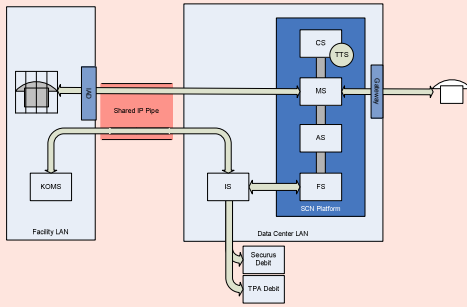


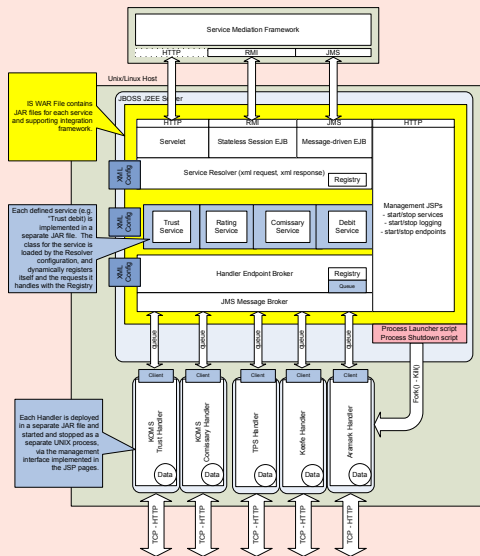


Real-Time Integration

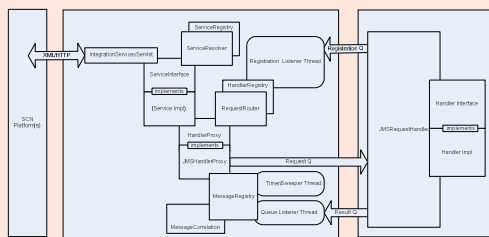
Conceptual Architecture



Physical Architecture



Implementation



Real-time Service Integration at Securus

SECURUS is one of the largest independent providers of collect, pre-paid and debit calling services to local, county, state and private correctional facilities in the United States, operating in approximately 3,100 correctional facilities in 49 states.

Opportunity

Securus was implementing a new, custom-designed, centralized VOIP platform, the Secure Call Network, and needed a custom-built approach for integrating the platform directly with customer computing systems and 3rd party catering provider systems for billing and voice-prompt services.

Approach

SIBRIDGE proposed, designed and implemented an integration platform supporting real-time connectivity between the SCN and customer platforms. A solution based on Linux and Java EE technology, providing a real-time message broker and interface mediation system using asynchronous messaging was developed off-site, delivered on-site and successfully integrated with the SCN platform.

Results

- **Requirements analysis** of existing vendor solutions, strengths and weaknesses as suited to the custom real-time environment.
- **A system architecture** and implementation using customer preferred tools, technologies and standards.
- **Knowledge transfer** from SIBRIDGE principals to SECURUS principals during integration and testing.
- A unique, **real-time custom SOA solution perfectly suited to system requirements** for reliability, scalability, and deployment to internal and external 3rd party customers.

Real-time Dynamic Integration Broker

- **Real-time** – requests must be processed within a specified “wall clock” time interval, measured in milliseconds.
- **Message-based** – the host and integration platform communicate using internet-based (IP) protocols to exchange structured data in standard formats.
- **Standards-based** – the host platform and remote platforms communicate using industry-standard XML, JEE technology and Linux. Standard (canonical) message formats for services are defined and published for external 3rd party integration.
- **Manageable** – Dynamic starting and stopping of new integration interface handlers to remote systems without system refresh or restart. Dynamic routing of messages via multiple transports and interfaces. Canonical logging of service messages and responses in DBMS for audit, security and performance analysis.
- **Scalable** – stateless transactions and high degree of flexibility for scalable deployment of integration handlers.