Enhance your efficiency

www.avibit.com/solutions

INFOMAX

Key Features

> Open and modular architecture

> Integrates any ATC-related information, including AFTN-messages, meteorological data (e.g. wind, temperature, QNH and RVR), NavAids and ATIS

> Extensive configuration capabilities

> Flexible HMI framework with powerful customization possibilities to create tailor-made solutions

> Modern UI concepts including full touch capability

> Can be easily extended to include functionality that may be required at an airport from the FIDS display to cabin controls

> Special pages to control airfield lighting

> High availability through redundant architecture

> Recording and Replay that can be synchronized to other recorders (e.g. voice recorders)

Benefits

> Combination of various information on one screen

> Display of information and controls fully customisable by the customer

> Reduction of CWP cluttering

> Consistent user interface for all connected systems

> No need to change console design for installation

> Minimum down times during installation

> Additional CWPs only need one additional connection to the INFOMAX server instead of multiple connections to different systems

INFOMAX

SAFECONTROL SUITE

ACEMAX	OPTAMOS
DIFLIS	DECLOS
INFOMAX	AIRMAX

INTEGRATED INFORMATION SYSTEM

All ATC Information on one Screen

Contact

AviBit Headquarters
Herrgottwiesgasse 125
8020 Graz, Austria

Phone: +43 316 429961
Fax: +43 316 429961 38
E-Mail: office@avibit.com

www.avibit.com

www.avibit.com

INFOMAX

HOW DOES THE TOWER INFORMATION SYSTEM WORK?

A WELL-STRUCTURED WORK PLACE

The Challenge

Air Traffic Controllers depend on various types of information to perform their daily job, including meteorological data (e.g. temperature, wind, RVR, QNH, etc.) information from NavAids, ATIS, runway lights, stop bars, etc.

Such information is typically displayed on individual systems and screens that can create a cluttered workspace. Using multiple mice and displays increases controller workload and may also lead to unsafe situations occurring.
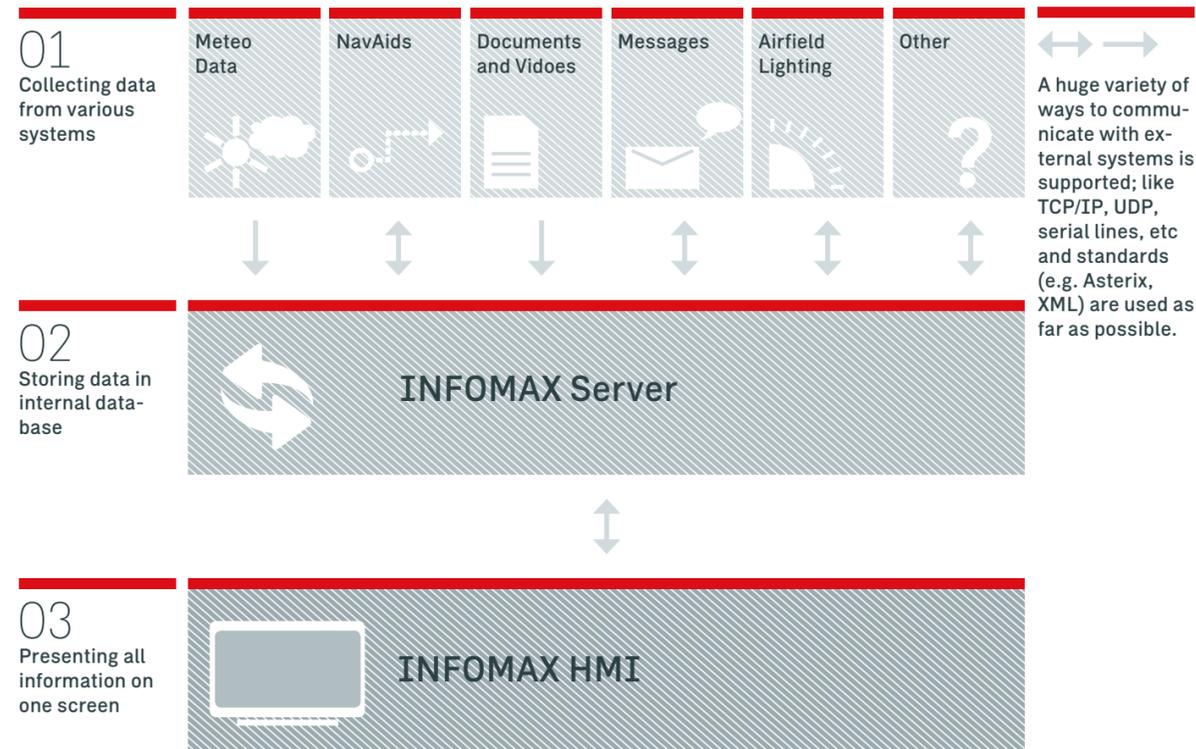
The AviBit Solution

INFOMAX - as part of the SafeControl Suite ATM package - combines all the information mentioned above on a single display in a consistent HMI that cleans up the CWP by removing unnecessary displays, mice and keyboards.

The HMI is highly configurable; the information presented on the screen can be selected to meet all site-specific requirements. This includes the determination whether data is shown at all and how the display looks.

INFOMAX combines information from various systems in a well organized manner on one screen.

01 Collecting data from various systems

| Meteo Data | NavAids | Documents and Vidoes | Messages | Airfield Lighting | Other |

A huge variety of ways to communicate with external systems is supported; like TCP/IP, UDP, serial lines, etc and standards (e.g. Asterix, XML) are used as far as possible.

02 Storing data in internal database

INFOMAX Server

03 Presenting all information on one screen

INFOMAX HMI

The INFOMAX Server collects data from various sensors, stores them in a database and provides a means for a user to access and display the data on the screen. Various ways to communicate with external systems are supported, (e.g. TCP/IP, UDP, serial lines, etc.) and commonly used standards (e.g. ASTERIX, XML) are used to support obtaining data from external systems. Interfaces to external sensors/systems using proprietary data formats can be easily added. The INFOMAX server runs in a fully redundant configuration and performs data mirroring between the operational and the hot-standby server. This results in a high availability, required for this safety critical application.

The INFOMAX HMI is fully configurable and consists of a number of pages each of which is fully configurable. All pages can be used in single or multiple combinations. A user can easily navigate the pages by pressing hyperlink buttons on a page or using tabs on the upper edge of the screen.

Certain pages (e.g. presentation from video cameras) can be configured as 'floating' windows to be placed anywhere on the screen. Any data item can be used to indicate that the data must be delivered to pilots using a different presentation reflecting both ICAO standards and local regulations.

Meteorological Data
INFOMAX displays all available meteorological data such as wind (including calculated cross, head-and tailwind components), RVR, QNH, METEOSAT images, TAF, METAR, weather radar images etc.

NavAids
The NavAid status is displayed colour-coded either permanently or on a selected page according to user requirements. By clicking on the representations a user is provided detailed NavAid status information.

Airfield Lights
All parts of the airfield lighting can be switched directly from the INFOMAX screen. Airfield lighting status (including failures) is presented in a clear manner overlaid on an airport map.

Documents and Videos
Any PDF documents such as charts, procedures and illustrations can be displayed on the screen and be locally updated. Real time video from standard video cameras can be presented anywhere on the screen.

Messages
INFOMAX is capable of processing and displaying various AFTN messages such as METAR, NOTAM, TAF, SIGMET, AIRMET etc. All messages are kept on the server and archived after a configurable time period.