The smart™ way to migrate to AMHS and SWIM
smartMessenger is a high performance, high availability Message Switching System designed to ease the migration from AFTN to AMHS and to support the AMHS basic and extended services as defined in the ICAO AMHS SARPs, Eurocontrol AMHS Specifications and regional AMHS standards.

smartMessenger comes with a complete suite of components and subsystems to support the AMHS basic and extended services as defined in the ICAO AMHS SARPs, Eurocontrol AMHS Specifications and regional AMHS standards.

**ATS MESSAGE SERVER**
smartMessenger ATS Message Server includes a high performance Message Transfer Agent (MTA) and Message Store (MS) to support AMHS (X.400) message switching and storing.

- Supports P1, P3, P7 protocols
- Supports dual stack (OSI and IPS)
- Supports expansion of Distribution List
- Supports XF and CAAS addressing

**AFTN/AMHS GATEWAY**
smartMessenger AFTN/AMHS Gateway supports bi-directional conversion and conveyance of messages between AFTN and AMHS.

- Supports message priority mapping between AMHS and AFTN
- Supports conversion between AFTN and XF and CAAS address formats
- Supports message conversion with other message formats supported by the system including CIDIN, WMO, SITA/IATA, E-mail, Fax

**SYSTEM MANAGEMENT**
smartMessenger System Management application supports all functions required to configure, monitor and operate the system from one integrated application and one common HMI.

- Supports Configuration of all components of the system [AMHS, AFTN and AFTN/AMHS Gateway]
- Supports configuration of MTA, distribution lists, users, message conversion
- Monitor system status, generate alarms
- Log user’s activities
- Manages messages by allowing the operator to browse, dequeue and compose messages and to trace the full history of messages
smart™ way to migrate to AMHS and SWIM

Frequentis offers an affordable, easy to deploy and operate suitable scale implementation with multiple sites.

STATISTICS

smartMessenger collects circuit traffic statistics for all message types for which the system is configured and store them into a RDBMS.

- Message Traffic reports can be generated for different periods or intervals (i.e. daily, weekly, monthly, quarterly, yearly).
- Statistical data stored in the RDBMS and can be used for trend analysis using third party tools such as Excel.

USER AGENT

Frequentis User Agent provides all the tools to allow the operators to send and receive aeronautical messages in AMHS and AFTN message formats from within one integrated application.

- Can be configured as an AMHS User Agent or AFTN Terminal client application
- Comes with Standard forms for entering Flight Plan, NOTAM, OPMET messages
- Supports File Transfer Body Part (FTBP) message attachments
- Comes with local address book and Directory Services for address lookup

DIRECTORY SERVICES

Frequentis Directory Services manages information about AMHS entities and makes it available to users

- Provides address lookup for users
- Serves as validation source for message addressing
- Stores end users security certificates

SYSTEM MONITORING AND CONTROL (SMC)

Frequentis System Monitoring and Control (SMC) monitors all SNMP enabled hardware and software components of the system available through the customer’s LAN/WAN.

- Comes with maps to help visualize network infrastructure
- Supports both polling and trapping techniques to collect data from monitored hosts
- Immediately informs users about new problems via E-mail or/and SMS
- Generates System Availability statistics

SOFTWARE CONFIGURATION MANAGEMENT

Frequentis Software Configuration Management is used for deploying and managing multiple software products across multiple systems.

- Provide a single management application that can install or update any number of existing systems simultaneously
- Guarantee identical software installations onto multiple machines with the click of a button
- Maintains a version history of all software components. Software can not only be updated but also reverted.
The smart™ way to migrate to AMHS and SWIM

HIGH AVAILABILITY

smartMessenger is designed to be available 24 hours per day, 365 days a year, without interruption of service and without loss of messages. smartMessenger is configured with redundant hardware and software components throughout the system to support high availability.

HIGH PERFORMANCE

smartMessenger is one of the fastest messaging system available in the market. smartMessenger comes with a high performance X.400 Message Transfer Agent (MTA) for the routing of AMHS messages and a high speed queuing system for the routing of AFTN, CIDIN, SITA and WMO message formats.

SCALABLE

smartMessenger is fully scalable to support a wide range of customers’s deployments from small system with single site to large installation with multiple sites with contingency systems.

SUPPORTS ALL MESSAGE FORMATS AND COMMUNICATION PROTOCOLS

smartMessenger supports all the major international message formats (AMHS, AFTN, CIDIN, WMO, SITA/IATA) and communication interfaces and protocols used in the aeronautical community to meet all the ANSP/CAAs messaging and communication requirements.

INTEROPERABILITY WITH OTHER GLOBAL MESSAGING SERVICES

smartMessenger seamlessly integrates with other global messaging services (i.e. WMO, email) by supporting all the messages formats and message conversion within one fully integrated system.

EXPANDABLE

smartMessenger is designed with a high level of modularity allowing the customer to expand the system to accommodate new functional requirements, additional users and/or increase in transactions.

EASY TO OPERATE

smartMessenger comes with a modern User Agent application, modeled after Microsoft Outlook, that has an intuitive look and feel and is very easy to learn and operate.

MATURE SOLUTION

smartMessenger is a mature solution that is operational in a number of customer’s sites around the world. smartMessenger has been fully tested and successfully passed AMHS Conformance and AMHS Interoperability testing.

COMPLIANCE TO STANDARDS

smartMessenger fully comply with all ICAO AMHS SARPs, Eurocontrol Community Specifications and regional standards. smartMessenger fully complies with all the EC safety and interoperability regulations.

FREQUENTIS AG
HEADQUARTERS

Innovationstraße 1, 1100 Vienna, Austria
Tel: +43/1/811 50-0, Fax: +43/1/811 50-5009

www.frequentis.com