

INTEGRATED PLANNING AND OPERATION & CONTROL SYSTEM

Controlguide[®] **TMS**

Extension of a highly reliable and proven system

Controlguide[®] TMS allows for the seamless management of railway traffic

Rail operators are faced with a growing urban population and an associated demand for increased train availability. High throughput of trains must be managed while ensuring optimal utilisation of the existing infrastructure.

Controlguide[®] Iltis N provides a highly reliable and available solution for this challenge by processing timetables automatically. With Controlguide[®] TMS, the customer can leverage digitalisation to further optimise the usage of the railway infrastructure.

Controlguide[®] TMS is a Traffic Management System (TMS) that optimises traffic by precisely detecting and resolving conflicts ahead of time as well as implementing train timetables in a highly automated manner. Controlguide[®] TMS is an extension of Controlguide[®] Iltis N and offers an innovative solution to railway traffic control.

Unifying expertise

Best of class solutions united for our customers' convenience

Controlguide[®] TMS extends Controlguide[®] Iltis N with the Online Planning System TPS.live. Controlguide[®] Iltis N and TPS.live are both specialists in automation and conflict detection/resolution, respectively. Both solutions are at the forefront of digitalisation and are now unified to provide the customer with unique added value.

Controlguide[®] TMS is a fully integrated TMS from one source that provides our customer with a seamless railway traffic management system.

Forecasting and automation

Precise forecasting and conflict detection/resolution as well as the highest level of automation to ensure comprehensive traffic control

Controlguide[®] TMS precisely forecasts the run times of trains to enable the early detection and resolution of conflicts. Forecasting is based on the Online Production Plan (OnPP) - the operating train timetable used for automation - and train positions. Infrastructure/traction constraints such as track work or temporary speed restrictions as well as train dependencies can be created and managed within Controlguide[®] TMS to provide forecasts as precisely as possible.

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The resolution of detected conflicts can be conducted automatically, semi-automatically, and manually. The OnPP is continuously modified when new conflicts arise and is forwarded to the Automatic Route Setting functionality (ARS). ARS then implements the conflict-free OnPP autonomously. This high level of automation allows operators to focus where intervention is necessary.

Integrated HMI with intuitive control

High level of ergonomics and intuitive control of rail operation

Controlguide® TMS's ergonomic multi-screen capability supports the operator in an optimal way. Detailed views of stations and areas, as well as Train Graphs, topology/infrastructure information and other views are highly customisable. They can be aligned side-by-side in an integrated HMI, which can be accessed by a single sign-on. This provides the operator with easy control access and a transparent overview of operation at all times.

Highly scalable and available system

Controlguide® TMS enables easy maintenance and optimises Obsolescence Management

Controlquide[®] TMS has a modular design and its architecture is based on a Client/Server approach. The operator has flexible access to all interlockings from every workstation. This ensures a flexible system with high scalability and availability.

Controlquide® TMS runs on a consolidated platform which enables easy maintenance and optimises Obsolescence Management. Servers within Controlquide® TMS are virtualised to lose the linkage between the operating system and hardware. This allows more cost effective maintenance.

Benefits of Controlguide® TMS

Increased throughput: Precise conflict detection/ resolution and highly automatic implementation of timetables

Efficient operation: Integrated Human Machine Interface (HMI) enables single point access with all necessary information at one glance

Life cycle cost reduction: Optimised Obsolescence Management and maintenance through the consolidation of hardware

Customer convenience: Controlguide® TMS is a flexible system with high scalability and availability

Investment protection: Controlquide® TMS offers an extension of Controlguide® Iltis N to a full scale Traffic Management System

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