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efficiency

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DIFLIS

Key Features

- > Open and modular architecture
- > Highly configurable HMI
- > Highly configurable workflow
- > Standard workflow performed with a single click
- > Accepts flight plan data from FDPS via FDE, AFTN/AMHS, OLDI/AIDC
- > Updates flight plans in the FDPS
- > Interface to airport information system (e.g. Stand information)
- > CWPs can be arbitrarily opened and closed
- > Flexible, dynamic assignment of CWP roles
- > Can be interfaced to A-SMGCS
- > Can be interfaced to arrival/departure management systems (e.g. OPTAMOS)
- > Recording and Replay

Benefits

- > Sharing and provision of data with other systems or partners is easily possible
- > Coordination between different Controllers is simplified
- > Intuitive creation of flight strips for all kind of flights

SAFECONTROL SUITE

ACEMAX
DIFLIS
INFOMAX

OPTAMOS
DECLOS
AIRMAX

ELECTRONIC FLIGHT STRIP SYSTEM

Handle and Exchange
Flight Progress Information

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DIFLIS

HOW DOES THE ELECTRONIC FLIGHT STRIP SYSTEM WORK?

The Challenge

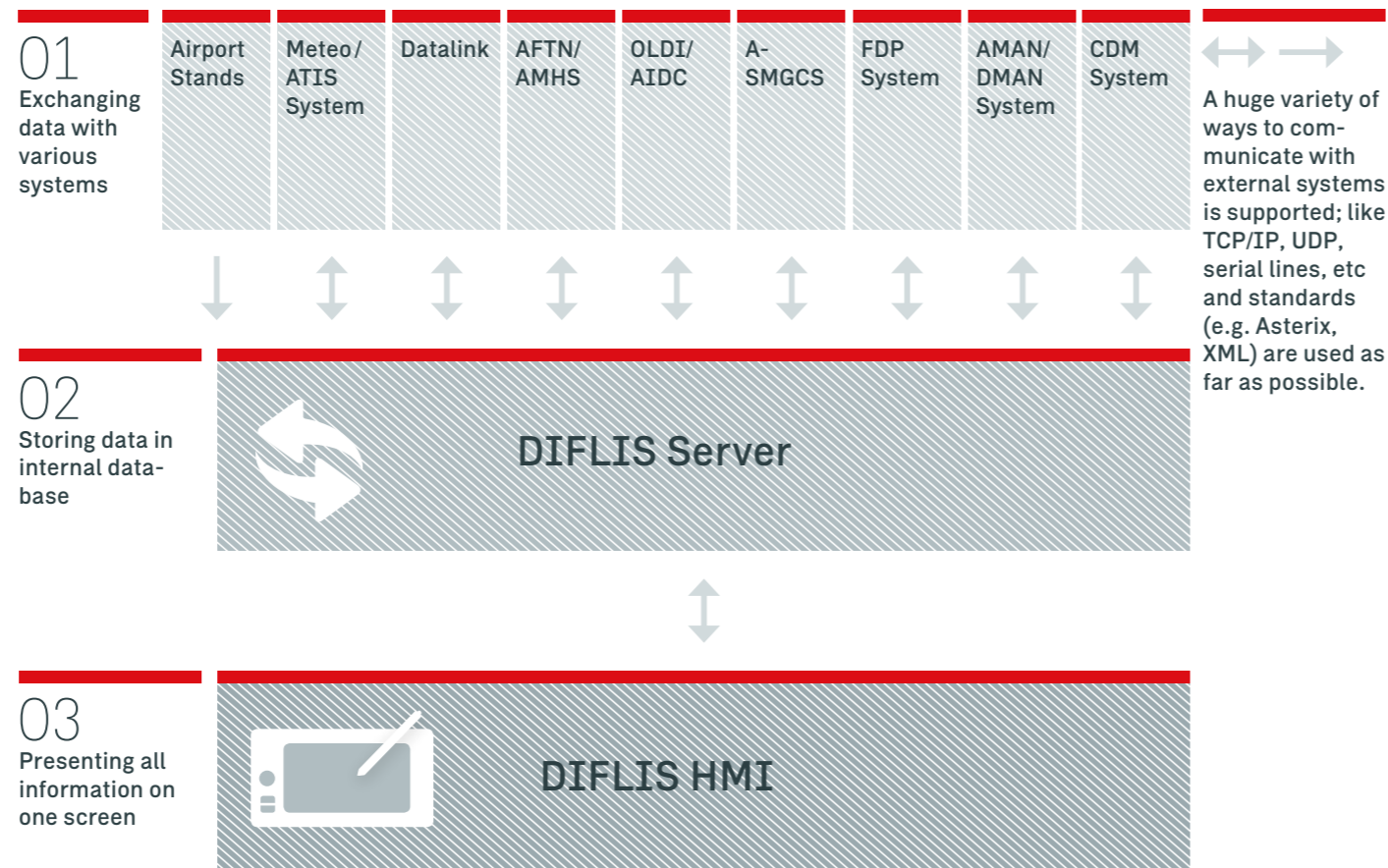
Today's Air Traffic Control towers and control centres work with paper flight strips. Constantly increasing air traffic demands highly sophisticated and efficient ATC systems with increasing numbers of working positions each with differing functions. This requires more and faster communication and coordination overhead that represents additional workload for Air Traffic Controllers. This additional workload needs to be minimized wherever possible. Information written on paper strips cannot be used for later investigation and statistics. DIFLIS collects all this valuable information and also provides statistics that are used for constant improvements in tower operations.

