

Case Study



PoliMIS: Management Information System for the Police

Challenge

- Basis for reliable decision making
- Consolidated reporting for officials
- Access to data in 80 applications

Solution

- UML virtual machine based ESB
- MDI – Model Driven Integration
- Dixendris Cockpit

Benefits

- Fast implementation, high quality
- High reusability of services
- Lower total cost of ownership

«Using traditional approaches, a project of these dimensions is full of pitfalls. The quality and speed of the implementation using E2E's UML Virtual Machine was convincing.»

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The Basel City Cantonal Police Department has diverse responsibilities for the most densely populated of the 26 cantons in Switzerland. In addition to the criminal, security and traffic policing authority, the Basel Police is also responsible for border controls in trains and airport border checks. The Basel Police employs 800 policemen and women and 180 civilian staff. In 2006, the Basel Cantonal Police Department received over 50,000 emergency calls.

Challenge

As management and communications tasks become increasingly complex, the Basel City Cantonal Police Department required a management system based on key performance indicators (KPIs) to consolidate relevant and necessary information from the many existing source systems, and make this data efficiently available to senior police officials. Until now, certain information was managed redundantly in various systems – a practice which led to discrepancies in KPIs and poor overall data quality. The main challenge was the technical data integration, which had first to be extracted and consolidated from over 80 different applications. The spectrum ranged from Access databases and Oracle-based Police Force Deployment data, right up to financial data in an SAP environment.

Solution

A centralized business integration model in UML determines which data are used from which system at which time for collecting the required information. The E2E Bridge, a next generation Enterprise Service Bus based on a UML Virtual Machine, the first solution for 100% Model Driven Integration (MDI), executes this UML integration model directly, thus ensuring rapid and high quality interface implementation – without programming. A unique Management Information System for the police, PoliMIS, which has been tailored specifically for the Basel City Cantonal Police Department, provides the complex information in an efficiently visualized form in order to facilitate reporting and decision making. PoliMIS is based on the Dixendris Cockpit by Dixendris AG, who, as a service provider, was also responsible for the entire project implementation. The solution can be quickly adapted to changing requirements, or other police departments, and at low total cost.

Benefits

- Increased quality and reusability by using executable UML models
- Fast and flexible interface implementation at low cost
- Gradual introduction within only six months