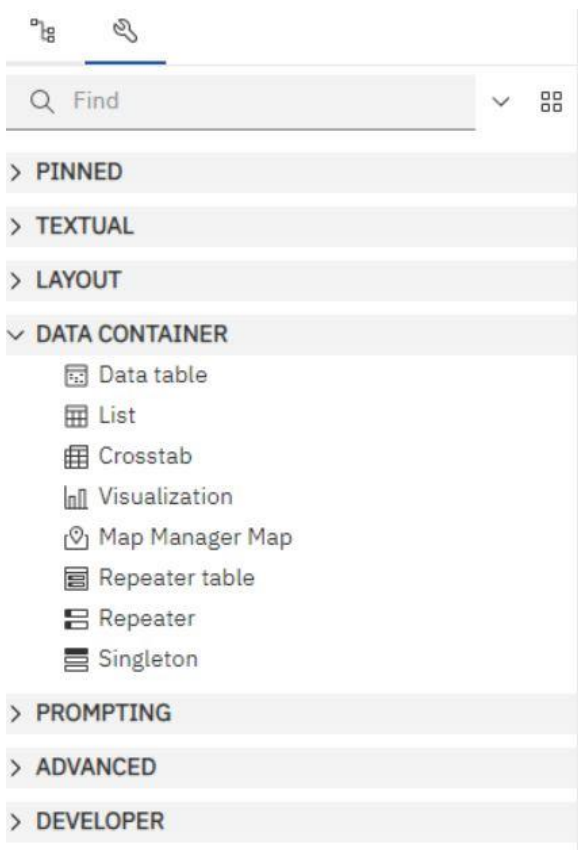



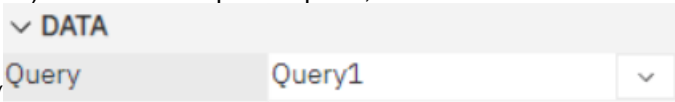


Figure 354 - Insert a single data item - Data container - Singleton

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 ().


7.4.4 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.

- I Click the **“More”** icon (), and click **“Validate”** Report ().
- I 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 95 - 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 ( **Interactive data**) 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

 **Dynamic query migration** box ().

- Revalidate your report.

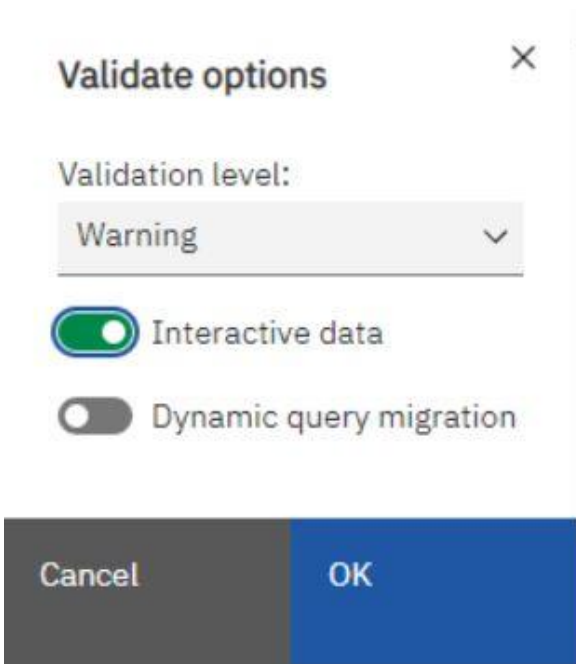


Figure 355 - Validate a report - Validate options

7.5 Options in Reporting

7.5.1 View Options

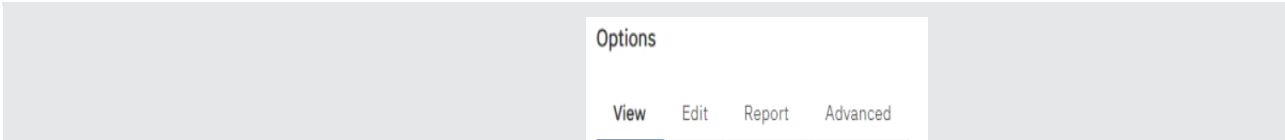
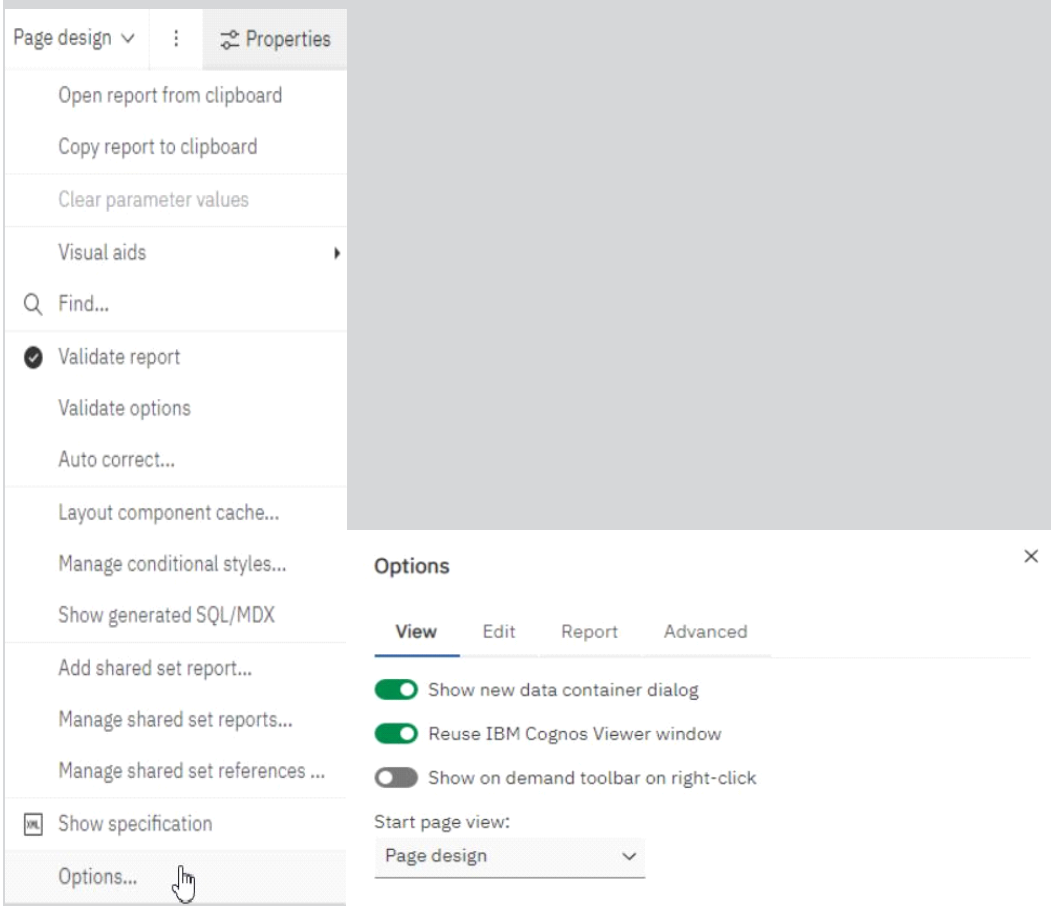


Table 1. Descriptions of the options on the “View” tab () of the “Options” window

Click the “More” icon (), and click “Options”.



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 96 - View Options

7.5.2 Edit Options

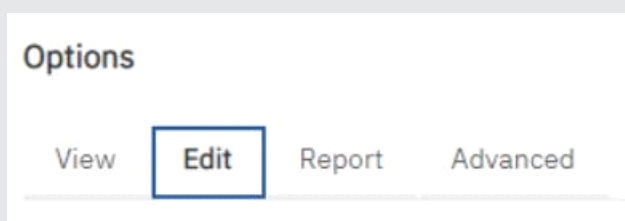
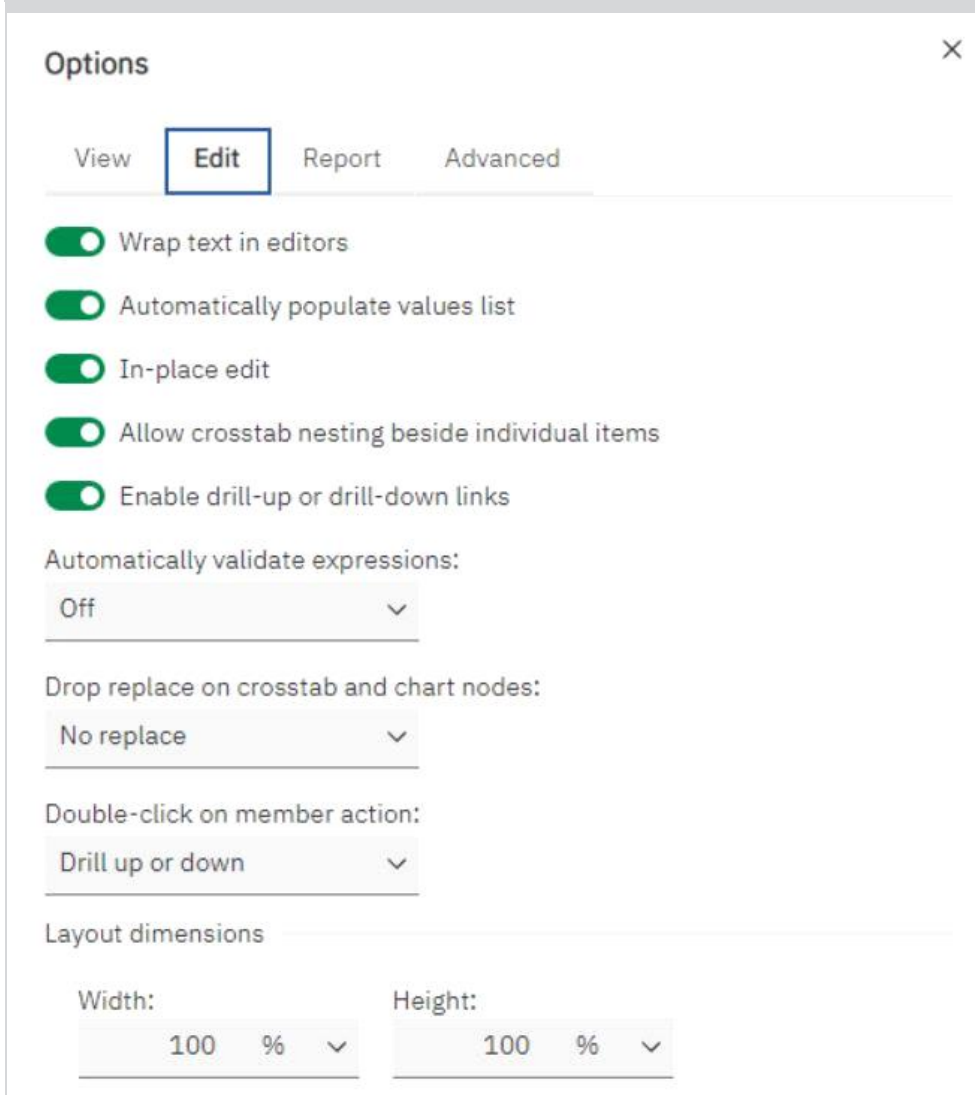


Table 2. Descriptions of the options on the "Edit" tab () of the "Options" window



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 97 - Edit Options

7.5.3 Report Options

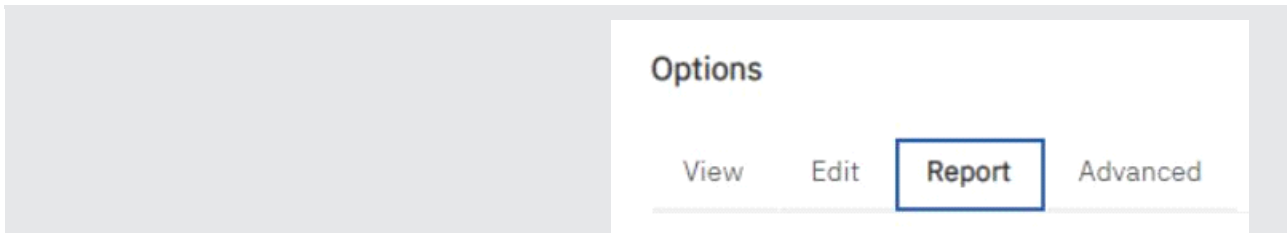
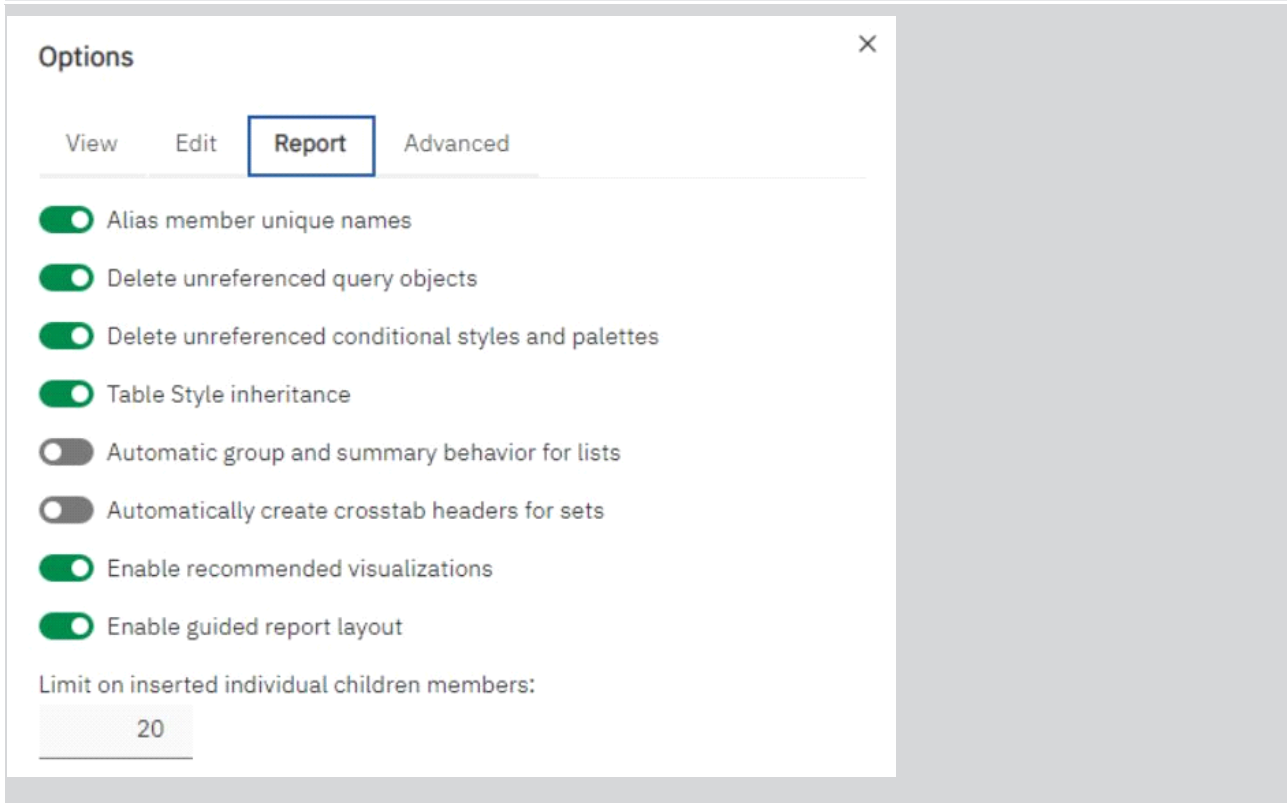


Table 3. Descriptions of the options on the “Report” tab () of the “Options” window



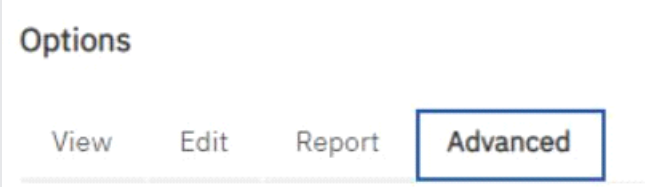
Option	Description
Alias member unique names	When working with a dimensional data source, creates an alias when you add a member to the report or to an expression.
Delete unreferenced query objects	Automatically deletes query objects linked to another object. For example, if you delete a list, the query 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.

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.

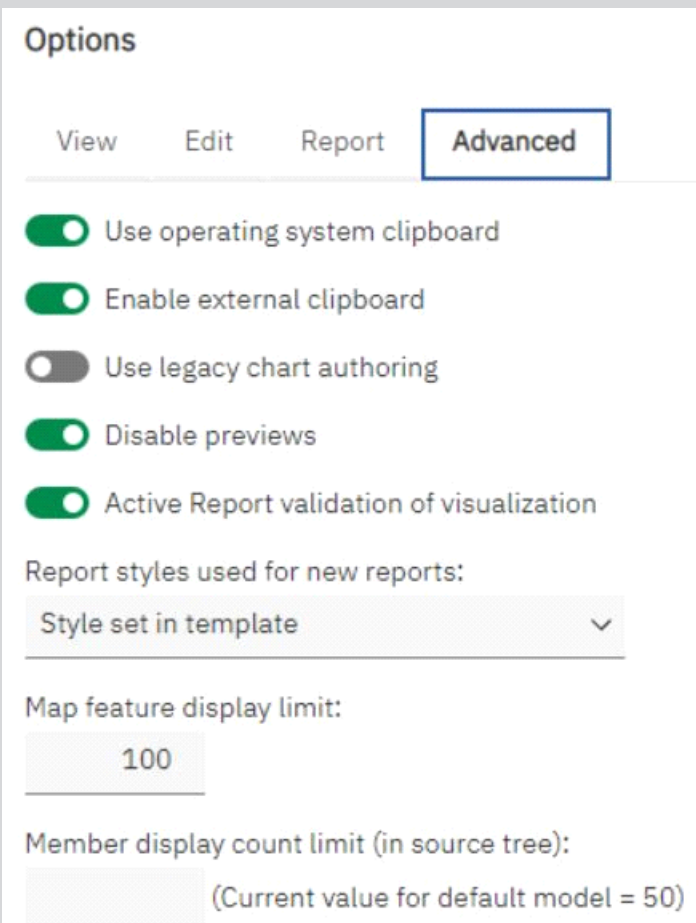
Table 98 - Report Options

7.5.4 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

	<p>enabled, either sample data or data from your data source is displayed with formatting options applied.</p> <p>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.</p>
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 99 - Advanced Options

7.6 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.

7.6.1 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.

