

Siemens Mobility GmbH

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Siemens officially opens RRX maintenance depot

- **Rail Service Center inaugurated in Dortmund-Eving, Germany**
- **Digitalized service and maintenance of RXX trainsets for 32 years**
- **Contract specifies over 99 percent availability of RRX trains**

Today, after one-and-a-half years of construction, Siemens Mobility is officially inaugurating the new maintenance depot for the Rhine-Ruhr Express (RRX). In the future, 75 employees in the Rail Service Center in Dortmund-Eving will service and maintain the 82 electric RXX Desiro HC multiple-unit trains for a period of 32 years. The digitalized and paperless concept ensures that the trains' contractually agreed availability of over 99 percent can be guaranteed.

Martin Husmann, CEO of Verkehrsverbund Rhein-Ruhr (VRR), also speaking on behalf of the other rapid transit associations participating in the RRX project – Westphalia-Lippe (NWL), Rhineland (NVR), Rhineland Palatinate North (SPNV-Nord) and North Hesse (NVV) – stated: "I am especially pleased for the passengers, because today's opening marks a further step into the future. Over the coming years, we'll be creating a substantially improved mobility offering for the roughly 2.7 million people who use the regional rapid transit rail network every day. We expect the new facility in Dortmund will make a decisive contribution toward guaranteeing the best possible availability of the new trains."

"With our digitalized service and maintenance, we see ourselves as a pioneer in the industry and will make certain that the RRX trains are reliably available to passengers. To ensure this, we've equipped the Rail Service Center and the trains with the latest diagnostic systems that enable us to detect faults before they can actually interfere with operations," said Sabrina Soussan, CEO of Siemens Mobility.

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For this purpose, Siemens Mobility has laid around 5.5 kilometers of tracks on the grounds of the former Dortmund-Eving marshalling yard and provided a six-track workshop building, a three-story warehouse and staff facility, a gatehouse building, outside storage areas and a facility for washing the trains. All maintenance processes can be managed completely without paperwork: Employees are provided with their work orders, along with all the information they need for repairs and maintenance, on tablets. While in service, the trains continuously deliver data on their status via multiple sensors to the depot, where it is processed.

Each train generates between one and four billion data points per year. Using intelligent algorithms, data experts at Siemens Mobility analyze the data for each critical component on the train. The objective is to detect any deviations from normal conditions in order to calculate error predictions and provide workshop technicians with recommendations for acute service or routine scheduled maintenance. With this information, necessary measures can be planned and prepared before the train arrives at the depot. This way, spare parts can be right at hand and the employees' work can be optimally coordinated. This ensures that the time trains spend in the depot is as short and efficiently utilized as possible so they can be quickly returned to service.

The RRX workshop also has a state-of-the-art vehicle inspection system (AVI) which is being used for the first time in Germany. As the trains enter the workshop grounds, they pass the AVI facility where the wheels, axles and tread patterns of each car are automatically inspected using modern laser technology. This data is directly entered in the data management system, evaluated and further processed. In addition, the workshop has a high-performance 3D printer that quickly and directly makes plastic spare parts that would otherwise not be available on short notice or at low cost.

In March 2015, the rapid transit associations participating in the new RRX rail transport concept commissioned Siemens Mobility to deliver 82 Desiro HC electric multiple-unit trains and provide their servicing and maintenance for a period of 32 years. The order, worth a total of more than €1.7 billion, is the largest Siemens has received to date in the sector of regional rail transport in Germany.

This press release and press pictures material are available at

www.siemens.com/press/RRX

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Siemens Mobility is a separately managed company of Siemens AG. As a leader in transport solutions for more than 160 years, Siemens Mobility is constantly innovating its portfolio in its core areas of rolling stock, rail automation and electrification, turnkey systems, intelligent traffic systems as well as related services. With digitalization, Siemens Mobility is enabling mobility operators worldwide to make infrastructure intelligent, increase value sustainably over the entire lifecycle, enhance passenger experience and guarantee availability. In fiscal year 2017, which ended on September 30, 2017, the former Siemens Mobility Division posted revenue of €8.1 billion and had around 28,400 employees worldwide. Further information is available at: www.siemens.com/mobility.