

# SEAVUS PSD2 API





## ARE YOU READY FOR PSD2 COMPLIANCY?

We have developed easy to integrate solution that can help you fulfill the regulation in no time.

## INTRODUCTION

With the new Payment Services Directive (PSD2) EBA aims to regulate access to accounts and payments in the European market. This directive transcends into pure compliance and has challenging effect on the entire banking business model.

- **Banks** - in order to be compliant, the banks will have to expose APIs to the new members in the ecosystem, implementing strict security standards to protect sensitive data. At the same time, the banks must reinvent their business strategy as a response to the challenges that will come with the new and creative approach to banking by third parties.
- **Customers** - will have greater choice of banking products and applications that will elevate user experience and change the way the banking is consumed.
- **Third Party Providers** - new TPPs will emerge, and having ready banking platform at their disposal, they will build some new, unseen and exciting products and services.
- **Merchants** - will be challenged to change their processes while benefiting from direct payments and lower fees.

## SEAVUS PSD2 SOLUTION

Having deep knowledge and understanding of PSD2, Seavus has created a PSD2 API solution and number of PSD2 compliancy products that meet the challenges of all of the affected parties: banks, TPPs, merchants, fin-techs.

Seavus PSD2 solution is easy to integrate, customize and maintain.

Contact us and will **help** You **become** PSD2 **compliant**, **save** You implementation **time** and concerns, and **lower** Your **costs**.

