

Thales and SMRT Trains to enhance reliability and sustainability of Singapore metro lines

- SMRT Trains is partnering with Thales to establish a local signalling facility within Bishan Depot to repair critical electronic cards for the signalling systems used on the North-South and East-West Lines.
- The collaboration will boost local competencies within SMRT Trains' Integrated Electronic Workshop to diagnose and repair these critical components, enhancing the long-term reliability and sustainability of the signalling systems running on the nation's legacy MRT lines.
- On the digital front, SMRT Trains and Thales will jointly develop an intelligent rail analytics platform, leveraging condition-monitoring devices, data analytics and cloud computing. This enables smart monitoring of rail signalling systems and supports condition-based maintenance that reinforces reliability of the signalling system at an optimal cost.



SMRT Trains & Thales to enhance reliability and sustainability of Singapore metro lines © SMRT Trains

SMRT Trains and Thales share a goal to provide safe, reliable and comfortable journeys in Singapore. They have inked two agreements – for the joint establishment of a local rail signalling repair facility and also the joint development of an intelligent rail analytics platform – to reinforce the reliability of the nation's oldest MRT lines operated by SMRT Trains.

SMRT Trains, Singapore's pioneer and dominant rail operator, and Thales have signed a repair collaboration agreement to establish a local repair facility on the rail operator's premises at Bishan Depot to reduce repair turnaround time and improve cost efficiencies.

Thales's renowned SelTrac™ Communication-Based-Train-Control (CBTC) signalling system is used on the North-South and East-West lines (NSEWL) of Singapore's rail network, both of which are operated by SMRT Trains. Currently, critical electronic cards for the signalling equipment are produced and repaired by Thales at its dedicated facilities in Canada and France.

With this agreement, Thales's rail experts will work closely with SMRT Trains' Integrated Electronic Workshop to set up the repair facility. This includes training and transfer of expertise and technical know-how to enable technicians from SMRT Trains to diagnose and repair faulty components.

On the digital front, SMRT Trains and Thales have signed an agreement to jointly develop an intelligent rail analytics platform for the smart monitoring of rail signalling systems. Under this agreement, SMRT Trains' engineers and Thales experts will organise a series of Design Thinking workshops to define specific use cases and identify key maintenance priorities.

Built upon Thales's Urban Rail Signalling – Rail Analytics Platform, the tailored digital platform will leverage condition-monitoring devices, data analytics and cloud computing to automate the analysis of signalling system health and performance, and to identify and address potential maintenance issues before they occur. This will help to better manage engineering resources and improve systems reliability and performance.

"SMRT Trains is continuously looking at ways to enhance the safety, reliability and productivity of our rail maintenance regimes. We are excited to collaborate with Thales to strengthen our maintenance capability and resilience, as well as bolster our staff's expertise. With the establishment of the repair workshop at Bishan Depot, we aim to cut down repair turnaround time and cost. The use of digital technologies to preempt maintenance issues is also a key strategy for SMRT Trains as we strive to provide smooth journeys for commuters." **Lam Sheau Kai, President, SMRT Trains**

"Thales truly appreciates the continued trust that SMRT Trains has placed in us. With these agreements, we will tap into Thales's renowned expertise in managing complex, global rail projects to deepen local expertise and capabilities in Singapore's rail ecosystem. We look forward to co-innovating on cutting-edge digital solutions in intelligent rail analytics. This will help ensure safer and more reliable rides for commuters." **Emily Tan, Country Director & Chief Executive, Thales in Singapore**

The two agreements signed between SMRT Trains and Thales follow the recent announcement of a joint initiative by the partners called ["The Next-Generation Green CBTC Project"](#), which aims to reduce electricity consumption and further improve traction energy efficiency of the NSEWL.

About Thales

Thales (Euronext Paris: HO) is a global leader in advanced technologies, investing in digital and “deep tech” innovations – connectivity, big data, artificial intelligence, cybersecurity and quantum technologies – to build a confident future crucial for the development of our societies. The Group provides its customers – businesses, organizations and governments – in the defense, aeronautics, space, transport, and digital identity and security domains with solutions, services and products that help them fulfil their critical role, consideration for the individual being the driving force behind all decisions. Thales has 81,000 employees in 68 countries. In 2021, the Group generated sales of €16.2 billion.

About Thales in Singapore

Thales has operated in Singapore for close to 50 years, providing state-of-the-art solutions for customers across many sectors including Aerospace, Defence & Security, Ground Transportation and Digital Identity & Security.

Today Thales employs over 2,000 people in the country and remains committed to furthering Singapore’s ambitions as a regional innovation hub in Southeast Asia. One of the Group’s five Research & Technology labs and its first Digital Factory outside of Europe are both located in Singapore.

Thales also has a substantial manufacturing footprint in Singapore, including one of the Group’s largest avionics production and Maintenance, Repair and Overhaul (MRO) facility at Changi North Rise as well as its largest multi-product manufacturing facility, which produces banking cards, micro-modules, radio frequency antennas and passport data-pages at Ayer Rajah Crescent.

About SMRT Trains

SMRT Trains Ltd. (SMRT Trains) is the largest train services provider in Singapore. As a subsidiary of SMRT Corporation Ltd, we manage and operate the North-South Line, East-West Line, the Circle Line, the Bukit Panjang Light Rail Transit system, and the new Thomson-East Coast Line.

We have set our core values to be Respect, Integrity, Safety and Service, and Excellence. SMRT Trains is committed to provide safe, reliable and comfortable service for our commuters.

PRESS CONTACT

Thales, Media Relations Transport

Chrystelle Dugimont
+33 (0)6 25 15 72 93
chrystelle.dugimont@thalesgroup.com

Thales, Corporate Communications South East Asia, Japan, South Korea & Taiwan

Serene Koh
+65 6594 6898
serene.koh@asia.thalesgroup.com

SMRT Corporate Communications

+65 9822 0902

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media@smrt.com.sg