

Control system for Italian autopilot, VAL metro

CARL Software a European solutions provider in maintenance management and asset management has selected the Italian city of Turin as home to its new office

One of the main reasons for this location is the Metropolitana di Torino (Turin Metro) a VAL metro system connecting Turin city centre Italy with the neighbouring city of Collegno It is operated by Gruppo Trasporti Torinesi (GTT) controlled by the municipality of Turin

The VAL (automatic light vehicle) metro system designed by Siemens Technology runs autonomously without a

manned driver The system is monitored by a transport-specific CMMS system designed by Carl Software Carl Master Transport was deployed by Siemens Transportation Systems to monitor maintenance of the VAL trains 14 stations and the central control centre

This particular VAL rail systems runs on a tire system giving it qualities of dynamic acceleration and better braking In Turin the fleet consists of 58 vehicles which can form up to 29 trains (each train is composed of 2 vehicles that are each 26 m) The network is divided into independent

sections controlled automatically which helps keep the traffic flowing even if a fault is found on a vehicle that can then be taken off the run for repair The autopilot is housed in a technical room at the station which also houses the sound systems video telephony radio network power system which supplies the train with 750 volts power

The VAL system has a near 100% punctuality rate on top of a 99 % uptime for its fleet of 52 vehicles

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