waterfall

WATERFALL FOR THALES NETTRAC 6613 ARAMIS

STRONG SECURITY FOR RAIL TRAFFIC CONTROL CENTERS

The Waterfall for Thales ARAMIS software connector unidirectionally emulates THALES ARAMIS monitoring and management system from network traffic control centers to enterprise networks. Waterfall for Thales ARAMIS enables operators to safely centralize and automate rail management data. With Waterfall for ARAMIS, rail network dispatchers,, planners, station managers and end customers can safely manage operations and quality of service.

Unidirectional replication means that no online attacks, no matter how sophisticated, can penetrate back into a protected control system or SCADA network from Internet-connected IT networks through Unidirectional Gateway hardware. Rail operators can securely manage entire railway network processes without the vulnerabilities and risks that firewalled connections always introduce.

Waterfall for Thales ARAMIS connectors are simple to install, with user-friendly configuration and monitoring tools. Comprehensive diagnostics include real-time alarms that alert the user of fault conditions via Syslog, Windows logs, email, SNMP traps, log files and Waterfall's monitoring console.

BENEFITS OF USING WATERFALL FOR THALES ARAMIS

Securely emulate ARAMIS systems and hosts to rail CTCs

Simple deployment – the connector runs entirely in the Unidirectional Gateway with a simple web user interface

Not physically able to transmit any remote attacks or malware propagation from external networks into protected networks

Facilitates compliance with NERC CIP, NIST 800-82, ANSSI, IEC 62443 and more

Fully transparent to NetTrac ARAMIS system users

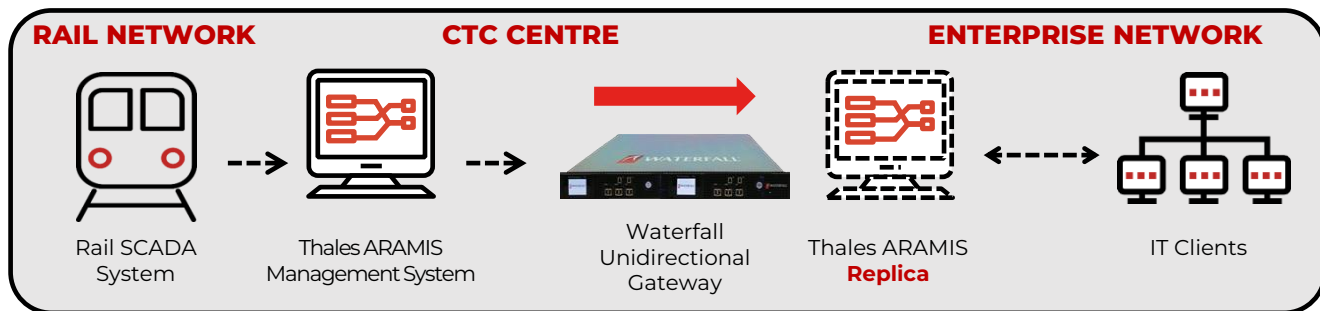Power   Oil & Gas   Rail   Facilities   Water   Manufacturing   Government

WATERFALL FOR THALES ARAMIS

RAIL NETWORK   **CTC CENTRE**   **ENTERPRISE NETWORK**

Rail SCADA System → Thales ARAMIS Management System → Waterfall Unidirectional Gateway → Thales ARAMIS **Replica** ↔ IT Clients

The Waterfall for Thales ARAMIS connector emulates monitoring and management operations systems and hosts from centralized traffic control centers (CTCs) to IT networks through Unidirectional Gateway hardware. On the OT network, the connector is a true ARAMIS client that replicates source management platform data. On the enterprise network, ARAMIS clients can query the replica server and be confident of receiving the same alarms and events from the replica as would have been received from the original server.

It is physically impossible for attacks to flow from the IT network back into the OT network through the Waterfall Unidirectional Gateway hardware, thus eliminating any threats of online remote attacks, malware or human errors.

FULLY-FEATURED & ROBUST SUPPORT:

» Real-time replication of Thales ARAMIS data

» Support for ARAMIS data types

» Complete ARAMIS replication or replication of only select, filtered data

» 1-10 Gbps throughput standard

» High Availability options

» Supports an unlimited number of network devices

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ABOUT WATERFALL

Waterfall Security Solutions' unbreachable OT cybersecurity technologies keep the world running. For more than 15 years, the most important industries and infrastructure have trusted Waterfall to guarantee safe, secure, and reliable operations. The company's growing list of global customers includes national infrastructures, power plants, nuclear generators, onshore and offshore oil and gas facilities, refineries, manufacturing plants, utility companies, and more. Waterfall's patented Unidirectional Gateways and other solutions combine the benefits of impenetrable hardware with unlimited software-based connectivity, enabling 100% safe visibility into industrial operations and automation systems.