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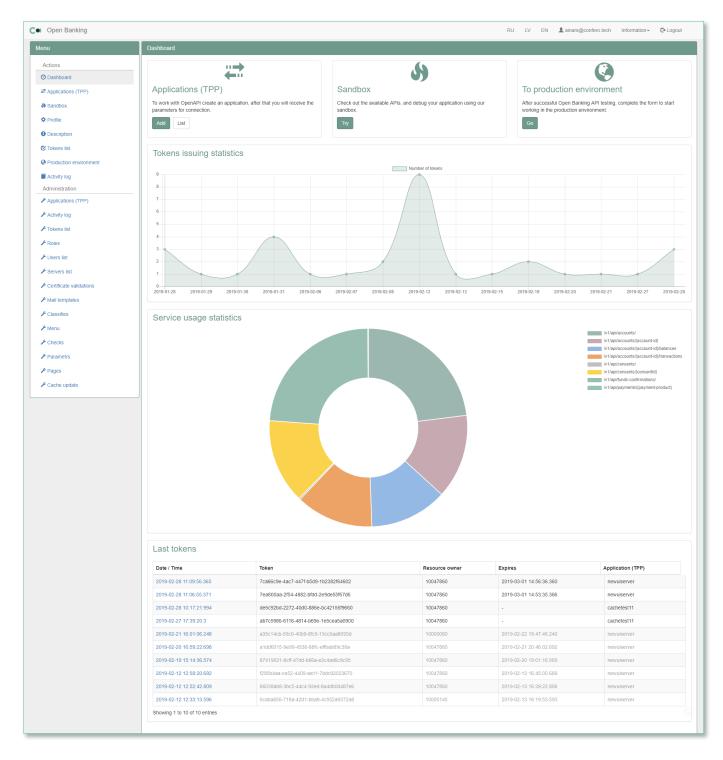
Open Banking

PSD2 compliant open banking solution Overview as at June 2020



The Confero Open Banking System provides the XS2A (access to account) access interfaces (APIs) for the PSD2 regulation, based on the Account Servicing Payment Service Provider (ASPSP). The XS2A interfaces of the Confero Open Banking system are implemented according to any standard of the client, for example, the specification "Joint Initiative on a PSD2 Compliant XS2A Interface NextGenPSD2 XS2A Framework Implementation Guidelines" 1.3. (www.berlin-group.org).

The system provides basic interfaces (PSD2 Core Services), which are mandatory under PSD2 regulation.



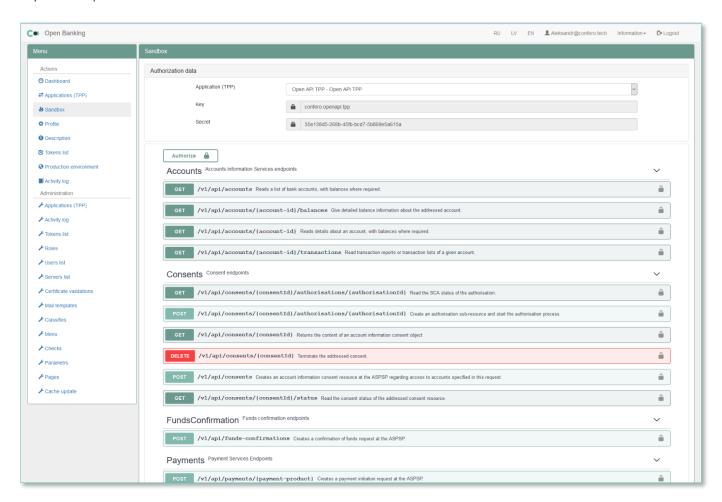


PSD2 Core Services

The system out-of-the-box provides base interfaces (PSD2 Core Services), which are mandatory according to the PSD2 regulations:

- Account information services a set of services that allow third-party service providers to access customer accounts, balances, and transactions with customer consent.
- Payment initiation services a set of services that allow third-party service providers to initiate a payment on behalf of a
 client. There are also services available for checking the payment status and obtaining payment information. PSD2 states
 that all electronic transactions must be strictly authenticated by customers, so after initiating a payment, the customer
 authorizes the payment with the ASPSP authorization tool.
- Confirmation of funds service a service that allows you to check whether a given amount of money is available in a particular account.

Easy to develop and test new services.

