PASSenger information and entertainment for rail transport

ALSTOM
INFOTAINMENT SOLUTIONS FOR YOUR PASSENGERS

Alstom offers the real-time information and entertainment systems you need to keep your passengers well-informed and entertained while in transit. Our Information and Communication Technology (ICT) solutions deliver these benefits via a system architecture that covers all rail transport environments: stations, railway infrastructure, trains, depots and control centers. It is designed to work with other functions including Security, Network & Telecoms and Control & Monitoring to maximize operational efficiency.

WHAT RAIL OPERATORS NEED, WHAT PASSENGERS WANT

Today’s mainline and urban rail networks are beginning to supplant airline routes and individual cars. The renewed ascent of rail should continue well into the century if rail operators can meet new regulatory requirements and high passenger expectations for quality service. ICT developments play a key role. Advanced ICT systems allow you to welcome passengers, including the mobility impaired, and to attract a broader customer base by satisfying passenger appetites for high-tech amenities. These include general or interactive travel and safety information in real-time, throughout their trips, continuous WiFi connections for email and internet aboard trains, and even train intranet with audio and video channels with personalized content.

SMART INVESTMENTS

Good for attracting business, new generation Passenger Infotainment system solutions also make good business sense: they bring you new means of improving internal business operations in terms of punctuality, maintenance efficiency, rolling stock availability and staff communications. Investing in obsolescence-proof backbone technology with modular subsystems is a cost-effective decision for a long service life. Such modularity facilitates integration, configuration and later upgrades. An ICT system can integrate all Security & Communications subsystems and Passenger Information & Entertainment modules in a common architecture. Operators can use existing IT and telecom infrastructure and services already deployed. Choosing an advertising-based solution can help offset initial investment and operating costs.

TECHNOLOGY AND EXPERTISE AT YOUR SERVICE

Alstom can provide you with the technology and expertise you need to modernize your rail networks. We have a solid track record in designing, installing and maintaining information processing and transmission systems for every rail environment: trains, stations, tracks & tunnels, depots and control centers. We work with maintenance and infrastructure contractors and also in partnerships with telecom, internet and other service providers.
Six reasons to always consult Alstom for your Passenger Information & Entertainment solutions

1. Scalable and upgradeable in trains and stations:
   our Passenger Infotainment System solutions provide functions ranging from basic public address and Passenger Information up to the most advanced internet-on-board and mobile telecom services at 300 km/h.

2. Long-lasting and reliable service:
   our equipment is designed to last. Some of the 70 applications now in daily service worldwide have a lifespan of 15 years or more. All meet new European and US standards for visual and audio communications for passengers with disabilities.

3. Internet Protocol for easy integration:
   our IP-based system solutions allow us to easily integrate equipment of any make, new or later, in all types of trains, stations and control centers.

4. Shared architecture:
   we use a common platform for our Passenger Infotainment and Security applications to maximize operational efficiency.

5. Experience and expertise:
   our field engineers are among the most experienced in designing, installing and maintaining information communications systems for rail.

6. Advanced technology for all needs:
   our Infotainment system solutions integrate the most advanced technology. They can be tailored to any make of train or rail environment and work with existing telecom or IT infrastructure.
REAL-TIME SOLUTIONS FOR EVERY RAIL ENVIRONMENT

As urban or mainline rail operators, you are looking to improve your passengers’ travel experience by offering onboard multimedia content. These real-time solutions can also have applications useful to your train and station staff. Alstom offers a full range of products and systems for integration at specific points within your rail network (train, station, control center). They can be installed as either a full system covering all areas, or as Passenger Information and Entertainment alone or with other functions.

**Dynamic Strip Map Display in the Barcelona Metro**

Our Passenger Information System's architecture covers three distinct environments: trains, fixed installations (stations, depots, track & tunnels) and the control center.

This system architecture is shared and integrated with three other functions for control and operations:

- **Security**
- **Control & Monitoring (train traffic, energy supply)**
- **Network & Telecom infrastructure**

The system is modular and upgradeable, offering customers multiple options; an operator may choose to equip a single environment and later equip others, or deploy one of the four functions and interface it with other functional areas already at work, knowing that a migration path exists for a later, fully integrated system solution.

The system is scalable and configurable to an expanding rail network.

The equipment in an Alstom Security system is either designed and manufactured in-house or sourced from reliable suppliers. All equipment conforms fully to rail transport environment standards.

**SYSTEM ARCHITECTURE**
All of our rolling stock is designed with a train-borne Ethernet network, which provides a means of data transmission for Passenger Information and Entertainment on trains as well as security throughout the entire rail context: trains, stations, tunnels, trackside, depots and control centers. Our Information Communications & Entertainment range uses the same ICT hardware and software platforms as our Security range, facilitating later upgrades.

Designed for modularity, our ICT technology can be tailored to meet your specific needs, either as an integrated system or as separate modules, in any rail context: trains, stations, vehicle, depot, depot-and-control centers. Our Information Communications & Entertainment range uses the same ICT hardware and software platforms as our Security range, facilitating later upgrades.

Our range of Iconis Control Center Software programs run on standard PCs and Windows operating system. Our range of Iconis Control Center Software programs run on standard PCs and Windows operating system. Our range of Iconis Control Center Software programs run on standard PCs and Windows operating system. Our range of Iconis Control Center Software programs run on standard PCs and Windows operating system. Our range of Iconis Control Center Software programs run on standard PCs and Windows operating system. Our range of Iconis Control Center Software programs...
OUR INFORMATION AND ENTERTAINMENT SYSTEMS WITHIN ALSTOM’S GLOBAL OFFER

A COMMON ARCHITECTURE

Our Information Communication and Entertainment products use the same network and data-transmission platforms as our Security range. Both can be integrated into a rail control system from our Urbalis or Atlas ranges for urban or mainline operations, or with a rail control system manufactured by a third party.

STATION UTILITIES OF ALL KINDS

Alstom equips stations with a wide range of utilities supplied by third parties: platform screen doors, ventilation systems, elevators & escalators, ticketing systems and more. We have broad experience in integrating and optimizing rail station equipment.

FULL RAIL CONTROL SOLUTIONS

Along with Information Communication & Security systems, we also link train-control and remote-maintenance systems to control centers via networks and telecoms. We provide modular software and standard hardware for rail control centers, covering train traffic control and network safety, power management (SCADA) and operations supervision.

LIFETIME SUPPORT

We offer our customers maintenance service for all the systems and equipment we supply in trains, stations and control centers.

Through its know-how and the excellence of its products, Alstom is shaping the future of energy and transport infrastructure and contributing to improving the living and working conditions of people throughout the world. Today, more than 65,000 people in 70 countries are making an active contribution to the growth and development of its business.