



# AviSuite User Agents

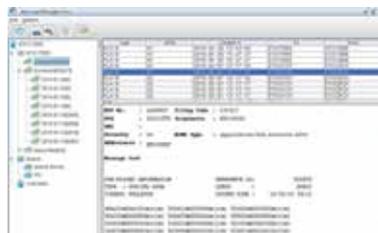
## The Avitech Messaging Clients

**AMHS@AviTerm**  
**AFTN@AviTerm**

### AviSuite User Agents

The AviSuite User Agents (UA) are advanced messaging client solutions specifically developed to meet the requirements of ATS users. Within the next years the X.400 based AMHS will substitute the AFTN as the messaging standard for ATS services. The AviSuite User Agents are designed to combine the convenience of a highly sophisticated ATS terminal application with the message handling capabilities of AMHS and/or AFTN.

Avitech has implemented the User Agent functionality within the AviSuite product line which gives a common frame to the wide range of Avitech's AIM and ATM specific client applications. Due to their modularity, the AviSuite User Agents are highly flexible and configurable products that can be deployed as stand-alone application as well as in a scalable client-server environment.



### Message Office

The entry point for all messaging related data in AviTerm is the Message Office.

It is used to collect all messages submitted and received by the UA.

The HMI is split into three sub windows, a tree view, a table view and a message preview – similar to the view that most of the popular email clients present.

### Receiving Messages

All incoming messages are automatically saved to the AviSuite internal message repository which supports a configurable message retention time up to one year.

If a distress message or an AMHS Interpersonal Message is received, the user is guided to acknowledge the received message.



A message can be previewed by selecting it in the table view. In order to see all details of the message, it can be opened in the specialized AIM and ATM application. An option to view, print and save the message as a template is offered by a message type specific context menu. Furthermore, where appropriate (e.g. for Flight Plans), follow-up actions are offered (e.g. creating a CHG message based on the Flight Plan currently selected).

### Sending Messages

A message can be generated by use of different methods. The simplest method is to fill in all necessary data into the input fields of the according application window.

To compile new messages, the user may also load an existing message for modification.

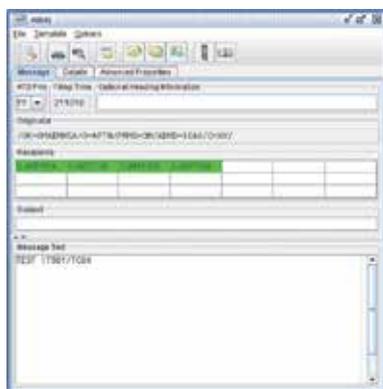
The product comprises comprehensive syntactical and, wherever possible, semantic checks of the data entered by the user and therefore guarantees correctness of all submitted messages.

## User Agent AMHS@AviTerm

Profile and functional requirements to an ATS Message User Agent are specified in ICAO Doc 9880, Part II. The EUR AMHS Manual additionally specifies the use of the File Transfer Body Part for the transfer of binary data are mandatory.

In order to ease the migration from AFTN to AMHS, the particular AMHS frame is structured in a way that users accustomed to AFTN will quickly feel at home.

The integrated functionality of a Directory User Agent (DUA) automatically handles the conversion of AFTN addresses into AMHS addresses and vice versa.



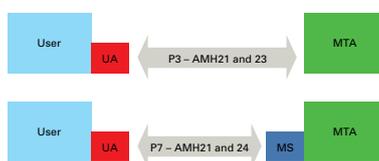
This ensures that the addresses are always consistent and reduces the risk of delivery failure due to mistyped AMHS addresses.

The HMI offers dedicated input fields for the information elements making up the ATS-Message-Header:

- ATS-Priority
- ATS-Filing Time
- ATS-Optional Heading Information

## Extended Services

According to the specifications in ICAO Doc 9880, Part II, 3.1.4.3, the AMHS User Agent supports the profiles AMH23 (MTS-Access P3) as defined in ISO/IEC ISP 12062-4:2003 and AMH25 (Enhanced MS-Access P7) as defined in ISO/IEC ISP 12062-5:2003.



Additionally, the Extended ATS Message Handling Service specifies the following functional groups not covered by the Basic ATS Message Handling Service:

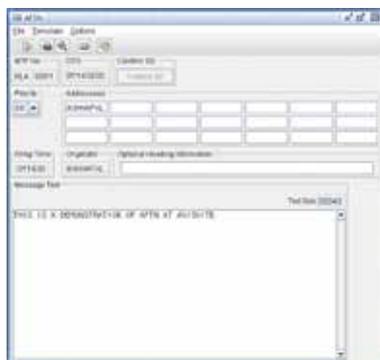
- Use of File-Transfer-Body-Parts for binary data exchange
- Use of IPM Heading Extensions
- AMHS Security
- Use of Directory

In order to allow for the transmission and reception of binary attachments, the file-transfer-body part type is supported.

The use of IPM Heading Extensions (IHE) will make the ATS-Message-Header dispensable. However, for a UA sending a message, it is necessary to distinguish between recipients who support the IHE and those who don't.

## User Agent AFTN@AviTerm

A specialized frame for AFTN message generation is also available. It supports all necessary AFTN specific features according to ICAO Annex 10, Vol. II.



The application supports the user in correctly handling distress messages by offering semi-automatic generation of SS-acknowledgement messages.

## Search

Besides the domain-wide retrieval options being implemented by the AFTN and AMHS Retrieval component offered as a COM-Centre's functionality, the AviSuite User Agents also provide capabilities allowing the user to search the local message database for messages by a wide range of selection criteria such as:

- Date (range)
- System time (range)
- Destination address
- Recipient address
- ATS Priority (range)
- Message type (all configured formats like FPL, NOTAM, etc, plain messages, reports and notifications)
- Message text content

## Interfacing with Third Party Applications

In a classical AFTN environment, there is a variety of specialized applications, all exchanging data with each other via AFTN. Many applications run their own integrated interface to the AFTN. With the upcoming of AMHS, it becomes necessary to connect these legacy applications to the AMHS instead. Avitech offers multiple solutions on different complexity levels enabling third party applications to interface with the AMHS.

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