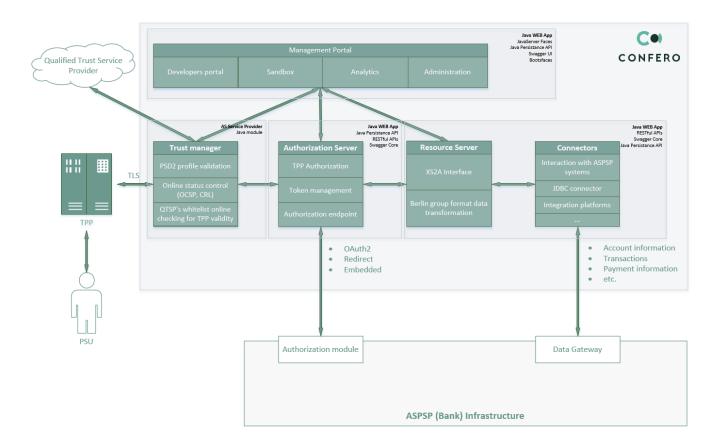




Flexible architecture

The Open Banking system consists of four modules:

- Trust Manager.
- Authorization Server.
- Resource Server.
- Customer and Administration Portal.

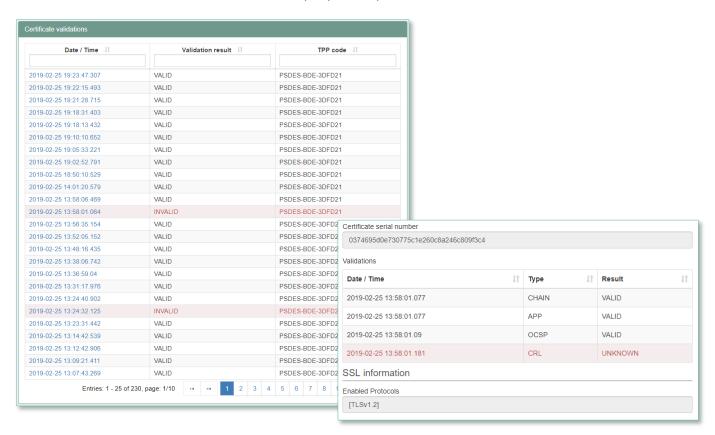




Trust Manager

Trust Manager is a module that validates third-party certificates at the transport level:

- Checks the validity of the certificate.
- Verifies the certificate chain.
- Provides support for OCSP (Certificate of Online Certificate Status) and CRL (Certificate Revocation List).
- Checks the certificate to the Qualified Trust Service Provider (QTSP).
- Extracts roles and other information about third-party service providers from the certificate extension.

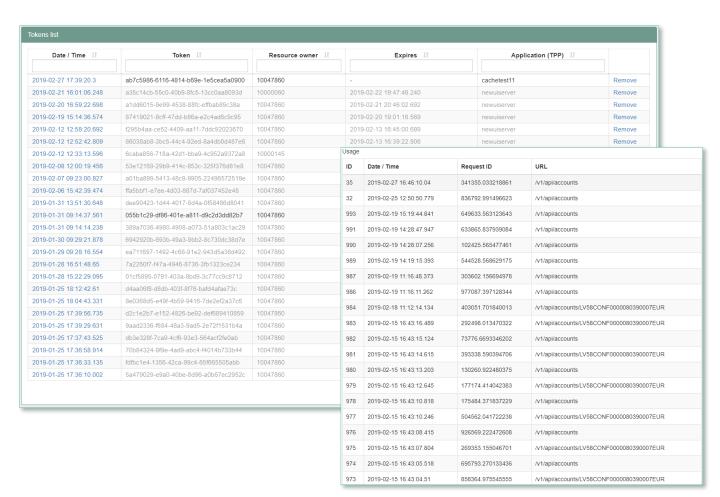




Authorization Server

Authorization Server is intended for authorization of third-party providers and end users:

- Connects to the ASPSP system to authorize end users and payments, and confirm the authority to perform actions.
- Based on the results of the end-user authorization, it generates new access tokens, which include user rights description parameters.
- Validates each third-party service provider request according to the access token parameters.
- Stores and audits all actions performed on access tokens.