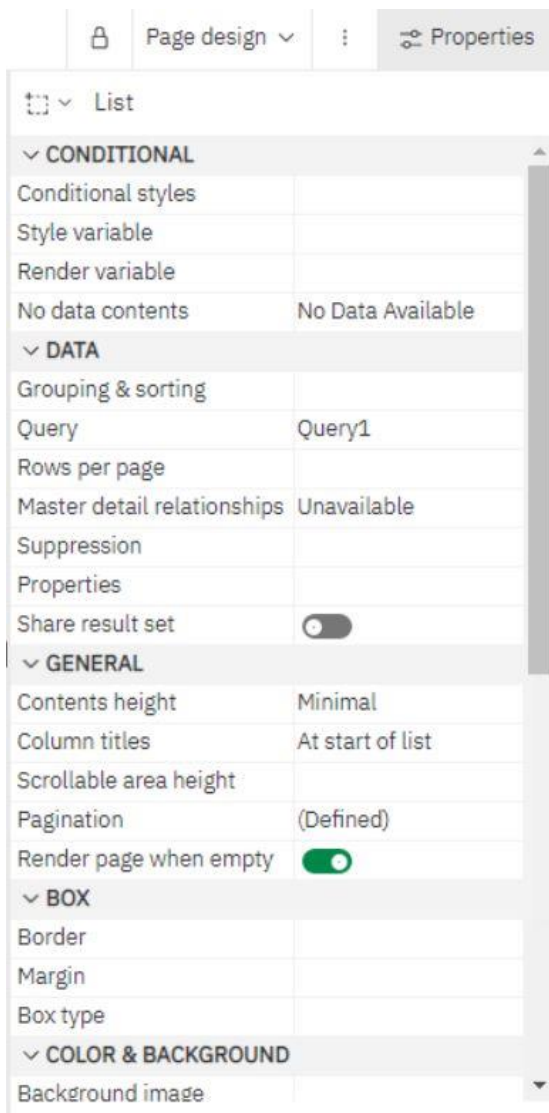







Figure 356 - Set list properties

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”** ( 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”** ( List columns body style).
- To format list column titles, click the **“Select ancestor icon”** () in the title bar of the Properties pane and click **“List columns title style”** ( 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”** ( List columns).
- To format the entire list, click the **“Select ancestor”** button () in the title bar of the Properties pane and click **“List”** ( 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.

7.6.2 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.



- I Select the column that you want to hide.
- I Click the **“Select ancestor”** icon () in the title bar of the Properties pane and click **“List column”** ( List column).
- I Set the **“Render”** property to **“No”**.



Figure 357 - 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.

7.6.3 Create a scrollable list

When the list contains many rows of data, it is clever to use a list you can scroll:

- I Select the entire list by clicking the container selector (three orange dots) of the list.

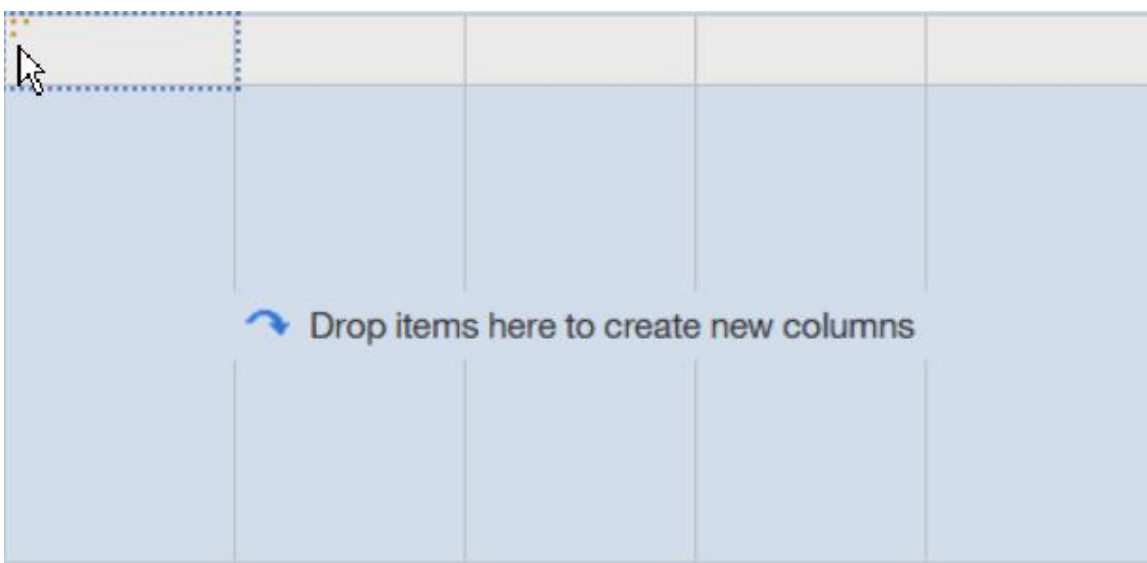
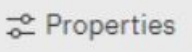


Figure 358 - Create a scrollable list

- I In the DWH toolbar, click the “**Show properties**” icon ().
- I 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.

GENERAL	
Contents height	Minimal
Column titles	At start of list
Scrollable area height	
Pagination	(Defined)
Render page when empty	<input checked="" type="checkbox"/>

Figure 359 - Create a scrollable list - Properties - General - Scrollable area height

7.6.4 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

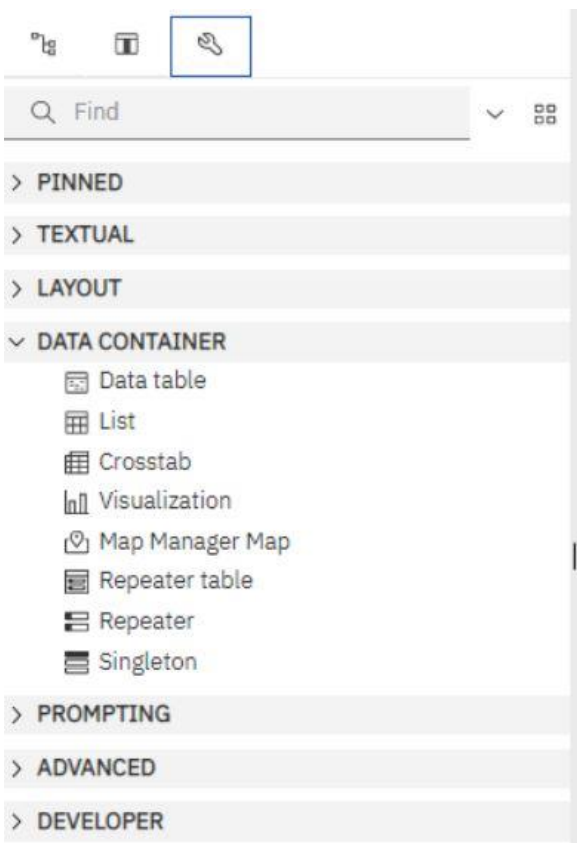


Figure 360 - Using Repeaters - Data container - Repeater/Repeater table

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.

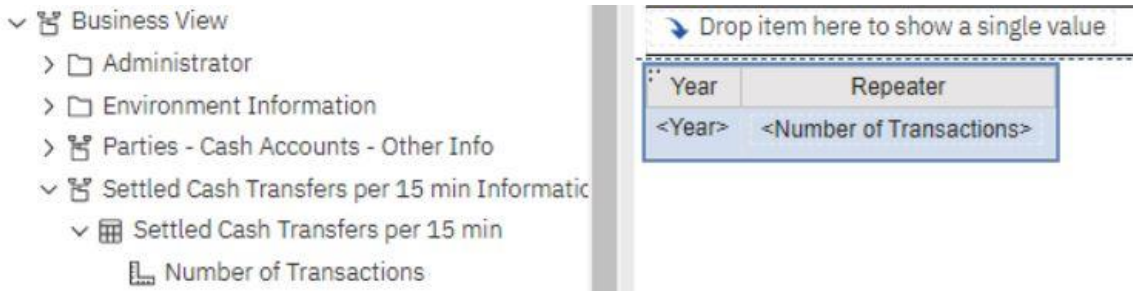


Figure 361 - Using Repeaters - List with all Number of Transactions in a single row

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.

GENERAL	
Repeater direction	Left to right, top to b...
Across	2
Down	3
Pagination	
Render page when empty	<input checked="" type="checkbox"/>


Figure 362 - 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.

7.6.5 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**”.

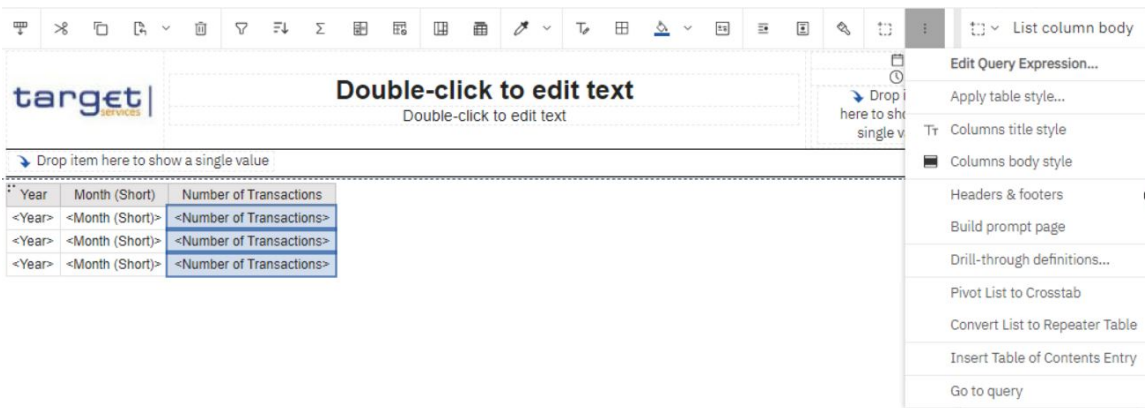



Figure 363 - Change a list into a crosstab - More icon - Pivot List to Crosstab

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 ().

7.7 Working with crosstabs

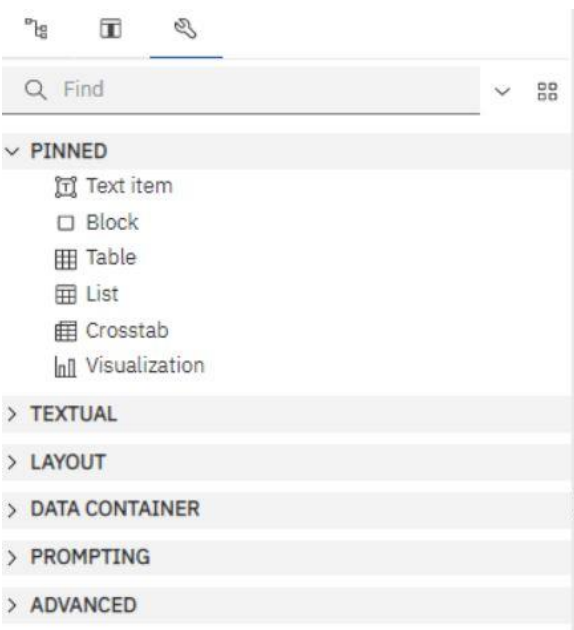


Figure 364 - Working with crosstabs - Data container - Crosstab

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.

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.

7.7.1 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:

- 1 One or more crosstab node members.
- 1 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.

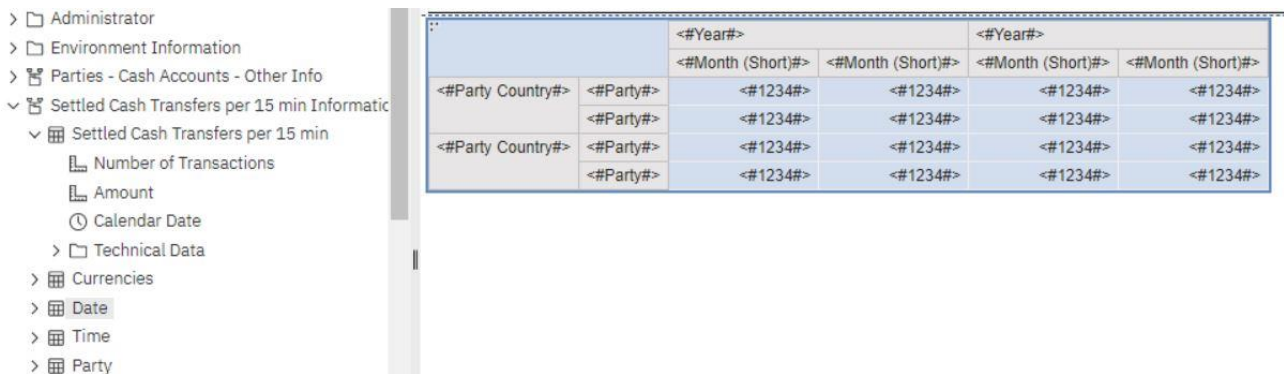


Figure 365 - Crosstab nodes and Crosstab nodes members

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).

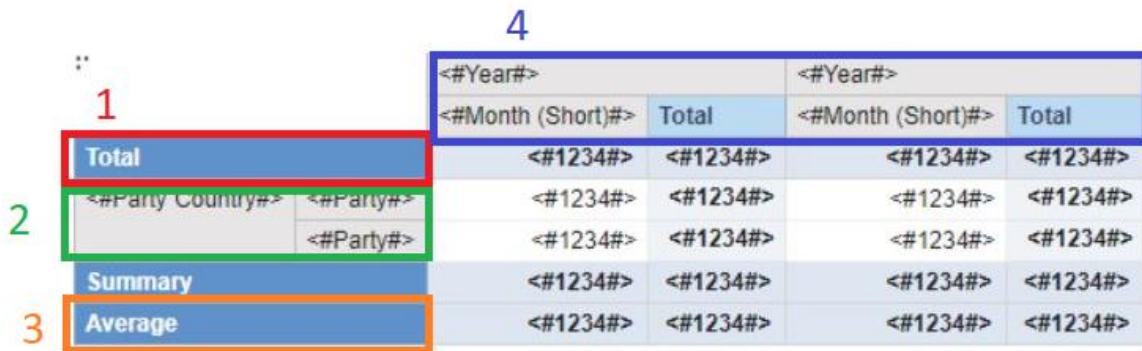


Figure 366 - Crosstab nodes and Crosstab nodes members (2)


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** (



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.

7.7.2 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,

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**".

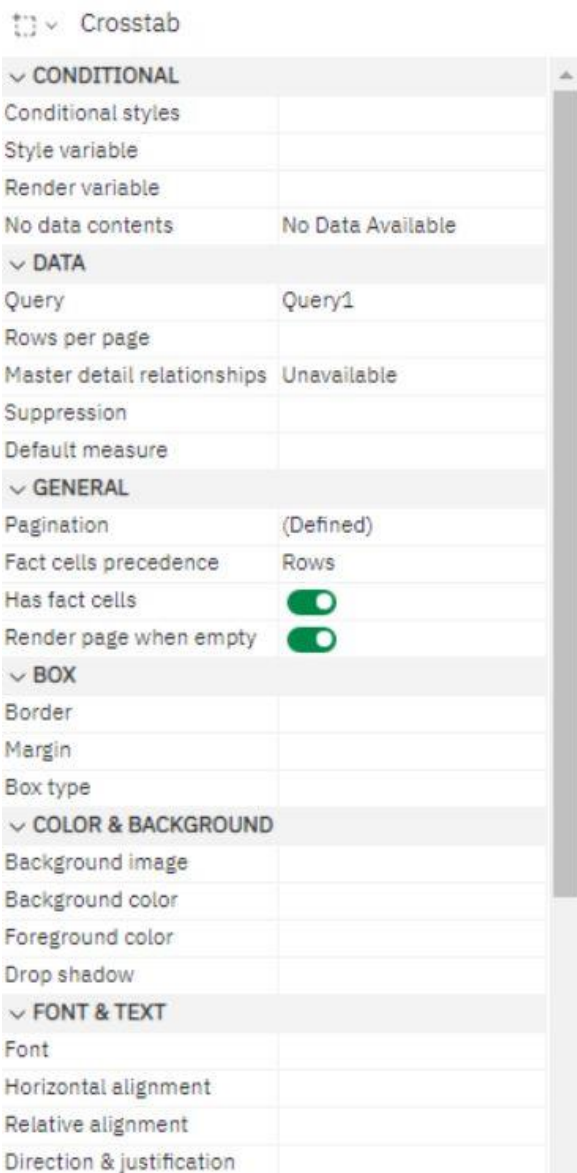



Figure 367 - Set Crosstabs properties

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.

7.7.3 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.

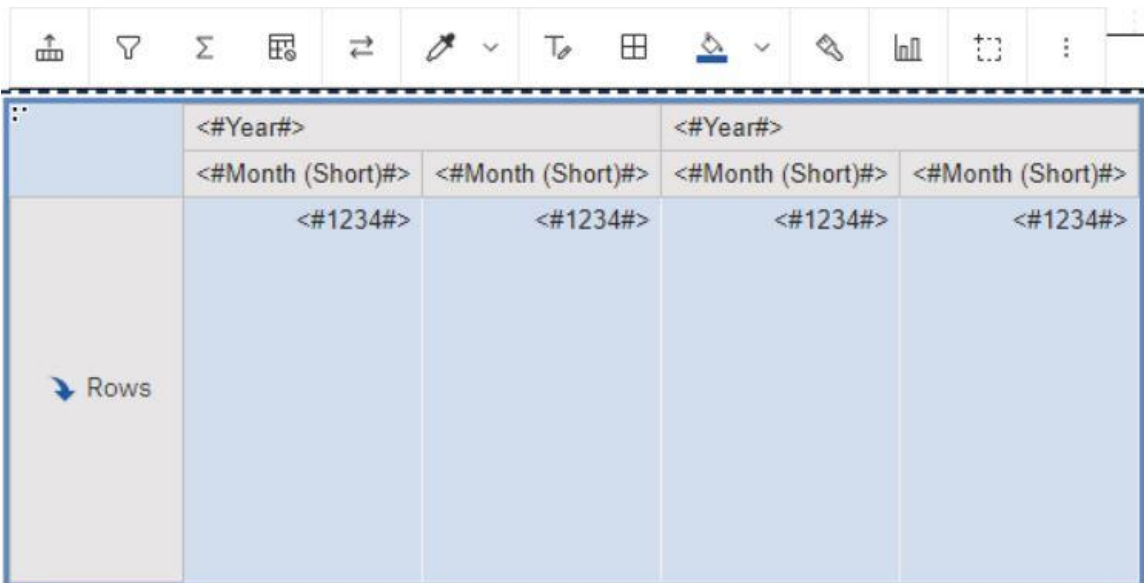
A black bar indicates where you can drop the data item.

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.



	<#Year#>		<#Year#>	
	<#Month (Short)#>	<#Month (Short)#>	<#Month (Short)#>	<#Month (Short)#>
	<#1234#>	<#1234#>	<#1234#>	<#1234#>

Figure 368 - Create a Single-Edge crosstab

When you run the report, a crosstab is produced that has only one edge.

7.7.4 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

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”.

