

Project Note

EMV-chipcard launch in Switzerland

Project management for the launch of an electronic payment system in Switzerland. The project defined the specifications of EMV2000. Project risks were eliminated early on through consistent use of RUP.

Task

The worldwide introduction of EMV2000 (Europay, Mastercard, VISA) chip cards as future means of electronic payment required the terminal infrastructure in the Swiss market to be modernised. The project entailed drawing up a business model and specifying the terminal infrastructure, including the interfaces with the peripheral systems. The solution had to be based on modern, international standards.

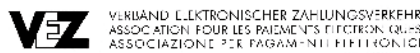
The aims of the project were:

- To increase system availability by introducing offline authorisation,
- To standardise the interfaces (reduce the complexity of the system),
- To provide multi-currency capability (CHF, Euro, USD...),
- To ensure free competition by providing an open scheme for the system,
- To make use of new technologies (chip card, TCP/IP, XML),
- To ensure a high degree of security by using the latest encryption techniques,
- To provide a flexible scheme, e.g. remote software and parameter download.

Implementation

The business processes were modeled with UML notation as business use cases as defined in RUP (Rational Unified Process).

The ep2 specification was based on EVM2000 and various ISO standards. It was produced in iterations with UML in accordance with RUP and then released, implemented and verified by the ep2 partners. The process ensured a specification of high quality. The findings of each iteration flowed back into the specification and helped to increase the quality of the overall system.



Customer benefits

- The needs of all key stakeholders were taken into account: retailers and producers of payment systems.
- Project risks were eliminated early on through consistent use of RUP.
- Parallel engineering was employed to shorten the time required to conduct the project.
- The impartial project coordination of the 13 implementation partners helped to achieve transparency which, in turn, built trust.

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