

Advanced functionalities: Cross-currency

Euro Retail Payments Board



Where do we stand?

Tentative - timing subject to change

Use case prioritisation Report on focus groups with citizens and merchants

Design options to moderate take-up Distribution model

Compensation model Access to ecosystem Value added services Advanced functionalities

Prototyping results

Selection of service provider(s) for possible project realisation phase

Decision making document including advice on potential issuance digital euro, its design and implementation plan



July 2021

Governing Council decision to launch investigation phase

Q4-2021



Q1-2022

Q2-2022

Q3-2022

Q4-2022

Q1-2023

Q2-2023

Q3-2023

autumn 2023 Governing Council decision to possibly launch realisation phase

Project team on-boarding Governance set-up



On-line/off-line availability Data privacy level Transfer mechanism



Settlement model Distribution of amount in circulation Role of intermediaries Integration and form factor Funding and defunding Prototype development



User requirements

Preparation for possible project realisation phase decision making

Objective of today's exchange



Present the investigation of cross-currency payment functionalities for the digital euro.



Invite your feedback on the analysis of cross-currency digital euro payments functionalities identified by Eurosystem (followed by written procedure until 5 December) as input for Eurosystem preparations of final decisions on these functionalities by Governing Council in Q1 2023

What this dossier is about



Analysis of **design choices for cross-currency payments**, which are payments where the money sent by a payer and that received by a payee are denominated in two different currencies

→ debiting and crediting in different currencies and FX conversion

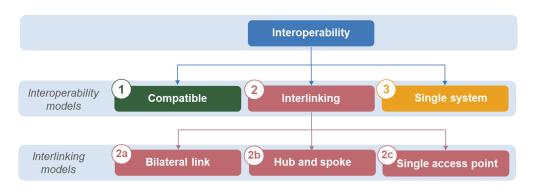
Context:

- work conducted under the auspices of the G20, in which three possible interoperability models are considered
- discussion on use cases that CBDC cross-currency payments could serve



G20/BIS models for interoperability applied to the context of retail CBDC

G20/BIS interoperability models applied to retail CBDC context



- Individual CBDC systems using common standards, such as message formats, cryptographic techniques, and data requirements
- Different CBDC systems are linked (e.g., set of contractual agreements, technical links, operational components), allowing participants to transact with one another without participating in each system
 - >>> Most realistic; Advanced economies
- 3 Shared single system among the multiple currencies involved in the cross-currency CBDC transaction
 - >>> Most ambitious; Regional (EEA) CBDCs; Impact on design of D€ back-end

Use cases and front-end considerations

Possible use cases to explore with other jurisdictions

A digital euro shall be developed with a view to **domestic payments first**Cross-currency use can only be considered for future releases and depending on the possible development of CBDCs by other central banks

Start exploration here?

Digital euro transactions



Person-to-person (P2P): a payment between two **people**





Consumer-to-business (C2B): : a payment for goods or services purchased in a **physical store** (point-of-sale payment) or online via **e-commerce**

Payments to the government (X2G, e.g., taxes) and by the government (G2X, e.g., allowances and subsidies)

Cross-currency transactions

1 1st cross-currency person to person payments
in CBDC with FX conversion (incl. remittances)

2nd digital euro users purchasing goods and services from an **online merchant outside of the EA** with currency conversion

digital euro users purchasing goods and services from a merchant outside of the EA at a physical point of sale with currency conversion

Not in scope for cross-currency

Way forward and discussion

Conclusions

 Prioritise the timely delivery of a digital euro that meets the needs of the domestic market

 Explore the interest of other jurisdictions towards establishing crosscurrency interoperability once both CBDC will possibly be in place

 Contribute actively to the discussion in the international fora, also working on standardization and harmonization as much as possible up front

Way forward



Further investigation on cross currency functionalities



Consultation of Eurosystem committees



Outreach to other Central Banks and international fora, as well as external stakeholders





Eurosystem views to be **updated in Q1 2023** based on the outcome of Eurosystem committees' consultation, preliminary external discussions and further internal analysis, and to be finalized towards the end of the investigation phase



Review of combined design decisions ("Bringing it all together") in Q2 2023 and feedback by stakeholders on overall design prior to Governing Council decision making thereafter

For feedback

We invite **reflections on all aspects of the analysis**, including the following questions:

- Do you agree that the digital euro should prioritise first the needs of the domestic market?
- What is your view on the **feasibility** of facilitating remittances & e-commerce payments for cross-currency transactions?
- What challenges do you see in achieving cross-currency interoperability under the various use cases?
- What obstacles do you see to the provision of cross-currency payments in digital euro? Which ones would the Eurosystem need to address concerning the provision of cross-currency payments in digital euro?

Thank you