



# BEYOND PSD2

## THERE IS THE WORLD OF DIGITAL BANKING

PSD2 will enable clients to reach the payment services of banks 24/7 through third party providers. This is a significant achievement, but only the first step to a new world where ALL banking services (loans, deposits and others) are available 24/7 all around the globe. Welcome to the age of digital banking!

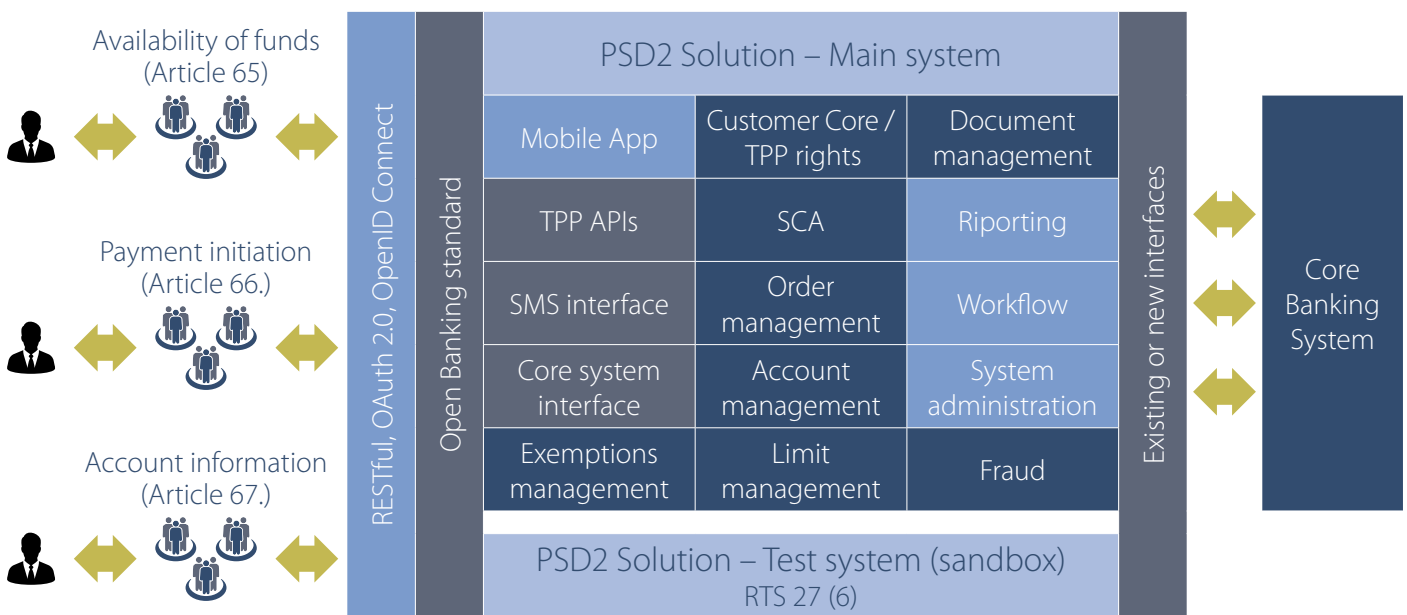
See our solutions for PSD2 and Digital Banking, which help you to enter this new world.

## SOLUTION FOR PSD2

The **2366/2015 EU Directive (PSD2 Directive)** will force banks to give access through **APIs** for Payment Initiation Service Providers (**PISPs**) and Account Information Service Providers (**AISPs**) to the data of banks in order to enable these third party providers (TPPs) to provide services like account information queries or payment initiations for the customers. This open-up initiated by the PSD2 will supposedly be the first step for regulatory bodies to make other services available for TPPs as well.

This way **PSD2** may be considered as the **regulatory gate for the age of digital banking**.

We provide a solution for successfully entering the gate of PSD2. This is **MoonSol PSD2**.



**MoonSol PSD2 solution** serves as a front-layer for banks for **managing the requests of TPPs 24/7/365** and transferring the requests to core banking systems. The solution is developed according to the **Open Banking Standard** (<https://www.openbanking.org.uk/>), which is declared to be **one of the best adaptations of PSD2**. The solution is using **state-of-the-art technologies** like **RESTful** interfaces, **TLS 1.2** for secure connections, **OAuth 2.0** and **OpenID Connect 1.0** for authentication and authorization, **X.509** for certificates. The applied methods for strong customer authentication (SCA) are in line with methods used by **FIDO Alliance** (<https://fidoalliance.org/>). The PSD2 solution provides different options for SCA, like the **classical combination of static passwords and dynamic password sent in SMS**, or highly advanced methods like the combination of using **fingerprints for mobile app based certification**. The mobile app for SCA is available on **iOS and Android platforms**. It is also possible to **rely on the existing SCA methods of banks**.

The solution is able to handle **exemptions from SCA**, like low-value transactions, contactless payments etc. In order to ensure secure operation, the solution also includes **limit handling, offline confirmation etc.**

## SOLUTION FOR A DIGITAL AGE

Digital Banking is a trend transforming traditional banking. The rise of Digital Banking is assisted by a number of factors:

- **Technologies** like **smartphones and other portable devices, Big Data and APIs.**
- **Changing client behavior** like the **expectation for 24/7, real-time, easy-to-use, personalized** services with a **unique user experience.**
- **FinTechs** are offering a vast number of innovative financial services, which combine consumer services (shopping, travel, health etc.) with finance (payment, loan etc.)

In the age of Digital Banking **ALL banking services** (including daily financing, loans and deposits) should be **available through APIs, real-time, 24/7, personalized all around the globe without personal interaction.** Can the IT of banks meet with these challenges?

Banks traditionally use **front-end systems that serves as gates:** they are open when core systems are able to take transactions, and they are closed when core systems are down due to day closing. **This is not enough anymore. Digital Banking needs** a full-scale functionality in the front 24/7. Digital Banking requires **intelligent front solutions,** not only gates.

This is where our **MoonSol Digital Banking** can help.

Mobile / Internet Bank	PSD2 / Open API	Card / SWIFT interface
Account Management	Loan Management	Deposit Management
Sales front	Product development	Fees and commissions
Internal interfaces		

**MoonSol Digital Banking** is the extension of **MoonSol PSD2.** **MoonSol Digital Banking** is a web-based solution with **7/24 full scale core functionality** in the areas of **account, loan and deposit management.** This enables the solution to provide core functionality when core systems are down.

These services can be accessed through e-channels or through RESTful APIs (some of them already developed for PSD2), which enables banks to joins service-ecosystems, where financial services like payments, or loans origination are required to successfully settling the business.

These financial services can be customized on-screen by banks: in the **product development** banks can develop seasonal loans, or accounts to support campaigns, **fees and commissions** can be granted for service provides acquiring prospects and making businesses, and **sales front-end** can be used where complex processes are required (eg. loan origination with scoring) to execute processes.



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## OUR VALUES

**UNIQUE COMPETENCE** Our experience and professional knowledge in the field of credit institutions and finance is unique among IT providers.

**CUSTOMIZED SYSTEMS** With the help of our unique development and version management technology, our modules can be customized, and implemented rapidly. We also have extensive experience in realizing unique functionality.

**HIGH QUALITY** Owing to the quality control system covering all of our activities and to the controlled development processes, our systems are of high quality and reliability.

**QUICK RETURN** Fast launching of developments that save customer resources, increased efficiency in management, flexible response to market trends – these all result in our customers gaining advantage in the rapidly changing financial market.



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