ENABLING YOUR ORGANIZATION TO IMPLEMENT PSD2

Building the Foundation for Your Digital Business

If you are a financial institution or a third-party payment provider, now is the time to rethink your digital business strategy. The game-changing revised Payment Service Directive (PSD2) is top-of-mind for key stakeholders across organizations. We've gathered major dates and outlined our innovative and secure solutions that could help you become PSD2 compliant and also enable you to take your business to the next level.

Digital business is no longer a "nice to have," it's a requirement

With the rise of cloud and mobile, digital transformation is inevitable. Consumers expect a quick and easy user experience, so to remain competitive, its delivery is a must. And with PSD2, you are now required to provide a balance between security and usability — with trust at the foundation of your business strategy.

PSD2 intends to make banking more about the consumer — with new requirements that enable easy and secure banking in the digital age — and less about pure transactions. Strong Customer Authentication (SCA) and Secure Communications (SC) appear to be at the center of this quest to empower consumers to securely manage their online banking and transactions.

Make the most out of your PSD2 transformation by finding a solution that not only provides strong security to meet new requirements but also empowers you to deliver more value to your customers to differentiate your brand as more players enter the space.

Trusted identities will be the key to your success

Let's face it, consumers now demand instant gratification. Whether they are accessing bank accounts, transferring funds, conducting a transaction or interacting with their payment provider, consumers expect anytime, anywhere, secure access to digital banking.

With trusted identities, you can provide your customers with one identity for all of their digital banking needs, and leverage next-gen, high-assurance mobile and open banking solutions to ensure their user experience is simple, secure and transparent. And you can leverage this as an opportunity to improve the consumer experience, keeping your digital business competitive in this digital era of disruption.

Solution Benefits

Deploy fast, manage with ease — deploy your way with cloud, turnkey appliance or traditional on-premise software

Build at your pace — start with simple use cases and expand as your business evolves

Improve customer experiences — leverage modern solutions that remove friction and frustration while delivering high security

Lighten your load — work with a Trusted Advisor with over two decades of experience helping the world's most security-conscious organizations
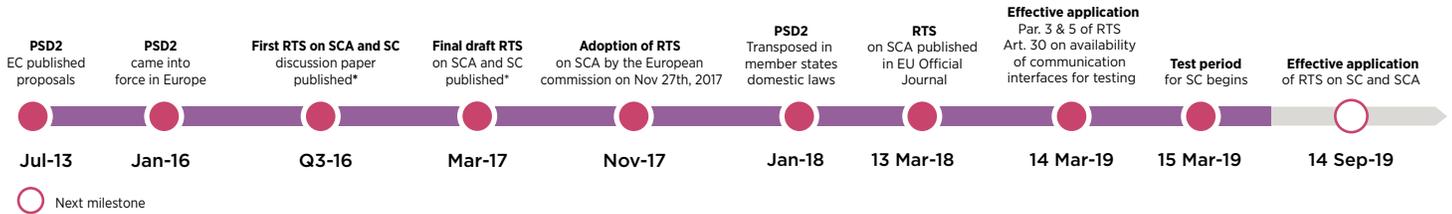
Gain peace of mind — maintain PSD2 compliance for SCA and SC

Entrust Datacard®

General PSD2 overview and how we can help

PSD2 is an EU Directive that requires European banks to provide communication interfaces through open APIs to Third Party Providers (TPPs) and ensure that payments are safer and more secure with Strong Customer Authentication (SCA), fraud detection, and Secure Communication (SC) channels and consumer information. By regulating digital commerce, PSD2 will protect consumers' interests and promote competition in the financial service industry through a regulatory framework. Although PSD2 was transposed into national law by Member State on January 13, 2018, the European Banking Authority (EBA) mandated regulatory technical standards (RTS) on SCA and SC that will need to be implemented by September 2019.

