

SADEL SMART TRAIN PIS SOLUTION

SADEL

WORD IS CHANGING. WE ARE AT THE BEGINNING OF A DIGITAL REVOLUTION THAT PERMITS THE ACCESS TO THE ICT BENEFITS. THIS REVOLUTION FINDS ITS ULTIMATE EXPRESSION IN THE TRANSPORTATION SECTOR, PARTICULARLY ON BOARD OF SADEL & ALMAVIVA SMART TRAIN. WE ARE AT A TURNING POINT IN HOW WE TRAVEL, AND WE CONSIDER OF GREAT IMPORTANCE TO PROVIDE PASSENGERS BOTH USER-FRIENDLY TOOLS AND SERVICES FOR AN EASY, INTERMODAL AND FULLY SATISFACTORY MOBILITY EXPERIENCE.



Integrated, comprehensive and flexible end-to-end solutions allow transport operators, infrastructure managers and mobility stakeholders to satisfy the smart traveller's needs.

That is why, we have conceived our intelligent "Smart Train" solution that allows all these things.

Our solution is a mainly Ethernet-based architecture, made up of state-of-the-art Passenger Information systems such as on-board multimedia display, analogue and digital public audio solutions, video surveillance, people counting and Wi-Fi.

OBoE is the core of our solution. This On Board Equipment is a passenger information, localization and communication unit for trains, subways, trams and buses.

OBoE, working as a train-to-ground mobile gateway, is able to download multimedia and tracking information from a Ground System, receive commands and play audio/video contents from Operating Rooms. It also sends P.I.S.

module diagnostics to the Ground System and provides direct access to hosts on the train LAN with configurable forwarding, thus allowing a fully flexible solution for fleet management.

Thanks to the advance GPS receiver, it checks train position and provides passengers and on-board staff with real-time geo-localized relevant travel information like train route, expected arrival time to the next station, possible delay to the next station and information about connections, including its track, route, destination and departure times, acting as a complete data and content concentrator for the train Passenger Information System.

These information contents alternate with commercial offers, breaking news, weather forecast, etc, and are distributed both on video and multimedia peripherals such as internal DOVE6 LCD monitors, internal and external LED panels, automatically announced using the available analogue or digital/VoIP SAX3n PA



system and displayed on personal devices thanks to our Wi-Fi Car3n AP that allows the connection to the Web Portal, hosted in our MEDIA3n Server.

These audio and video contents can be distributed by default or customized upon levels of service.

OBoE offers optional additional modules, e.g. people counting concentrator that allow to collect, process and send to the Ground System all relevant data from various door sensors.

NB3n Full 10G is a Redundant Railway Ethernet Switch allowing the design of a switched LAN over trains. Its structure offers a large number of advantages in the realization of an IP network, meeting the most demanding needs in bandwidth, reliability and security for train services and operations.

Thanks to our global live video surveillance system, passengers travel safely watching directly on our DOVE6 display what happens inside the coach they are.

Only authorized operators have the access to both on-board and remote

video surveillance live view and thanks to our access control systems, in case of need, judicial authority can access at any moment to the off-line video recordings stored on the NVR Server.

Our Smart Train Solution is fully complete and composed of completely independent systems that can easily be integrated with existing on-board solutions.



**SADEL AND ALMAVIVA
ARE EXHIBITING AT INNOTRANS 2018,
BERLIN 18TH- 21ST SEPTEMBER**

to present its Transportation 4.0 solutions.

Integrated, comprehensive and flexible end-to-end solutions which allow

transport operators, infrastructure managers and mobility stakeholders

to satisfy the smart traveller's needs and expectations

thanks to both the user-friendly tools and services for an easy, intermodal and fully satisfactory mobility experience.

Come and meet us at the stand No.313, Hall 4.1 to discover our innovative technological solutions for a unique travel experience.