



AFTN/AMHS Gateway Operation

➤ **AFTN/AMHS Gateway Functions**

- conversion of AMHS information objects to AFTN and vice versa s (and of certain service messages)
- **address mapping** : conversion of AFTN addressee indicators to/from AMHS O/R addresses

AMHS component “mapping”

AFTN	MHS/X.400	AMHS
AFTN Centre	MTA	ATS Message Server
AFTN Station	UA	ATS Message User Agent
	AU (+ MTA)	AFTN/AMHS Gateway

There are two types of AMHS user, *direct* AMHS user and *indirect* AMHS user. The SARPs provides the following definitions:

- ***Direct AMHS user***: An ATS Message Service user who engages in the ATS Message Service at an ATS Message User Agent.
- ***Indirect AMHS user***: An ATS Message Service user at a non- AMHS end device (e.g. AFTN station) using an AMHS gateway (e.g. AFTN/AMHS Gateway) to communicate with other ATS Message Service users.

➤ Priority Indicators

1- Urgent = SS

2- Normal = DD, FF

3- Non urgent = GG, KK

➤ **AMHS to AFTN informational objects translation**

IPN (Inter-Personal Notification) (RN)

The Gateway convert receipt notification into SS ACK and route it to addressed user.

Non-delivery Report:

The non delivery report is converted into "Unknown address" AFTN service message, and it may include non-delivery information concerning multiple recipients of the subject message.

Probe (Message without contents (envelope only)

A Probe which is used normally to test reachability of certain useragent, the probe can not be mapped onto an appropriate AFTN service message, thus the gateway returns Delivery or non-delivery report to the AMHS originator.

➤ **AFTN to AMHS Conversion**

1- AFTN SVC QTA RPT

According to Annex 10 , vol II, 4.4.16.2.2., in case a user received incorrect message or need a message repetition, he/she can send a service message SVC QTA RPT to the originator, in case of that the originator is an ATS user agent, the service message will be handled by the gateway and the AFTN component will repeat the requested message from its log without passing it to the originator.

As in MHS there is no information object defined for the purpose of message repetition. Therefore, the gateway specifications charge the gateway with the requested message repetition. If the referenced subject AFTN message did not pass through the gateway or if the gateway is not in possession of an unmutilated copy of the subject message an error situation is reported to the gateway's control position.

2) AFTN SVC UNKNOWN ADDRESS

The AFTN/AMHS Gateway converts the SVC Unknown address to a non-delivery report (NDR), which is finally delivered to the User Agent who is the originator of the subject message. The conversion process "SVC to NDR" makes use of elements that were logged from both the AMHS and AFTN subject message, at the time of their previous handling in the Gateway.

3) Channel Check

The AFTN/AMHS Gateway disregard the channel check and prevent it from passing to AMHS. AFTN component send Channel check

3) AFTN Acknowledgement Message (SS ACK)

The gateway converts a received AFTN acknowledgement message in a corresponding AMHS interpersonal notification (IPN) of the type receipt notification (RN).