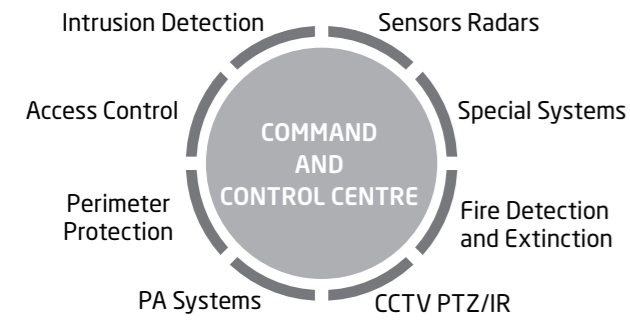


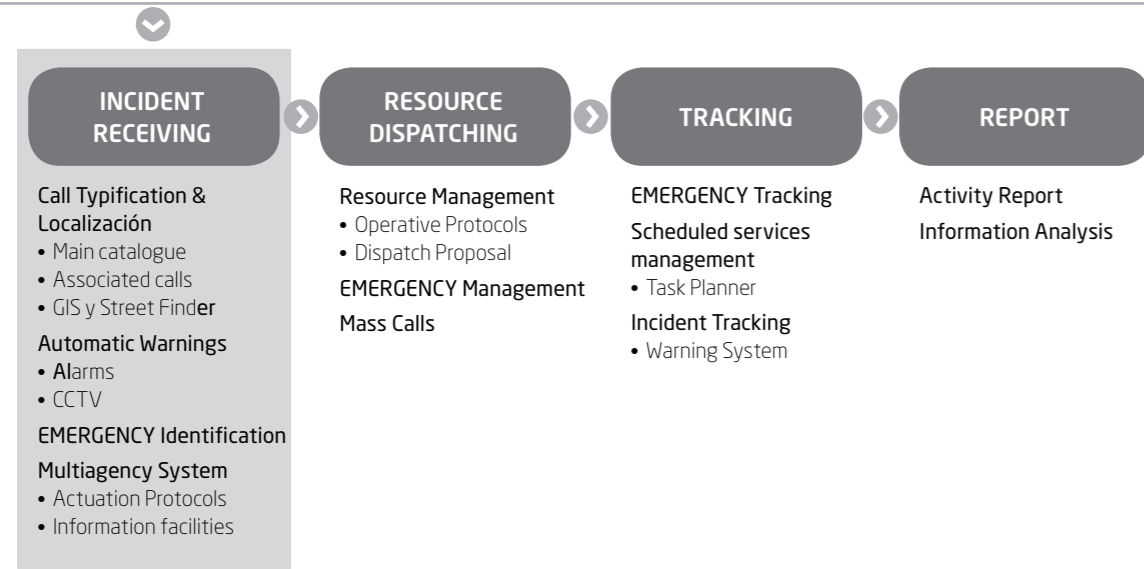
Modular Components



Physical Security Information Management (PSIM)