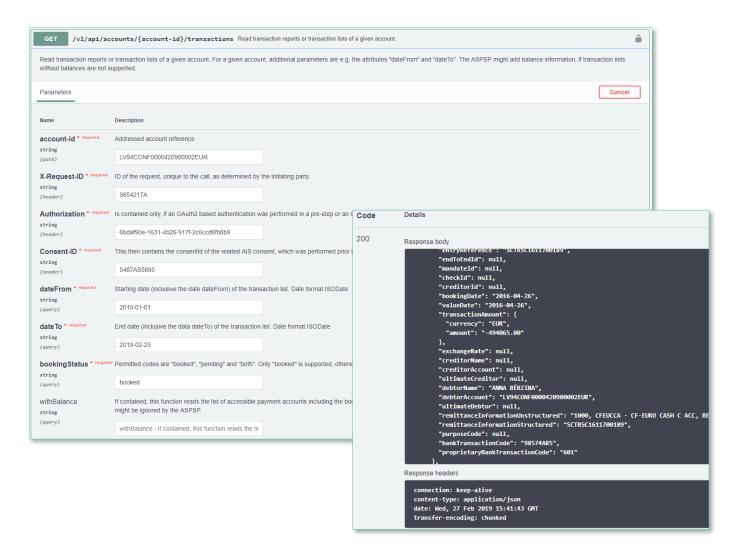




Resource Server

Resource Server – the module that contains XS2A interfaces:

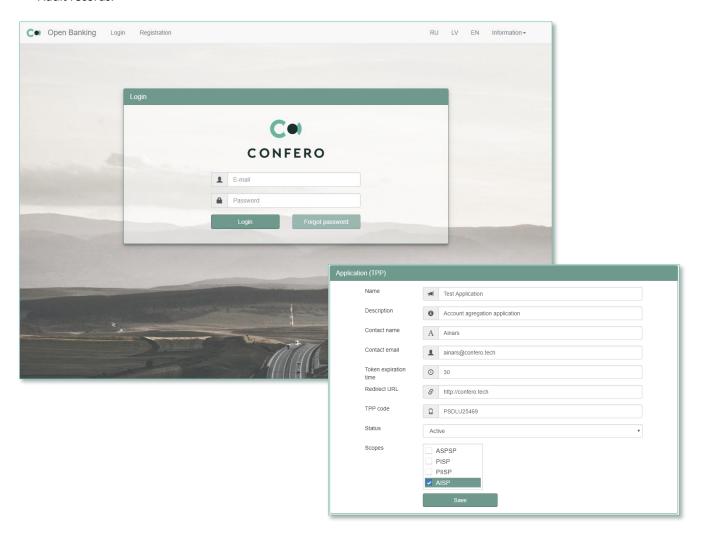
- Transforms data from Berlin Group specifications' format to ASPSP data format and vice versa.
- Audits all third party service providers' requests and responses to them.
- Contains connectors for work with ASPSP systems in order to obtain information on accounts, balances, transactions, payment information etc.





Customer portal

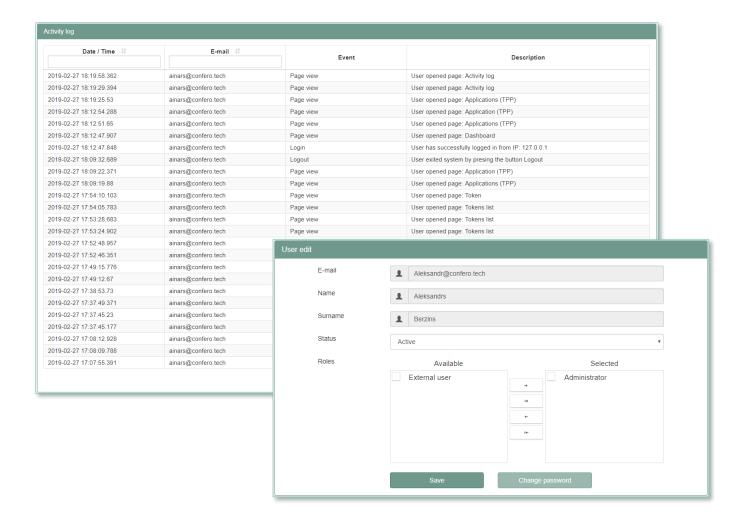
- Registration of third party service providers and applications.
- Two factor authentication for logging in to the registered account.
- Sandbox application developing tool that allows login to the ASPSP system and executing available services during development and testing.
- Reporting tools opportunity to analyze requests in different dimensions.
- Request for transition to production environment.
- The list and administration of issued access tokens.
- Audit records.





Administration module

- Administration of third party service providers' applications.
- Audit log containing information regarding users activity.
- Access tokens and consents management tools.
- API calls audit.
- Portal users' and their roles administration.
- Resource server administration.
- Third party service providers' certificate validations audit log
- Administration of the portal.





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Our Open
Banking solution
is the number one
choice for easy and
reliable PSD2
compliance