

FAA Coordination With EUR AMHS Process & Documentation

Presented To: NACC

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NAM/CAR Air Traffic Services Inter-facility Data Communication (AIDC) and North American Interface
Control Document (NAM/IDC)

Implementation Follow-up Meeting

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Federal Aviation
Administration



Overview

- ❑ The FAA works closely with EUROCONTROL and members of the EUR Region in both the implementation and operation of its AMHS program
- ❑ The FAA performs updates in accordance with AMC schedules and communicates regularly with the AMC Administrator in order to analyze (and prevent) routing and messaging problems
- ❑ The FAA utilizes EUR AMHS documents for their AMHS interoperability with partner ANSPs
- ❑ While the FAA follows some of its own internal processes as well as those of other regions, much of the FAA's efforts is based upon EUR practices



AMC

- **28-Day Update of AMC Data**
 - As expected, the FAA performs 28-day updates as per AMC guidelines and schedule
 - Emails partner ANSPs in days prior to updates
 - Coordinates with partner ANSPs to hold, then resume traffic during updates
 - Monitors traffic and error positions following update in case of issues
 - Utilization of SITA User Address List, implementation of Third Party Architecture Document (KATL SITA gateway)



AMC (continued)

- **Update of “Connections” Tab With Each New Operational AMHS Cutover**
 - AMC has a “Connections” tab with information for each ANSP’s adjacencies (protocol, bandwidth, etc)
 - Is the basis for the regional comm charts



AMC (continued)

- **Update of Regional Routing Tables**
 - The FAA has provided updates of KATL and KSLC routing tables for AFTN and AMHS to EUROCONTROL for integration into AMC
 - Will require modification with each new AFTN-to-AMHS migration



AMC (continued)

- **Additional Notes About AMC Updates**
 - Standby servers must also be updated
 - Updates may be required for distribution lists



AMC (continued)

- **Consequences of Not Following Update Cycle**
 - In October 2017, there was an update in which Panama’s “O” valued changed from O=MPTO to O=MPZL. This update was not applied in a neighboring country as scheduled. The KATL comm center detected the use of O=MPTO (the previous value) on Panama O/R addresses received from that country, causing audible and visual alarms to be produced for each usage of such addresses.
 - In February 2018, there was an update that changed South Korea’s “PRMD” from RK to REP-KOREA. This update also was not applied in a neighboring country. The KSLC comm center queued messages for that country, as their AMHS would not accept messages from the new PRMD=REP-KOREA.

These examples highlight importance of adherence to AMC update schedule.



EUR AMHS Manual

- **Appendix E: AMHS Interoperability Test**
 - The FAA has a customized interoperability test procedure based upon Appendix E
 - This test procedure uses the test cases from Appendix E, and adds additional tests and other customization
 - Also uses ANSP-specific addresses



EUR AMHS Manual (cont'd)

- **Appendix F: AMHS Pre-operational Test**
 - The FAA has developed an operational Cutover Procedure that incorporates aspects of the EUR POT
 - The FAA Cutover Procedure sends some test messages as described in Appendix F prior to moving operational traffic

