



**SIEMENS**

# Paris Charles de Gaulle Airport (France)

CDGVAL Line and TERMINAL 2E Line (LISA)

Val fully automated metro system - Turnkey project

With its 70 km/h peak speed, the CDGVAL line connects the three airport terminals, CDG1, CDG2 and CDG3 as well as the regional and national train stations and the long-term parking lots PR and PX in only 8 minutes.

The integral automatic control system in this Val makes the traffic very flexible and reduces the waiting time in stations by increasing the number of trains per hour (every 4 minutes in peak times) under optimal safety conditions.

The CDGVAL line operates around the clock and enables 64 million transiting passengers each year, as well as the 80,000 employees of the hub to travel from one terminal to another quickly and effortlessly.

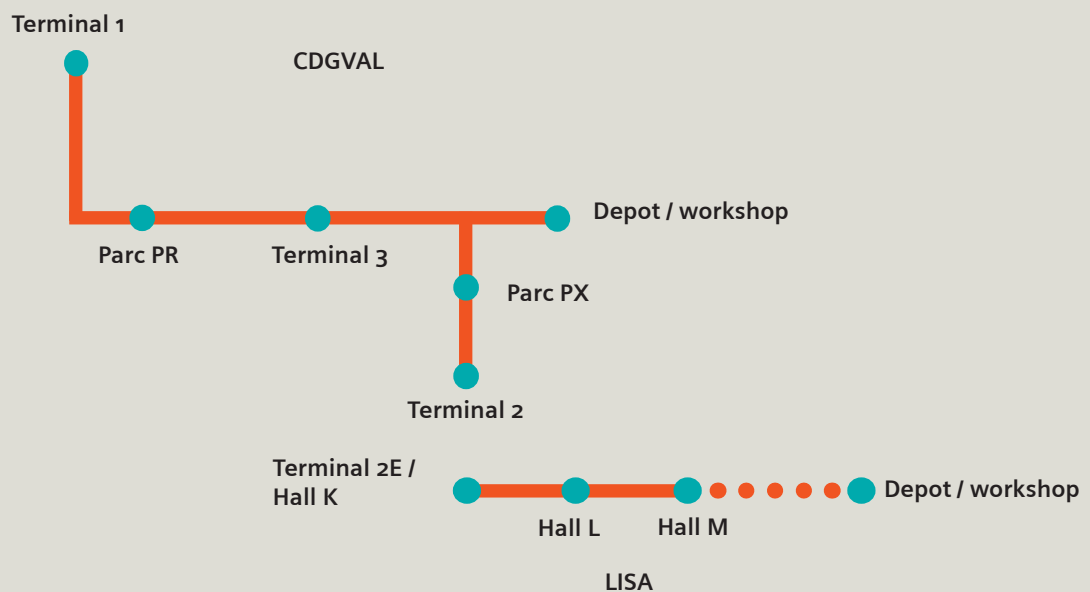
The TERMINAL 2E line covers the 600 m separating terminal 2E from the Hall L within only 60 seconds. It operates 20 hours a day and can be operated 24h/day. In June 2012, the line has been extended (300 meters) with the Hall M station, without any interruption of the current service.

The all-electric Val system is a safe, clean and silent method of transport, as it runs on tires. To a great extent, it replaces the diesel shuttle busses used previously. Each bus ran 120,000 kilometers per year. With the CDGVAL, 750 tons of diesel will be saved. The CDGVAL will also prevent the emission of 15 tons of nitrogen oxides and 2,500 tons of carbon dioxide into the atmosphere per year.

Siemens is also involved in the maintenance of the Operations Control Center and the automatic control systems.

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Technical Information	CDGVAL line landside	Terminal 2E line (LISA) airside
Line length	3.3 km - double lane guideway	0.9 km
Number of stations	5	3
Number of vehicles / Car consist	7 Val 208 married-pair 118 passengers per married-pair	11 Val 208 married-pair 132 passengers per married-pair
System technology	Fully automated AGT system Fixed block technology	
Contract award	December 2002	February 2004
Revenue service	April 2007	June 2007 (extended in June 2012)
Passengers carried/peak hour	1,900 pphpd (system design: 4,100 pphpd)	7,900 pphpd (up to 10,000 pphpd when necessary)
Passengers carried annually	10,000,000	10,000,000
Operating hours	20 hours/day, 7 days/week	20 hours/day, 7 days/week (design for 24/7)
Type of service	Pinched loop	Pinched loop
System Availability Achieved	contract : 99,5% (achieved : 99,8%)	contract : 99,5% (achieved : 99,8%)
Commercial speed	26 km/h	30 km/h



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