

Product brief: AIDA-NG

Aeronautical message handling system

AIDA-NG is a unified message handling system for AFTN, CIDIN, and AMHS, based on the ECG (EATM Communication Gateway) software designed in close cooperation with leading ANSPs, including DFS, NATS and EUROCONTROL. AIDA-NG is the only AMHS/AFTN implementation on the market that provides fully integrated and uniform message handling facilities, such as efficient queue handling and tracing for all connected networks.

Key features

Routing and message handling

Standard table-based routing functions are accomplished through the ability to copy, divert and pause messages. Pending messages in outgoing queues can be monitored online (per circuit), accessed directly and re-routed or redirected to other destinations, blocked and removed.

Best performance

AIDA-NG systems have been tested and approved to switch a permanent load of more than 900 messages per second. High message loads do not affect the exceptional response time of the operator working positions. Overload situations are prevented by extensive flow control mechanisms.

Disaster recovery

The smooth switchover from one site to another makes contingency management very swift and simple. Switching over the operational services can be performed within minutes.

System maintainability

A redundant central server for configuration and software deployment allows exchange of a failed server in approx. 15 minutes without service interruption. No manual installation required.

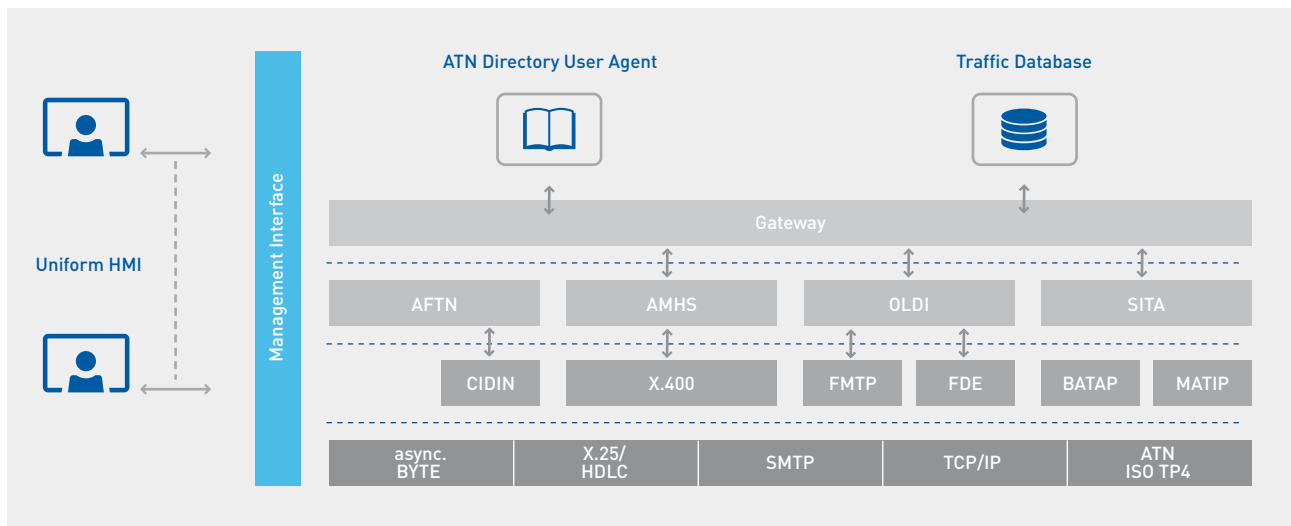
Ready for EDS

AIDA-NG provides access to the European Directory Service (EDS) using a fully compliant directory user agent (DUA).



AIDA-NG at a glance

- Open and fault-tolerant architecture
- Proven interoperability and standard conformance with AFTN/CIDIN and AMHS
- Support of the Basic and Extended ATSMHS in conformance with ICAO Doc 9880
- Multi-site configuration management
- Available AMQP and SOAP interface as foundation for integration with SWIM
- Excellent performance and throughput capacity service



System operation & control

Benefits

Outstanding performance

With over two decades of experience and continued development, AIDA-NG reached an unparalleled maturity and stability offering best-in-class performance with permanent load of over 900 messages per second. The system can hold more than 250,000 messages in a dedicated queue, the pending message list. Message switching performance and system access is not degraded under this load. Full protection against overload by several flow control mechanisms, in the communication protocols and the system itself guarantee an unparalleled degree of reliability.

Harmonised supervision

A harmonised supervision and message handling is possible thanks to the unified HMI which allows operators to supervise the system and handle all messages with the same operating philosophy for all components, irrespective of the message type (AFTN, CIDIN, AMHS). This also allows incoming AFTN messages to be retrieved and related outgoing AMHS messages to be traced, and vice versa.

Transition to SWIM

With its easy to use AMQP and SOAP interface AIDA-NG is the ideal platform for implementation of a SWIM/AMHS gateway.

Facts and figures

Market leader in AMHS	100+ installed systems in 67+ countries
Universal connectivity	Unified system management providing a common messaging framework for all types of aeronautical data
Redundancy concept	Fully redundant in all components without any single point of failure
Contingency management	Dual site operation allowing a fast transfer of operational service
Field-proven system stability	99,99997% availability, i.e. less than 15 sec/year unavailability of system (in average)