

ATC Tower Management Solution

// Tower Integrated Information System

Tower Integrated Information System (TIIS) is a co-brand turn-key solution developed by SITTI and ENAV Group integrating all systems and applications used in ATC Towers. TIIS complete configuration is composed by:

- ATC Console
- TIIS Management Application
- Tower Electronic Flight Strip
- Automatic Weather Observation System
- Digital Automatic Terminal Information Service
- Tower Suirveillance Controller Working Position
- Aeronautical Dynamic Data Management
- Aeronautical Message Handling System
- Voice Communication System
- Audio/Video Recording and Playback System
- Local and Remote Alarm Systems
- Runway Lights
- Ancillary equipment (Cameras, I/O devices)

Thanks to TIIS Management Application, all or part of the above systems can be supplied and integrated. Furthermore, its scalability and flexibility allow the integration of third-party legacy systems.

Tower Integrated Information System is a hardware/software solution for airports of any size or Remote Towers which concentrates different data sources into one integrated product that reduces the number of objects on the controller working position desks.

The ATC applications can be arranged in configurable desktops and layouts, each dealing with different management aspects, according to the Customer needs.



Significant reduction of devices on operator's console

Concentration and focus on information in a compact HMI

Unlimited number of independent management desktops

Configurable and User-definable applications

Controlled access and different security levels

Reduction of errors occurrence

Easy to maintain

Adaptable to evolving needs

Remote configuration features



// System Components Description

Tower Integrated Information System is a very innovative and modular configurable solution, representing the next generation Digital Tower.

By definition is conceived to provide a digital, dynamic and integrated support to ATC, AIS, ATS and ARO/MET.

Thanks to its modularity and extensibility, the System is tailored to meet today's specific needs and is future-proof for any enhancements and expansions required for tomorrow's next generation Towers.

The following list details the System Components that can be provided in a tailored TIIS configuration in accordance with Customer's needs.

ATC Console - GH Series by SITTI

GH Series ATC Consoles have been designed considering ergonomic requirements, international safety rules and continuous evolution of the technology. The aluminium profile structure provides strength, stability and endurance, while the modular construction allows great flexibility and tailor-made solutions.

Aeronautical Dynamic Data Management by IDS AirNav

CRONOS is a modular system for dynamic aeronautical data management which responds to the ICAO requirements for the AIS to AIM transition. It provides digital and traditional NOTAMs, FPL and ATS messages as well as OPMET and PIB. It manages both AMHS/AFTN/AIM-SL/NM B2B messages and digital events (SWIM REST web service interface).

TIIS Management Application - MTF800 by SITTI

Multi-Functional MTF800 application is designed to allow the display of several ATC systems and applications in a compact, user-friendly and highly configurable HMI. MTF800 can manage all the systems provided within the TIIS solution or any third-party legacy system, defining different layouts that can meet any user need.

AMHS - UBIMEX by IDS AirNav

Based on IDS AirNav extensive experience of the underlying X.400 technologies, **UBIMEX** provides a field tested and proven AMHS solution that is both feature packed and highly reliable. UBIMEX allows the high data rate transmission between ground-ground users of flight plans, meteorological data and NOTAMs.

TWR Surveillance CWP by Techno Sky

TWR SUR CWP presents the surveillance situation in an intuitive way, perfectly suited for the TWR and airport environment. The HMI allows an integrated presentation with flight plan data, allowing input and amendments of flight plans, either directly on the label or on flight lists, allowing the control of the flight departure and arrival flows for the airport.

TWR Electronic Flight Strip CWP by Techno Sky

TWR EFS CWP provides TWR ATCOs with a paperless touch-based electronic strips realistic representation allowing the input and amendment of flight plan data, the execution of operational workflows with easy gestures such as drag-and-drop and touch, the dissemination of data among the different ATCO roles and all the operations needed for a complete control of flights in a TWR environment.

Digital Automatic Terminal Information Service by Techno Sky

D-ATIS is the solution for the automated and continuous broadcast of meteorological and aeronautical information. It can be combined with Techno Sky e-AWOS system, AMHS/AFTN systems or any other MET system, allowing aircrafts to retrieve up to date critical information without contacting ATC personnel.

Audio/Video Recording & Playback by SITTI

VR800S is a flexible and scalable recording and replay system which can cope with many different fields of activity and service. It is primarily designed for ATC recording, but the openness of its architecture makes it a perfect solution for audio/video recording in many other application environments (e.g. fire brigades, police, call centres, etc.).

enav Automatic Weather Observation System by Techno Sky

e-AWOS nowadays allows ATC operators to automate weather observation functions and processes in over 40 Italian airports. The e-AWOS manages and collects meteorological data from field sensors or external systems and allows operators to monitor weather data and compile meteorological reports.

Ancillary Equipment by SITTI

Several equipment can be integrated in TIIS solution depending on ATC operational needs. SITTI can provide solutions for Local and Remote Alarm Systems, Runway Lights, Cameras and I/O devices and can integrate any third-party legacy system.

Voice Communication System by SITTI

MULTIFONO M800IP is SITTI's state of the art, top level, most integrated Voice Over IP (VoIP) VCS. It fully meets any Air Traffic Control and Operations Rooms requirements by interfacing all standard digital and analogue communication lines. It combines easy configuration and maintenance procedures with user-friendliness operators' HMIs.

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