

Rulebook development

ERPB Update





Building blocks for the scheme rulebook

We have identified 6 building blocks, numbered from A to F, covering together all sections of the digital euro rulebook¹

Building blocks	Digital euro rulebook	
F. Scheme generics	1. Document information - References, defined terms, change history, purpose, ownership of the document 2. Digital euro scheme scope and interplay - Vision and mission statement, scope, actors, binding nature of the rulebook, separation between scheme and payment infra., benefits of the scheme, additional optional services, scheme participation fees²	4
A. Functional & operational model	3. Functional and operational model — Generic processing flows / end-to-end flows, core requirements / service endpoints / list of attributes, identification & authentication / list of SCA approaches, min. UX standards ³	
B. Adherence model	 4. Adherence model Scheme participation, reachability & interoperability, eligibility criteria, becoming a participant, scheme register of participants, obligations of participants, liability, compliance and enforcement, rules of supervision, termination, exemptions and potential bilateral agreements, intellectual property, contractual provisions, applicable regulatory / legal framework, governing law 	•
C. Technical scheme requirements	5. Technical scheme requirements — IT infrastructure, IT security, Connectivity (e.g., API implementation), interplay with European standardization initiatives (specifications), interface standards / specifications³, non-functional requirements	
D. Risk management	6. Risk management	
E. Scheme management	7. Scheme management - Scheme management board, change management process, brand management, scheme operations	
	8. Defined terms and abbreviations	_
	9. Annexes	
	 Illustrative client journeys and client products, branding standards³ 	
	 Adherence and related documents¹, description of AML fulfillment and sanctions requirements 	
	 Business conditions and commercial terms² 	
	 Functional and technical architecture document including register, SLRs / KPs, reporting requirements and guidelines, reconciliation, interoperability policy to other payment systems 	
	- Incident management, implementation guidelines including technical standards, certification and approval framework, onboarding document / toolkits3	

The digital euro legal act currently being prepared may impact the rulebook scope and content and may require subsequent adjustments

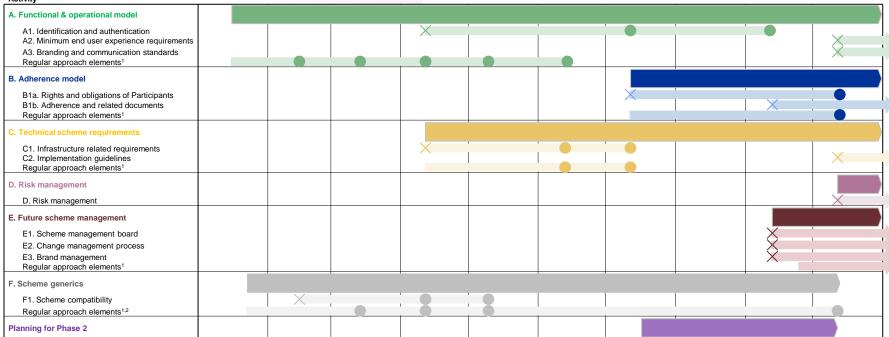
^{2.} Out of scope of Rulebook Development Group

^{3.} Out of scope of current phase; to be detailed as part of implementation phase Note: Overlaps with other engagement groups may materialize

High-level approach for the development of the scheme rulebook

High-level approach

Activity



X Launch of workstream mandate

6

Reflection on building blocks

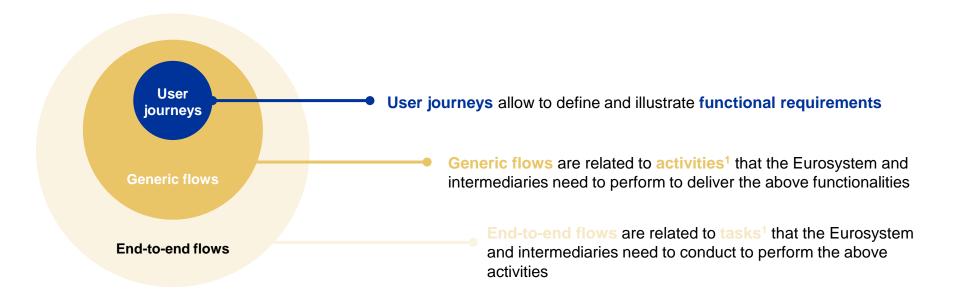
^{1. &}quot;Regular approach" elements – i.e., sections of the rulebook drafted by the rulebook team without interactions with a dedicated workstream; 2. Updated references and defined terms and abbreviations will be presented on a regular basis to the RDG

