SIEMENS

Mobility Division

Background Information

Berlin, September 20, 2016

Innotrans 2016, September 20-23, 2016 in Berlin

Mireo – the new regional and commuter platform from Siemens for local transport

Worldwide, growing numbers of people are living in urban centers and want to be mobile. Yet the average speed on the streets of many major cities is already less than 20 km/h and is continuing to drop. As a result, the popularity of public regional and urban transport systems is gaining over private transport. In Germany alone, between six and ten million people living in urban regions will be using rail transport on a daily basis by 2030. This development is challenging operators of public transport systems, in particular, to master the steadily growing demand for mobility while at the same time meeting the requirements for excellent performance, profitability, punctuality, environmental compatibility, safety and customer friendliness. The new regional and commuter platform – called the Mireo – from Siemens was developed specifically to satisfy all of these requirements.

Proven technology combined with innovations provide greater environmental compatibility

The vehicle is conceived as a scalable articulated train. With its trailing bogies with inside bearings, not only can considerable energy be saved, but additional cost reductions can be achieved through fewer bogies and car bodies. The basic car body was developed as a lightweight welded integral aluminum monocoque construction primarily based on large extruded profiles. All components are installed on the vehicle roof or beneath the floor.

Improved aerodynamics compared to previous models, along with components that are more energy-efficient, result in an impressive reduction of weight and energy consumption. The more efficient transformer and the optimal utilization of the electrodynamic (ED) brake system reduce the consumption of traction energy.

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With the help of the new aerodynamic design and quiet bogies, noise is reduced to a level. The lightweight construction, energy-efficient components and an intelligent board network management system reduce energy consumption by 25 percent, and the driver assistant system contributes a further 30-percent saving in energy. The Mireo can be optionally equipped with electrical traction batteries to bridge sections of the route that don't have overhead power lines. Furthermore, a recycling quota of 95 percent at the end of the vehicle's service life, achieved by using specially selected materials, makes the Mireo especially ecofriendly.

Modular concept offers greater capacity and flexibility

The vehicle concept makes possible various car body lengths and train configurations as well as entry heights, ensuring that different capacity requirements can be met. Train configurations ranging between two cars and seven cars have lengths between 50 and 140 meters and top speeds between 140 and 200 km/h.

Onboard Internet, passenger assistance and information systems, onboard entertainment and CCTV security surveillance systems are naturally part of the Mireo concept. The entire interior space can be flexibly configured over the vehicle's full service life and easily adjusted to meet changing requirements. More seats are available than in previous models of the same length. The spatially optimized construction enables more passengers to be transported with shorter vehicle lengths. Usable interior area is fully available for passengers, and the cantilever seating design allows the passenger area to be easily and cost-efficiently cleaned.

Since passengers want their seamless mobility to be "always connected," onboard Internet access, passenger assistance and information systems, onboard entertainment, and security monitoring via CCTV are naturally all part of the Mireo concept.

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Siemens AG (Berlin and Munich) is a global technology powerhouse that has stood for engineering excellence, innovation, quality, reliability and internationality for more than 165 years. The company is active in more than 200 countries, focusing on the areas of electrification, automation and digitalization. One of the world's largest producers of energy-efficient, resource-saving technologies, Siemens is No. 1 in offshore wind turbine construction, a leading supplier of gas and steam turbines for power generation, a major provider of power transmission solutions and a pioneer in infrastructure solutions as well as automation, drive and software solutions for industry. The company is also a leading provider of medical imaging equipment – such as computed tomography and magnetic resonance imaging systems – and a leader in laboratory diagnostics as well as clinical IT. In fiscal 2015, which ended on September 30, 2015, Siemens generated revenue of €75.6 billion and net income of €7.4 billion. At the end of September 2015, the company had around 348,000 employees worldwide. Further information is available on the Internet at www.siemens.com

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