

CyBELS

Securing communications between digitalised train and signalling systems

Thales Key Management Centre - CyBELS KMC4ETCS

The European Train Control System (ETCS) is one of the major components of the European Rail Traffic Management System (ERTMS). CyBELS KMC4ETCS, the cryptographic key management system developed by Thales to secure communications between digitalised train and signalling systems, delivers:

- Operation at national and transnational levels
- Compliance with UNISIG standards (procedures, key types, message formats, etc.)
- Compatibility to other standards and areas of application such as Urban Rail Signalling

Benefits

- Generate, distribute, prepare and batch import cryptographic keys
- Distribute keys offline (via external storage devices) and online (via a secure Transport Layer Security (TLS) network)
- Manage keys on an easy-to-use platform

Thales Cyber Services for the converged IT and OT Environments - CyBELS Detect and Respond

Working with transportation requirements is operationally challenging, especially due to physical and logistical considerations that are part of the process. The operation of public transport is mainly based on complex Operational Technologies (OT) systems connected to Information Technologies (IT). Developing rail products, such as e-ticketing systems for public transport and signalling for both metro and main lines Thales can build on extensive expertise in the field of rail technologies enabling our state-of-the-art Monitoring Services:

- Monitoring of IT and OT environments
- Improvement of the detection of Advanced Persistent Threats (APTs) based on Thales' global threat intelligence database
- Reduce time to mitigate security issues and incidents

Rail customers in Israel, United Kingdom, Poland and Portugal already use Thales' solutions to secure their communication.

Learn more

Key Management in the Rail sector

Contact us

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