

### **PHASED APPROACH TESTING AND IMPLEMENTATION**

To ensure an orderly test arrangement and coordinated implementation, the following phased approach is recommended:

#### Phase I ( Initial stage: AFTN routing at MTA )

- (a) MTAs of BBIS, BIS and EBIS to conduct interoperability test using the CITP with direct connected MTAs. (e.g. Hong Kong – Japan, Hong Kong – Macao);
- (b) Cutover from AFTN to AMHS after successful completion of the interoperability test; and
- (c) The MTA routing should follow the AFTN Routing Directory

#### Phase II ( Intermediate stage – MTA direct routing to end BBIS )

- (a) MTAs of BBIS, BIS and EBIS to conduct interoperability test with MTAs of BBIS without direct connection. The AITP is to be used. (e.g. Hong Kong – Singapore, Hong Kong –Australia, Hong Kong – India etc); and
- (b) When all BBIS are up and running and interoperability test between each and every one of them is completed, the MTAs should change from AFTN routing to direct BBIS routing. This has to be executed by changing the static routing table of AMHS and ICAO should be informed of the change so that the progress can be monitored.

Note: The following prerequisites should be ready before cutover to direct BBIS routing:

- 1) All States registered as an AMC user at Eurocontrol to follow AMHS address update procedures before AMC database for the Asia/Pacific Region is established;
- 2) Each BBIS has at least two BBIS links up and running and every BBIS is able to connect directly or indirectly with other BBIS in the region; and
- 3) For BBIS with inter-regional connections, alternate links should be available to cater for inter-regional link interruptions.

#### Phase III ( Final Stage: direct MTA-to-any MTA routing within the region )

- (a) Subject to traffic pattern and resources available, MTA of BIS and EBIS should schedule to conduct interoperability test among themselves using the AITP; and
- (b) After successful completion of the interoperability test, the corresponding MTA pairs under test can be enhanced to direct MTA-to-any MTA routing instead of relaying through the end BBIS.

Note: Completion of Phase III would be subject to the resources available at each State. The target date may be decided by ATNICG depending on the progress.

Phase IV

(a) When IPS is ready and the AMHS within the region are able to support IPS, repeat the aforesaid interoperability tests using the IPS ATN.

(b) Transition the OSI router at BBIS to IPS first, then followed by BIS and EBIS.

4.2 A sample routing table showing the corresponding changes from AFTN routing in Phase I to direct MTA-to-any MTA routing in Phase III is given at Appendix A.

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