Train and Metro Communications

Service Assured Networking Solutions

1 Operational WAN for Trains and Metros

Your Benefits:

- Ensure protected connectivity between stations and control room using multidrop and ring topologies
- Ethernet extension over fiber or copper (SHDSL) to enable service reach to remote M2M and video devices

- Support mission-critical railway applications, including automatic train supervision (ATS), centralized traffic control (CTC), SCADA, and multiparty hotlines, as well as passenger information systems (PISs)
- Support legacy TDM and Ethernet traffic delivery over SDH/SONET/IP/MPLS/MPLS-TP/CE/DWDM/OTN and/or carrier-grade fiber optic rings

- Supports analog and digital data and voice devices, as well as Ethernet IEDs, with versatile rates from RS-232 up to STM-64/OC-192 or 10-GbE
- Point-to-point and point-to-multipoint radio connectivity supports high capacity mission-critical traffic over licensed and unlicensed bands

Megaplex
Next-Generation Multiservice Networking Node

DXC-5
High Capacity Hybrid Cross Connect

ETX-203AX
Carrier Ethernet Demarcation Device

Ceragon/Airmux
Wireless Transport Platform

PacketLight
Complete Solutions for WDM/OTN and Dark Fiber Applications

PowerFlow
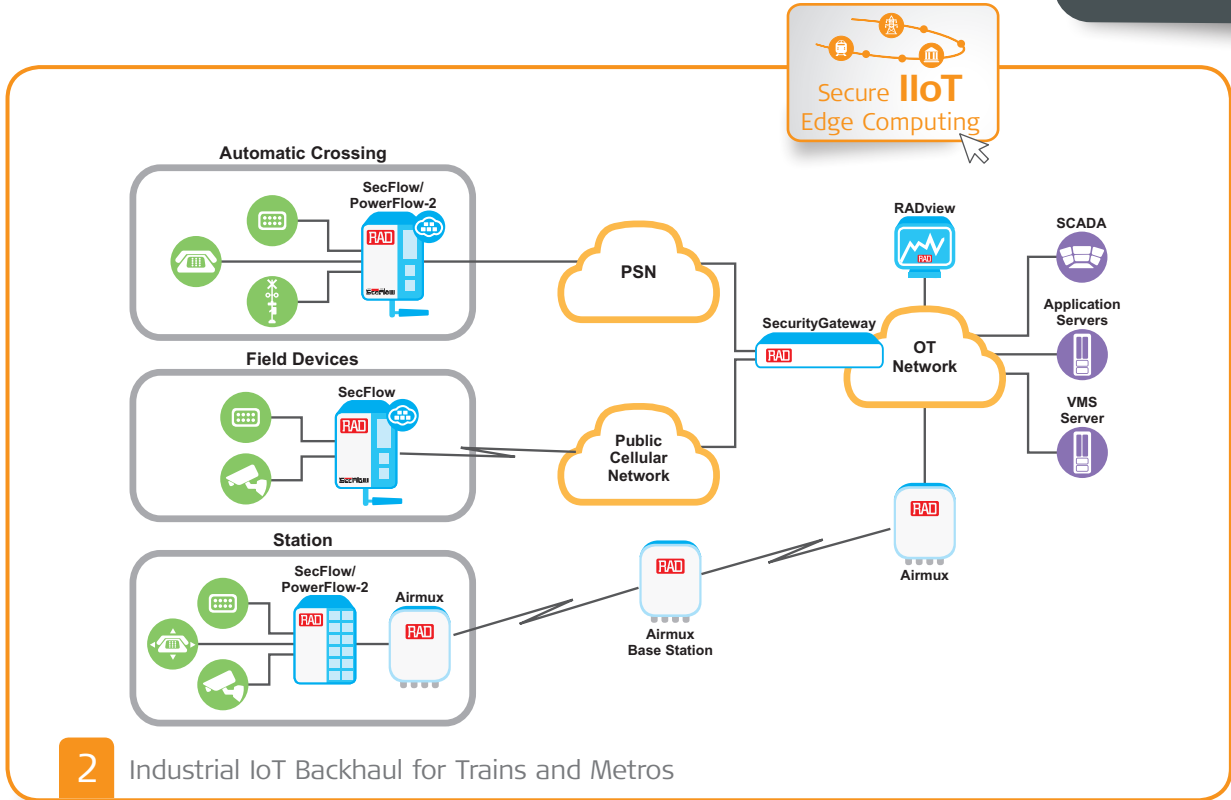Managed Ruggedized Ethernet Switch with Power over Ethernet

RADview
Management and Domain Orchestration

RAD
Your Network's Edge

Train and Metro Communications

Service Assured Networking Solutions

Secure **IIoT** Edge Computing

2 Industrial IoT Backhaul for Trains and Metros

Your Benefits:

- A comprehensive and secure solution addressing communications along railway tracks, wayside signaling, interlocking, and safety systems
- Integrated IEC 61131-3 RTU/PLC
- Virtual environment for user-tailored applications allows customers to add new applications on top of SecFlow devices

- Zero-touch provisioning, enhanced cyber security (IPsec, PKI, FW, IDS/IPS, SIEM)
- Seamless communications over fiber optics, radio links, 2G/3G/LTE cellular links, and leased lines from a telecom service provider
- Secure remote access for end-user device management

- Transparent delivery of SCADA, protocol conversion and terminal server
- Complies with EN 50121-4
- Point-to-multipoint radio connectivity supports high capacity mission-critical traffic over licensed and unlicensed sub-6 GHz bands

SecFlow
Industrial IoT Gateway with Edge Computing

SecurityGateway
VPN Aggregator, Router and Firewall

Ceragon/Airmux
Wireless Transport Platform

RADview
Management and Domain Orchestration

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RAD
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