

Monet+ case study

Long term cooperation with Monet+ specialists in secure identity and payment solutions

Since 2015, our development team has been working on the following solutions:

◆ IDport

IDport is modular user authentication and transaction authorization system. It integrates a variety of strong authentication methods for secure logical access to complex IT systems.

IDport is designed to fit the client authentication needs of a modern bank, support digital transformation of customer service processes for e-government, fintech, telcos and other online market players.

A secure architecture consisting of the authentication server (our team is working primarily on this part), integration layer, federation module, variable authentication methods and user applications.

◆ Airbank

In 2015-2017, cooperation on an authentication solution featuring the CASE server, with the support of one-time-password authentication procedures: SMS OTP, mobile tokens.

For the purposes of the mobile banking application, a security library (the CASE mobile SDK) was delivered. It handled processes involving secure log-in and transaction authorization on a mobile device; the SDK was implemented for the Android, iOS and Windows platforms.

The benefits delivered by the solution

- simplified authentication and payment authorization through deploying a mobile token (authentication via the mobile app and PIN)
- the push notifications kept users better informed about matters of concern
- easy integrated in the mobile banking app thanks to the SDK

MONET +

Location:

CZ, Zlin

Industry:

IT

Partnership period:

Apr 2015 – present

Valcon team size:

3

Technologies:

Backend:

Java/EE, Spring, JPA/Hibernate, Kotlin REST microservices and SOAP API

Frontend:

Angular/JS, ExpressJS, JQuery

Messaging:

Hazelcast, Kafka

Database:

MySQL, Oracle, Postgresql

DevOps:

Git, Maven, Jenkins, Docker, Kubernetes, ELK

QA:

JUnit, Mockito, AssertJ, SonarQube

Agile:

SCRUM, Kanban, JIRA

Application servers:

JBoss, Wildfly, Weblogic

◆ Česká spořitelna (ČS), member of Erste group

2015-2018 we cooperated on implementation its authentication system entitled Multichannel Entry Point (MEP) as the central security component for all processes related to electronic identification and user (especially client) authentication. MEP was designed to be a robust security solution, enabling the bank to share security functions across applications. It manages the entire life-cycle of the various authentication methods and issues user and technological interfaces for integration with 3rd parties. The solution was based on the CASE authentication system, which implemented support for the life-cycle of the given authentication methods – SMS OTP, user password, one-time activation codes and mobile tokens (CASE mobile).

The benefits delivered by the solution

- the transfer of security processes (log-in, authorization, signature) from separate business channels to the central identity platform
- the central administration of security methods
- optimization of operating and maintenance costs
- the development of security methods

◆ ČSOB, member of KBC group

The project was implemented in 2017, and development continues on it to the present. It comprises Multichannel Entry Point (MEP) authentication system as the central security component for all processes related to electronic identification and authentication of users, based on the principles of federated services and identity federation.

The benefits delivered by the solution

- transferred old security processes (login, authorization, signature) to a single central identity platform
- central administration of security methods
- optimization of operating and maintenance costs