MHS
Aeronautical Message Handling System

Leading technology for efficient and reliable Aeronautical messaging solutions
Your trusted guide from AFTN to AMHS

Our integrated AFTN/AMHS system provides optimum solutions for a safe and reliable exchange of messages – serving the major players in the global aeronautical network.

Our competence
In a complex aeronautical environment we devote ourselves to support you with the best available message formats, protocols and interfaces.

We follow ICAO SARPs as well as regional standards and recommendations while implementing customised functions according to your specific requirements.

Serving your needs
We supply our long-term experience in aeronautical message handling to provide you with state-of-the-art solutions tailored perfectly to your individual specifications. Our civil and military COM Centers and messaging clients are designed to ensure interoperability between users in different environments swiftly and easily. Our gateways provide a safe and reliable automatic transition of messages between various formats and protocols. The latest Indra Avitech gateway is bridging the gap between AMHS and SwIM.

Indra Avitech MHS technology
Indra Avitech is known as a groundbreaking pioneer in aeronautical message handling since the 1970s. Over the past four decades, we have been constantly growing, always providing our customers with up-to-date, high-quality solutions and continuously setting trends in the industry.

Having started with AFTN, growing with CIDIN and AMHS, we today combine these applications to provide you with the best available intelligently integrated systems.

Over the years we earned the trust of many Air Navigation Service Providers, Airlines and Civil/Military Aviation Authorities implementing our Aeronautical messaging solutions.

Our commitment and enthusiasm is reflected in our customers’ satisfaction – our main goal in every project.

Two Way AMHS - SwIM messaging
Indra Avitech User Agents have been developed to combine the convenience of a highly sophisticated ATS terminal applications with the message handling capabilities of AMHS and/or AFTN. Our product range includes both AFTN and AMHS User Agents. An easy migration from AFTN to AMHS is achieved by a common look and feel as well as an automatic conversion of AFTN addresses into AMHS format and vice-versa.

Our solutions include the reception and transmission of messages, forms to edit various message types, parsing of received messages for proper display, storage and use of message templates plus powerful search functions with various criteria.

The application can be installed as a stand-alone client or as web start client to support roaming users.
2 Aeronautical Message Handling Connector
The MHS Connector is designed to connect legacy applications to AFTN or AMHS switches by use of a simple internal XML file interface. Automatic conversion between AFTN and AMHS addresses allows applications to use AFTN addresses. There is no need to implement AMHS elements into the legacy application. The MHS Connector decouples application and communication systems.

3 Switch Monitoring and Control Positions
Indra Avitech switches are equipped with a state-of-the-art user interface. They allow administrators and operators to access, monitor and control the application, to configure it easily according to operational needs and to import look-up tables. Indra Avitech switches facilitate powerful message retrieval and repetition functions, correction of faulty messages as well as generation of system statistics.

4 Message Switches for COM Centers
Due to their modular design, Indra Avitech solutions for COM Centers are available in the following variants: AFTN switches, AFTN/AMHS gateways, integrated AFTN/AMHS switches, AMHS/SWIM gateways.

a) The AFTN Switch Component is fully compliant with Annex 10 Vol. II. It is available with various network interfaces from traditional serial lines to TCP/IP and other interfaces according to your specification.

b) The AMHS Switch Component is based on the ITU-T X.400 (ISO/IEC 10021-1) Message Handling standard and fully compliant with ICAO Doc 9880, ICAO EUR Doc 020 – EUR AMHS Manual, EU SPEC 136 on AMHS. It supports the Basic and Extended ATS Message Handling Service including File Transfer Body Part (FTBP) to exchange binary data.

c) Our AFTN/AMHS Gateway is developed to support interoperability by connecting AMHS with existing AFTN switches. It is fully compliant with ICAO Doc 9880.

d) Our AMHS/SWIM Gateway establishes a bridge between AMHS and SwIM components. Our solution is set to implement IwXXM profile according to EUR AMHS Manual Appx. H.
Technology you can trust

- First AMHS implementation worldwide in 1996
- Ten operational AMHS COM centers implemented for ASECNA
- AMHS/SWIM Gateway
- Connector to any aeronautical fixed service

Experience & Know-how

Our MHS products for the aviation industry include solutions for AFTN, AMHS and SWIM Messaging. Besides our purely civil solutions for Air Navigation Service Providers and Communication Service Providers, one of our main focuses is on the civil and military interoperability interfaces for Aeronautical Data and Messages.

For more than 40 years Indra Avitech has served the aviation industry as one of the leading international developers of aeronautical IT systems worldwide. Today Indra Avitech supplies more than 45 customers in 55 countries on six continents with state-of-the-art aeronautical information technology.

Indra Avitech represents the Center of Excellence within the Indra Group for AIM, MHS, SWIM and MET, complementing the Indra ATM offering worldwide. The Indra Group’s global business model is based on high-end innovation and technology, currently supporting 4000 air traffic control installations in over 160 countries.

The group is all set for ICAO Aviation System Block Upgrades (ASBUs): Compliance with Block 0 & Block 1 and paving the way to Blocks 2 & 3.

ASBU-Compliance

2013 2019 2025

Please ask for our complete product range or visit our website www.indra-avitech.aero
Creating skies together

We guarantee the right Aeronautical Information at the right time

Indra Avitech reserves the right to modify these specifications without prior notice.