- 1 From the “Sources” tab (), click the data item to add.
 - 1 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.
- 1 Repeat steps 1 to 2 to add other nested columns or rows.

		<#Year#>		<#Year#>	
		<#Month (Short)#>	<#Month (Short)#>	<#Month (Short)#>	<#Month (Short)#>
<#Party Country#>	<#Party#>	<#1234#>	<#1234#>	<#1234#>	<#1234#>
<#Party Country#>	<#Party#>	<#1234#>	<#1234#>	<#1234#>	<#1234#>
<#Party Country#>	<#Party#>	<#1234#>	<#1234#>	<#1234#>	<#1234#>
<#Party Country#>	<#Party#>	<#1234#>	<#1234#>	<#1234#>	<#1234#>

Figure 369 - Create a nested Crosstab

7.7.5 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.

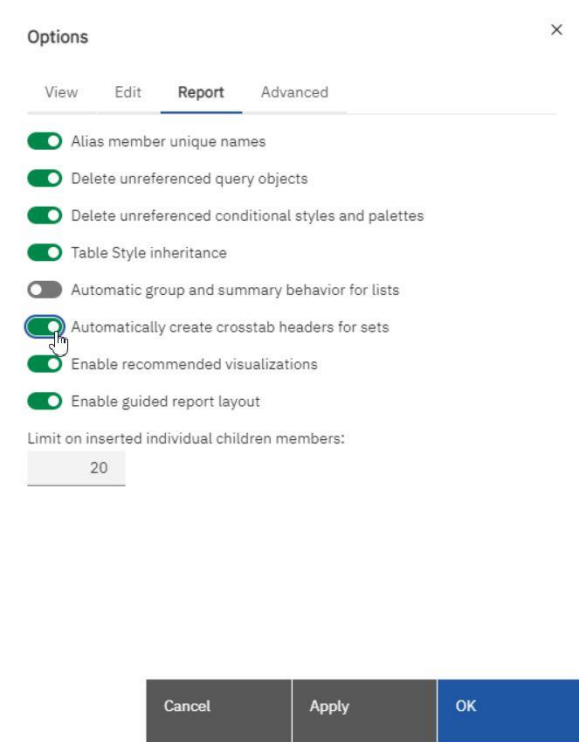


Figure 370 - Creating headers automatically for sets in crosstabs

Select “Automatically create crosstab headers for sets”.

Click OK.

Header labels are now created in the rows and columns in a crosstab.

7.7.6 Showing Crosstab values as percentages

When you work with dimensional data sources, you can show crosstab values as a percentage of a summary instead of the actual values. When you show values as a percentage, you can compare the contribution of an item to the whole.

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 format 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.

- I 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.

- I From the report object toolbar, click the **“More”** icon (), click **“Show value as”**, and click the percentage values that you want to show.

- I 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”**.

- I 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.

7.7.7 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.

I 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.

DATA	
Query	Query1
Rows per page	
Master detail relationships	Unavailable
Suppression	
Default measure	Number of Transactions

Figure 371 - Specify the Default measure

I To specify the default measure for a chart, drag the measure to the Default measure box in the chart.

7.7.8 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.

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.

- I Click the crosstab node member to indent.
- I In the Properties pane, set the “**Level indentation**” property to your indentation type, length, and direction.

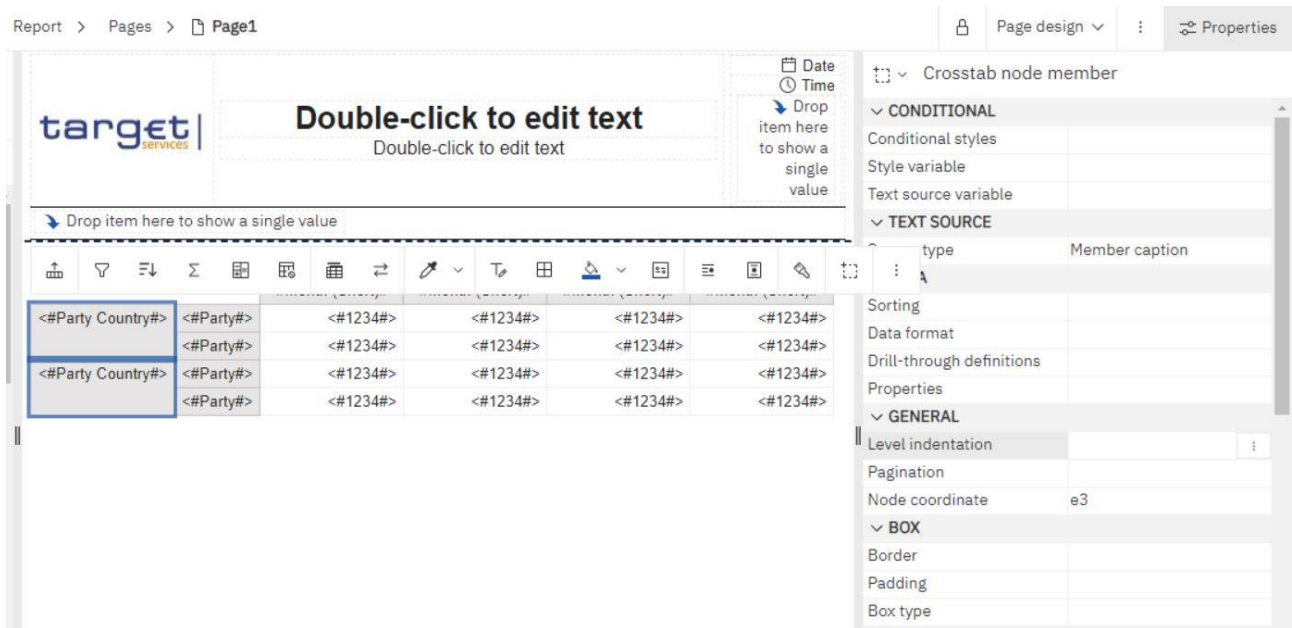



Figure 372 - Indent data - Properties pane - General - Level indentation

7.8 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.

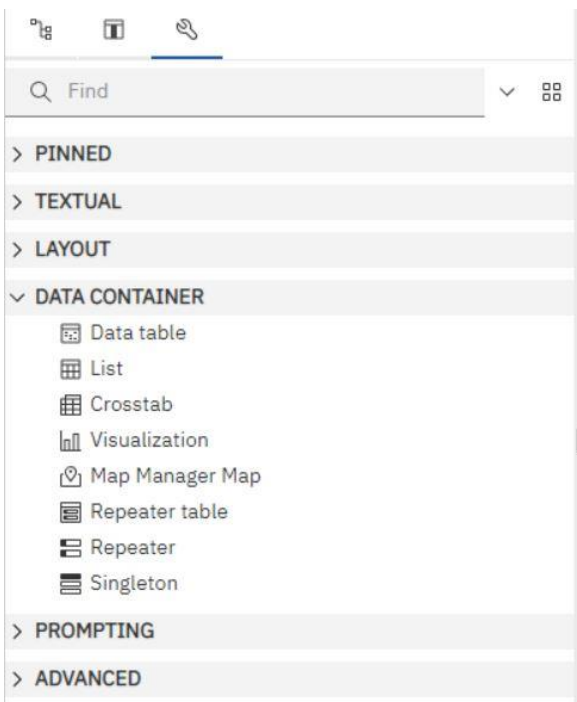


Figure 373 - Working with Visualisations - Data container - Visualization

In the Visualization gallery window, select “11.1 Visualizations” from the menu.

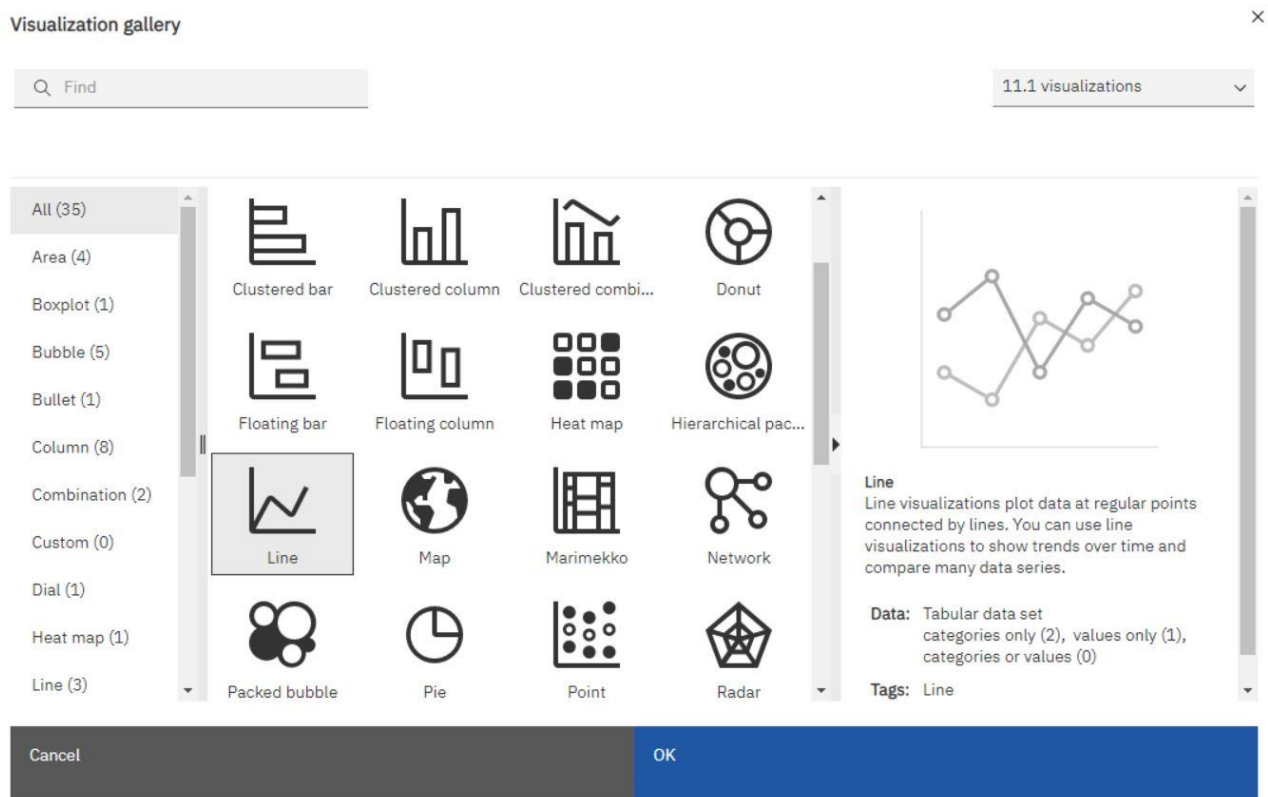


Figure 374 - Working with Visualisations - Visualization gallery

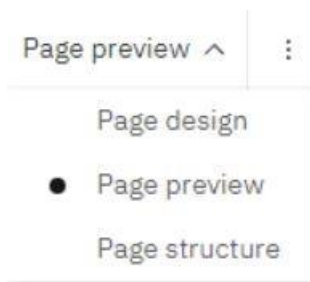


To create charts, drag data items from the “**Source**” tab (————) to the measures, data series and categories drop zones.

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.

7.8.1 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.

- Drag a member to the Bars field.

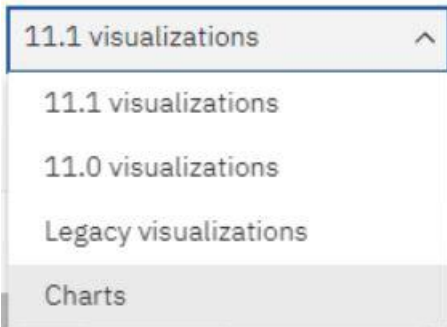
The visualization display different bars for the measures. The colouring is determined by the measures from the Length field.

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.

7.8.2 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 100 - 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.

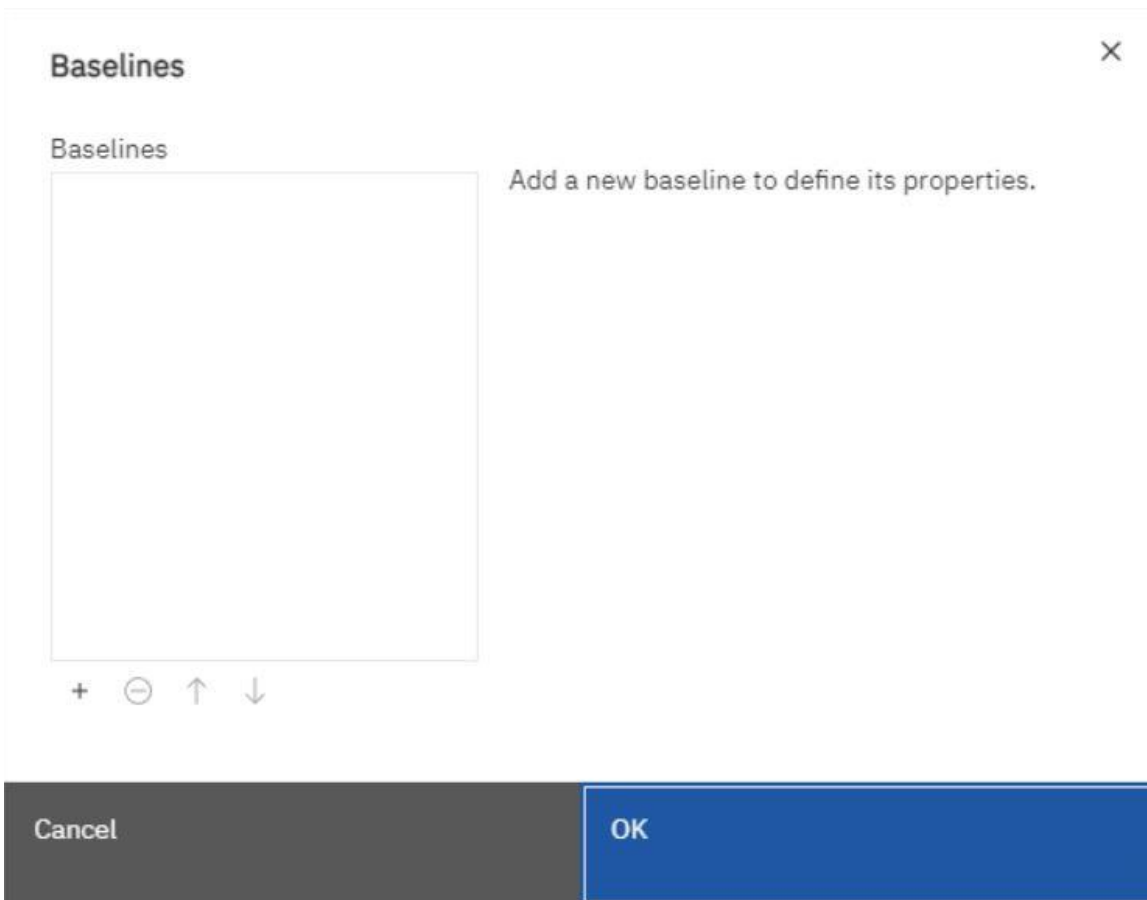


Figure 375 - Adding a baseline to a visualization

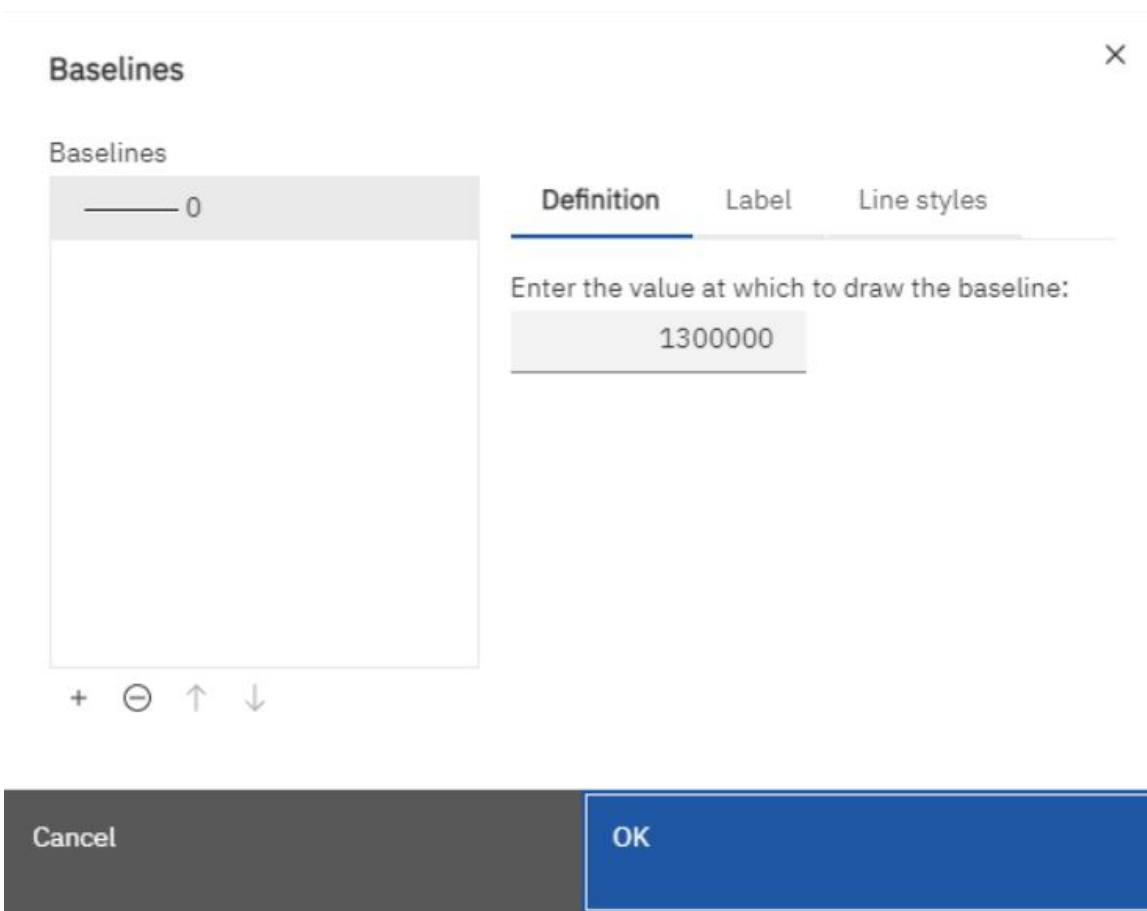


Figure 376 - Adding a baseline to a visualization - Baselines

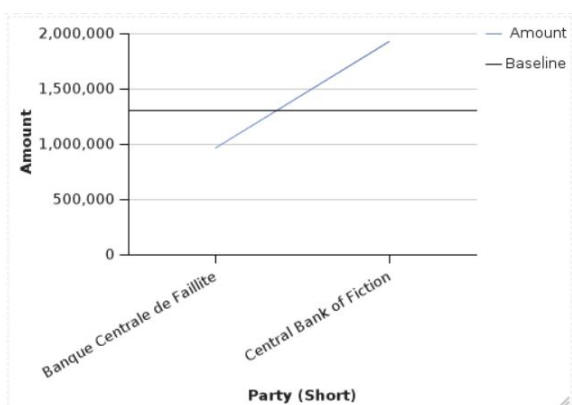


Figure 377 - Adding a baseline to a visualization - Baseline at 1.300.000

- | 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.

