



“SBB Frequenzerhebung”

A Mobile J2ME Passenger Data Acquisition Solution deployed at the National Swiss Railway Service

Java Technology plays a vital role in the ongoing wireless revolution of today's business. Many of the new challenges posed by the mobile environment can be solved by the code portability and the secure execution environment offered by Java Technology. The National Swiss Railway Service (SBB) has chosen Ergon Informatik AG as Technology Supplier for a Mobile Passenger Data Acquisition Solution based on the J2ME Personal Profile. The solution has been developed using the Ergon Mobile Application Framework MAF and the Ergon Mobile Application Gateway MAG as building components on the client and server side.

SBB Passenger Data Acquisition: The “Schweizerische Bundesbahnen” (SBB), the Swiss National Railway Service, are the country's biggest service provider in public transport. To provide optimal services to their customers SBB collects passenger data on a regular basis. *Frequenzerhebung* is the process of gathering and evaluating frequency data of passengers on train and bus lines. The SBB use this data in order to bill their services to the cantons of Switzerland and the various regional traffic corporations, as well as to design and update time tables according to their customers requirements. SBB employees register the passengers' tickets and subscriptions on trains and buses. By means of GPRS, the collected data is transmitted to the central server(s) where it is processed and added to the central data warehouse.

Mobile Application Framework: The Ergon Mobile Application Framework MAF serves as a flexible base for Java applications targeted at mobile devices running the PocketPC operating system. Based on Sun's J2ME Personal Profile, the MAF provides a model-view-controller based GUI, as well as support for networking, multi-language translation and device-specific issues such as symbolic key maps and a native utility library.

Mobile Application Gateway: The Ergon Mobile Application Gateway MAG is a J2EE based application gateway serving as a reverse proxy and entry server for mobile applications communicating over HTTP or HTTPS. It hides application services and decouples them from the (sometimes very slow or otherwise special) communication with the mobile devices.

Company Information: Ergon Informatik AG (<http://www.ergon.ch>) is a leading software development company with headquarters in Zurich, Switzerland. Its staff of 65 professional software engineers are dedicated to the development of mission critical solutions for the financial telecommunication and government market. As a specialist in open business solutions for heterogeneous computing environments, Ergon currently is engaged in the development of a number of mission critical applications using advanced Client- and Server Java Technology.

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