AMHS System Overview

ROBERTS FIR

System provider

- **INTELCAN** is **Roberts FIR's** AMHS system provider
- SKYCOM AMHS is the product name for the INTELCAN AMHS system.

SKYCOM AMHS

The SKYCOM AMHS, being an ATN application, uses the infrastructure of the existing ATN network.

SKYCOM AMHS Services

The **SKYCOM AMHS** System provides support for the two service levels defined by ISO/IEC standards and ITU-T recommendations:

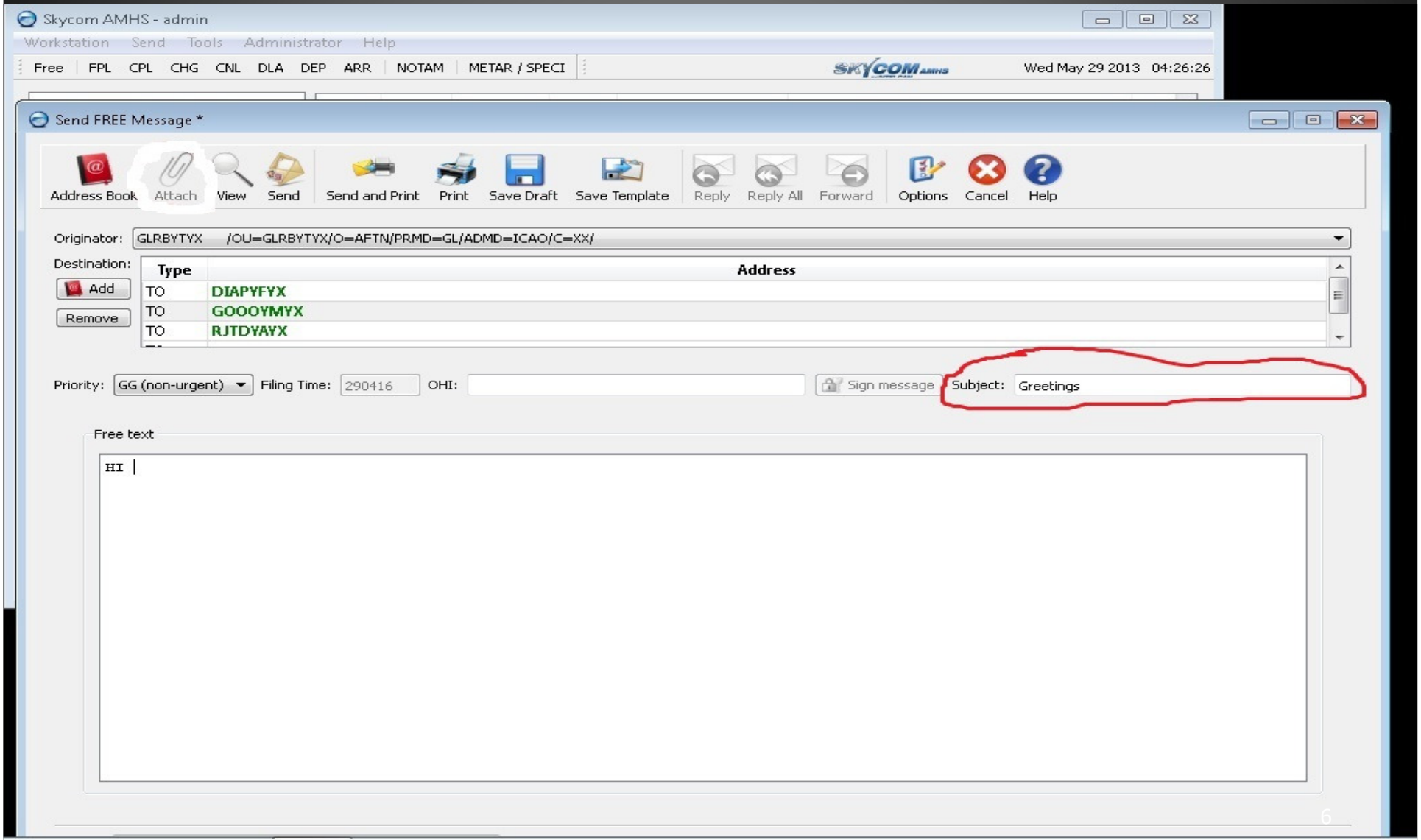
1. The Basic ATS Message Handling Service
2. The Extended ATS Message Handling Service