PSD2 EC published proposals	PSD2 came into force in Europe	First RTS on SCA and SC discussion paper published*	Final draft RTS on SCA and SC published*	Adoption of RTS on SCA by the European commission on Nov 27th, 2017	PSD2 Transposed in member states domestic laws	RTS on SCA published in EU Official Journal	Effective application Par. 3 & 5 of RTS Art. 30 on availability of communication interfaces for testing	Test period for SC begins	Effective application of RTS on SC and SCA
Jul-13	Jan-16	Q3-16	Mar-17	Nov-17	Jan-18	13 Mar-18	14 Mar-19	15 Mar-19	14 Sep-19

○ Next milestone

*RTS on Strong Customer Authentication and Secure Communication, using PSD2 Qualified Website Authentication Certificates

Trusted identities for your entire digital business needs

Entrust Datacard provides a comprehensive approach to help enable your PSD2 implementation. Not only can we help address specific solutions for PSD2 requirements, but with our unified platform approach, we can extend your customer offering and differentiate your brand by providing additional innovative solutions that evolve with your business as it grows.

Multi-Factor Authentication	Innovative Mobile Solutions	ATM Authentication	Cloud-Based Solutions	Instant & Central Card Issuance
Adaptive Authentication	Transaction Verification & Monitoring	Device Authentication	Digital Signatures	PSD2 QWACs SSL/TLS

HOW WE HELP WITH PSD2 IMPLEMENTATION AND BEYOND:

Strong Customer Authentication — user authentication, adaptive authentication, mobile solutions

What is Strong Customer Authentication (SCA)
Organizations will provide two of the following three types of authentication methods that do not rely on one another:
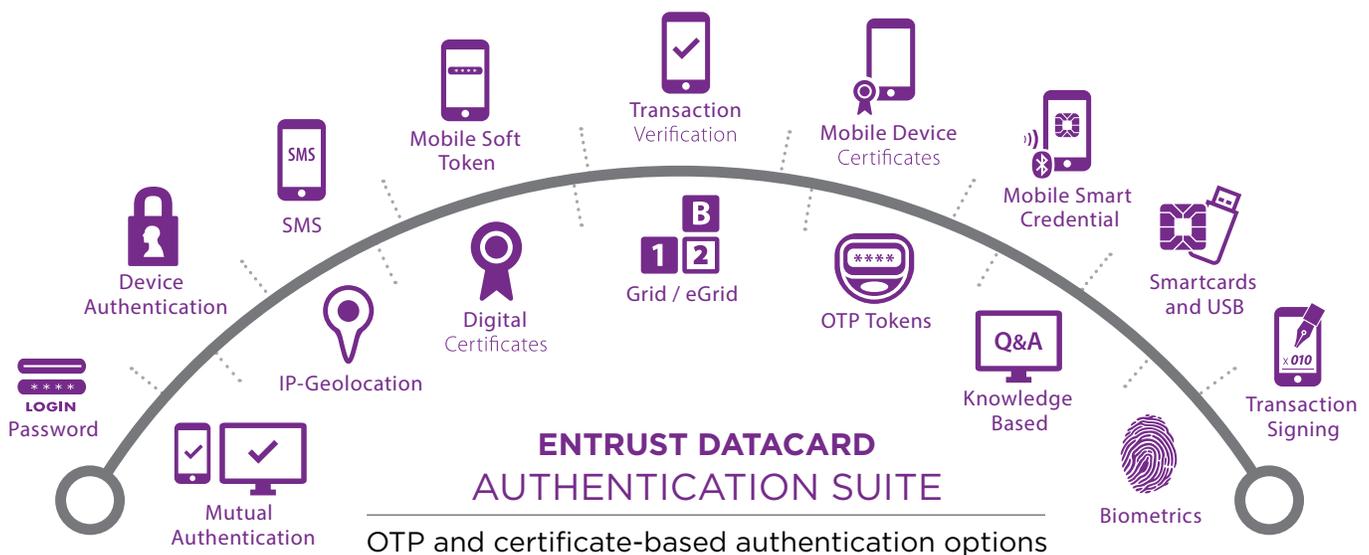
✓ Something you **know**

✓ Something you **have**

✓ Something you **are**

Entrust Datacard offers modern SCA solutions to help redefine the user experience and increase security. Leverage our next-gen mobile capabilities and adaptive authentication, which makes security stronger and more transparent than ever.