The AviBit Solution

DIFLIS – as a part of the SafeControl Suite ATM package – is a fully digital representation of paper flight strips on a computer touch-pen display. It combines the benefits of a well-established paper strip system with the possibilities offered by electronic data handling. In addition DIFLIS provides an Air Traffic Controller with a workflow based support logic that dramatically reduces the time necessary to handle data input and strip handling.



Introducing DIFLIS – an Electronic Flight Strip System



DIFLIS provides a user with flight progress strips that mimic paper strips in overall appearance, content and layout. The content of these strips can be manually updated or automatically updated from external sources.

Together with a strip bay system, which mimics the traditional strip bays and the content of the strips themselves, DIFLIS provides a clear status presentation of a particular air traffic situation.

The Integrated Workflow

DIFLIS is driven by a workflow, which makes proposals to a user about what the next step along a logical sequence of events for a flight will be. This reduces the time to interact with the strip system to an absolute minimum, freeing Air Traffic Controller capacity for their primary tasks – provision of a safe and orderly flow of air traffic. Out of the box, DIFLIS is equipped with all tools and features to configure and customize the workflow to each site and customer

preference. DIFLIS workflow handles all kinds of flights – civil or military, standard or non-standard – including Y and Z flights, training flights, re-landings, diversions, helicopters and much more. Because of its highly configurable architecture DIFLIS can easily be adapted to your site, no matter what traffic volume has to be covered. It is ready for ACC, APP and TWR including complete aircraft and vehicle handling on the manoeuvring area.

A WELL-STRUCTURED WORK PLACE

Human Machine Interface

One of the key elements of DIFLIS is the HMI. Based on the continuous cooperation with active Air Traffic Controllers from an international Air Navigation Service Provider, DIFLIS is extremely easy to handle because of its intuitive HMI. Air Traffic Controllers will immediately feel comfortable with DIFLIS. As a result Controllers will quickly accept the transition away from legacy paper strip systems. While the entire workflow covers even the most complex airspace and sector structure, DIFLIS itself remains clear and well structured.

Opening and closing working positions is smooth and simple. All coordination procedures are respected and presented in an unmistakable manner. Coordination with neighbouring sectors is an integrated part of DIFLIS.

Handwriting

The system supports handwriting for which a pen-input is best suited. All hand-written notes are kept during the lifecycle of a strip and are transferred between different CWP's when a strip is moved.

Flexibility and Connectivity

DIFLIS typically receives flight plans from external data sources. When no flight plans are available from any external system, DIFLIS supports a simple way to create flight plans and vehicle strips.

Within DIFLIS a user can switch Voice Communication channels as well as control airfield lighting systems.

Enabling Higher Situational Awareness

DIFLIS is also designed to integrate with an A-SMGCS such as the ACE-MAX. This integration is an additional key to higher situational awareness at a CWP. The enhanced safety net logic opens further opportunities for conflict detection and alerting features. Events, detected by an A-SMGCS could also be recorded by DIFLIS which in turn enables detailed monitoring of any moving traffic at an airport. These recorded events, including time stamps, can be distributed as input for different subsystems such as billing, traffic statistics and more.

Scalability

Another key feature of DIFLIS is its modular architecture. You intend to equip a medium size unit with electronic flight strips with an option for future expansion? You plan other features like automatic PDC later on? May be another CWP? Your airport plans to implement CDM? Then DIFLIS is your number one choice. It is designed for easy and cost effective expansion and upgrade. Eliminate your financial risk by selecting the configuration currently needed and operate a system that can be expanded with minimum cost and effort.