User Journeys



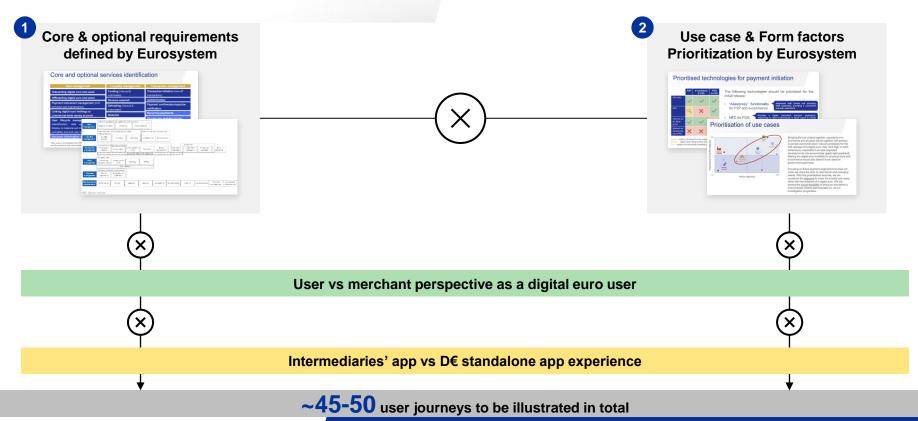
Why focusing on user journeys?

In particular, client journeys inform functional requirements, which in turn inform activities necessary from the Eurosystem and intermediaries, and thereby "generic flows", in turn informing tasks and "end-to-end flows"



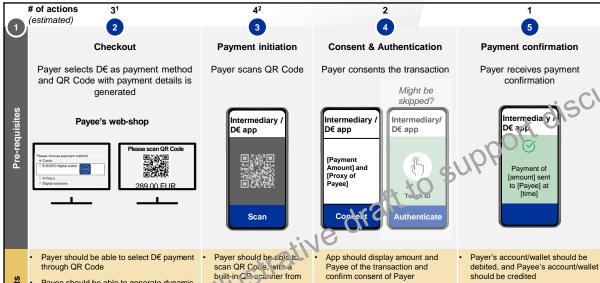
^{1.} Activities and tasks related to communications between the different intermediaries and with the Eurosystem; internal activities and tasks are out of scope of generic flows and end-to-end flows

A long list of ~45-50 journeys has been identified (including variations of similar use cases)



TM 1.4 – E-Com (incl. C2G) payment with QR Code

Use Case: Payer completes payment by scanning QR Code generated by Payee





- Payer and Payee must be enrolled
- Payee must accept D€ as a payment method
- Paver must be purchasing in desktop or have two devices [limitation]

Open points to be tracked because they will impact the journeys

- Standard selected for QR Code (e.g., EPC) could have impacts on type of information that can be channeled through the QR
- Selection of payment method: should an intermediate step be included in Step 2 for the selection of QR Code as the payment method?
- Authentication: authentication step may perhaps be skipped because the payer has authenticated earlier or because the amount is below the regulatory threshold for mandatory authentication

- Payee should be able to generate dynamic QR Code (to support encoding of the amount)
- Generated QR Code should be valid and compliant (e.g., with the EPC QR Code rulebook)

