

7th Meeting of Working Group of ATNICG and Workshop

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Status of AMHS Implementation

- Comsoft's AMHS is installed in Mumbai with redundant dual stack ATN routers, redundant MTAs, Message stores and NTP servers.
- ATN routers are capable of establishing upto 8 ATN connections on X.25.
- The core system is connected with 25 UAs

Status of AMHS Implementation

- Interoperability tests between **Mumbai** and **Singapore** completed using:
 - CLNP/X.25
 - CLNP/IP
 - TCP/IP
- Pre operational trials wherein live traffic is being exchanged parallelly on AMHS and AFTN continuing presently as per AMHS manual

Status of AMHS Implementation

- Interoperability tests between **Mumbai** and **Muscat** is pending due to the need of an IP router at **Muscat** end. Comsoft has sent router to Musact.
- **Mumbai** end is ready for the interoperability tests.

Status of AMHS Implementation

- Tests between Mumbai and Bangkok/Beijing/Karachi are pending due to need of data lines.

Status of AMHS Implementation

- The AMHS MTA is connected to the legacy AFTN system using X.25 protocol and flow of messages between the two systems tested.

Problems faced

- Initially, the ATN router applications in both the routers did not run.
- The application used to stop after few seconds of starting.
- Re-seating the X.25 cards in ATN Router solved the problem.

Problems faced

- **ATN router-2 is unable to work using CLNP/IP, whereas it works well with CLNP/X.25. The problem is still persisting.**
- **Mismatch of P1-TSAP between Mumbai and Singapore during the Inter-Op tests had led to problems in exchange of messages. It was resolved by setting the same TSAP.**

Problems faced

- **Some of the HP server hardware failed during the installation/testing phases. They were fixed by HP's support team in India.**
- **One of the NTP servers failed during installation/ testing phases. It is under repair.**

Future Plans

- **Tests with Muscat will commence on Muscat declaring readiness after installing an IP router.**
- **Tests with Karachi will commence on TP0/IP, once the link between Mumbai and Karachi is through.**

Future Plans

- Tests with Bangkok and Beijing will commence on CLNP/X.25, CLNP/IP and TPO/IP after the data lines are available.
- The AMHS between Mumbai and Singapore will be made fully functional after Aerothai provides static directory of addresses at their website and on a mutually agreed date.