🔍 Numeric baseline

CONDITIONAL	
Render variable	
DATA	
Query	Query1
Master detail relationships	Unavailable
Properties	
GENERAL	
Line style	(Defined)
CHART ANNOTATIONS	
Numeric baselines	(Defined)

Figure 378 - Adding a baseline to a visualization - Baseline properties

The new baselines appear in the Baselines box.

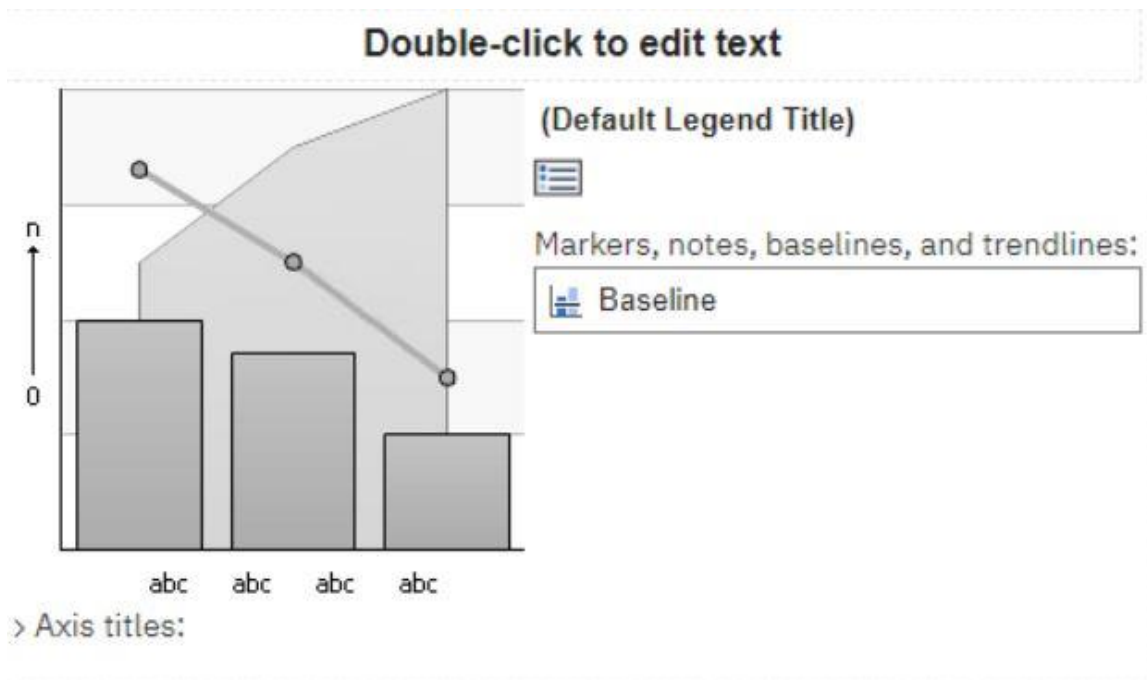


Figure 379 - Adding a baseline to a visualization - Baselines box


To delete a baseline, select the baseline in the Baselines box and click the **Delete** icon (🗑️).

7.8.3 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 properties from the existing visualization if those properties exist in the new chart type. For example, if you change a pie

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.

7.9 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”**.

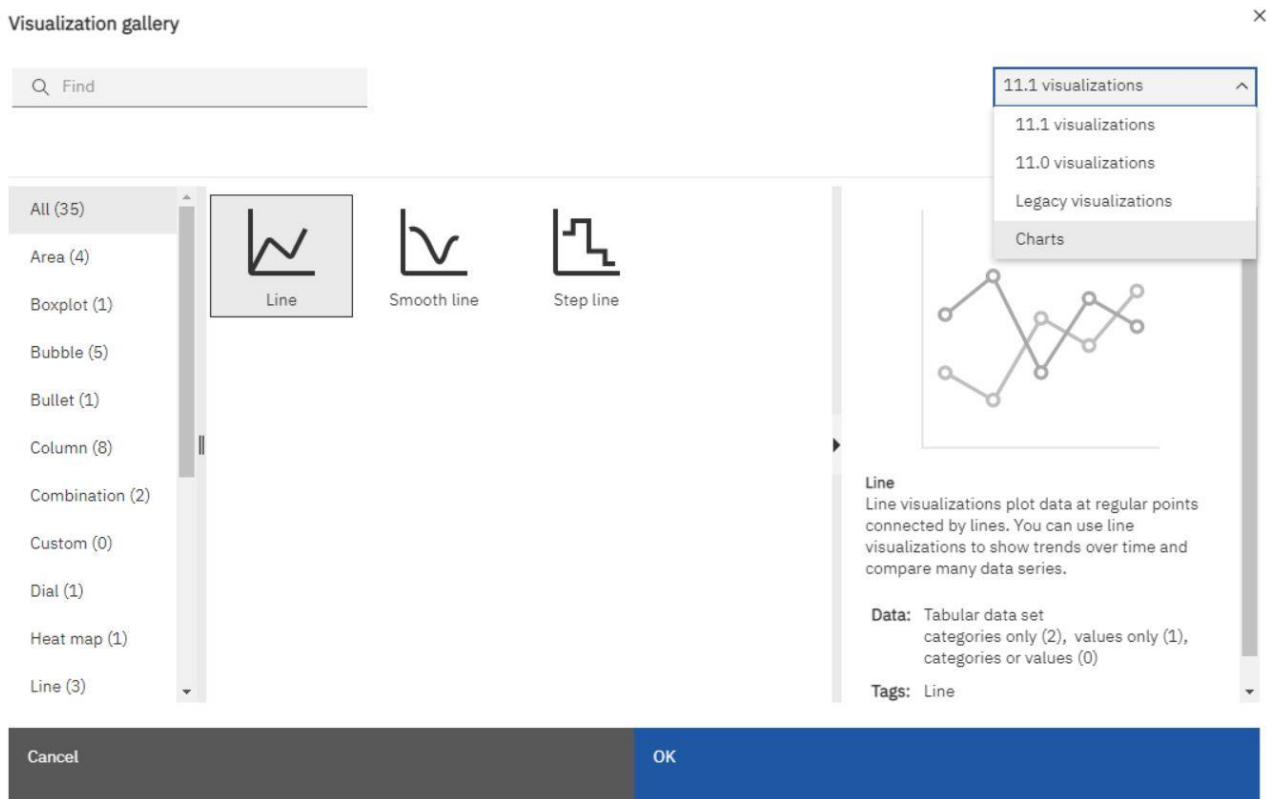



Figure 380 - Charts - Visualization gallery

7.9.1 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, because the exploding slices property does not exist in a bar chart.

1 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.

7.9.2 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.

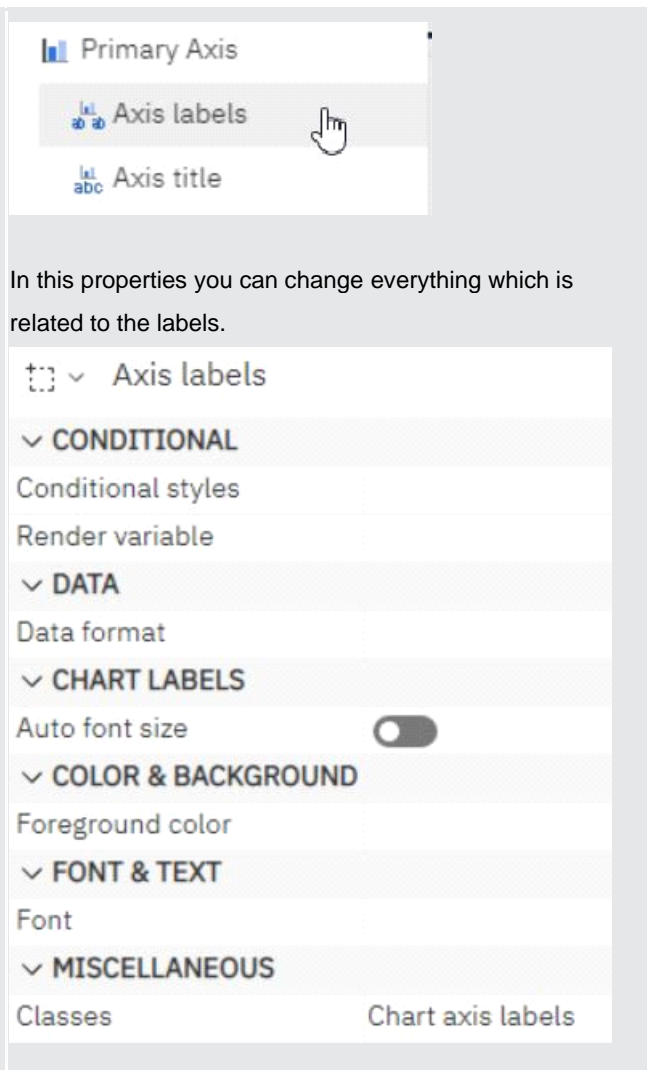
If you are familiar with using conditional variables, you can customize the chart to change its appearance or provide information in response to expressions or conditions.

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. <div style="border: 1px solid #ccc; padding: 5px; margin-top: 5px;"> <p>∨ CHART TITLES</p> <table border="1"> <tr> <td>Title</td> <td>Show</td> </tr> <tr> <td>Subtitle</td> <td>Hide</td> </tr> <tr> <td>Footer</td> <td>Hide</td> </tr> </table> </div>	Title	Show	Subtitle	Hide	Footer	Hide
Title	Show						
Subtitle	Hide						
Footer	Hide						
Hide or show the legend	Select the chart. Under “ Chart Annotations ”, set the “ Legend ” property.						

	<p>▼ CHART ANNOTATIONS</p> <p>Legend Top right</p> <p>Numeric baselines</p> <p>Category baselines</p> <p>Trendlines</p> <p>Markers</p> <p>Notes</p>
<p>Hide or show baselines</p>	<p>Select the chart. Under “Chart Annotations”, set the “Baselines” property.</p> <p>▼ CHART ANNOTATIONS</p> <p>Legend Top right</p> <p>Numeric baselines</p> <p>Category baselines</p> <p>Trendlines</p> <p>Markers</p> <p>Notes</p>
<p>Change the colours of the labels</p>	<p>Select “Select a chart object”.</p> <div data-bbox="798 1097 1236 1870" style="border: 1px solid #ccc; padding: 5px;"> <p>Select a chart object</p> <ul style="list-style-type: none">  Line  Legend  Legend title  Chart title  Primary Axis  Axis labels  Axis title  Category axis  Axis labels  Axis title <p>Select a chart object ↕ ^</p> </div> <p>Then select one of the “Axis labels”</p>

	 <p>In this properties you can change everything which is related to the labels.</p>
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).

The screenshot shows a software interface for configuring a chart. On the left is a grey workspace. On the right, a context menu is open, listing various chart objects: Line, Legend, Legend title, Chart title, Primary Axis (highlighted with a mouse cursor), Axis labels, Axis title, Category axis, and another set of Axis labels and Axis title. Below the menu is a table of properties for the 'Primary Axis'.

Primary Axis	
GENERAL	
Axis line	(Defined)
Gridlines	(Defined)
Minor gridlines	
Number of minor intervals	2
Axis range	Automatic
Axis labels	Show
CHART TITLES	
Axis title	Show
	Hide

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.

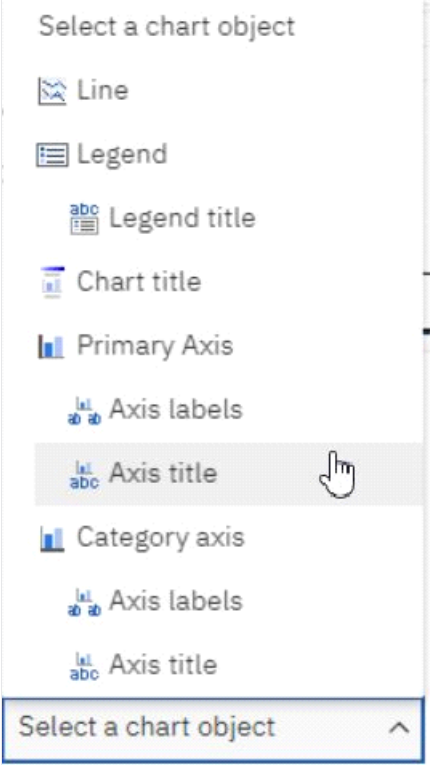
The screenshot shows a software interface for configuring a chart. A dropdown menu titled "Select a chart object" is open, listing various chart components: Line, Legend, Legend title, Chart title, Primary Axis, Axis labels, Axis title, Category axis, and another set of Axis labels and Axis title. Below the menu is a configuration panel for the "Primary Axis".

GENERAL	
Axis line	(Defined)
Gridlines	(Defined)
Minor gridlines	
Number of minor intervals	2
Axis range	Automatic
Axis labels	Show
CHART TITLES	
Axis title	Show

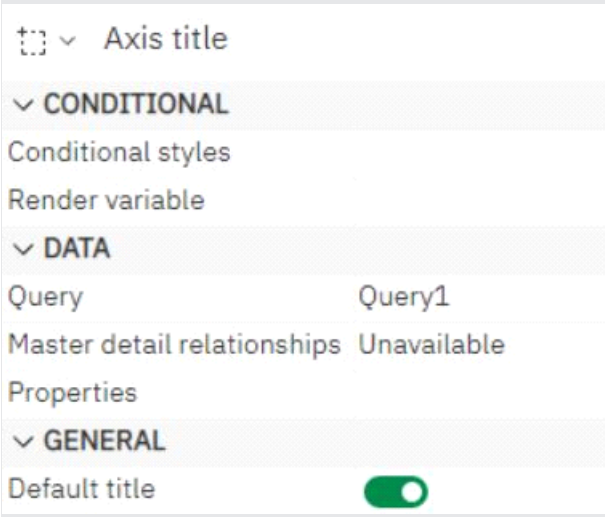
Change an axis title

Select the axis title.

Change axis properties, such as range, scale interval etc.



Under **General**, set the **Default title** property to **No**, and then double-click the axis title and type a new title.

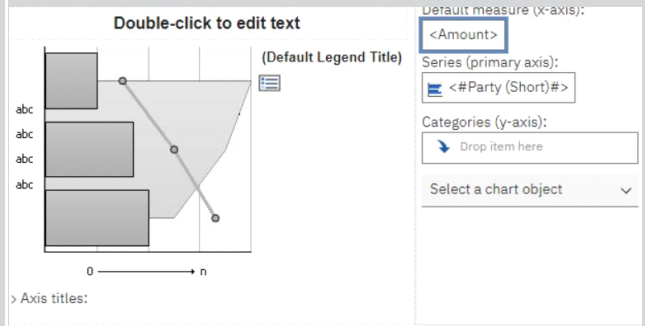


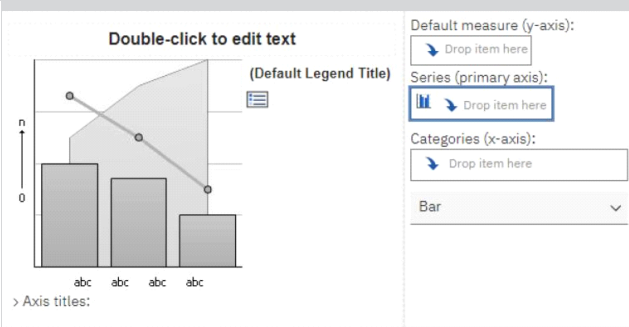
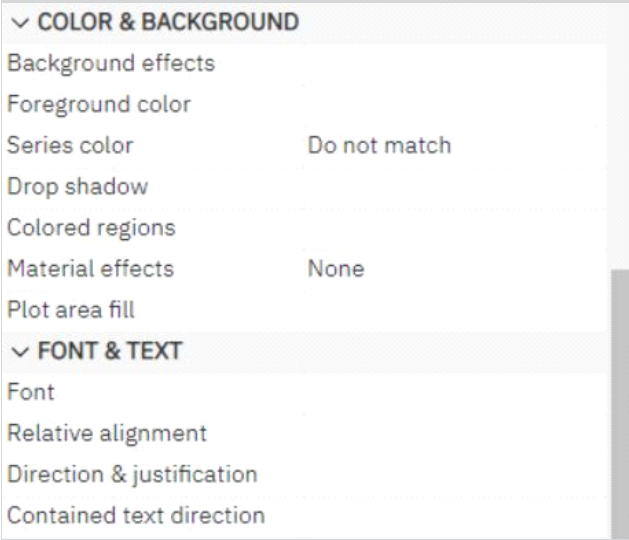
You can use the Properties pane to change the axis title properties, such as font, positioning, colour etc.


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”**.

