Q&A on PSD2 & RTS

Contents

1. Scope of application of PSD2 and the RTS
2. Implementation of Strong Customer Authentication (SCA)
3. Risk management and exemptions to SCA
4. Interfaces and data exchange

Scope of application of PSD2 and the RTS

> Which entities are affected by PSD2/RTS and must comply with their requirements?

PSD2/RTS target any Payment Service Provider (PSP) involved in payments, money transfer, or access to accounts.

- **Account Servicing Payment Service Providers (ASPSP):** entity that holds the consumer’s account(s), mainly "banks".
- **Payment Initiation Service Provider (PISP):** provider that establishes a bridge between a merchant/payee and the online banking’s platform of the payer to initiate the payment.
- **Account Information Service Provider (AISP):** provider consolidating customer’s financial information from different bank accounts.
- **Third-Party Provider (TPP):** term that covers AISP and PISP roles

> What are the key points addressed by the RTS?

RTS covers:

- The mandate to implement Transaction Monitoring mechanisms to detect unauthorized or fraudulent payment transactions
- The implementation of Strong Customer Authentication (SCA), authentication codes and dynamic linking
- Exemptions to SCA
- Requirements on confidentiality and integrity of authentication data
- The implementation of secure and open communication between players including the obligation for ASPSPs to set up dedicated interfaces for AISPs and PISPs
> For which type of transactions does PSD2 apply?
PSD2 and RTS apply to any online access to a payment account, any electronic payment, or any action through a remote channel which may imply a risk.
So, proximity payments at cashier or at self-service machines and of course remote payments including card-not-present transactions in e-commerce are impacted.
Nevertheless, limited network / closed-loop payments are excluded of PSD2 and RTS scope.
Corporate Banking is also covered by PSD2. RTS introduce a specific SCA exemption for Corporate Banking, if the system used for that purpose sticks to RTS other security requirements and is considered “satisfying” by the Competent Authorities.

> Does PSD2 apply to Banks and Fintechs in the European Union only?
PSD2 and RTS requirements apply to all payment accounts (for access to accounts and payment initiation) hold by a PSP in the European Union (EU).
These requirements don’t apply in the case of:
• Access to account data when the account is hold by a PSP outside of the EU
• Transactions when the account is hold by a PSP outside of the EU
• Transactions when the payment instrument was issued outside of EU and used within the EU

> When will PSD2 and the RTS be enforced?
PSD2 came into force in January 2016. RTS have been released on November 27th, 2017 and formally approved by the European Authorities on March 13th, 2018, opening to an 18 months delay for actual implementations. So, all European banking and payment players must be fully compliant on September 14th, 2019.
Six months before, on March 14th, 2019, banks shall have their Open APIs facilities ready to be tested by TPPs.
In parallel, by January 13, 2018, all member states were expected to have transposed and implemented the PSD2 into national law

> Does PSD2 define SEPA transfer flows?
No, the rules and technical standards for the execution of SEPA payment transactions are defined in the SEPA Credit Transfer (SCT) and SEPA Direct Debit (SDD) Rulebooks and must be followed by adhering payment service providers. These schemes are developed by the European Payments Council (EPC) based on technical standards defined by standard bodies such as ISO.
PSD2 and RTS only precise under which conditions, mainly from a security perspective, SEPA transfers and other electronic transactions should be operated.

> Does PSD2 include the new Interchange Fee Regulations?
The new Interchange Fee regulation is part of another European directive ((UE) 2015/751) released in April 2015. PSD2 does not replace this directive, and thus this new interchange regulation is still valid.

> What is the registration process for TPPs? Are banks involved in this process?
The conditions and modalities according which TPPs will identify and be registered is described in the RTS (Art. 34 and ssq.). eIDAS certificates will be used for that purpose. Competent Authorities [National or European] will register their respective TPPs
Implementation of Strong Customer Authentication (SCA)

> Does SCA require the use of a hardware token?

SCA requires the combination of at least 2 factors amongst 3 types: Possession (what I have) / Knowledge (what I know) / Inherence (what I am). A hardware token is a form of possession factor but is not the only one e.g., a payment card or a mobile phone leveraging device-binding can also be used. The use of a hardware token may not be sufficient to meet RTS requirements: a 2nd authentication factor (e.g. PIN code), dynamic linking and the generation of an authentication code are required.

> Is the usage of a PIN or fingerprint sufficient for SCA?

SCA is the combination of at least 2 factors amongst 3 types: Possession (what I have) / Knowledge (what I know) / Inherence (what I am)

- A PIN alone is not sufficient (only “what I know”)
- A fingerprint alone is not sufficient (only “what I am”)
- A PIN + fingerprint combination is theoretically compliant but PIN or fingerprint are more commonly associated with a Possession factor (device)

SCA also requires dynamic linking and the generation of an authentication code.

> Do the RTS specify the cryptographic technology to be used for SCA? [PKI, OATH, EMV...]

No, RTS never specify any explicit technology to be used for SCA.

> Should SCA be systematically managed by the ASPSP?

RTS does not differentiate requirements for ASPSPs, PISPs or AISPs. All these PSPs are subject to RTS requirements.

In practice:
- ASPSPs MUST manage SCA in the conditions described in RTS
- PISPs and AISPs:
  - MAY rely on the sole ASPSPs’ SCA process
  - MAY operate their own SCA processes
  - MUST prove the consumer has given them a consent to operate on his behalf

> Do TPPs have to use the same type of SCA method as the ASPSPs?

