

ÖTS3 Sweden

National centralized traffic signal control and monitoring system

In October 2023, Kapsch TrafficCom was awarded a contract by the Swedish Transport Administration (Trafikverket) to implement and maintain a new national centralized traffic signal control and monitoring system called ÖTS (Övervakning Trafik Signaler), which connects Trafikverket's traffic signal installations throughout Sweden.

Kapsch TrafficCom is proud to be a partner to Trafikverket in the delivery of a state-of-the-art solution that has redefined traffic signal management in Sweden.

The ÖTS3 project, which replaces the previous ÖTS2 system, includes the implementation of Kapsch TrafficCom's innovative mobility management solution EcoTrafIX™ Suite. This upgrade will enhance Trafikverket's ability to control and monitor approximately 360 traffic signals nationwide, ensuring improved efficiency and reliability in traffic management.



Project Scope:

Under the contract, Kapsch TrafficCom has implemented its innovative, state-of-the-art EcoTrafIX™ Command software solution and adapted it to the Nordic RSMP protocol. The contract includes four years of preventive maintenance.

EcoTrafIX™ Command is managed by Trafikverket's road operations environment. It consists of several instances, connecting signal installations distributed in different geographical regions of Sweden.

The ÖTS3 initiative consists of three main phases:

1. Delivery and testing: Comprehensive project management, installation, commissioning and integration with Trafikverket's operational systems.
2. Implementation: System configuration and deployment across all traffic signal installations, ensuring operational readiness.
3. Maintenance and support: Ongoing system operations, preventive maintenance, and technical support for a minimum of four years, with options to extend.

The Challenges:

Trafikverket currently operates a national centralized control and monitoring system that manages approximately 360 traffic signal systems integrated into the road operational environment. Due to the age of the ÖTS2 system, Trafikverket decided to undertake this critical upgrade to a new system.

By implementing the EcoTrafIX™ Suite, Kapsch TrafficCom has demonstrated that the product is not only viable for the operation of traffic lights on a national scale, but also complies with the Nordic standards (Nordic RSMP protocol) for the management of traffic lights.

The Solution:

EcoTrafIX™ Command is part of the EcoTrafIX™ Suite mobility management solution for real-time monitoring and control of urban signals and equipment. Adapted to Nordic standards, the system ensures seamless integration with existing infrastructure while setting a new benchmark for efficiency and reliability in traffic signal control.

The EcoTrafIX™ Suite is designed to be easily implemented within the existing infrastructure, ensuring a smooth transition and minimal disruption to current operations.

It optimizes operations across all modes by providing complete map-based situational awareness. The advanced Suite accelerates collaboration between multiple stakeholders, improves safety and response plans by automatically detecting incidents, provides a proactive strategy by predicting future traffic conditions, and decision support tools to make mobility more efficient, safe and sustainable.

The Added Value

- *The upgrade enhances Trafikverket's ability to control and monitor approximately 360 traffic signals nationwide, ensuring improved efficiency and reliability in traffic management.*
- *The implementation improved the efficiency and reliability of Sweden's centralized traffic signal control and monitoring system through state-of-the-art technology that integrates with Trafikverket's existing infrastructure.*