	<p>Primary Axis</p> <p>GENERAL</p> <p>Axis line (Defined)</p> <p>Gridlines (Defined)</p> <p>Minor gridlines</p> <p>Number of minor intervals 2</p> <p>Axis range Automatic</p> <p>Axis labels Show</p> <p>CHART TITLES</p> <p>Axis title Show</p> <p>Set the "Maximum" value, "Minimum" value or "Major interval"</p> <p>Axis Range</p> <p>Maximum</p> <p><input checked="" type="radio"/> Automatic</p> <p><input type="radio"/> Manual:</p> <p>Minimum</p> <p><input checked="" type="radio"/> Automatic</p> <p><input type="radio"/> Manual:</p> <p><input checked="" type="checkbox"/> Include zero</p> <p><input type="checkbox"/> Logarithmic scale</p> <p>Major interval</p> <p><input checked="" type="radio"/> Automatic</p> <p><input type="radio"/> Manual:</p> <p>Cancel Apply OK</p>
<p>Hide or show the tooltips</p>	<p>Select the chart. Under "General" in the properties, set the "Tooltips" property.</p>

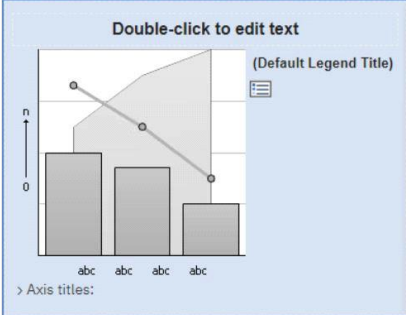
	<div data-bbox="798 257 1445 667"> <p>▼ GENERAL</p> <p>Chart orientation: Vertical</p> <p>Depth: 0</p> <p>Combinations: Primary Axis</p> <p>Tooltips: Absolute</p> <p>Matrix rows and columns: None</p> <p>Pagination: Absolute</p> <p>Render page when empty: Cumulative</p> <p>▼ CHART TITLES</p> </div> <p data-bbox="798 712 1445 891">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.</p>
<p data-bbox="153 913 414 947">Change the data format</p>	<p data-bbox="798 913 1445 992">Select the item you want to change the data format from the chart object.</p> <div data-bbox="798 992 1445 1317">  </div> <p data-bbox="798 1361 1445 1440">In the properties under “Data”, set the “Data format” property.</p> <div data-bbox="798 1440 1445 1702"> <p>▼ Default Measure</p> <p>▼ CONDITIONAL</p> <p>Conditional styles</p> <p>▼ DATA</p> <p>Data format</p> </div>
<p data-bbox="153 1724 606 1758">Change the white space around the chart</p>	<p data-bbox="798 1724 1445 1809">Select the chart. Under “Box”, set the “Padding” or “Margin” property.</p>
<p data-bbox="153 1832 750 1904">Change the colour or pattern in the palette for columns, lines, and areas</p>	<p data-bbox="798 1832 1445 1904">Select the item “Series” from the chart object.</p>

	 <p>In the properties under “Colour & Background”, set the palette or conditional palette property.</p>
<p>Change the chart orientation</p>	<p>Select the chart. In the Properties pane, under “General” select Chart Orientation, for Vertical or Horizontal presentation.</p>
<p>Change the default colour or font for all chart objects</p>	<p>Select the chart. Under “Colour & Background”, set the “Background effects”, “Foreground colour”, or fill effects property.</p>  <p>▼ COLOR & BACKGROUND Background effects Foreground color Series color Do not match Drop shadow Colored regions Material effects None Plot area fill ▼ FONT & TEXT Font Relative alignment Direction & justification Contained text direction</p>
<p>Override the default font or colour for axes and chart values</p>	<p>Click “Select a chart object” then select the “Axis labels” or “Axis title” to set the “Font”, “Foreground colour”, or fill effects property.</p>



Double-click

Double-click to



Select a chart object

- Bar
- Legend
- Legend title
- Chart title
- Primary Axis
- Axis labels
- Axis title
- Category axis
- Axis labels
- Axis title

Select a chart object ^

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
---------	-------------------


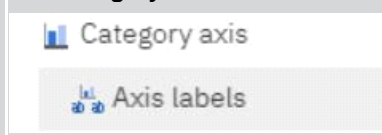
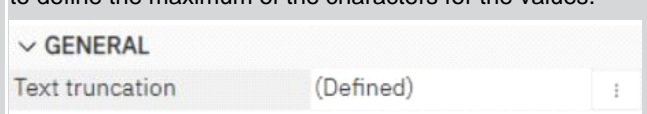
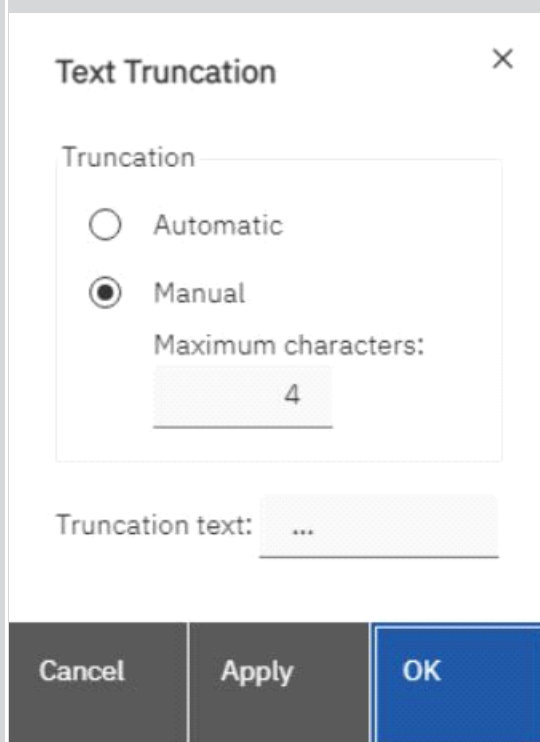



<p>Insert a background image or watermark in the chart body.</p>	<p>Select the chart object.</p> <p>In the properties under “Colour & Background” select the “Background effects” to set the image.</p> 
<p>Go to another report</p>	<p>Select the chart. Under “Data”, set the “Drill-through definitions” property.</p>
<p>Specify which labels and values to use when generating the text shown on the chart</p>	<p>Select the chart. Click “Select a chart object” then select the “Category axis” “Axis labels”.</p>  <p>In the properties under “General” select “Text truncation” to define the maximum of the characters for the values.</p>   <p>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</p>

Table 101 - Customizing chart properties

7.9.3 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.

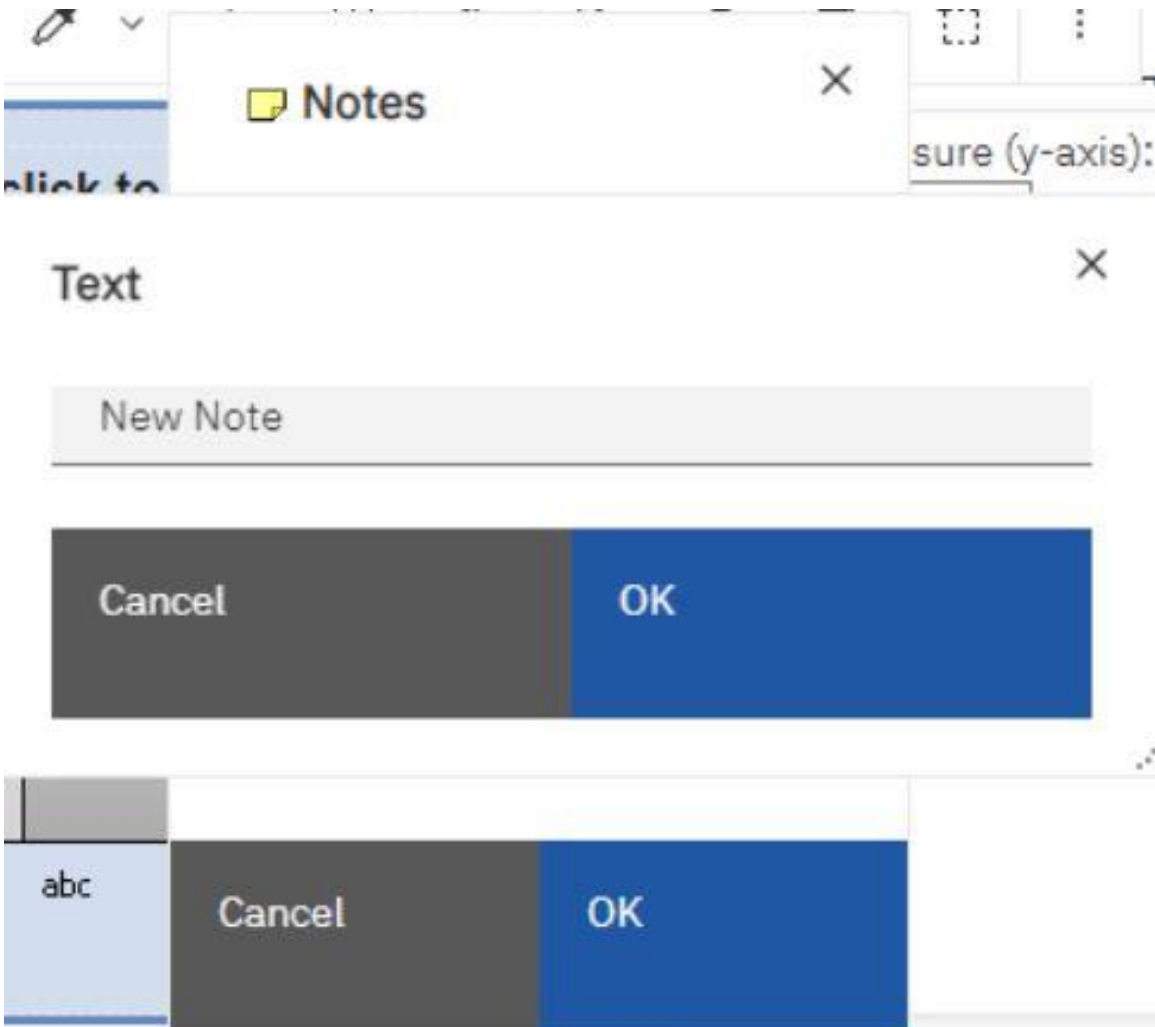




Figure 381 - Adding a note to a chart

- | In the “Notes dialog box”, click “OK”.

- I Only for Current Default Chart:
- I 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.

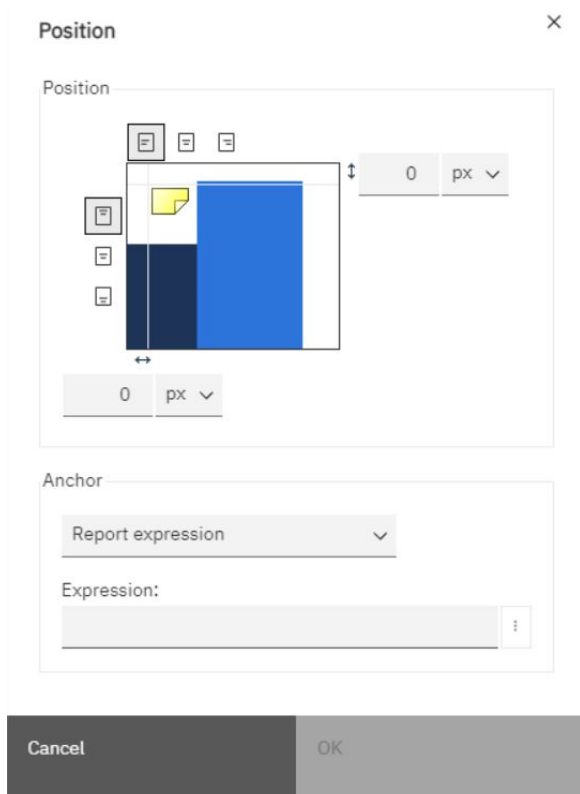


Figure 382 - Adding a note to a chart - Position the node / Expression

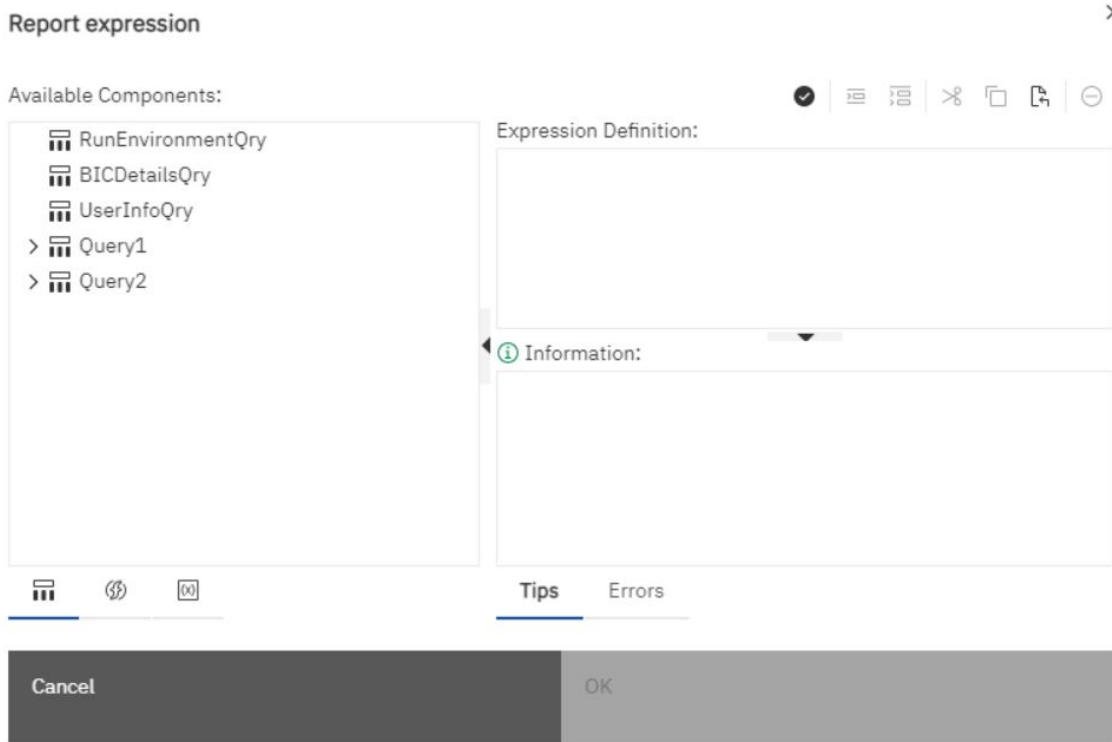


Figure 383 - Adding a note to a chart - Report expression

7.9.4 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.



Figure 384 - 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 ().

7.9.5 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	<p>Uses the following expression:</p> $25\text{th percentile value} - 1.5 * (75\text{th percentile value} - 25\text{th percentile value})$ <p>For example, if 2.5 is the 25th percentile and 7.5 is the 75th percentile, the statistical minimum is -5 $[2.5 - 1.5(5) = -5]$.</p> <p>Statistical minimum uses percentiles to determine values, and might not always appear in the chart if the values are off the axis.</p>
Statistical Maximum	<p>Uses the following expression:</p> $75\text{th percentile value} + 1.5 * (75\text{th percentile value} - 25\text{th percentile value})$ <p>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.</p>
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 102 - 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 report 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:

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**”.

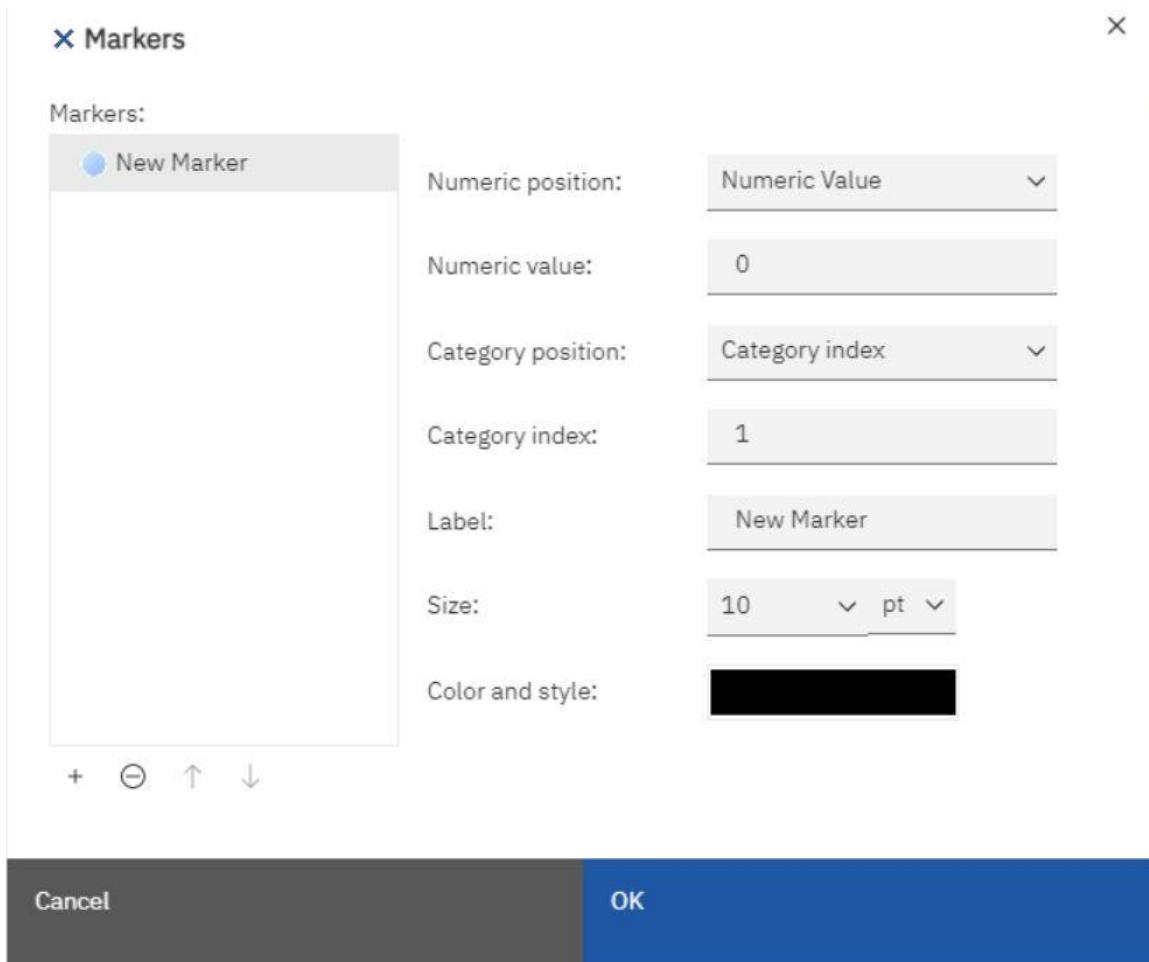


Figure 385 - Adding a marker to a chart

7.9.6 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.

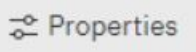

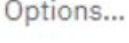
Drilling up and down allows you to view more general or more detailed information on your data within a predefined dimensional hierarchy.

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.

1 Open a chart that uses a dimensionally-modelled data source.

2 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.

7.10 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.

- 1 build your own prompt and prompt page
- 1 create a parameter to produce a prompt
- 1 insert prompts directly into the report page

In dimensional reporting, you can also define prompts using context filters.

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
<p><code>[data item] = ?p?</code></p> <p>for single-select prompts and master detail relationships</p>	<p><code>[level or hierarchy]->?p?</code></p> <p>For single-select member prompts and master detail relationships</p>
<p><code>[data item] in ?p?</code></p> <p>for multi-select prompts</p>	<p><code>set([level or hierarchy]->?p?)</code></p> <p>For multi-select member prompts</p> <p><code>filter ([set], [property expression] = ?p?)</code></p> <p>For single-select value prompts and master detail relationships</p> <p>A property expression is an expression that is assigned to a property to enable dynamic update of the property when the report runs.</p> <p><code>filter ([set], [property expression] IN ?p?)</code></p> <p>For multi-select value prompts</p> <p>A property expression is an expression that is assigned to a property to enable dynamic update of the property when the report runs.</p>

Table 103 - Adding prompts to filter data

7.10.1 Build your own Prompt and Prompt page

Create your own prompt and prompt page to control how they appear in a report.

Procedure

- In the navigation menu, click **“Report”** and then click **“Prompt pages”**.