The basic AMHS Service system

The Basic AMHS service system performs an operational role similar to the AFTN with a few enhancements such as:

- Unlimited message length
- Unlimited number of message addressees
- Provision of non-delivery reports
- Message subject indication

The Basic AMHS Service

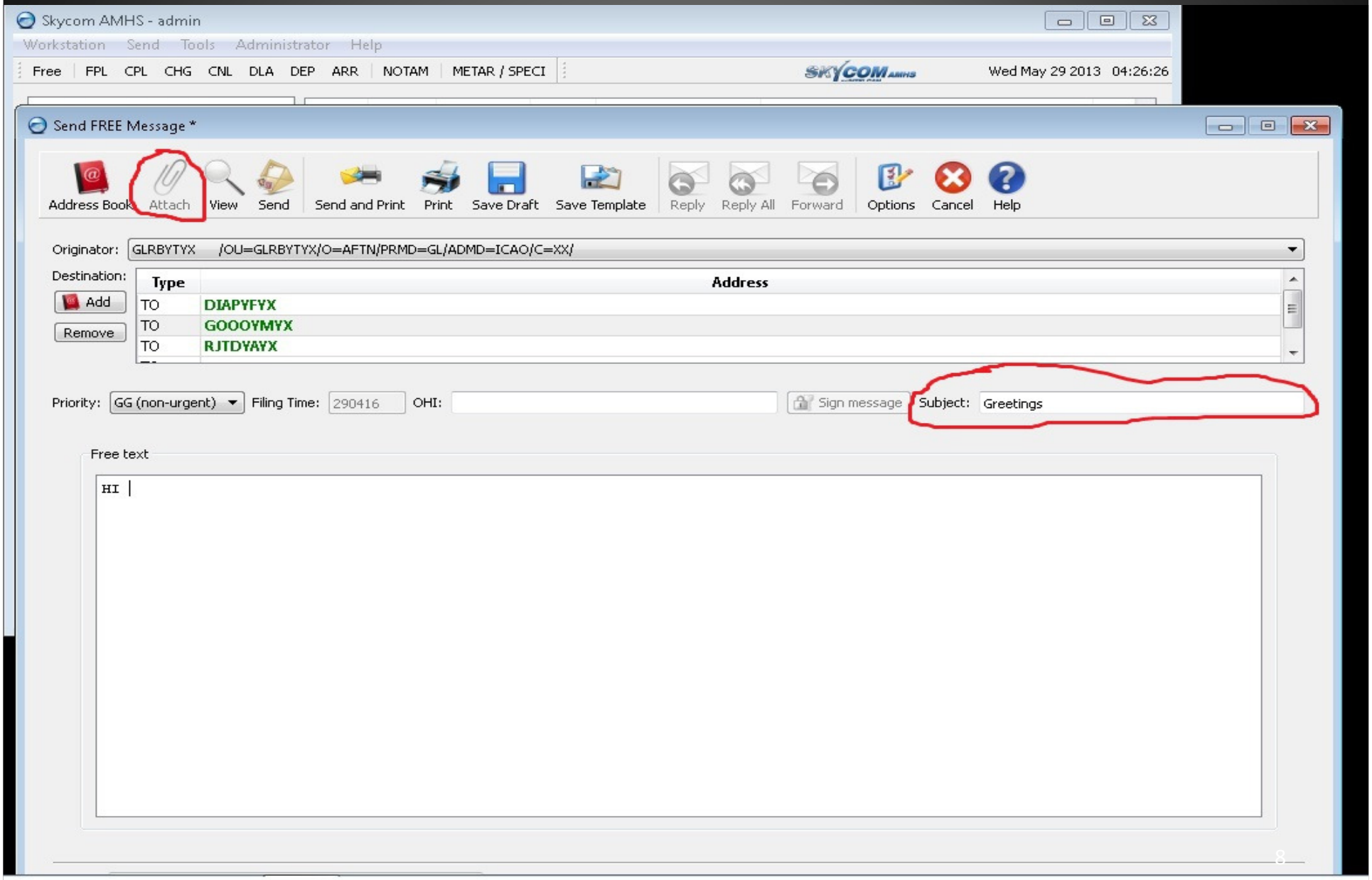


