

Alstom signs contract with CPTM to implement the signalling system for the new Mauá Norte Yard in Greater São Paulo

- The agreement covers the supply of a complete railway signalling system, with equipment certified to the highest international level of reliability.
- The solution will enhance safety and operational efficiency in the yard by improving control of train movements, providing real-time visibility of track occupancy and supporting more efficient train allocation.
- The new Mauá Norte Yard, located between Mauá and Capuava stations on Line 10-Turquoise, was built by CPTM and includes six new tracks for shunting, train formation and stabling of trainsets.
- The project includes installation, testing, commissioning and integration with the existing systems in adjacent areas and will be completed in 18 months.

15 July 2026 – Alstom, global leader in smart and sustainable mobility, announces the signing of a contract with Companhia Paulista de Trens Metropolitanos (CPTM) for the supply and implementation of the railway signalling system for the new Mauá Norte Yard, which is part of Line 10-Turquoise. The yard, located between Mauá and Capuava stations, was built by CPTM and includes six new tracks for operational shunting, train formation and stabling of trainsets outside operating hours.

The agreement provides for the supply, installation, testing and commissioning of a complete signalling system, including electronic interlocking, field equipment for operating and controlling track switches, trackside light signals and train occupancy detection, all designed in compliance with the highest level of safety integrity (SIL 4: Safety Integrity Level 4). Alstom will also supply auxiliary subsystems including closed-circuit television, an access control system, telecommunications infrastructure and radio communication dedicated to railway operations.

By deploying a modern signalling system in the yard, the project will contribute to safer and more reliable operations compared with processes based only on manual procedures or yard operating rules. The solution will help prevent operational conflicts with the main line, while providing controllers with real-time visibility of track occupancy and better support for dispatching decisions. For CPTM, this means improved operational control and more efficient use of the yard infrastructure; for workers, it supports safer operating conditions by reducing reliance on manual interventions; and for passengers, it contributes to greater service reliability by helping reduce operational impacts, delays and failures.

A tried-and-tested solution, developed by Alstom

This is a local solution developed and supplied by Alstom, which has already been deployed in several projects across Latin America, ensuring robustness, adaptability and competitiveness. Its entire development will be carried out with Brazilian labour, reinforcing Alstom's commitment to developing local talent and strengthening the domestic industry.

“A highly reliable and available signalling system is essential to optimize the operational management of the yard, enabling better allocation of trainsets, increased operational capacity, and reduced service delays and failures. This project reaffirms Alstom’s ongoing commitment to technological innovation and the evolution of transport infrastructure in the region,” says Suely Sola, Managing Director of Alstom Brazil and Signalling & Infrastructure for Latin America.

The project also includes the adaptation and integration of the existing signalling systems in the adjacent areas of Capuava and Mauá, ensuring interoperability and continuous communication between the systems. The operational architecture will include a local control center at the yard and two remote supervision posts, fully integrated with the Operational Control Center (OCC) of Line 10-Turquoise, enabling real-time monitoring, centralized traffic management and greater efficiency in operational decision-making.

“Automation at the Mauá Yard is another step in CPTM’s modernization process. With remote operation integrated with the Operational Control Center, we are increasing efficiency, strengthening operational safety and making shunting operations even faster and more reliable,” said Michael Cerqueira, President of CPTM.

Alstom will execute the project over 18 months and, after completion of the works, the company will monitor operations for an additional six months to ensure the proper functioning of all systems. The contract also includes a two-year warranty.

Alstom Brazil

Present in Brazil since 1955, Alstom has been actively contributing to the development of infrastructure and mobility in the country, promoting social progress while respecting the environment. A leader in rail mobility in the Brazilian market, the company also holds the largest installed signalling base in Latin America, with more than 7,350 kilometers of signalling and over 2,000 onboard systems in operation, making it the largest installed base in the region.

Alstom promotes mobility through all its product lines for rail transport, supplied to the country’s main passenger transport operators in Brazil, in cities such as São Paulo (SP), Rio de Janeiro (RJ), Porto Alegre (RS), Recife (PE), Brasília (DF) and Belo Horizonte (MG). Rolling stock manufacturing and control and signalling systems — which ensure the safe movement of trains — are also present in mobility projects in other countries across Latin America and around the world, including South Africa, Argentina, Colombia, Chile, Ecuador, the United States, Mexico, Panama, Peru, the Dominican Republic, Romania and Taiwan.

In Brazil, Alstom also develops and delivers advanced signalling technologies, such as 2oo3 (two-out-of-three) electronic interlocking systems using CMT-MUX technology. This modern, proven platform, developed and supplied locally, has been successfully deployed across several metro systems in the region, including recent implementations in Brazil, consistently demonstrating high levels of reliability, safety, and operational performance.

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About Alstom

Alstom is the pure rail leader, committed to making rail the backbone of sustainable transportation. We design and deliver a complete range of future-ready solutions – from high-speed and regional trains to metros, monorails, trams, turnkey systems, end-to-end services, infrastructure, signalling and digital rail solutions. With 87,800 people in 61 countries, Alstom brings together global expertise and multi-local presence to make every journey smarter, cleaner and more enjoyable. Together with our partners and customers, we realise the power of rail. Listed in France, Alstom generated revenues of €19.2 billion for the fiscal year ending 31 March 2026.

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