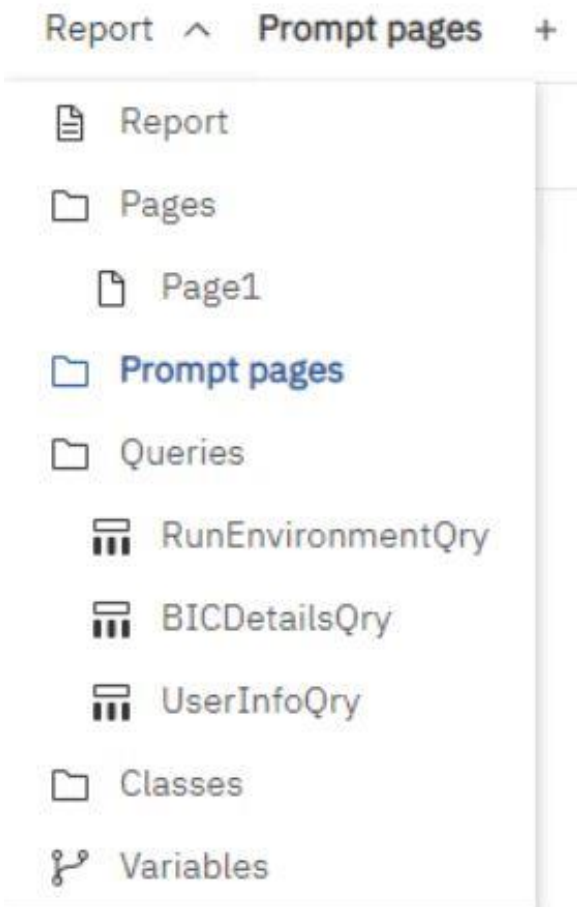




Figure 386 - Build your own Prompt and Prompt page

- I Click the “**Toolbox**” icon () (————), and drag “**Page**” to the “**Prompt pages box**”.
- I Double-click the page you just created.
- I Click the “**Toolbox**” icon () (————), expand “**Prompting**”, and then drag one of the following prompt controls to the prompt page.

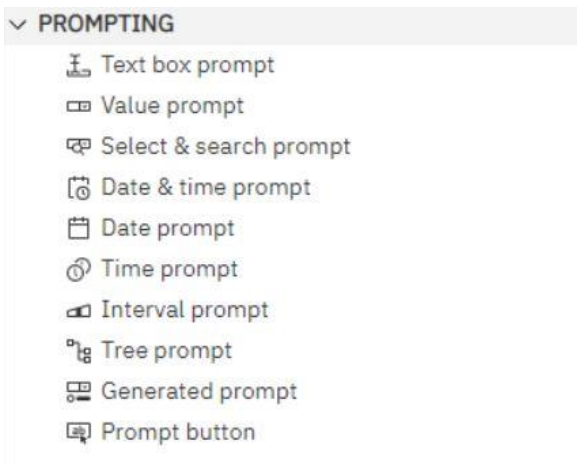


Figure 387 - Build your own Prompt and Prompt page - Prompting

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.

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 104 - Build your own Prompt and Prompt page

The Prompt Wizard dialog box appears.

- I 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”**.

Prompt Wizard - Date prompt ✕

Choose Parameter
Create a new parameter or use an existing parameter from a previously authored expression.

Create a new parameter

Parameter1

Use existing parameter

▼

Use global parameter

▼

Cancel
< Back
Next >
Finish

Figure 388 - 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.

Prompt Wizard - Date prompt



Create Filter

Choose the package item that will be used to filter the report.

Create a parameterized filter

Package item:

Operator:

Parameter:

Make the filter optional

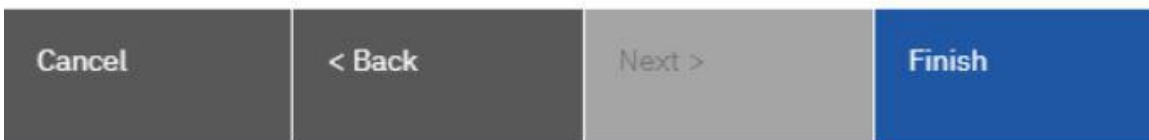


Figure 389 - Build your own Prompt and Prompt page - Prompt Wizard dialog box - Make the filter optional

- I 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.

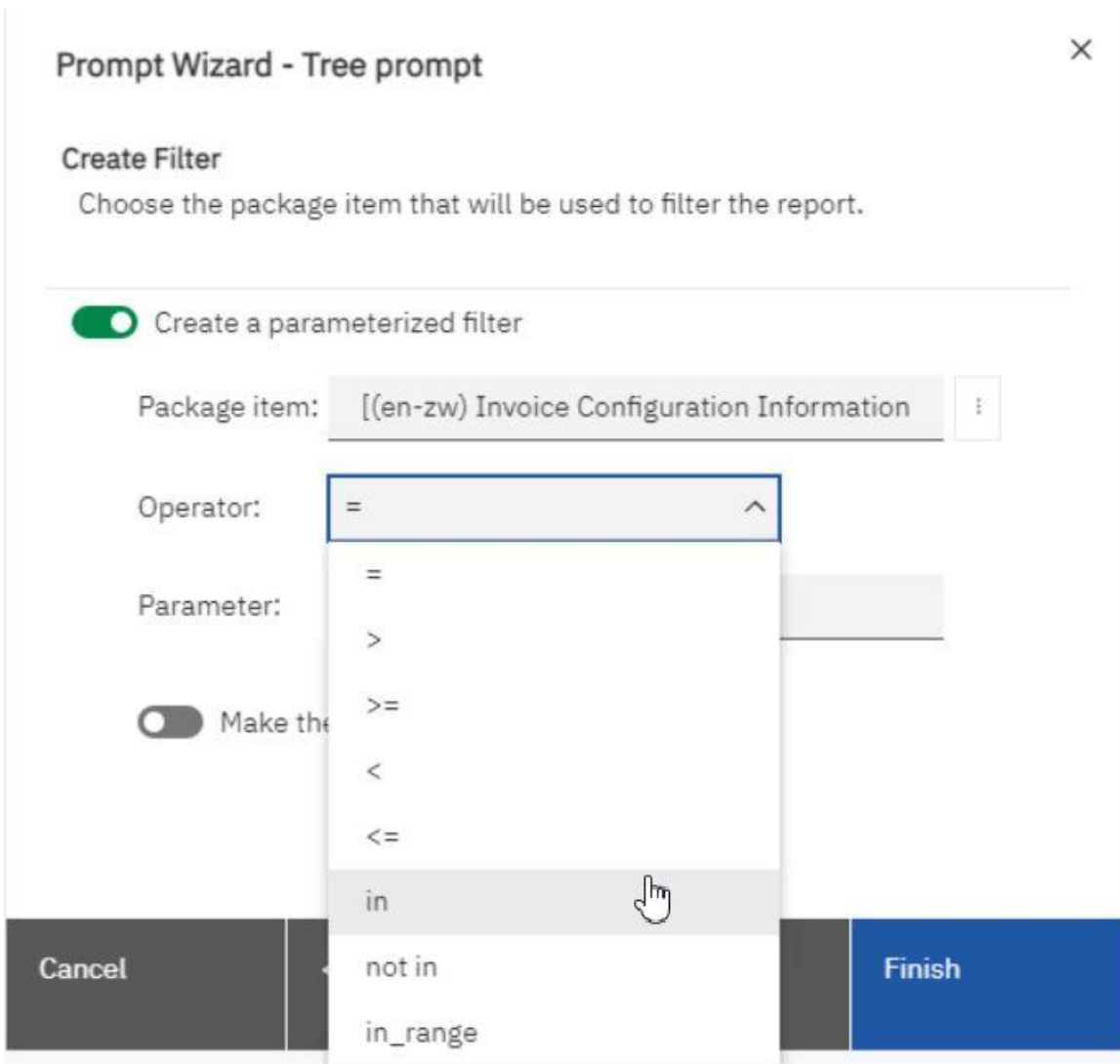


Figure 390 - Build your own Prompt and Prompt page - Prompt Wizard - Tree prompt

- 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”**.

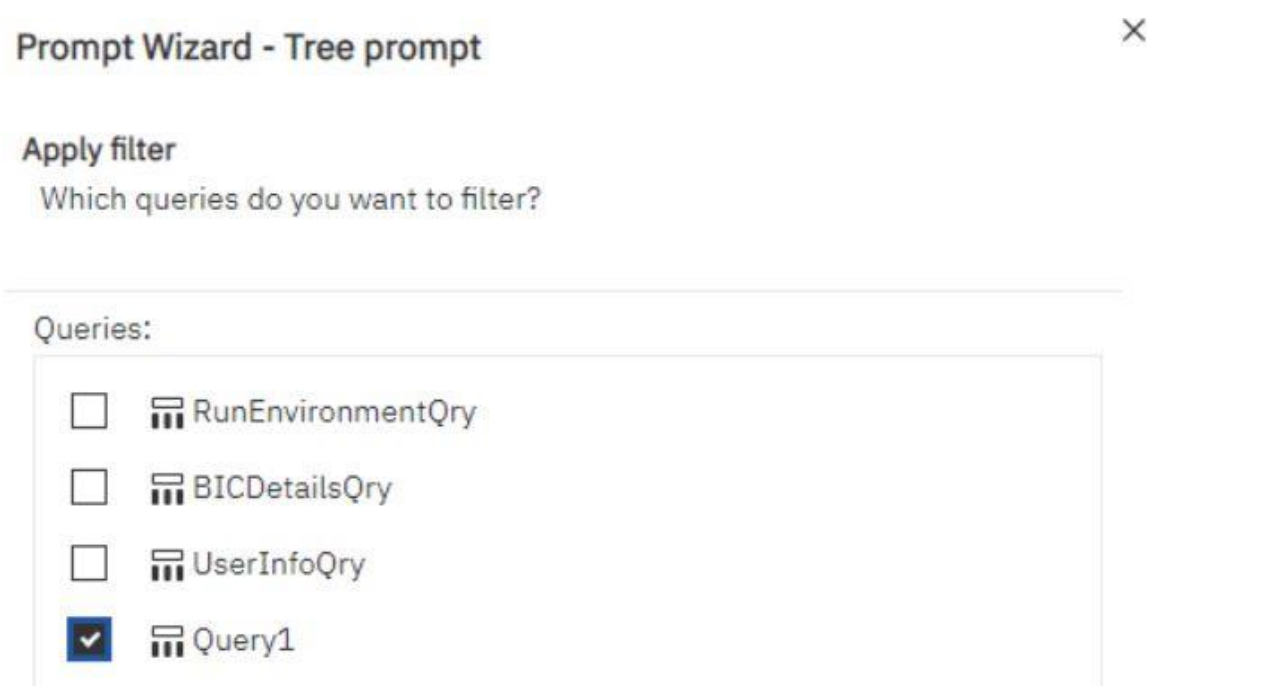


Figure 391 - Build your own Prompt and Prompt page - Prompt Wizard - Tree prompt - Apply filter

- Select the **“Create new query”** check box to create the query that will be used to build the list of data values shown when the report is run.

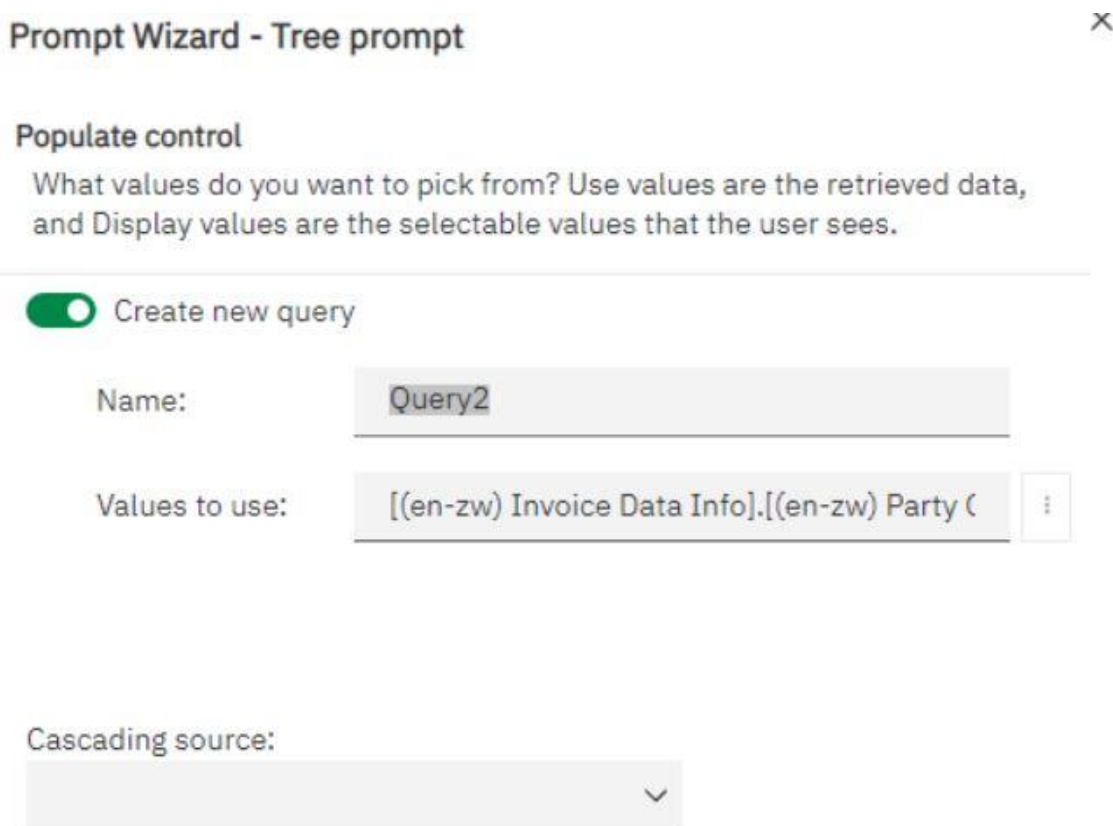



Figure 392 - Build your own Prompt and Prompt page - Prompt Wizard - Tree prompt - Create new query

- 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.

I 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.

I 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.

7.10.2 Create a Prompt Directly in a Report Page

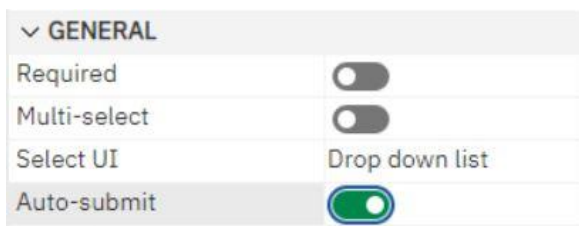
You can add prompt controls directly in a report page instead of creating a prompt page.

Prompt controls that are added to report pages will not appear in the following:

- I saved reports
- I PDF reports
- I 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.

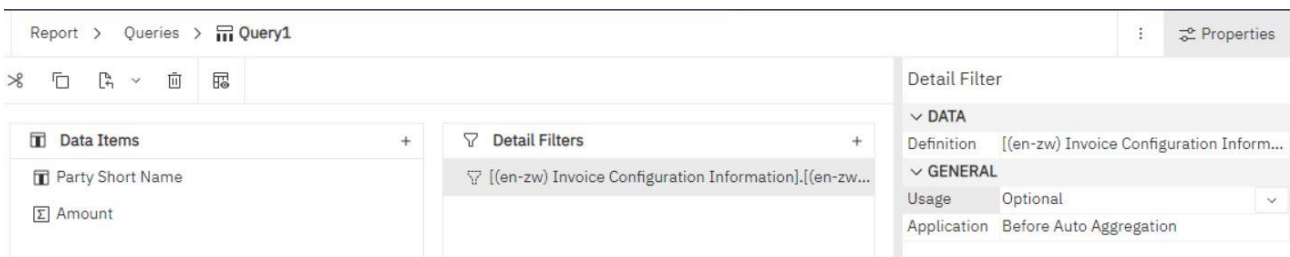



Figure 393 - Create a Prompt Directly in a Report Page

For inserting a prompt in your report page do the following:

- 1 Click the “**Toolbox**” icon (), drag a prompt control to the report.
The Prompt Wizard dialog box appears.

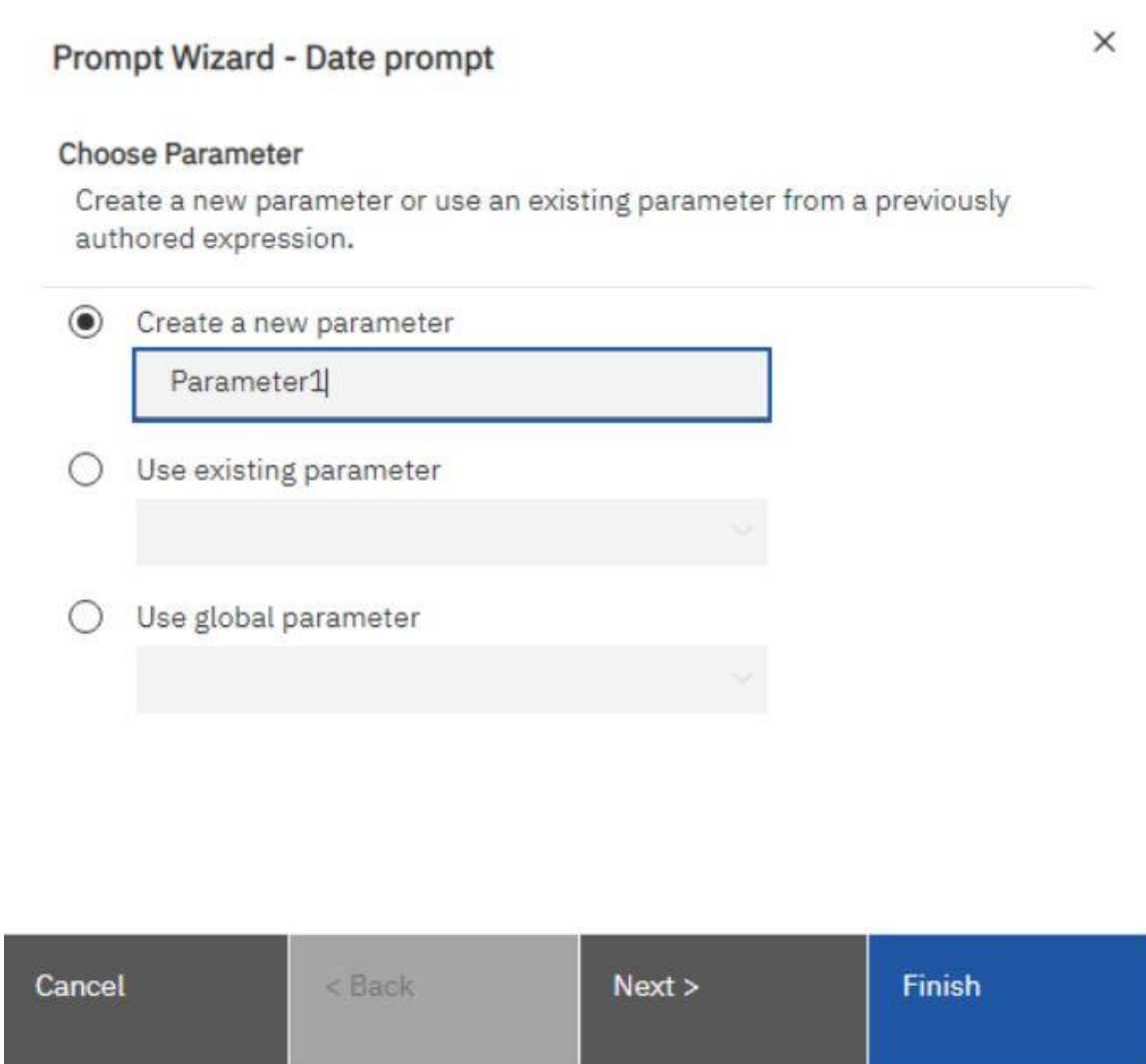


Figure 394 - Create a Prompt Directly in a Report Page - Prompt Wizard - Date prompt

- 1 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.

