

Transportation Systems

For the trade press

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Siemens is a reliable supplier of rail automation systems:**Extension of the fully automated Metro Line 14 in Paris goes into operation**

From today, the extension of the Paris Metro Line 14 will go to the station Gare Saint-Lazare. It runs the total distance of the now eight-kilometer route in the center of Paris, between Bibliothèque François Mitterrand and Gare Saint-Lazare in only 13 minutes, including the dwell times at the eight stations on the line. Siemens Transportation Systems (TS) implemented the integrated automation system of this fully automated driverless metro.

The new section of the Line 14 was officially put into revenue service today by the French Minister of Transportation, Gilles de Robien, and by the CEO of the mass transit authority of Paris RATP, Anne-Marie Idrac. For the new section, as for the existing route of Line 14, Siemens TS supplied an integrated automation system to RATP, which includes the components of the automatic train control system, signaling, the communication system, and the operations control center.

Since its start on October 15, 1998, the fully automated driverless metro has transported more than 260 million passengers on the route between Bibliothèque François Mitterrand and Madeleine. With its new terminus Gare Saint-Lazare, the line celebrates another premiere: For the first time, a metro line creates a direct link between two SNCF mainline train stations, Gare de Lyon and Gare Saint-Lazare. This adds to the attractiveness of the line, with a corresponding expected increase of passenger numbers. For 2004, RATP predicts an increase of the passenger volume by 37 percent and another 13 percent in 2005; overall, this means

an increase of 50 percent in just two years. Another Southern extension of the Line 14 all the way to the future station Olympiades is planned for 2007.

With an average speed of 40 km/h, including the dwell times at stations, this fully automated metro is significantly faster than conventional lines running at an average speed of 25 km/h. Operations can also be adjusted to the actual passenger load both quickly and easily: At peak times, the trains can run at headways as short as 85 seconds, thus transporting almost 40,000 passengers per hour and direction.

To ensure the safety of the passengers, a direct radio link to the operations control center at Bercy station is not only provided at every station but in every single train, all of which also feature an open end-to-end design. An innovative feature that is unique in the world is that this is an audio connection as well as a video link. Operators in the operations control center can actually see the caller in the train or on the platform on a screen.

The integrated automation system for the Paris Metro Line 14 was developed by the French Siemens subsidiary Siemens Transportations Systems France – STS. STS France is global market leader for fully automated driverless metros and provider of automatic train control systems and automation solutions for traditional metro networks. Reference projects include, for example, the world's first fully automated driverless train which was put into operation in Lille in 1983 and the Line D in Lyon that was inaugurated in 1992. Furthermore, Siemens is implementing the future Line 9 in Barcelona, Spain. In Germany, Siemens is implementing the first fully automated driverless metro, the Line U3 in Nuremberg, that will commence service in 2006.

Line 14: Facts & Figures

October 1989	Decision for a fully automated driverless metro
April 13, 1992	Signing of contract for the Bibliothèque – Madeleine route
1992	Ground-breaking ceremony
Oct 15, 1998	Start of revenue operation Madeleine – Bibliothèque Francois Mitterand
Dec 11, 2000	Signing of contract for the Madeleine – Saint-Lazare section
Dec 16, 2003	Official inauguration and commissioning of the extension between the stations Madeleine and Saint-Lazare

Total length	8 kilometers
Stations	8
Capacity	25,000 passengers per hour per direction
Travel time	13 minutes
Shortest headway	Trains every 85 seconds
Ridership forecast	53 million passengers per year (2004), 330,000 per day from 2004

The **Transportation Systems Group** (TS) of Siemens AG is one of the leading international suppliers to the railways industry. As single source supplier and system integrator, the Group combines in its business segments Automation & Power, Rolling Stock, Turnkey Systems and Integrated Services all the expertise necessary to cover the spectrum from signaling and control systems to traction power supplies, as well as rolling stock for mass transit, regional and main line services. Extensive experience in project management and forward-looking service concepts complement our portfolio. In fiscal 2003 (ended September 30) TS generated sales of EUR4.7 billion with a staff of around 17,700 the world over. Further information on TS can be found at www.siemens.com/transportation