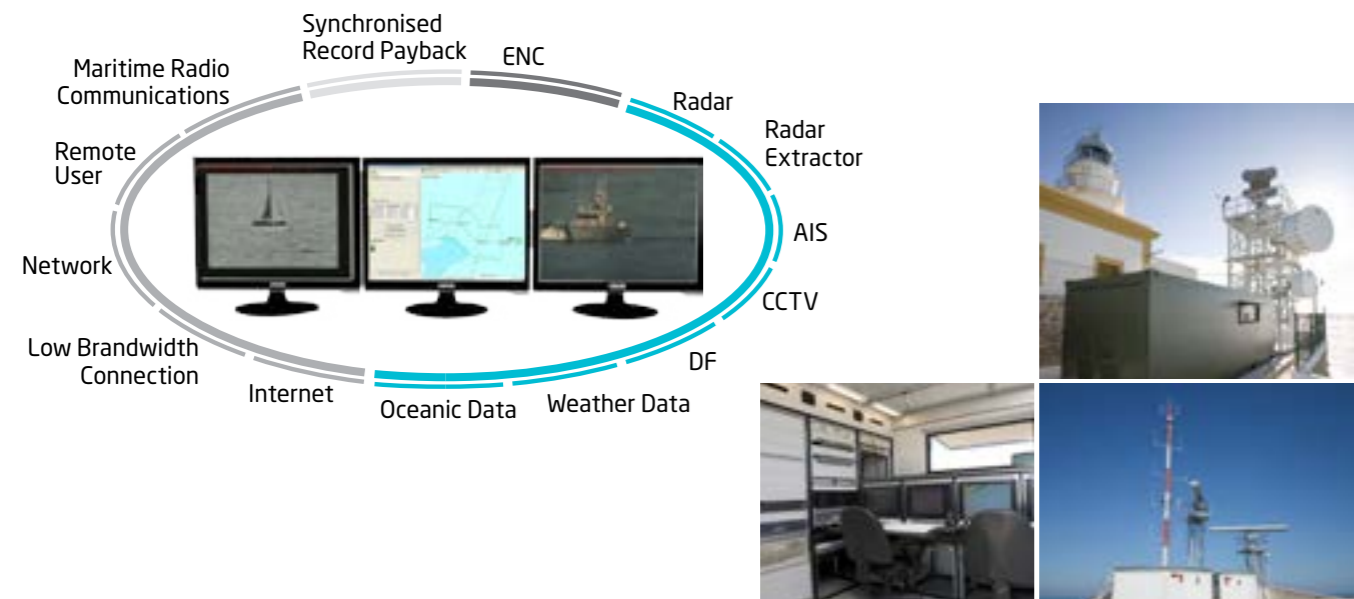
INTEGRA®

Computer Aided Dispatch (CAD)
iSafety®



Coastal Surveillance Systems (CSS)

iMARE®



SECURITY SOLUTIONS & SERVICES

iSMS

INTEGRATED SECURITY
MANAGEMENT SYSTEM

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iSMS

INTEGRATED SECURITY MANAGEMENT SYSTEM



In today's business environment, integrated security management systems play a key role, as a uniform high level interface to accommodate user requirements and add value to our customers. iSMS leverages underlying existing COTS 3rd party security subsystems, from our market leaders partners, in the field of CCTV, Access Control, IDS, Perimeter Protection, Fire Protection, Control Centers, BMS and SCADAs, by complementing them, with our own innovative key security software and hardware (3Dsurveillance, Isecure panel, Isense buried sensors, Radar DIO, Automatic Border Control, IMare Coastal Surveillance, Isafety Emergency Management, secure communications and cybersecurity).

Introduction	Security Management System	Applications
<p>Indra designs, develops and integrates Infrastructure Protection, Coastal Surveillance Systems and Emergency Management systems in one comprehensive solution PSIM / CAD / CSS.</p> <p>These systems can be integrated with existing networks and 3rd party subsystems or databases of the customer's business to enhance functionality and coordination (SAP, Maximo, eGates, GIS, ...)</p> <p>Signals from the connected 3rd party subsystems are transferred directly to the centralised equipment. From there signals are transferred to the control rooms as required for security or operational purpose.</p>	<p>Integrated Security Management System (iSMS) combines security systems in a multiple interface interaction with third (3rd) party security subsystem in a common multi-user environment.</p> <p>iSMS is state of the art software modular in design and flexible for future expansion. Integrates all security components permitting programmed control and information gathering at user level.</p> <p>iSMS provides the daily operation platform for operators, and all status/ alarm/Events information on the 3rd party subsystems. Is designed for manage entry/exit control, alarm monitoring, retrieve records of events and alarms.</p>	<p>Strategic or Critical infrastructures whose operation is essential and not allow alternative solutions. (Land, air, sea and cyberspace protection)</p> <ul style="list-style-type: none"> • Oil&Gas infrastructure, Offshore platforms. • Aviation, ISPPSC Ports, Railway. • Safe Cities, International events. • Correctional facilities, Healthcare Cities, Mines. • Substations, Power Plants and Utilities infrastructures. • Banks offices, Tier Certificate Data Centers. • LEED Certificate Corporate Cities, Corporate SOCs. • Military sites or shipyards.