The extended AMHS service system

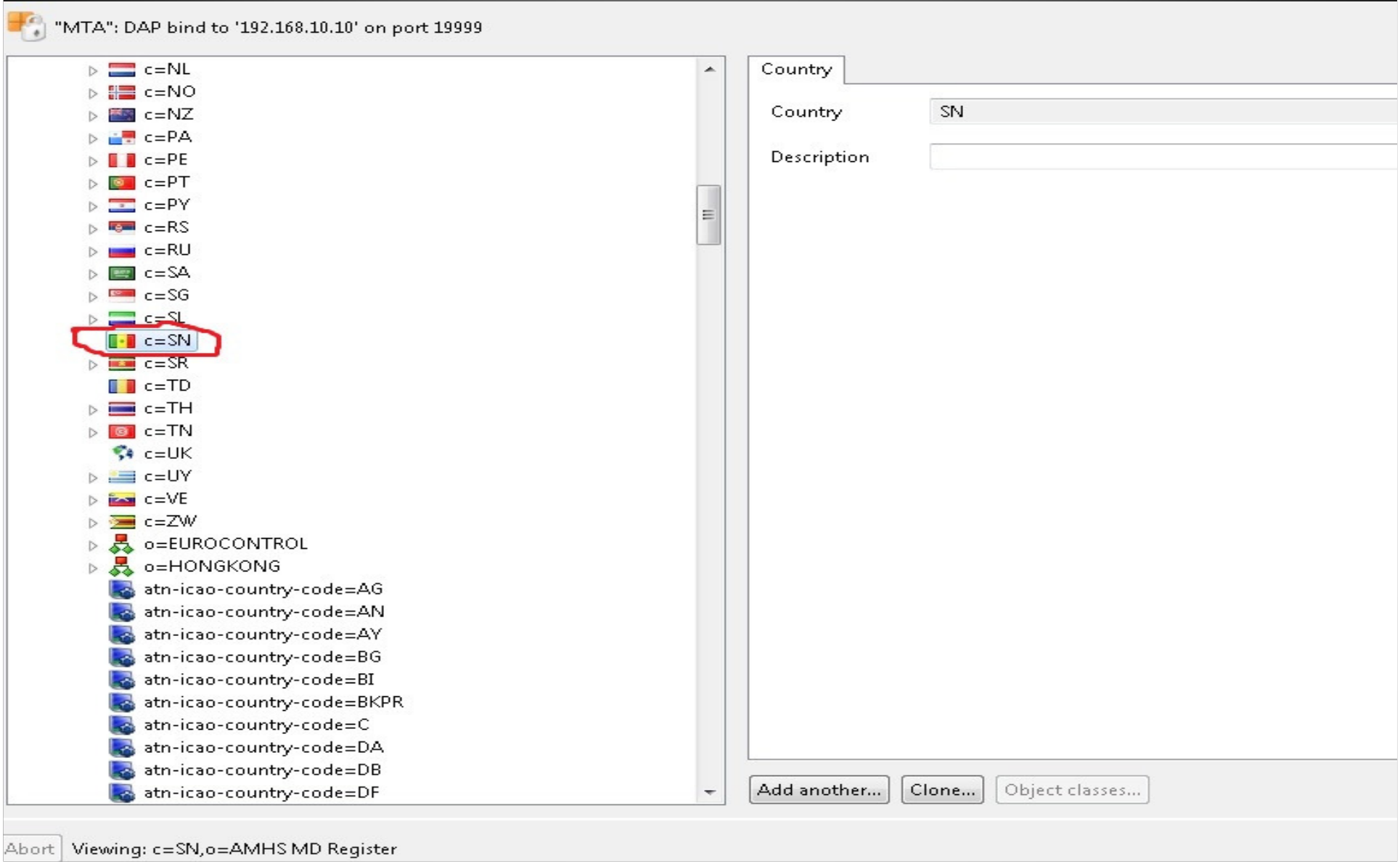
The Extended AMHS Service is backwards compatible with the Basic AMHS Service, but provides additional functionality such as:

- The X.500 directory services
- Security mechanisms
- Attach binary data example, Binary Universal Form for the Representation of meteorological data (BUFR)

