



COMPREHENSIVE CONTROL SYSTEM FOR MALAGA'S SUBWAY STATIONS

OPERATION SUPPORT FOR THE CONTROL CENTER OF MALAGA'S SUBWAY



Context

The hub for decision-making and operation of Malaga's Subway

The Malaga Subway requires the design, installation and implementation of a control center for operating its network.

To do so, all the supervision and control functions of the subway lines will be centralized and will manage and coordinate all incidents occurring 24 hours a day, 365 days a year.

Our comprehensive management solution for the installations provides an overall real-time picture of the network status, operating in an integrated manner and centralized from a single point. Optimizing resource needs, integrating a wide variety of systems and standardizing and making the operation more flexible.

A technological partner and integrator for the implementation of the Malaga Subway control center

Comprehensive solution for railroad control centers

- A platform with a single access point and centralized management of the profiles used for operating the control center.
- Real-time monitoring of the status of its installations, through integration of our Energy SCADA, fixed-installation SCADA, access control, CCTV and ticketing.
- Integrated alarm management, with the option to display video images in real time.
- Integrated management and unified processing of control center communications: TETRA, administrative telephony and intercom system. Through an intuitive, user-friendly solution that isolates the user from the communication channel being employed.
- Definition of a standard integration architecture for exchanging information between heterogeneous systems. Design conventions and patterns to facilitate the incorporation of new systems and the growth of the control center.
- Design and installation of hardware equipment and fixtures for the control center's operator room and DPC (Data Protection Center). Contributing Indra's expert knowledge in the design and installation of this type of center.

Benefits

High-performance, unified, centralized management

- Metro Subway will have a versatile, flexible, multidisciplinary management center.
- Real-time control of its installations to reduce operational costs and facilitate dynamic analysis and decision-making.
- Malaga Subway has become the main reference of our comprehensive control solution for metropolitan railroad network environments.
- Increased effectiveness in human resources and operation management.

Ability to anticipate, minimizing risks and successfully completing its implementation

Indra in the sector

More efficient, ecological and sustainable transportation and mobility

Indra is a leader in the use of new technology for creating smart infrastructures and making them more ecologically and financially efficient.

Applied to transportation, these smart technologies provide real-time information for decision-making and offer added value to the service, increasing security

levels, effectiveness and respect for the environment, while giving infrastructures greater control and improving mobility.

Applying technology to public transportation management allows the service to be improved and optimized for use by the citizens, a key aspect at a time when one of the biggest challenges for

the future, particularly in urban areas, is addressing the need for more efficient, ecological and sustainable transportation and mobility.