



Improved Efficiency and Reduced Costs

SJ Sweden

Overview

 291 stations

 100,000 passengers daily

 1,400 daily departures

 4,600 employees

Industry

Rail

Challenge

Optimise train planning

Solution

Trapeze Planning & Scheduling

Results

- ✓ Replacement of costly legacy mainframe
- ✓ Improved data consistency and availability
- ✓ Enhanced control and standardisation of external interfaces



Background

Every day 100,000 people travel with SJ, the largest passenger train operator in Sweden.

SJ operates 1,400 daily departures and serves 291 stations between Narvik (Norway) in the north to Copenhagen (Denmark) in the south, with 4,600 employees working to ensure that journeys by train are safe, reliable, comfortable and convenient.

Challenge

In 2013 Trapeze was selected to provide a solution as the production tool for timetable planning, construction and publishing within SJ.

The scope of this new system was to support both long-term planning (which was being done in a legacy mainframe system), and short-term planning (which was undertaken either manually or directly in the production planning system).

The Trapeze solution would become the master system for all planned timetable data used within SJ.

Key challenges for this project were:

- Aggressive timescales for mainframe replacement
- Parallel development and implementation of both core Trapeze functionality and new requirements to support multiple interfaces
- Additional functionality required to support changes to key operational processes
- Implementation into an 'unsettled' IT infrastructure environment

Solution

Project teams were created on both sides where key roles and responsibilities were clearly defined and held accountable for delivery.

The decision was made early on that there would be a clear scope which covered a core set of functionality, and that change requests would be initiated to cover interfacing and any additional



functionality required to support business processes. This resulted in a continuous introduction of new requirements into an already aggressive delivery schedule. One of the key success factors for this implementation was the ability of the business to evaluate enhancements in relation to core functionality and prioritise them to meet business milestones.

The core functionality was planned for delivery in three defined sprints which expanded to six during implementation to accommodate additional requirements. Functionality was continuously adjusted between sprints based on business needs and technical complexity.

Continual assessment and prioritisation of the functional requirements ensured that the delivery team remained focused on items that were of the highest priority to the business. Challenges were met through open, honest, transparent communication at all levels, with both teams focused on finding and delivering solutions.

Success

SJ moved the fundamental core of the Trapeze product into their production environment at the end of 2014, and have continued to enhance the functionality.

This fundamental core was comprised of standard Trapeze Planning & Scheduling functionality (including a running-time calculator from the Trapeze solution), plus all interfacing and key enhancements.

This implementation provided SJ with a system that supports both long-term and short-term planning, provides a master timetable, and interfaces to all internal and external SJ systems. Significantly, it has enabled the decommissioning of the legacy mainframes system, and given SJ a scalable, supportable solution for the future.

- Replacement of costly legacy mainframe
- Timetable Master for all planning data
- Improved data consistency and availability for downstream systems
- Enhanced control and standardisation of key external interfaces

Trapeze Group

Trapeze Group works with public transport agencies and their communities to develop and deliver smarter, more effective public transport solutions. For more than 25 years we have been Here for the Journey, evolving with our customers around the world to helping them move people from point A to Z, and everywhere in between.

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