Independent Authentication Elements: With 17 authenticators, we provide you with the flexibility to provision multiple authentication methods depending on the level of assurance you require for your users. And with our out-of-band solutions, such as mobile push authentication and QR code verification, we provide independent authentication methods to help prevent fraud.

Dynamic Linking: When it comes to making a payment transaction, we ensure your randomly generated OTP code is linked to your transaction data to create a derived confirmation code — a truly unique code that can only be used to sign a specific transaction.

Replication Protection: Our mobile apps protect the token and smart credential data by encrypting it with the device's unique characteristics. By encrypting the sensitive data, we prevent decryption and protect against device and application cloning. Also, our Runtime Application Self-Protection (RASP) solution hardens the mobile app code and allows it to defend itself at runtime. This further enables you to also safeguard against hacking and reverse engineering.

Transaction
Verification

Mobile Device
Certificates

Mobile Soft
Token

Mobile Smart
Credential

SMS

SMS

Device
Authentication

Digital
Certificates

B

1 2
Grid / eGrid

OTP Tokens

Smartcards
and USB

IP-Geolocation

Q&A

Knowledge
Based

Transaction
Signing

LOGIN
Password

Mutual
Authentication

ENTRUST DATACARD
AUTHENTICATION SUITE

Biometrics

OTP and certificate-based authentication options

Entrust Datacard provides the most comprehensive range of authenticators and adaptive controls to balance user experience with security.

Fraud detection — transaction verification and monitoring, device reputation, digital signatures, SSL/TLS

Detecting fraud is essential, especially when it comes to ensuring trust with your customers. Entrust Datacard's transaction monitoring capabilities provide real-time fraud analysis tools and alerts when risky behavior occurs. Once fraudulent activity is identified, our solution will enable multiple forms of SCA to ensure a secure experience and reduce fraud for your organization. With high-risk transactions, you can check the reputation of your user's device, verify transactions with just a swipe of a button, and choose appropriate authentication methods — including PKI-based digital signatures such as mobile smart credential or mobile push capabilities. Plus, with our SSL/TLS certificates, customers can feel at ease with encrypted transactions and identity assurance for your web applications.

Secure open banking APIs and systems with PSD2 QWACs and PKI

Providing secure, encrypted data transfers is essential to Secure Communication and a key PSD2 requirement. PSD2 Quality Website Authentication Certificates (QWACs) form the highest level of authentication and will be required to secure the open banking APIs used for transferring private data when making a payment or transferring money. They are meant to bring greater transparency, accountability and authentication to users in the EU marketplace.

Although open banking provides a better user experience for consumers, it opens the door for fraud to take place. The Entrust Datacard PKI solution is an effective way to help ensure that your customer's data is secure and confidential. When sharing customer information to TPPs, certificate-based encryption allows transfers to take place over unsecured networks without compromising the security or integrity of customer data. Entrust Datacard offers an end-to-end Managed PKI service for a European Member State's open banking scheme/API provider from their European ISO 27001 & tScheme certified environments.

Consumer information — instant and central card issuance, mobile push notifications

In today's digital age, consumers want immediate insight into their payments and transactions. In order to exceed customer expectations, you need to provide a solution that ensures instant purchasing power, while still maintaining transaction history details at their fingertips. Because our solutions span every touchpoint of your customer, you can digitally and instantly issue a credit or debit card to new or existing cardholder accounts. And as soon as your cardholder starts making purchases, you can notify them of the transaction details while requesting verification at the same time with secure mobile push notifications.

Risk, regulations. **We've got you covered.**	Don't let regulations and compliance hold you back. We can help you enable a secure digital business while meeting security requirements.
Secure, transparent, frictionless user experiences	Empower your users to access information and conduct transactions without the hassle and worry of cumbersome authentication methods.
Differentiate your brand	Take your business to the next level and offer new services — such as instant issuance, online and mobile banking and more to your customers. And by providing a better, more secure user experience, you'll set yourself apart from the competition.

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