Prompt Wizard - Date prompt



Create Filter

Choose the package item that will be used to filter the report.

Create a parameterized filter

Package item:

Operator:

Parameter:

Make the filter optional

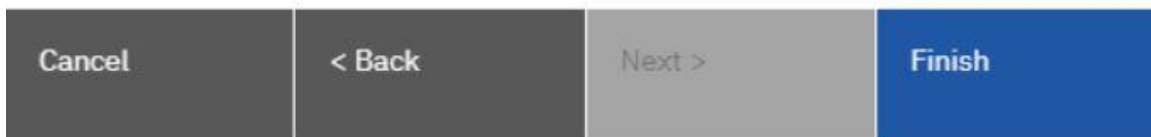


Figure 395 - Create a Prompt Directly in a Report Page - Prompt Wizard - Date prompt - Make the filter optional


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”**.

 Prompt button

▼ CONDITIONAL	
Style variable	
▼ GENERAL	
Type	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.

7.10.3 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.

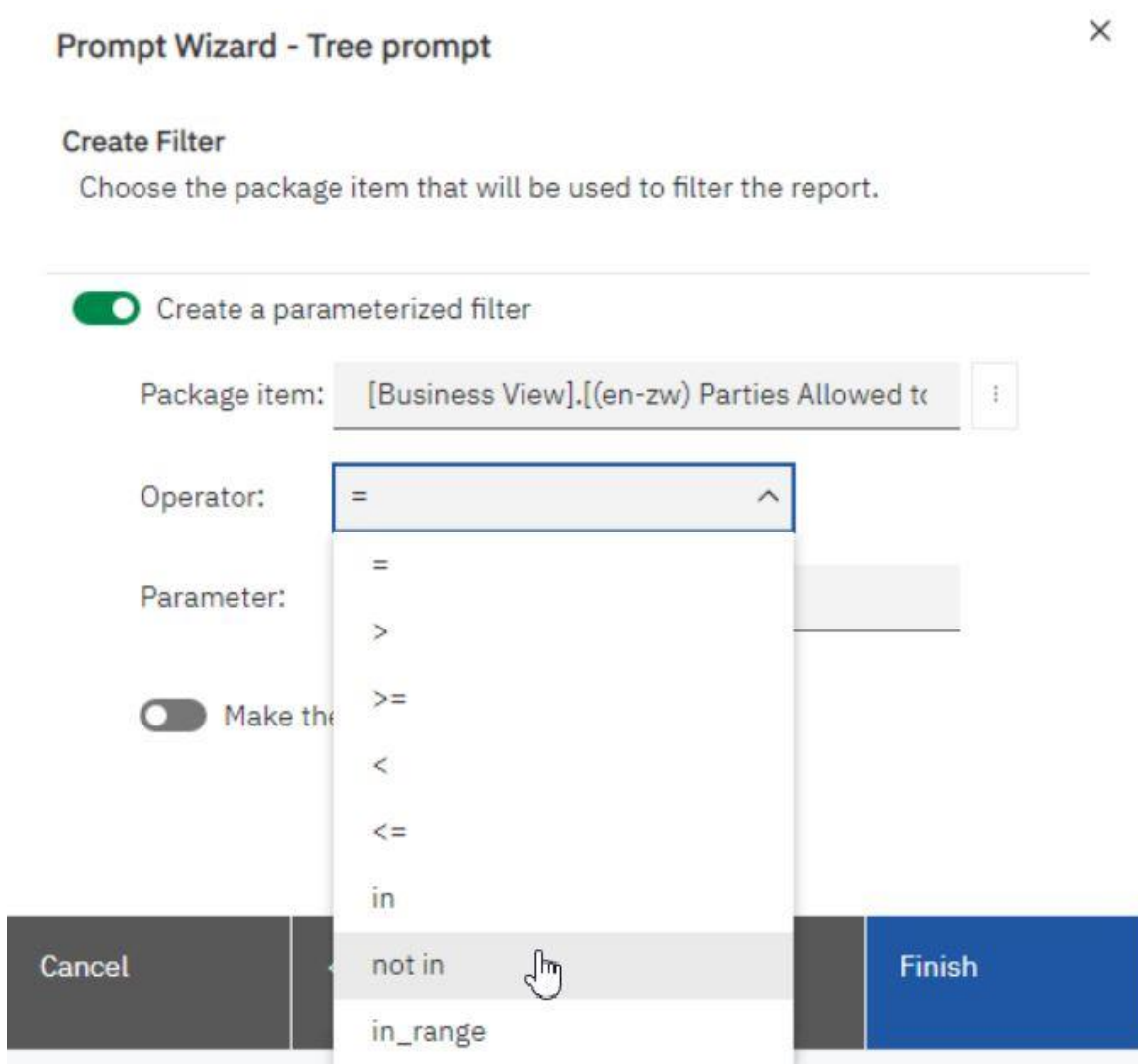



Figure 396 - Control the data that appears in a tree prompt - Prompt Wizard - Operator

- I Click the “Data items” icon (), and click the query that is associated with the prompt.
- I In the Data Items pane, double-click the data item on which you are prompting.
- I 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 105 - Control the data that appears in a tree prompt

7.10.4 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.

7.10.4.1 Choose a drop-down list, a list box, or a radio button group:

The following example is made for a value prompt:

- I Click the prompt control.
- I In the Properties pane, set the “**Select UI**” property to the interface

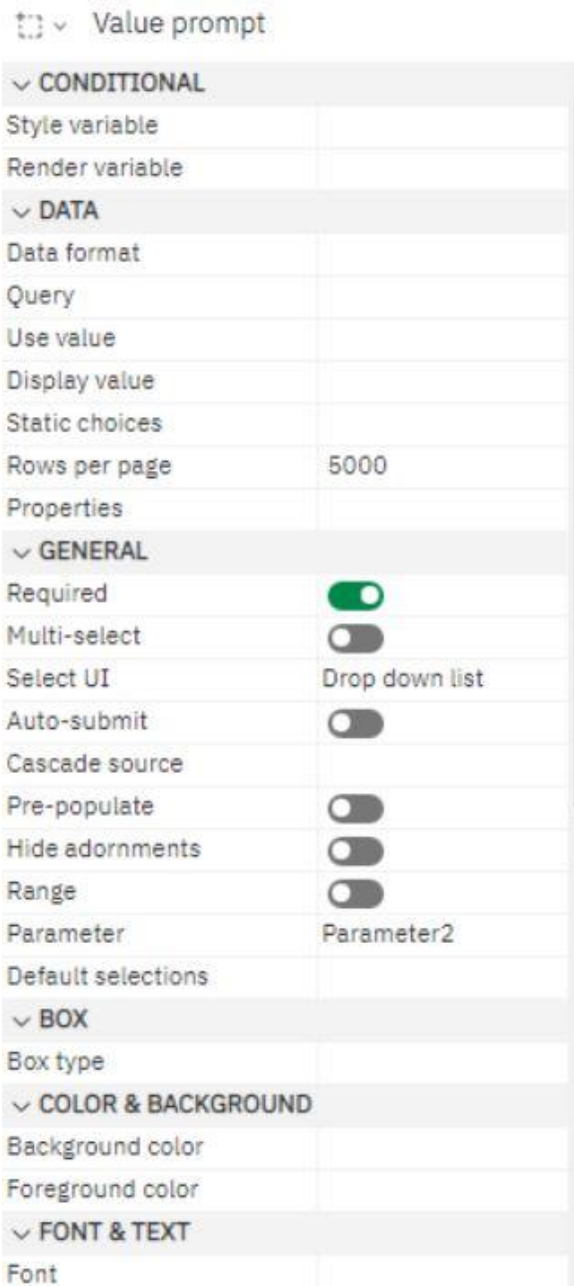


Figure 397 - Modifying prompts - Properties - General - Select UI - List box

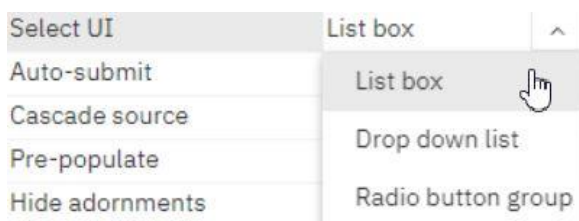
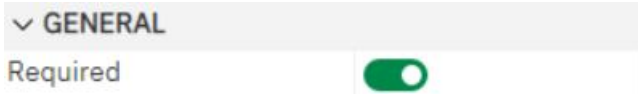



Figure 398 - Modifying prompts - Properties - General - Select UI - List box

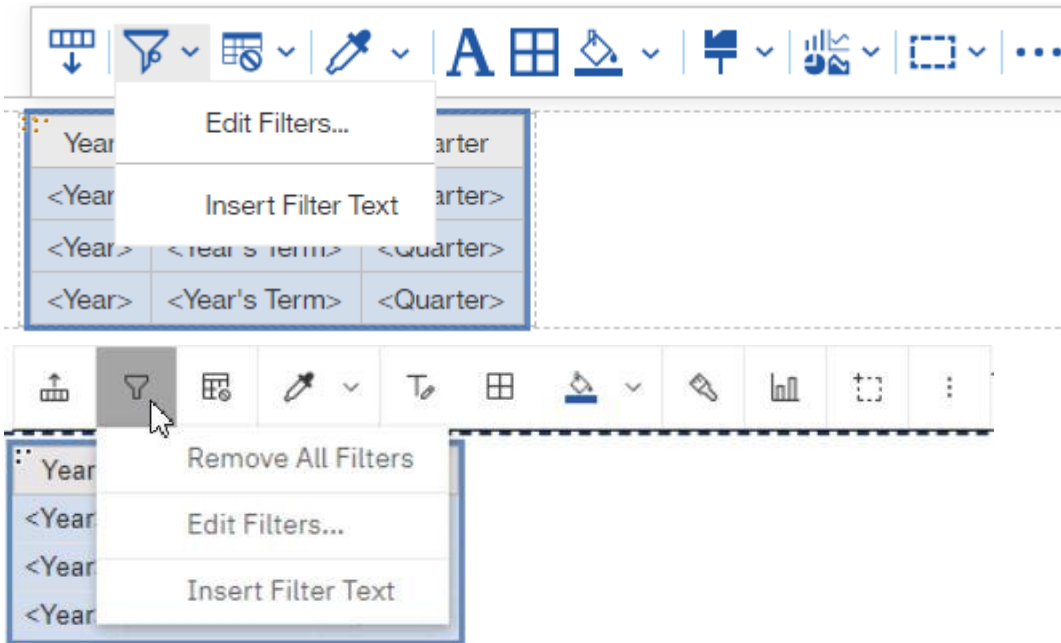
7.10.4.2 Prompt requires user input

You can specify that a prompt requires user input before the report can run.

- I Click the prompt control.
- I In the Properties pane, click the left side of the “**Required**” property checkbox.



- I Click the “**Pages**” icon ( Pages), and click a report page.
- I Click the report object associated with the prompt, from the report object toolbar, click “**Filters**” and then click “**Edit filters**”.



- I Click the filter associated with the prompt.
- I In the “**Usage**” box, click “**Required**”.

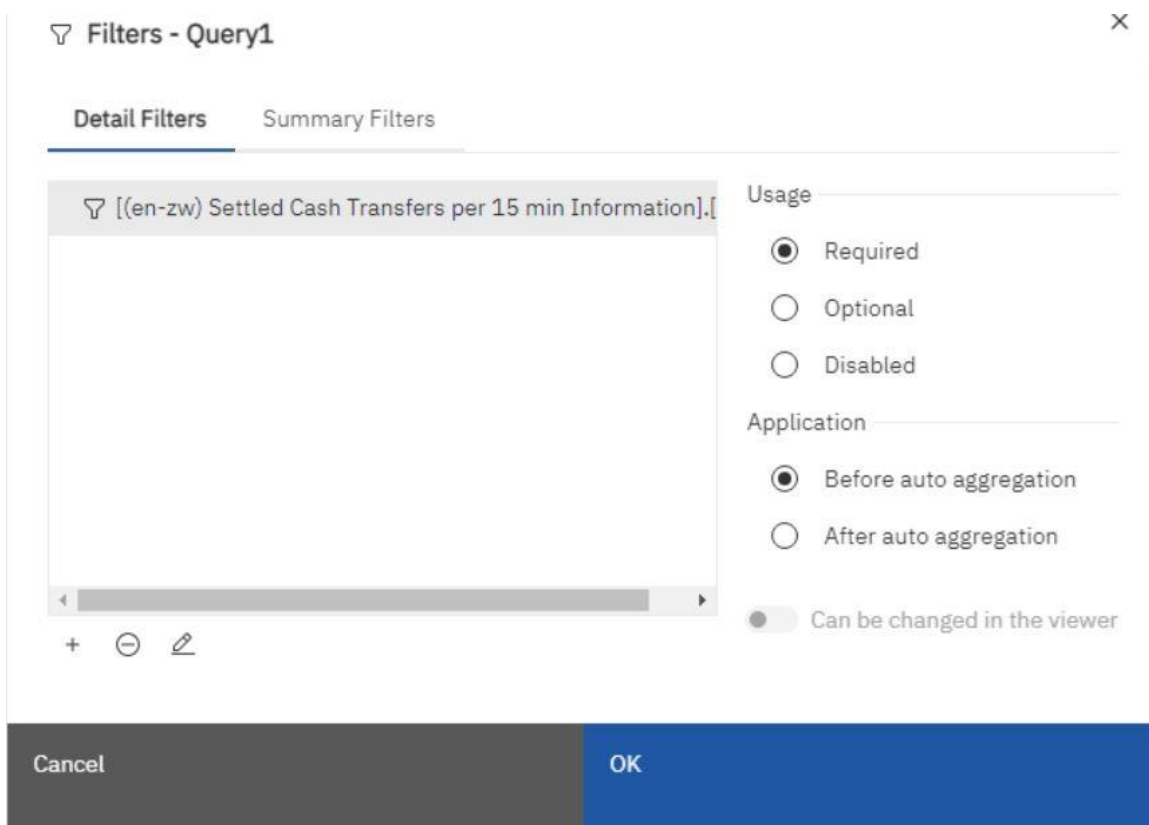


Figure 399 - Modifying prompts - Filters - Usage box

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.

7.10.4.3 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.

- I Click the prompt control.
- I 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”.

Value prompt

▼ CONDITIONAL	
Style variable	
Render variable	
▼ DATA	
Data format	
Query	
Use value	
Display value	
Static choices	
Rows per page	5000
Properties	
▼ GENERAL	
Required	<input checked="" type="checkbox"/>
Multi-select	<input checked="" type="checkbox"/>
Select UI	List box
Auto-submit	<input type="checkbox"/>
Cascade source	
Pre-populate	<input type="checkbox"/>
Hide adornments	<input type="checkbox"/>
Range	<input type="checkbox"/>
Parameter	Parameter2
Default selections	

Figure 400 - Modifying prompts - Properties - General - Multi-select

- I Click the “Pages” icon ( Pages), and click a report page.
- I Click the report object associated with the prompt, from the report object toolbar, click “Filters” () and then click “Edit filters”.
- I Double-click the filter associated with the prompt.

