THALES

NetTrac 6613 ARAMIS

Advanced Railway Automation, Management and Information System

Main References

• DB AG	Germany
• ÖBB	Austria
• REFER	Portugal
• RHK	Finland
• S-Bahn Berlin	Germany
• Budapest BKV	Hungary

NetTrac 6613 ARAMIS is a Rail Management System for integrated Network and Centralised Traffic Control (CTC) centres. It centralises and automates the disposition and planning tasks of railway operators. It is a key element of every modern network control centre.

Users include dispatchers, signalmen, planners, station managers and end customers managing the operation and taking care for the quality of service.

NetTrac 6613 ARAMIS' integrated, modular, freely scalable architecture facilitates to maintain, extend and run the system very cost-efficient.

The targets of railway operators which consist in providing more quality for end customers at lower operational expenses and in increasing the traffic capacity are proactively approached. The system is modular and scalable in size and functionality.

The whole railway operation process is managed with seamlessly interworking modules for planning, disposition, timetable construction, control, recording, statistics, rolling stock, traffic and slot management and information distribution.

The system automatically visualises and records the actual traffic situation. It shows the variations of the forecasted versus the planned train movements and proposes an optimisation. With significant graphical views and tables the complete network operation is managed.

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Main Functions

Powerful, configurable front-ends (clients) precisely show the relevant information for the various user groups. This information is distributed from the server to the clients via Intranet and Internet in real time.

All relevant data regarding trains, rolling stock, stations, tracks, disturbances, planned construction work, availability restrictions, blockings, speed restrictions, timetables and train connections is permanently and automatically processed and visualised. Such data processing and transmission is done in a matter of seconds.

Under the supervision of the dispatchers the peripheral systems such as Passenger Information Systems (PIS) are supplied with the updated data. Occurring conflicts and delays are displayed to the dispatcher in meaningful graphs and tables. Easily configurable filters manage the wealth of information for the users. The initiation of countermeasures is considerably accelerated, the relevant information is distributed to operators, neighbouring CTC and customers and is automatically archived.

The ARAMIS-D disposition module is the core module which as an option can be operated individually with all product modules. The functions go beyond a pure visualisation of the process data with time-distance graph, station graph, map, connection graph, node graph and line graph. It serves as a central database for the peripheral systems and feeds them with the latest consistent data.

The synchronisation of the PIS with the actual/planned operation situation can be easily performed via a data interface. In ARAMIS-D the display panel shows all relevant data clearly arranged.

In principle all alarms can be visualised in the map, the line graph or in tables and result in automated consequent actions depending on the situation.

With the ARAMIS-P planning and traffic management module an efficient system is available for the construction, preparation and management of timetables. Annual timetables, special timetables, ad hoc timetables and diversion/operational timetables can be created and visualised in the map, line graph and time-distance graph. The module is completely integrated in particular as regards data keeping (infrastructure, master data, configuration management, etc.).

The detailing depth and quality of the defined and managed timetables is in compliance with the requirements of the train routing systems, i.e. the timetables are mapped with exact route detail via the complete system. Beside the information for the automatic route setting system all information for the PIS can be supplied.

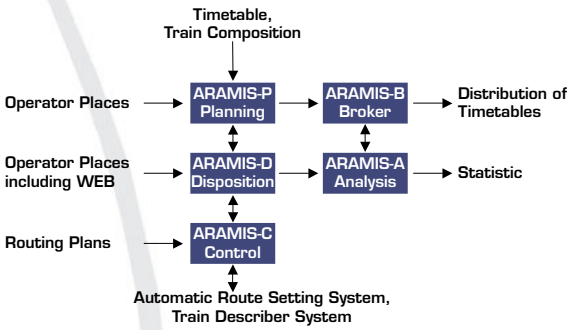
Key Benefits

- More quality for end customers
- Increase of traffic capacity
- Reduction of operational expenses
- Fully integrated, powerful client-server solution
- All-inclusive features for management of traffic
- Mixture of legacy and new infrastructure is supported
- Implemented features are proven in real operation
- State-of-the-art technology (Linux, Java, Oracle Data Base)
- Seamless interworking with interlocking, ETCS and peripheral systems

With the ARAMIS-A analysis module a multitude of standardised statistics and evaluations is available. All statistics are based on the process data archived. The analyses can be carried out in an automated way via configurable profiles or individually with definable rules.

With the ARAMIS-B broker "any" data (e.g. annual timetable/daily timetable) can be taken over from a data supplier and distributed to any number of configurable data receivers (e.g. PIS, accounting systems, statistics systems, etc.). The data is taken over and distributed in an event-dependent, cyclical or sporadic manner according to the receiving system.

With the ARAMIS-C control module the various Automatic Route Setting (ARS) systems are directly supplied with the actual routing plans (routes, trigger points, setting times, waiting conditions) that were changed in the disposition module.



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