

Case Study

Enclosures for Train Station Security and Passenger Information Systems

Implementing a State of the Art Station Information & Security System (SISS)



REQUIREMENT

- An OEM delivers state of the art integrated **public communication & security systems** for the Railway and Transportation Industry
- Standardization of mechanical solutions across train information, display, and public announcement systems to **optimize designs, sourcing and delivery**
- A new design included **digitalization of security systems** on the rolling stock through active software aggression & incidence recognition connected to CCTVs ensuring detection, prevention and prompt response



CHALLENGE

No system downtime – high availability required

- Public announcement displays needed to provide **real-time information** to passengers, thus live tracking of train and public transport availability was key in delivering required service level:
 - The advanced public security solutions also needed critical **operational continuity** - where operational continuity could be affected by:
 - Extreme environmental conditions (heat, wind, high shock and vibration)
 - Electromagnetic interferences (EMI)
- Meet railway specifications and certifications
- Leverage standard enclosure solutions to enable **faster delivery** and economies of scale to **keep cost down** across the application platforms



SOLUTION



The nVent SCHROFF team leveraged their technical expertise to specify standard railway certified cabinet and subracks to house the following applications both wayside installed on the platform and onboard of the rolling stock:

- Accurate location tracker
- Passenger data communication
- Improved security management solutions

The project benefitted from nVent SCHROFF's modular product offering and flexible assembly process. Known accessories from nVent's standard portfolio and project experience within Railway helped the OEM move from concept to delivery in a challenging timeframe

| Project Details | |
|-----------------|---|
| Location | Europe |
| Type of System | Train Station Security and Passenger Information Systems |
| Technology | nVent SCHROFF Cabinets and Subracks |
| Product Scope | CENELEC EN 50125-3, AREMA 11.5.1, EN 61000-5-7, EN45545-2, up to IP55 |
| Contract Scope | Mechanical Design and Assembly |