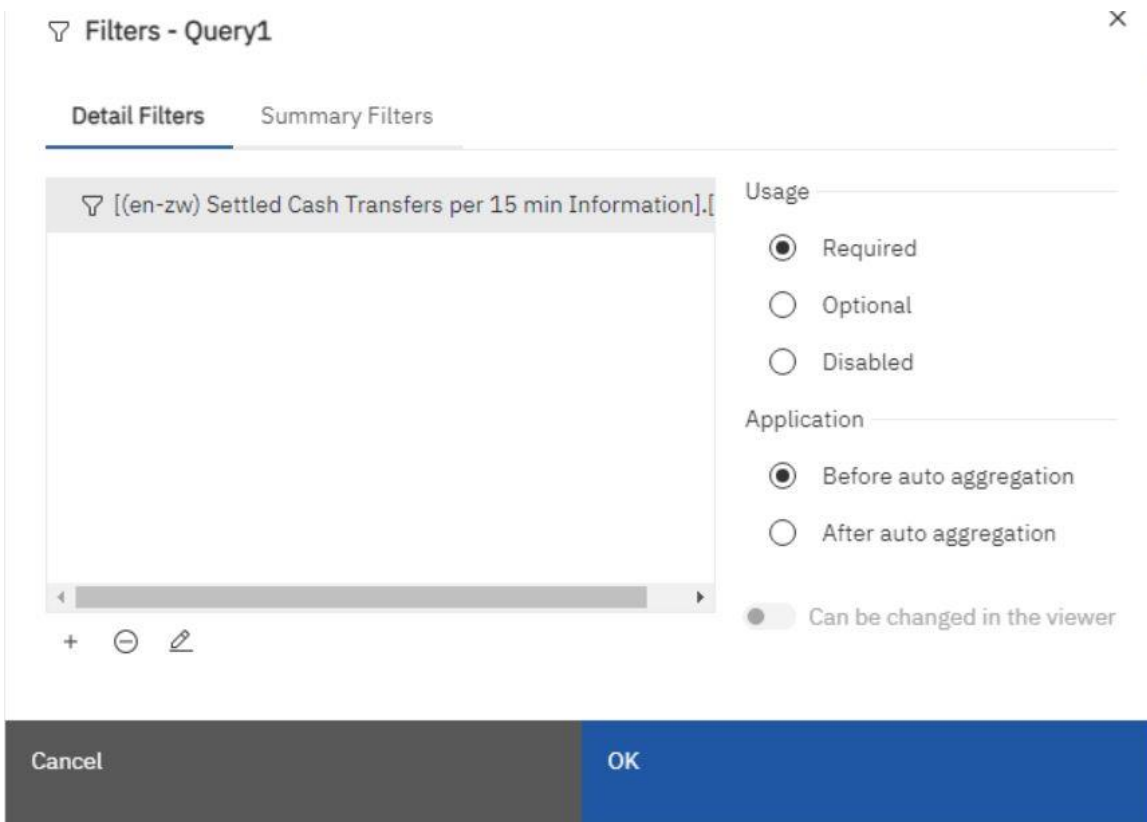



Figure 401 - Modifying prompts - Filters - Edit filters

Click the “**Edit**” icon () and type an operator like the following example:

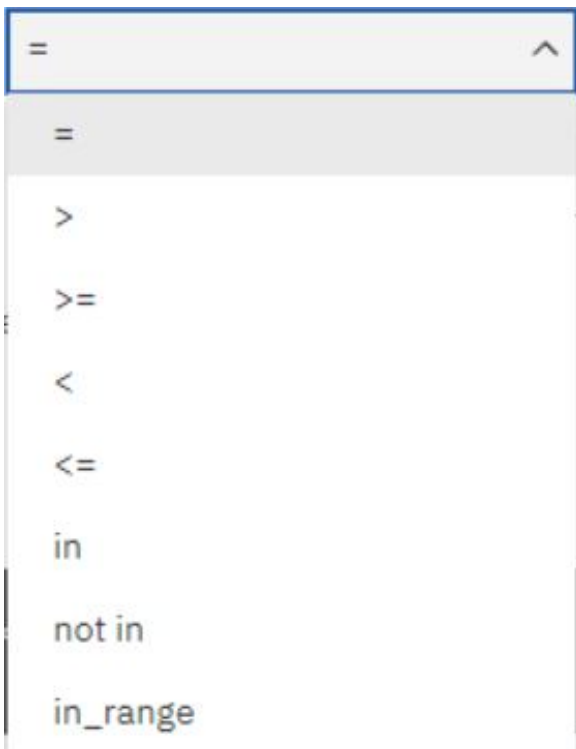


Figure 402 - Modifying prompts - Operator

Detail filter expression - Query1

Available Components:

- Enterprise Data Warehouse (Model)
 - Business View

Expression Definition:

```
[[en-zw] Parties - Cash Accounts - Other Info].[en-zw] Parties].  
[[en-zw] Party (Short)] = ?Parameter1?
```

Figure 403 - Modifying prompts - Detail filter expression

- I 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.
- I 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.

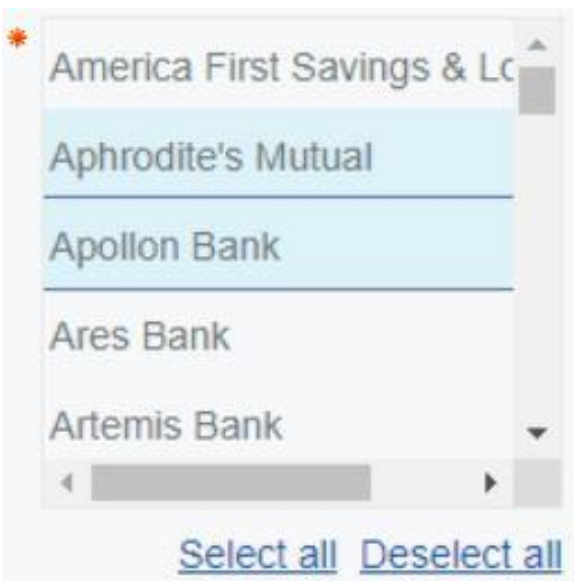


Figure 404 - Modifying prompts - Select more than one value

Another possibility is to click the prompt control and set the “Select UI” in the properties to “Check box group”.

Select UI	Check box group
Auto-submit	List box
Cascade source	Check box group
Pre-populate	

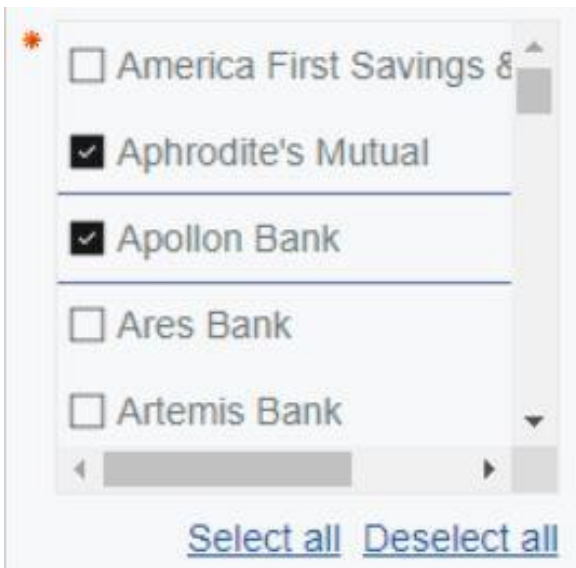


Figure 405 - Modifying prompts - Check box group - Select more than one value

7.10.4.4 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.

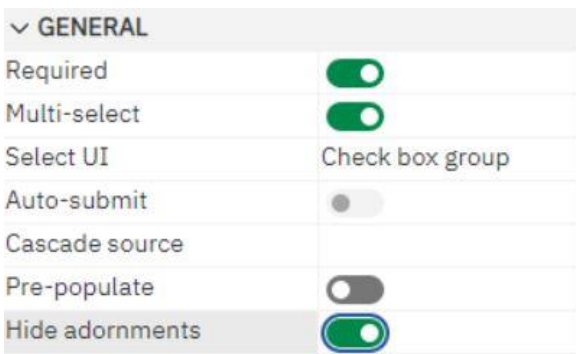



Figure 406 - Modifying prompts - Properties - General - Hide adornments

7.10.4.5 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.

- Click the prompt control.
- To define a range of values, in the Properties pane, click the right side of the “**Range**” property.

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.

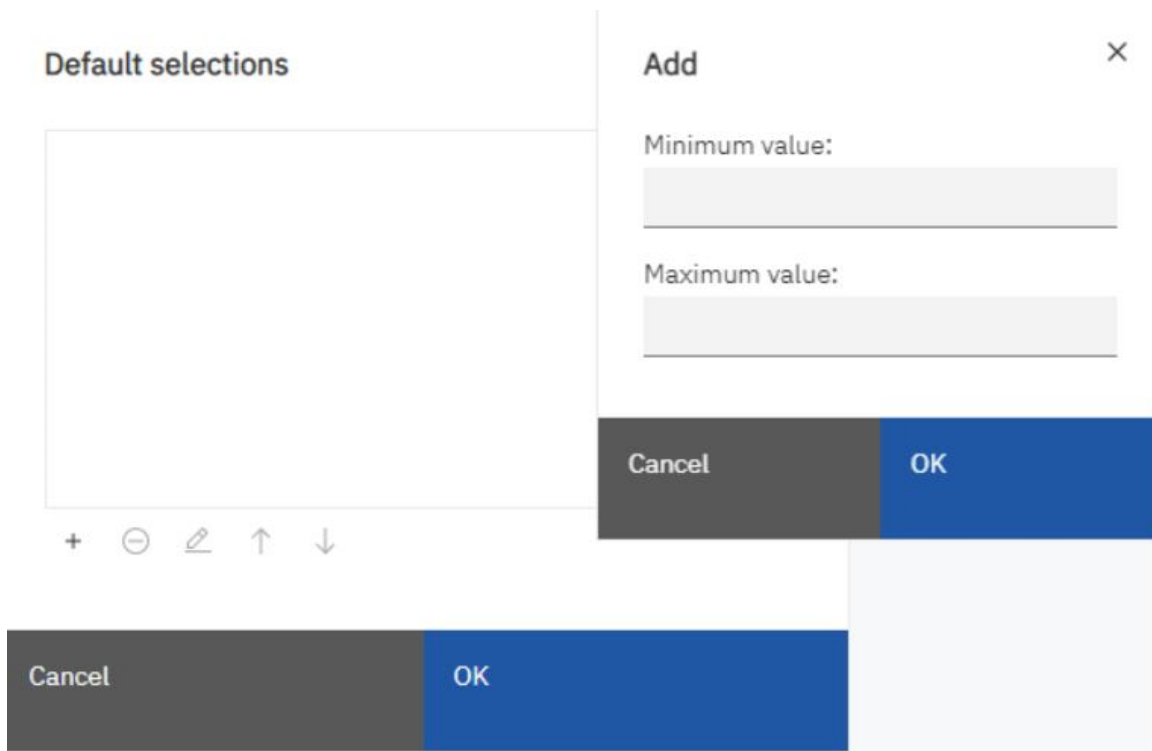


Figure 407 - Modifying prompts - Properties - Default selections - Minimum value/ Maximum value

6. Repeat step 4 to specify other default selections.

7.10.4.6 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”**.

- I Click the prompt control.
- I 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 408 - Modifying prompts - Properties - Prompt Text

- 1 Click **"Specified text"**, and then click the three dots button.

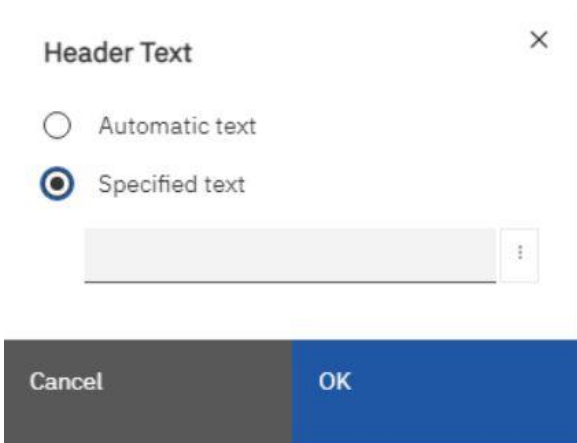


Figure 409 - Modifying prompts - Properties - Prompt Text - Header Text

- 1 In the **"Localized text"** dialog box, type the text that you want to appear.

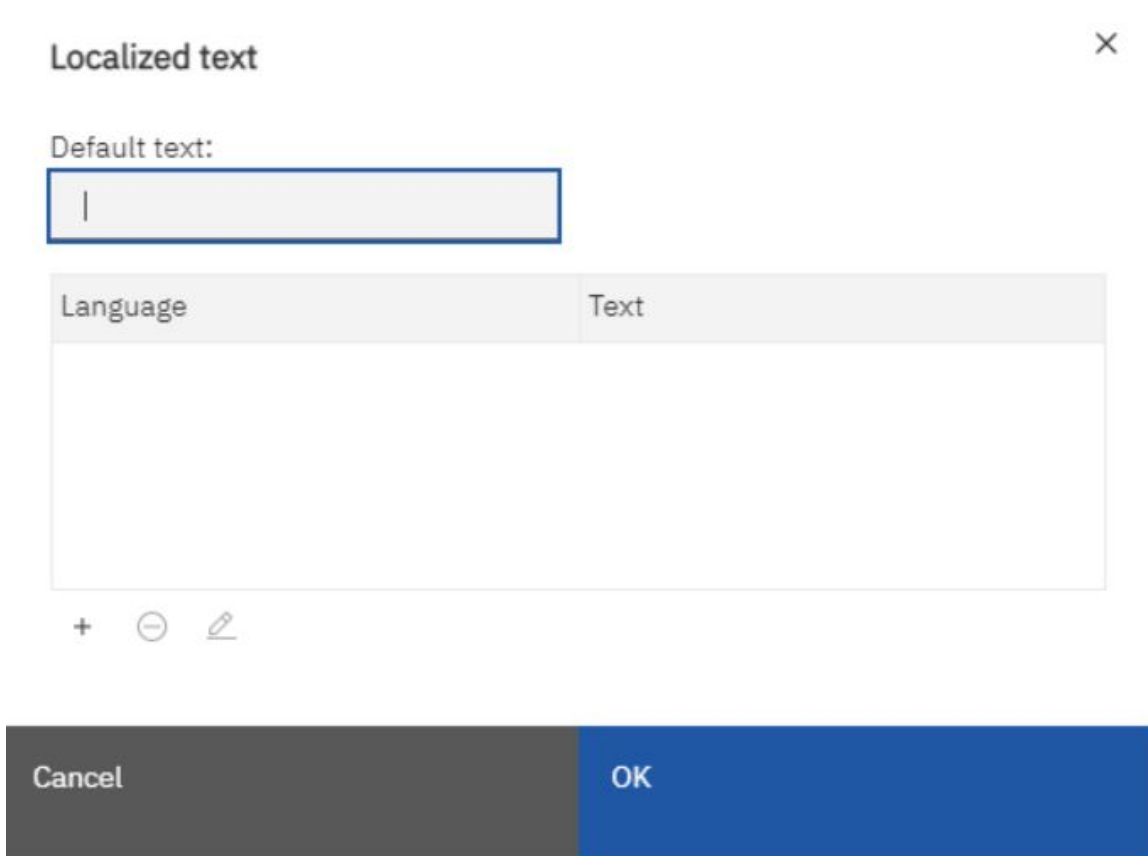




Figure 410 - Modifying prompts - Properties - Prompt Text - Header Text - Localized Text

7.10.4.7 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”**.

- 1 Click the **“Toolbox”** icon () () , drag **“Prompt button”** to the work area.

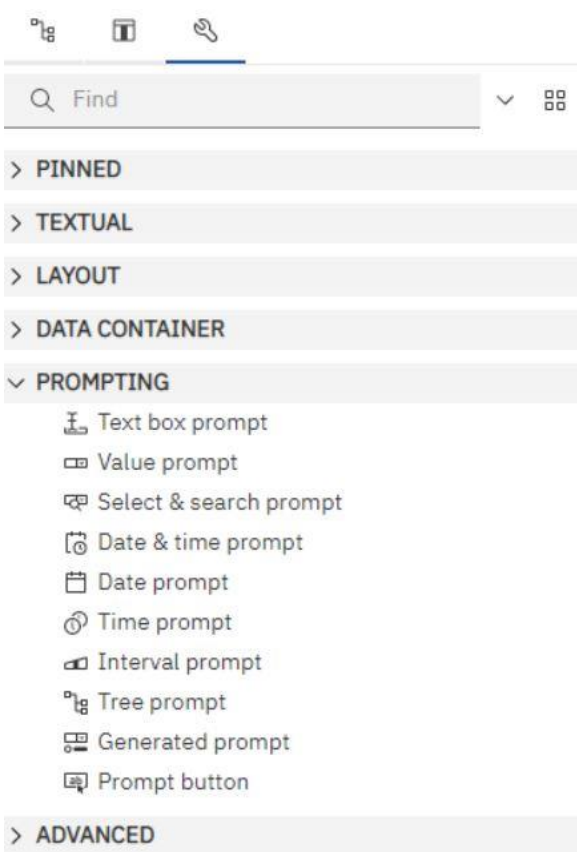


Figure 411 - Modifying prompts - Add prompt buttons - Toolbox - Prompt button

- 1 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

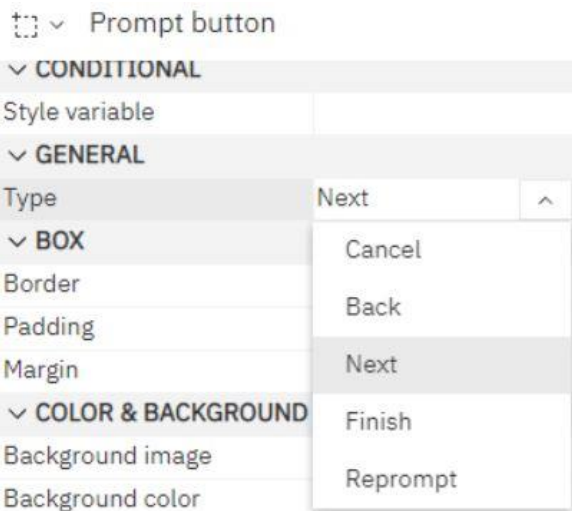


Figure 412 - Modifying prompts - Add prompt buttons - Prompt button properties - General - Type

7.10.4.8 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.

Value prompt

Rows per page	5000
Properties	
▼ GENERAL	
Required	<input checked="" type="checkbox"/>
Multi-select	<input type="checkbox"/>
Select UI	Drop down list
Auto-submit	<input type="checkbox"/>
Cascade source	<input type="text" value=""/>
Pre-populate	<input type="checkbox"/>
Hide adornments	<input checked="" type="checkbox"/>
Range	<input type="checkbox"/>
Parameter	Parameter1
Default selections	

Figure 413 - Modifying prompts - Value prompt - Properties - General - Cascade source

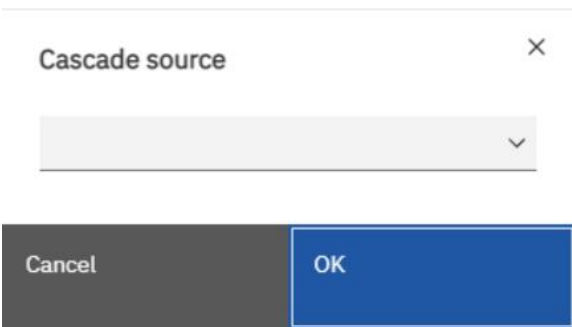

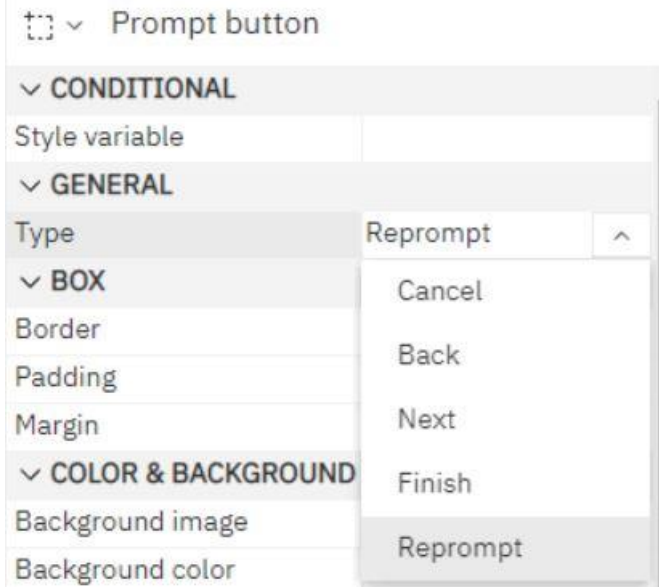



Figure 414 - Modifying prompts - Value prompt - Properties - General - Cascade source - Select Parameter

- | 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.

8 Additional information

8.1 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

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

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 modification	Object

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 ECONSH	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

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

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

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

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

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

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

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

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

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

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

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

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

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

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 106 - DWH objects

8.2 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 107 - List of CLM/RTGS inbound messages