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Press

Siemens Mobility GmbH

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Siemens Mobility to modernize three lines of São Paulo's transport network in Latin America's largest ATO over ETCS project

- Most extensive implementation of ATO over ETCS Level 2 technology in Latin America; largest ETCS L2 in Latin America
- Comprehensive signaling solution covering 140 kilometers of track and 46 stations across three commuter lines
- Contract includes equipping more than 130 vehicles with state-of-the-art
 Trainguard ETCS on-board units

Siemens Mobility has secured a contract from Trivia Trens S.A. to deliver and implement a complete, digital signaling system featuring Automatic Train Operation (ATO) over ETCS Level 2 for São Paulo's commuter rail lines 11-Coral, 12-Sapphire, and 13-Jade. The project covers 140 kilometers of track and 46 stations, marking Latin America's largest implementation of this advanced rail signaling technology. The contract includes equipping 107 trains, six locomotives MRS, three locomotives TRIVIA and 17 auxiliary vehicles (yellow fleet) with Trainguard ETCS (European Train Control System) on-board units.

"This landmark project demonstrates our commitment to bringing cutting-edge rail technology to Latin America," said Marc Ludwig, CEO of Rail Infrastructure at Siemens Mobility. "By implementing ATO over ETCS Level 2 in São Paulo's busy metropolitan transportation network, we're setting new standards for automated urban rail transportation in the region and up to 30% increased network capacity. Together with our client, we implement the largest ETCS Level 2 project in South America."

Siemens Mobility GmbHCommunications
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Krauss-Maffei-Str. 2 80997 Munich Germany The comprehensive scope includes the design, supply, installation, commissioning and assisted operation of the signaling system across the three lines, equipping various train types from various manufacturers with state-of-the-art Trainguard ETCS onboard units. The solution encompasses key components such as an Advanced Traffic Management System (ATS), modern interlocking systems, Radio Block Centre (RBC), and complete trackside equipment, backed by a two-year warranty period and spare parts provision.

ATO over ETCS represents the cutting edge of rail technology, combining two advanced systems to maximize operational efficiency and safety. While the ETCS Level 2 provides continuous digital supervision and control of train movements via TETRA, the ATO system automates driving functions to Grade of Automation (GoA) Level 2. This technological integration enables precise acceleration and braking patterns, exact stopping at platforms, and optimized headways between trains.

The implementation of this advanced technology will transform São Paulo's commuter rail line operations through enhanced service frequency and reliability. The system's optimized driving algorithms significantly reduce energy consumption and peak power demand, while its streamlined architecture minimizes maintenance requirements. With fewer trackside components and the ability for future upgrades, this solution represents a future-proof investment for São Paulo's expanding mobility needs.

This press release as well as a press photo are available at https://sie.ag/43jmnY

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For further information about Siemens Mobility, please see: www.siemens.com/mobility

Siemens Mobility is a separately managed company of Siemens AG. As a leader in intelligent transport solutions for more than 175 years, Siemens Mobility is constantly innovating its portfolio. Its core areas include rolling stock, rail automation and electrification, a comprehensive software portfolio, turnkey systems as well as related services. With digital products and solutions, and the use of industrial artificial intelligence, Siemens Mobility is enabling mobility operators worldwide to make their infrastructure intelligent, increase value sustainably over the entire lifecycle, enhance passenger experience, and guarantee availability. In fiscal year 2024, which ended on September 30, 2024, Siemens Mobility posted revenue of €11.4 billion and employed around 41,900 people worldwide. Further information is available at: www.siemens.com/mobility