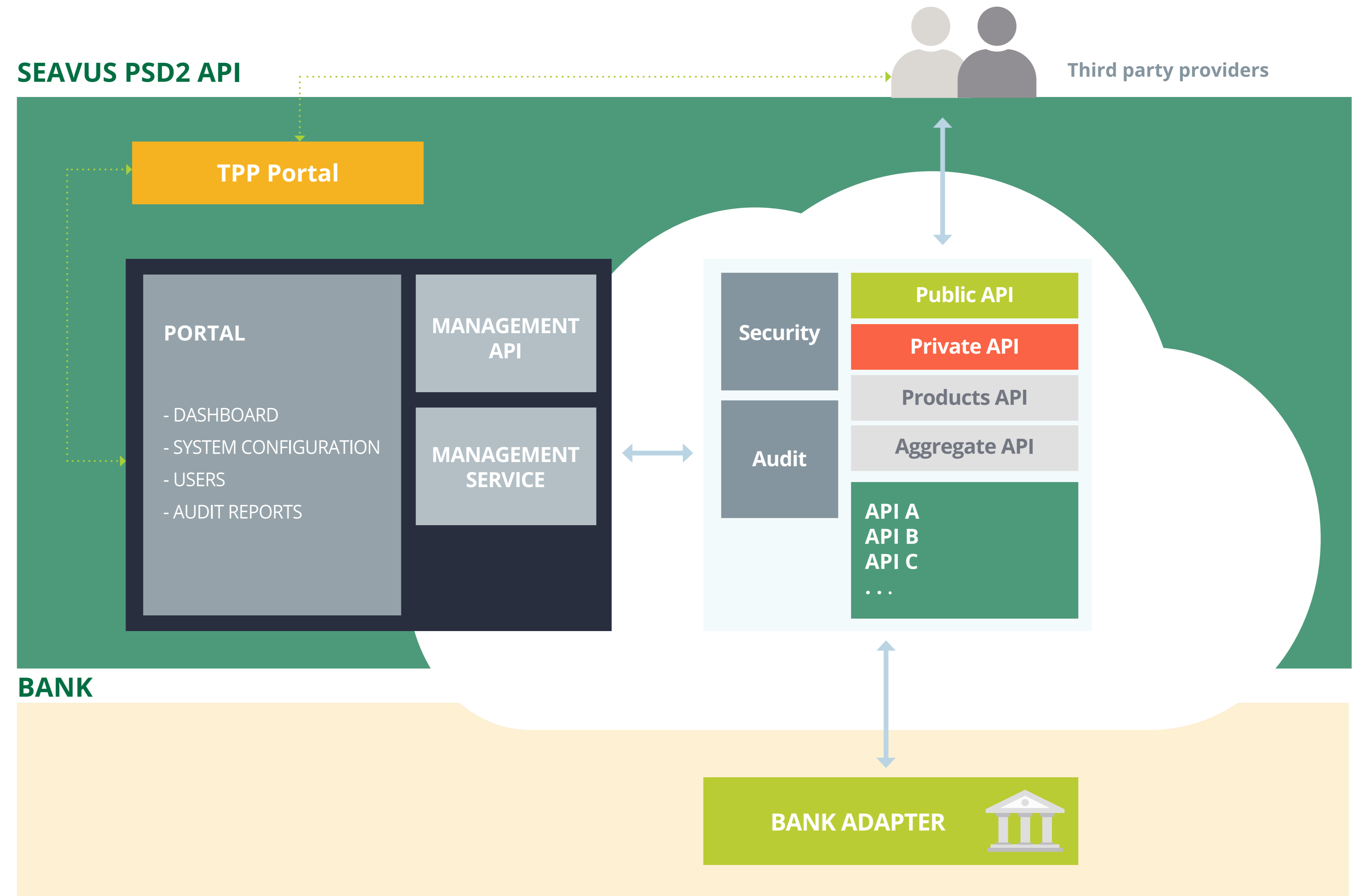


## PRODUCT DESCRIPTION

Seavus PSD2 API is a solution compliant with the requirements of the Revised Payment Services Directive (PSD2). It enables access to accounts (XS2A) to third parties, using strict rules and best practices for the security of these interactions.

The solution consists of a platform for going beyond compliance, where banks can expose other areas of banking business to the outside world, in order to be competitive in the fast changing market, paving the way for partial or complete digital transformation.

The solution consists of 3 major components: PSD2 API, Management portal and TPP portal.



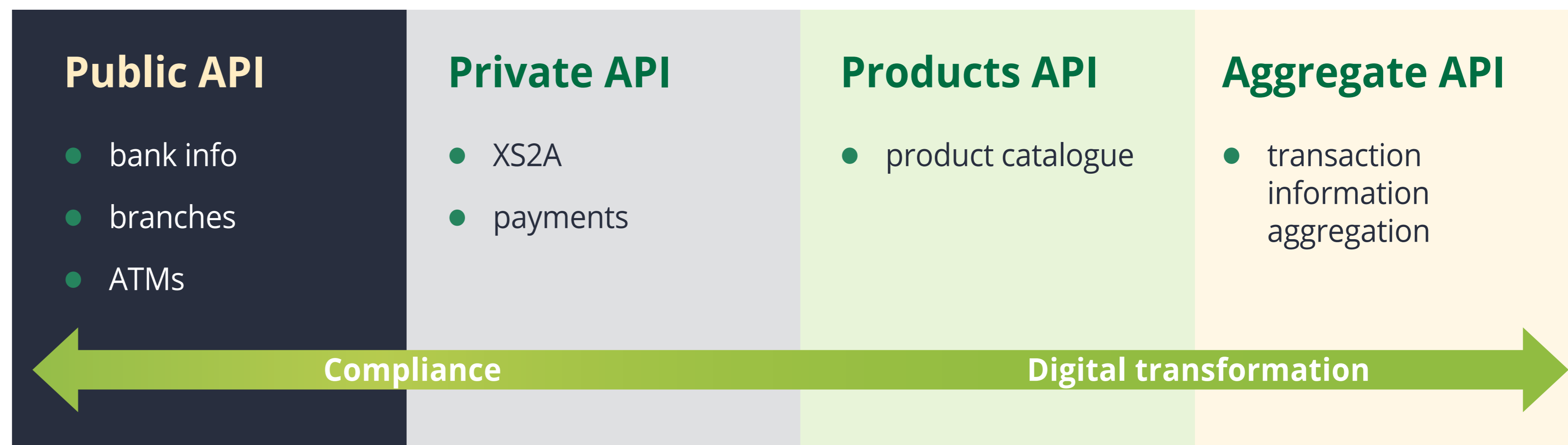
Seavus PSD2 Solution Overview

Seavus PSD2 APIs Overview

## PSD2 API

Is RESTful, dedicated API that exposes certain banking functionalities to the third party providers and their applications. Public API and Private API provide PSD2 compliance, while other APIs expose different banking business areas. New areas can be easily added to the system and managed in the same way as existing components.

PSD2 API communicates with the core banking system through Bank Adapter component and it doesn't store any sensitive data – it relays solely on the data provided by the bank's core.



