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Ansaldo STS is awarded work worth EUR 43.7 million for the technological upgrade of the Genoa rail network

Rete Ferroviaria Italiana SpA has awarded Ansaldo STS (STS.MI) work worth EUR 43.7 million on the technological upgrade of the Genoa rail network.

The works in question concern innovative safety and signalling equipment, the multi-station computer-based interlocking system (ACC) and telecommunications between the stations of Genoa Voltri and Genoa Brignole.

The multi-station ACC system of the Genoa rail network will have a central multi-station operations room situated at Genoa Teglia, the location of the network's centralised traffic control system (CTC), which has been in service since 2003 (last section of the line opened in 2006) and was developed and provided exclusively by Ansaldo STS. Within the rail network, the central multi-station operations room will govern the following multi-station areas:

- Area 1, Genoa Voltri
- Area 2, Genoa Sampierdarena
- Area 3, Genoa Brignole

The works also include:

- the integration of the ACC system into the CTC system, through the installation of an integrated command system, located at Genoa Teglia, which will enable command and control of the multi-station ACC system and connection with the CTC;
- the installation of onboard train control (SCMT) equipment for all stations and lines in the multi-station area and in particular the construction of a new SCMT central operations room in Genoa Campasso;
- the provision of a remote visual inspection system for Genoa Brignole station.

PRESS RELEASE

Note

CTC is the integrated and standardised command and control system adopted by Italian Railways. The first CTCs for the main lines and junctions of the Italian rail network were awarded to Ansaldo Segnalamento Ferroviario.

The operators of the four subsystems are located in the central operations room:

- central operations managers and control manager for rail traffic
- infrastructure coordinator and specialist operators, for diagnostics and maintenance
- public information managers
- telesurveillance and safety manager.

The Synoptic Panel represents the whole area controlled, and provides all operators in the room with an immediate and overall view of the real situation with regards to traffic and infrastructure. CTC automates both traffic management and the implementation of telecommands, in order to ensure compliance with the timetable. CTC prepares and updates the forecast progress of every train, taking into account the real developments in traffic, interruptions and slow-downs, both under way and expected. CTC analyses traffic conflicts, produces a complete plan of options and updates it continuously based on the trend in the traffic, changing junctions, priorities, waiting periods and alternative routes when necessary. CTC therefore automatically produces at the appropriate time the telecommands necessary to implement the traffic options selected. Operators may intervene at any time, imposing their own decisions or issuing telecommands directly.

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