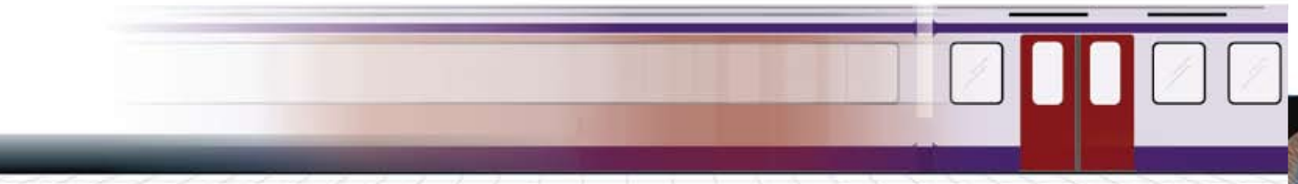


Integrated turnkey solutions

Proven

Transport systems have been a core business of Thales Transportation Systems for more than 35 years. Thales solutions are fully proven in both conventional metros and fully automated, driverless systems.

Scalable

Thales solutions are tailored to the requirements of each metro network. They are suitable for new lines as well as existing infrastructure and offer the scalability needed to support future network developments.

Open

Thales's modular solution is built on proven technologies and open architecture to provide flexibility, scalability and interoperability with all signalling providers.

Optimised

Thales solutions optimise maintenance, asset management, power consumption, security, and coordination of crisis management and response teams.

Turnkey

Thales offers complete turnkey solutions by providing its customer with project management, engineering, installation, commissioning, operation and maintenance services.

Operating worldwide for more than 35 years

Every day, 30 million passengers in more than twenty cities around the world currently rely on Thales solutions, including:

- Santiago - Chile
- Beijing - China
- Guangzhou - China
- Hong Kong - China
- Copenhagen - Denmark
- Santo Domingo - Dominican Republic
- Cairo - Egypt
- Paris - France
- Thessaloniki - Greece
- Brescia - Italy
- Florence - Italy
- Milano - Italy
- Palermo - Italy
- New Delhi - India
- Mexico City - Mexico
- Singapore - Singapore (driverless)
- Bilbao - Spain
- Madrid - Spain
- Lausanne - Switzerland
- Dubai - UAE (driverless)
- London - United Kingdom
- Caracas - Venezuela

Thales Operation Control Centre in Hong Kong

© Thales - 12/07 - Photos : Thales, Getty Images - Design & production: MAKASAR

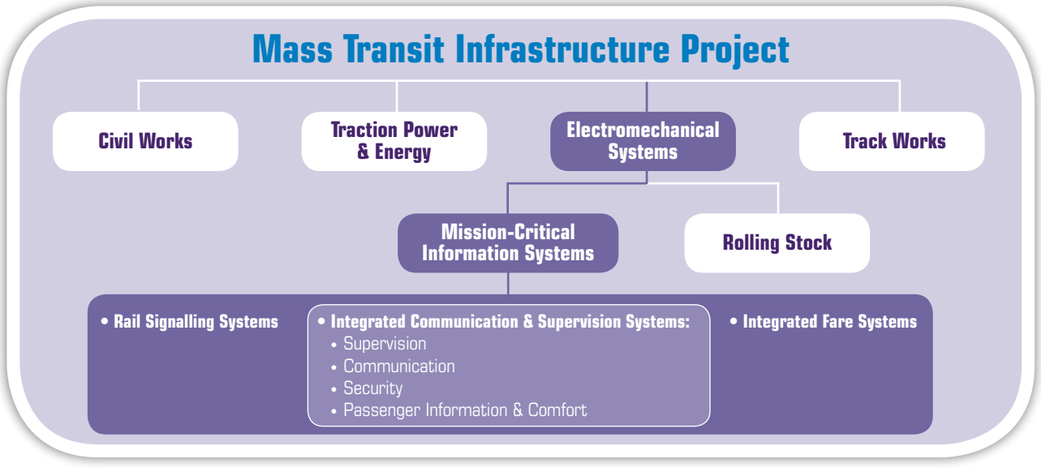
Thales Transportation Systems
20-22 rue Grange Dame Rose - CS 80518
78141 Vélizy Cedex - France
Tel: +33 (0)1 73 32 00 00
contact@thalesgroup.com
www.thalesgroup.com/security-services

THALES

Integrated Communication & Supervision Solutions

Supervision, Communication, Passenger Information & Comfort and Security

Integration and interoperability at every level of the transport system are the key to smooth, continuous metro operations and enhanced safety and security for passengers, operators' employees and assets. Built on an open architecture, Thales's integrated transport communication and supervision solutions for metro operators harness the latest technologies to deliver dramatic increases in line capacity and operational efficiency while reducing overall infrastructure costs. With these integrated, secure and safe solutions, all critical data are centralised on one system and accessed through a single user interface, with an offsite backup centre guaranteeing continuity of critical functions. As a major player in secure communications, SCADA security and passenger information and comfort, Thales delivers a unique combination of performance, reliability and resilience.