The Extended AMHS Service



Extended Services (Directory)



SKYCOM AMHS Messages

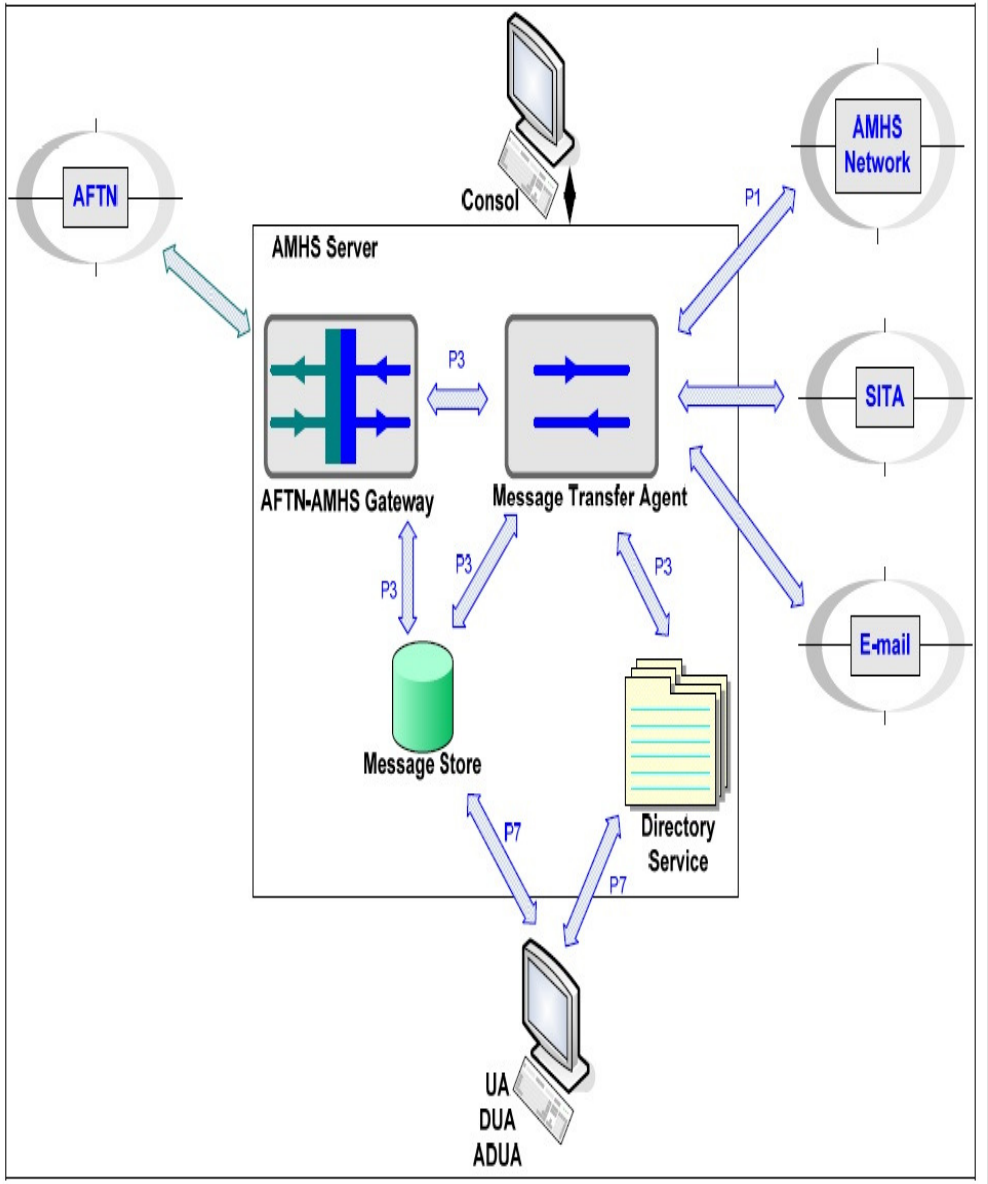
The message categories handled by the SKYCOM AMHS are:

- Meteorological messages
- Aeronautical information services message
- Network Support messages
- ATS messages
- WMO messages
- AMHS messages

SKYCOM AMHS Components

The main components of the SKYCOM AMHS are based on ICAO recommended standards, are as follows:

- AFTN/AMHS Gateway
- MTA - Message Transferring Agent
- AFTN Component
- AFTN and AMHS User Agents (UA
- MS - Message Store
- DS - Directory Server
- DUA - Directory User Agent
- ADUA - Administrative Directory User Agent

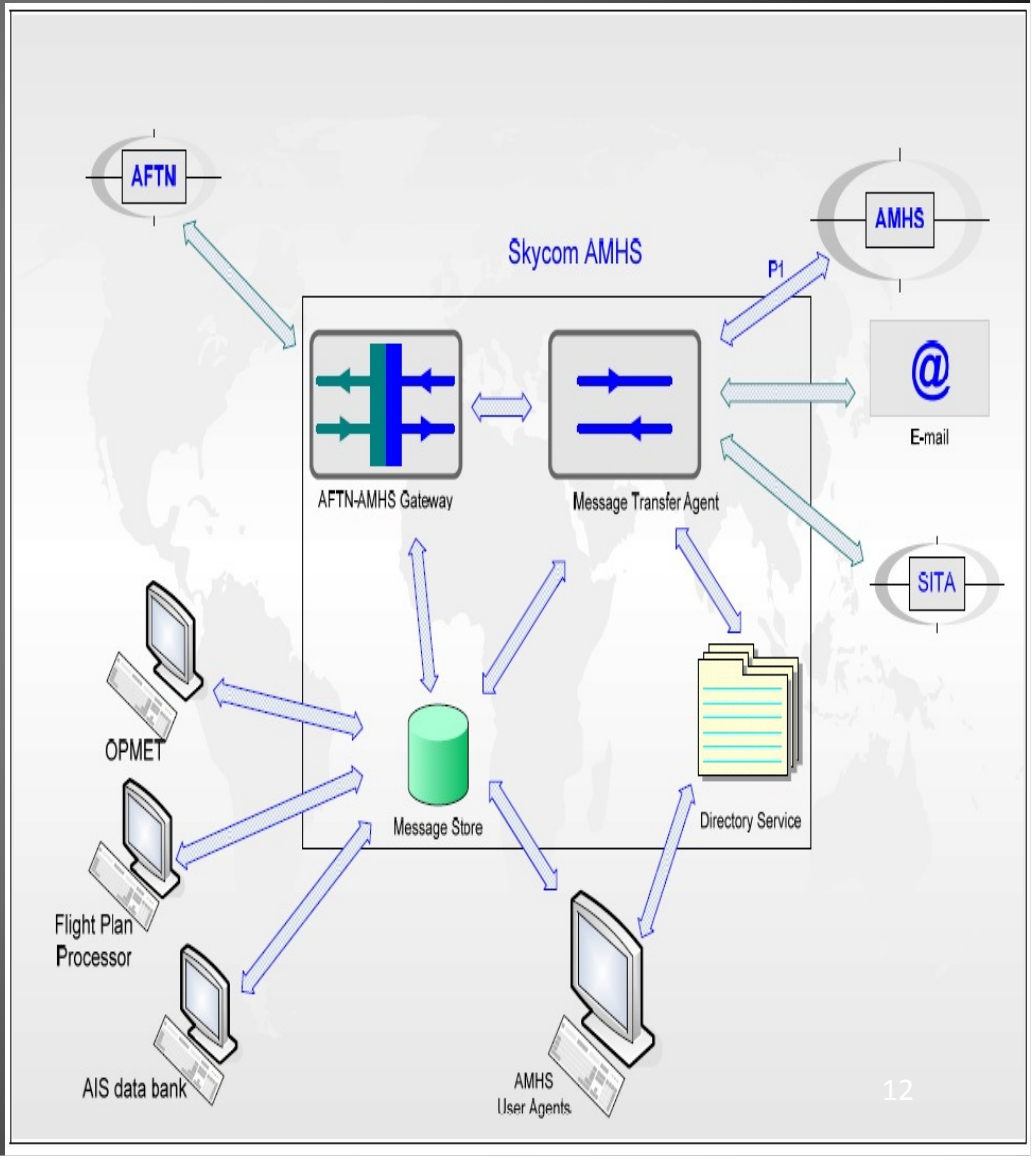


Roberts FIR AMHS system overview

SKYCOM AMHS as part of ATS

The SKYCOM AMHS can exchange specific message types with different ATS applications, such as:

