

Case Study – Software Development

Ecebs Paragon HOPS (Host Operator Processing System)...

- ▶ Ecebs are a specialist Smartcard software company based in East Kilbride, Scotland (UK)
- ▶ It is a subsidiary company of Trainline Investments Holdings Limited.
- ▶ It provides Smartcard based technology into a wide variety of applications.
- ▶ Its technology can be found in everyday Smartcard uses such as 'Chip and Pin' payment cards, Identity, Healthcare and Smartcard Transport ticketing solutions

- Project
 - Design and development of HOPS as per Integrated Transport Smartcard Organization (ITSO) standards
 - Designed & developed the following modules:
 - Collection & Forwarding
 - Accounts
 - Messaging
 - Asset Management System
- Solution Domain
 - Designed to meet the requirements of customers involved in concessionary travel schemes, bus and rail ticketing and other ticketing requirements.
 - A web-based solution designed using Borland products and developed using J2EE technology

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PROJECT DETAILS

SDLC

- Played major role in design, development and testing of the HOPS application.
- Met stiff delivery deadline and overall budget of product development with a successful onsite-offshore model.
- Project executed in iterative model.
- Implemented Rational Unified Process (RUP) development methodology for the entire product development.

Technology and Tools

- Java, Servlets, EJB 3.0, Struts2.0
- JavaScript
- XML
- JBoss 4.2.2
- Oracle 9i, JDBC

Software Metrics

- Size 60 man-months
- Duration 7 months