Integrated Communication & Supervision Solutions:
Integrated, Secure and Safe

Power system supervision and management
Management of high - and low - voltage networks, optimisation and automatic reconfiguration of the distribution network, management of backup power supply.

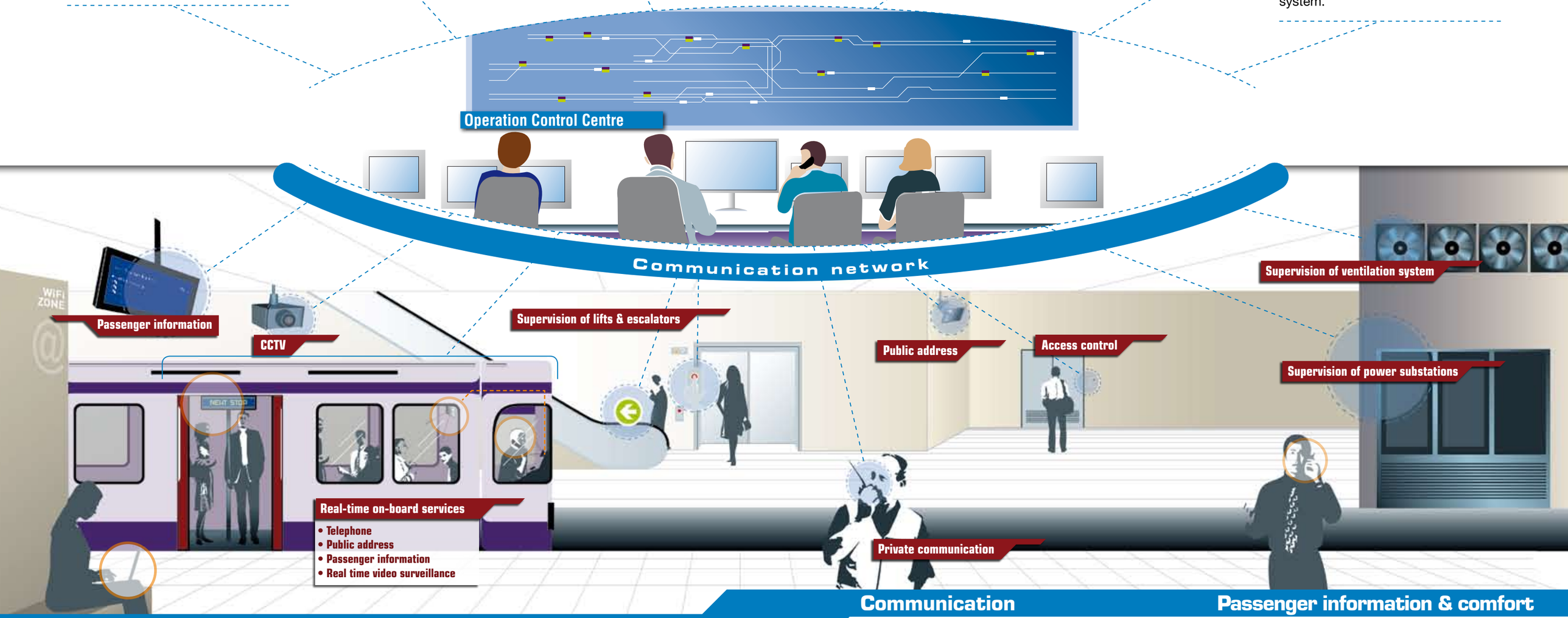
Passenger information & comfort
Remote management of passenger information, public address, radio, telephone and clocks.

Traffic management (ATS/ATR)
Train tracking, routing and regulation, depot management and timetable management.

Security management
Access control, perimeter security, intrusion detection, CCTV, biometric security and encrypted communications.

Operation and maintenance
Assistance to operators, including decision support system, statistics, and maintenance management (minimum downtime, personnel management, financial tracking, etc).

Fixed equipment supervision and management
Management of auxiliary components (traction, fire detection, lifts, escalators, drainage, platform doors, emergency exits, etc.) and the ventilation and air conditioning system.



Supervision

The Operation Control Centre is the nerve centre of the metro network. Managed through an intuitive user interface at station level or centrally, the Thales supervision system provides the operator with a single, integrated view of the transport system. The Thales solution is built on an advanced software platform to deliver excellent performance in terms of response times and the number of control points managed (up to 1 million).

Security

From installation to support, Thales covers the entire value chain to deliver dependable IT and physical security solutions for metro systems. Functions include secure SCADA, access control, perimeter security, intrusion detection, onboard and in station CCTV with real time image analysis.

Communication

Communication systems ensure reliable and secure delivery of all information throughout the transport network. Trainside and trackside, Thales solutions provide integrated voice, data video capabilities as well as radio solutions (TETRA, WiFi).

Passenger information & comfort

Responding to the demand of passengers to be kept constantly updated on travel information and important announcements, Thales provides advanced public address and passenger information displays delivering real time information to on-board and station locations. The complete information network is synchronised through a central clock and time distribution system.