Business

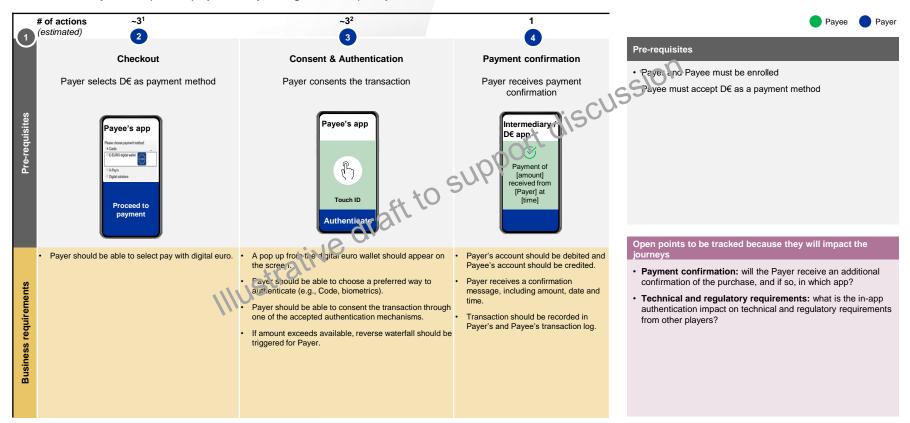
- their payment app
- Paver should be able to consent the transaction through one of the accepted authentication mechanisms
- Payer should be able to choose a preferred way to authenticate (e.g., code, biometrics)
- If amount exceeds available balance, reverse waterfall should be triggered for Payer
- Paver receives a confirmation message, including amount, date, time, and merchant name
- · Transaction should be recorded in Payer's and Payee's transaction log

1. Select digital euro, select QR Code and QR Code generation

2. Open app, authenticate, select scan QR and scan QR

TM 1.6 – M-Commerce payment (in-app)

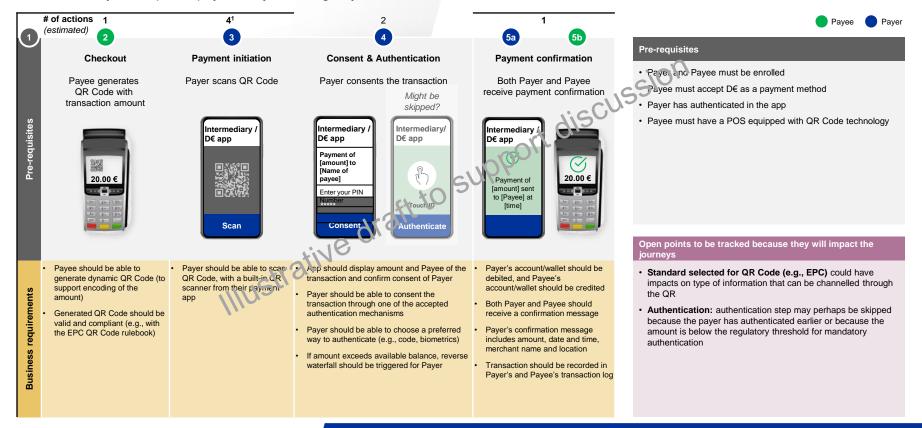
Use Case: Payer completes payment by using an alias/proxy



^{1.} Select digital euro, select alias/proxy and insert alias/proxy

TM 1.1 – POS payment with Payee-generated QR Code

Use Case: Payer completes payment by scanning Payee's QR Code



TM 1.2 – POS payment with NFC

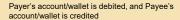
Use Case: Payer completes payment by using NFC technology



be provided by activation of smartphone before bringing device near the NFC reader

Payment confirmation

Both Payer and Payee receive payment confirmation



- Payer's confirmation message includes amount, date and time, merchant name and location
- Transaction should be recorded in Payer's and Payee's transaction log

Pre-requisites

- Payer and Payee must be enrolled
- Payee must accept D€ as a payment method
- Payer has authenticated in the app
- · Payee must have a POS equipped with NFC technology

Open points to be tracked because they will impact the journeys

Smart devices: "smart devices" allowed for NFC transactions (e.g., watches?)