

adesso



swisscom



Data exchange platform for Swisscom cooperation partners



Efficient data exchange in the fiber optic network: from DEX to FACE

Over 10 years ago, adesso Schweiz AG developed the DEX (Data EXchange) platform for Swisscom, which enabled data exchange in network construction. With technological advancements, multiple customers could now be connected to a single fiber optic line. However, the DEX data model was not designed for this requirement. As a result, adesso was tasked with developing the successor platform, FACE (Fiber ACcess Exchange).



Challenge

The introduction of the new point-to-multipoint network construction method required the development of a new exchange format for network data. It was particularly important to ensure backward compatibility with the previous point-to-point exchange format to guarantee seamless integration and transition.

Another critical factor was system performance: while the previous system ideally required just over 24 hours to complete a full data import, FACE was designed to enable multiple imports per day.



Benefits for the client

- > FACE significantly simplifies data exchange for partners: fiber optic network data can now be transmitted directly to Swisscom via the RES interface, enabling a high degree of automation compared to the previous solution.
- > Additionally, the application features an intuitive menu structure, making it much clearer and easier to use for users.
- > Another key advantage is the high level of automation, which drastically reduces operational effort.



Solution

The implementation was carried out from planning to go-live in close and iterative collaboration with Swisscom.

The solution was developed in an agile manner within a SAFe framework by a Scrum team, with a strong focus on customer needs. This approach allowed for continuous adjustments and the implementation of new features.

In addition, FACE is an application that is operated entirely within the Swisscom cloud infrastructure.

More on the solution

The system was designed to remain flexible and scalable to meet future requirements. In the near future, an API will be introduced to further simplify and automate communication with partners. In addition, the existing regulations are continuously revised to meet current standards and requirements.

Methods and applied technologies

The software was developed in close collaboration with an international team using agile development methods. Modern technologies and approaches were employed to meet the high demands for functionality and efficiency.

Spring Boot | Cloud Foundry | Camunda BPM | MariaDB

Angular | Bootstrap

REST | SOAP | JMS

OAuth2 | Splunk



“ *adesso supports us with its usual high level of expertise and offers all the key factors for success: expert know-how in software development and new technologies (cloud-native), an understanding of economic solutions, and active support throughout the entire development process.*”

Urs Klahr, IT Architect, Swisscom AG



About the customer

Swisscom is the leading telecommunications company and one of the leading IT companies in Switzerland. Outside Switzerland, Swisscom is present in Italy through Fastweb. In 2024, over 19,000 employees generated revenue of CHF 11,036 million. Swisscom is one of the most sustainable and innovative companies in Switzerland.



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