Key features

MODULAR DESIGN

The iSMS offers a complete solution scalable from one to hundreds of subsystems that can be added on a unit-by-unit basis (CCTV, AACs, PIDS, IDS, FDS...). iSMS Design is subsystem independent: Any state of art sensor in the market required can be integrated.

COMMAND AND CONTROL CENTER

Centralization of all information received from all security subsystems and control centers. Process, integrates and displays information in real time.

National, Regional, Local and Mobile hierarchical Command and Control Centers.

CENTRALIZED OPERATION

iSMS supports the capability to create and execute security actions on events from a different security subsystem or on schedules. iSMS interfaces with Access Control Systems, with Alarm Systems, with Building Management Systems, with License Plate Recognition systems, with Object Recognition Software, Facial Recognition Software, with Heat, Ventilation and Air Conditioning systems, SNMP network systems.

SECURITY OPERATION CENTER INTEGRATION

Security Operation Center (SOC) Integration with multi-site physical security systems. As a single integrated physical security system across all customer's sites, the SOC integrates emergency response capabilities and Physical Security Systems, to establish consolidated operations. All information from the Integrated Security System such as the alarms, Video feeds, Audio annunciation, Security Controls, and Barrier Systems remain available to the SOC.

Main References

- Barcelona Airport, Barcelona Port.
- Renfe Railway Security Control Center.
- Expo Zaragoza international event.
- Caixa Bank offices.
- Gas Natural Fenosa Corporate Corporate SOC (CESEC).
- Navantia multi-sites and Military shipyards.

RADAR SENSORS AND GIS INTEGRATION

Radar traces and intercepted units are represented on the map of the area. Measurement and analysis tools available to operators. Esaty to define and customize blind spots and alerts.

IP CCTV INTEGRATION

All video streams supplied from analog cameras or IP cameras of various vendors will be digitally encoded compression formats and recorded simultaneously in real time. iSMS is based on a true open architecture and allow for use of non-proprietary PC storage hardware, not limit the storage capacity and allow for gradual upgrades of recording capacity. The iSMS digitally sign recorded video using cryptography.



3D GRAPHICAL USER INTERFACE

A graphical user interface that enables organized access to various functions through graphical buttons and popup menus. Integration with Geographic Information Systems (GIS), displaying all the information on the map. Simultaneous deployment of video and infrared video.



TACTICAL NETWORKS INTEGRATION

IP protocol used. Secure communications used. Bandwidth for video streams range from Kbits/sec to Mbits/sec, frame rates ranging from 1fps to 30fps at resolutions ranging from CIF to FullHD and up to Mpixel. iSMS supports any form of IP network connectivity, including: LAN, WAN, VPN, Internet, and Wireless.

3rd PARTY SDK SYSTEMS INTEGRATION

The iSMS also supports PTZ camera protocols, access control systems, object recognition systems, video walls, VMS systems, Emergency Management Systems. Visualization of live camera view integrated into 3D scenarios associated to the area under protection, enables greater attention span compared to conventional systems.

HIGH AVAILABILITY AND DISASTER RECOVERY

Operating 24 hours x 365 days. Minimum Life System 15. Mean time between system failures (MTBF) > 5,000 hours. Minimum availability of 95%. VMware®environments support. Failover configuration support.



VTS, CSS AND CAD INTEGRATION

Easy integration with the systems of vessel traffic services (VTS), CSS Coastal Surveillance System as Indra iMare and Computer Aided Dispatch (CAD) for Emergency Management Systems as Indra Isafety.

Specifications (Baseline configuration)

INTEGRATED SECURITY MANAGEMENT

Allows from a single application to manage all security systems: alarms, CCTV, access control, fire, incident management, coastal surveillance systems, VTS.