See previous answer. TPP may use the SCA method of the ASPSPs, or implement their own SCA method. Without specific agreement between TPP and ASPSPs, the ASPSPs will have the “final word” about SCA, as they are liable.

> What is an authentication code?

An authentication code is the resulting certificate that reflects, at the end of a SCA process, that the customer has given his consent and has authenticated.

In case of remote payments or fund transfers, the authentication code must be “dynamically linked” to the transaction, meaning taking into account the transaction’s amount and beneficiary. “Dynamic linking” is PSD2 / RTS wording for “Transaction signature”.

Other requirements for authentication codes, such as unicity, are described in the RTS.

> Does Dynamic linking (Transaction amount and Payee) apply for Proximity payments?

SCA applies to all kind of electronic payments. Dynamic linking only applies to remote transactions, due to their higher potential risk (RTS recital 3).

> Does EMV standards meet the RTS requirements?

EMV standards do meet the RTS requirements for proximity payment transactions. EMV Chip-and-PIN transactions are fully compliant with SCA requirements from RTS. (As a reminder, dynamic linking requirements do not apply to proximity transactions.)

> Are standard 3D Secure protocol (3DS) and SMS OTP compliant with RTS?

3-D Secure is a protocol adopted by the main payment networks putting in relation a cardholder with his issuing bank (“ASPSP”) as part of an e-commerce card-not-present transaction. It allows the issuer to trigger an out-of-band authentication.

The authentication methods the issuer uses within 3DS frame may be compliant or not with RTS actual security requirements.
Risk management and exemptions to SCA

> Is Risk Management mandatory?
Yes PSD2 / RTS mandate PSP to operate transaction and risk monitoring in order to:
- Assess, detect and prevent risks linked to payment and access to account operations
- Evaluate the level of risk in order to find a balance between security measures and user convenience

> What are the requirements for Corporate Banking?
RTS requirements apply to all electronic payment transactions and remote access to Payment Accounts. Corporate Banking operations of this nature are thus also subject to PSD2 and RTS requirements. RTS introduce a specific SCA exemption for Corporate Banking, if the system used for that purpose sticks to RTS other security requirements and is considered “satisfying” by the Competent Authorities.

> What types of mobile security measures are necessary to protect the mobile device for SCA?
The RTS lists different security requirements applying to multi-purposes devices (as tablets and mobile phones). These requirements cover:
- **Data Protection**: ASPSP must ensure that confidential data are not stored on device, or are encrypted, and that access to such data requires SCA
- **Secured Communication**: ASPS must ensure that all communication with/from the device are limited to needs, encrypted, and only between authenticated and legitimate sources
- **Separated environment**: Authentication data must be stored and processed in specific secure environments that cannot be accessed if the mobile is stolen or used by a non-legitimate user
- **Device and software integrity**: Strong obfuscation, anti-rooting, anti-debug (Runtime Application Self Protection technology)...
Interfaces and data exchange

> Are banks required to provide Open APIs? What types of accounts are concerned?
Yes, ASPSPs are required to provide dedicated interface [mainly Open APIs] allowing TPP to:
- Initiate Payments
- Access to Payment Accounts (XS2A)
These interfaces must allow TPP to rely on the authentication procedures provided by the ASPSP.
Only payment accounts are concerned by PSD2 and RTS (checking accounts etc…). Thus, savings accounts and other types of accounts don’t have to be accessible via these Open APIs, it will be up to the banks to decide.

> Who can access to these Open APIs?
Any TPP will have the possibility to access these Open APIs, as long as:
- They have a clear consumer consent
- They are properly registered as TPP.

> Do PSD2 or the RTS define a standard for Open Banking APIs?
No standard of Open Banking APIs is defined by PSD2 or the RTS. Each ASPSP is free to implement its own Open API layer, as long as they comply with RTS requirements in terms of SCA, Risk Monitoring, security and interface requirements.
Some banks have already launched API hubs like BBVA or Nordea.
In parallel, regional associations of banks or processors are working on a common standard of Open APIs (e.g. UK Open Banking Working Group, STET, Berlin Group…) and have recently published their first version of specifications. As an example, a first version of UK CMA Open Banking API specifications has been released public on the 5th of July.

> Can Banks monetize the access to APIs?
As Banks are mandated to provide an access to TPPs without any existing contract between TPP and ASPSPs it will be difficult for Banks to monetize the access to the required minimal APIs.
Banks can charge TPP and their end-users for the use of these Open APIs only if the Bank charges its own customers for using the same service through the Bank’s online portal, App (or branch).
For example, if a Bank decides to charge SEPA transfers done by its customers, it could monetize its future Payment Initiation API.
ASPSPs will have though the opportunity to offer premium Open API to TPPs allowing them to monetize supplementary data and services, provided on top of the minimal APIs mandated by PSD2:
- Access to other type of Accounts [savings, credit…]
- Enriched data [customer segmentation, extended transactions history…]
- New services [KYC, credit offer…]

> Which Open API standard banks are most likely to follow?
It’s hard to guess what will happen in the coming months. It will depend on each bank strategy, but also on the quality of the “standards” published by regional initiatives.

> Are banks encouraged by EBA to share and exchange APIs?
The “spirit” of the PSD2 is to facilitate consumer access to their banking data and drive innovation by encouraging banks to exchange securely customer data with third parties. The best way to do so is to publish Open APIs.