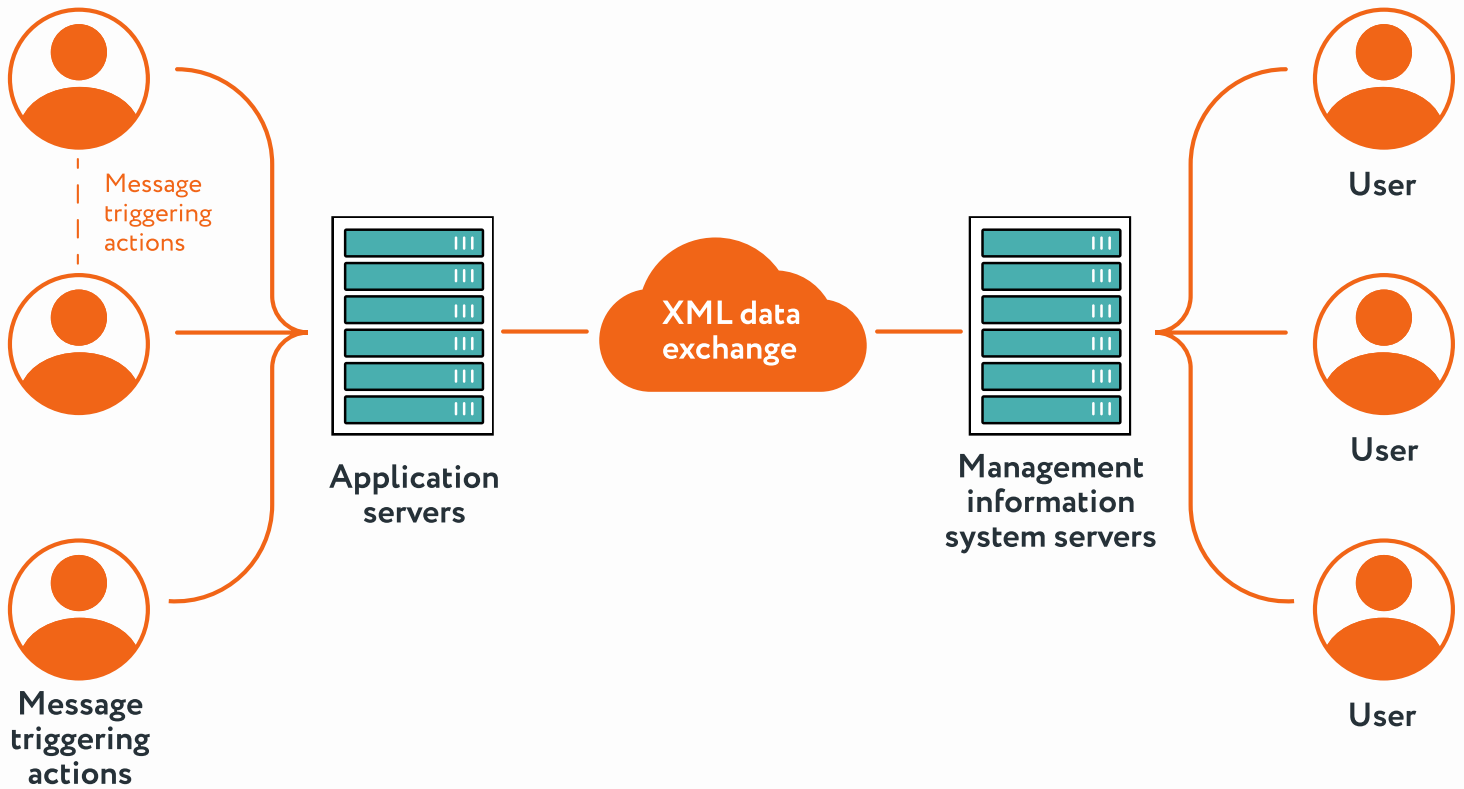


NEXT-GEN DISPATCHING: ESTABLISHING CRITICAL COMMUNICATION

Datasheet

Project objective

Implement flawless data exchange between the dispatching application and the management information system. This would ensure fast and reliable data processing across all functional modules within the dispatching system.



Result

PSA's XML-based messaging mechanisms enabled rapid and robust data transfer from the dispatching application to the management information system. This integration allowed seamless operations across schedule, train, authority, bulletin, security, signal maintenance, hotbox, and AEI detection management subsystems, ensuring instant data processing and command execution.

Scope of work

- ❖ Identification of scenarios, trigger points, and data sources; core business logic definition
- ❖ Message structure definition, database entity verification, and sequence diagram creation for each subsystem
- ❖ Refactoring of subsystems to support new messaging functionality

Activities

- ❖ Requirements Analysis and Enhancement
- ❖ Design & Implementation
- ❖ Unit & Functional Testing
- ❖ Documentation Creation

About the project

Technologies

- ❖ C++
- ❖ Qt
- ❖ GCC
- ❖ Linux Red Hat
- ❖ XML



Project size

- ❖ 5 Software Engineers
- ❖ 2 Product Managers
- ❖ 1 QA Engineer

Duration



Platform

- ❖ Linux