- Open architecture allows the software to be customized upon request.
- Multi-user architecture with different access profiles.
- Multilanguage Application.
- Scalable solution.
- Allows contingency facilities to ensure high availability.
- Supervision and monitoring servers applications.
- Real-time monitoring of communications.
- Multiple users on local and remote.
- System audit. Registration for all events actions of all users of the system, report generation Integra monitors user actions for later analysis.
- Management support - Active Users Directory with Windows.

CCTV

- Open platform for integration of CCTV systems.
- Integration of DVR, NVR and IP cameras from different market leading vendors.
- Viewing and playback simultaneously.
- Plans Management.
- Virtual Matrix. Create and manage arrays.
- PTZ User Priority.
- Permissions camera and user configurable priorities.
- Integration with alarm subsystems.



- Indexing recordings or alarms (intrusion, access control, fire, videosensor) or filtering the list based on the alarms.
- Display and alarm programming in videowall systems.
- Integration with videowall and display systems from other manufacturers.
- Programmable Recording calendar, alarm or user.
- Validation of the recordings by hash code embedded in them.
- System analytics extracting images from video recordings using existing configurable sensor.
- Alarms.
- Open platform for integration of intrusion alarm systems.
- Bidirectional Treatment with central alarm module integrated alarm management.
- Graphical Treatment of alarm points represented in maps and zoom functionality and navigation between maps.
- Generating a report with automatic alarms and actions treated by operators.
- Treatment Support Tools for each alarm type, decision trees or action plans.
- Logging of alarms in several categories of historical.
- Historic Management with ability to configure customized searches.
- Generate daily report for notification to third parties with the possibility of automatic sending e-mails.
- Supervision of communications with the central alarm.
- Lack of monitoring alarms, control news.
- Functionality deadman for control room.
- General Tele-commands, automatically sending orders to all alarm systems without management by the operator.
- Monitoring and query software version of the control panels.
- Automatic Update version.
- Integration with emergency or incident management system.

Representation on list of pending alarms.

- Automatic display of cameras associated with alarm points.
- Display of video cameras located in maps from the management module and alarm handling.
- Quick access to system data and telephone numbers for alarm management.
- Integration with telephony calls using automatic dialing.
- Maintenance alarms for differentiated management facilities.
- Motor filters or automatic systems for advanced alarm handling.

Access control:

- Integration with access control and security management equipment. Allows reception of the alarms associated with the access control and actions over the controlled equipment. Allows the use of the alarm inputs of the controllers as alarm system signals.

Engineering controls:

- Integration of third-party technical controls BMS.

Single console	Allows from a single application to manage all security systems alarms, CCTV, access control, fire
Open platform	Allows to easily integrate third-party hardware
Database	Building three separate layers allows to easily integrate any customer Database

MODULES

CCTV and Video Management System (VMS)	Allows to easily integrate third-party hardware
Automatic Access Control System (AACs)	Allows to easily integrate third-party hardware
Perimeter Intrusion Detection System (PIDS)	Allows to easily integrate third-party hardware
Indoor intrusion detection system (IIDS)	Allows to easily integrate third-party hardware
Fire detection system (FDS)	Allows to easily integrate third-party hardware
SCADA/BMS	Indra HORUS SCADA
3D Surveillance system	Indra 3D Surveillance
Emergency Management & CAD system	Indra Isafety, DisasterAware, EMOPS, OASIS
Coastal Surveillance System & OSD	Indra iMare Coastal Surveillance System
Vessel Traffic Services (VTS)	Indra iMare Coastal Surveillance System
Radar EOS and AIS module	Indra iMare Coastal Surveillance System
Sonar Module	Indra iMare Coastal Surveillance System
GIS Module	Indra Isafety Integrated GIS Modules
UAVs Module	Mantis, Pelicano, MRI
Toll systems module	Indra Intelligent Traffic Systems (ITS)
eGates module	Indra Automatic Border Control (ABC)
PAGA and Intercom module	Allows to easily integrate third-party hardware
Cybersecurity Module	Indra i-CSOC Monitoring Center