**Public API** provides general and searchable bank information, such as list of branches and ATMs, their addresses, geo-locations and working hours.

**Private API** is the core API for exposing services to AISPs and PISPs. It provides list of user's accounts, account details, balances, and searchable transaction list. It also provides methods for payment initiation. Access to this API is secured according to RTS guidelines, providing SCA with two factor authentication, using OAuth2 and OpenIdConnect.

**Products API** exposes bank's product catalogue with different offers and marketing material for the API users, with links redirecting to banks' landing pages with the product details, calculators etc.

**Aggregate API** provides aggregated information about transactions, origin of transactions, transaction types, amounts, averages, min and max. This information can be used to allow customers to compare their spending habits with the broader community.

## MANAGEMENT PORTAL

Management Portal enables easy customization, control and maintenance of the PSD2 API system by the bank or financial institution users.

### Customization

- RESTRICT/ALLOW CERTAIN API RESOURCES
- SCALE
- MANAGE USERS

**Customization** option allows the bank to manage access to the PSD2 API resources, manage users and to scale the system by adding or removing the service instances, through the scheduler.

### Control

- AUDIT
- BLACKLIST TPP APPLICATIONS
- SERVICE HEALTH

**Control** option provides detailed audit trail, monitoring of TPP applications behavior with blacklisting options, monitoring services and their health.

### Maintenance

- INSTALL UPDATES
- ADD NEW APIs AND COMPONENTS

**Maintenance** option allows the users to install updates and add new components and APIs. These actions will be performed seamlessly with zero downtime, ensuring that the system is highly available.

## TPP PORTAL

Third party portal (applications portal) allows TPPs to register for the use of PSD2 API. It is the point where TPPs can register their applications and obtain the credentials (API key and secret), browse the API documentation and download client code in more than 20 programming and scripting languages.

## MANAGEMENT PORTAL

The Management Portal and its user interface provides number of views and setup pages:

<b>Dashboard</b>	<ul style="list-style-type: none"> <li>● Active service instances and their health status</li> <li>● Incidents</li> <li>● Scheduled tasks</li> <li>● API requests statistics</li> <li>● KPI</li> </ul>	<b>User management</b>	<ul style="list-style-type: none"> <li>● Adding users</li> <li>● Modifying user data</li> </ul>
<b>System configuration</b>	<ul style="list-style-type: none"> <li>● Initial services setup</li> <li>● Language and themes</li> <li>● Subscriptions to notifications</li> </ul>	<b>Audit</b>	<ul style="list-style-type: none"> <li>● Searchable audit trail comprising all of the actions in the system</li> <li>● In compliance with RTS</li> <li>● Forensics, reporting, tracking TPP applications</li> <li>● Export trail data</li> </ul>
<b>Service configuration</b>	<ul style="list-style-type: none"> <li>● Customizing availability of API resources</li> <li>● Managing service instances (overview, instances actions - start, stop, recycle, restart)</li> <li>● Cacheing</li> </ul>	<b>Applications</b>	<ul style="list-style-type: none"> <li>● List of TPP applications with contacts</li> <li>● Add or remove application from blacklist with notifications</li> </ul>

**All communication** between the Management Portal, Management API and PSD2 API is **secured** and **encrypted**.

## SEAVUS PSD2 API SOLUTION

### AVAILABLE SYSTEM SETUP

#### In-house

- All of the modules are hosted on bank's servers. Hosting supports Windows and Linux platforms, and bank doesn't need to change existing platform.

#### In private cloud

- All of the modules (except Bank Adapter) are hosted in private cloud, with all of the flavors of an in-house solution (which include but do not restrict to implemented security, management portal, horizontal scalability, configuration).

### INTEGRATION

#### Banks

- Bank Adapter is the only integration point between the Bank and PSD2 API and it is not the part of the product itself. Minimum functionalities that the adapter must provide in order to be compliant, are XS2A functionalities, including security information needed for identification, authentication and authorization.

#### TPP

- TPPs and banks should enforce mutual authentication, based on the digital certificates and memberships regulated by the states of the Union. To connect to Seavus PSD2, TPPs are provided with technical documentation and client code available on the TPP portal, along with registration options on the portal.







Contact us for more details and live demo at: [psd2@seavus.com](mailto:psd2@seavus.com) or at our web site: <http://seavus.com/expertise/psd2/>