- AIS data bank,
- OPMET
- Flight processors



SKYCOM AMHS User Agents

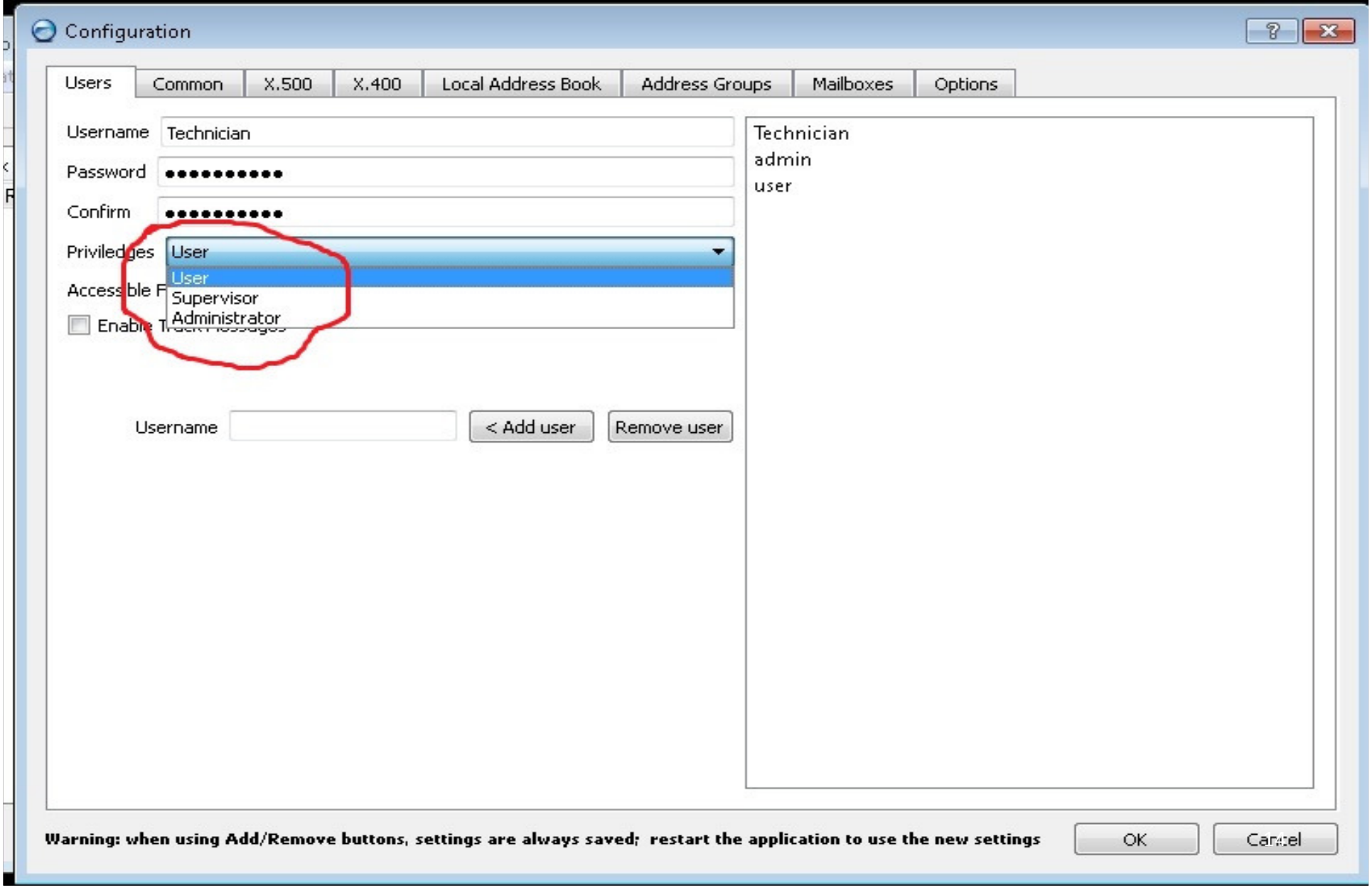
SKYCOM AMHS has three types of user agents (graphical user interface)

1. UA: user agent (User)

2. DUA: Directory User Agent (Supervisor)

3. ADUA: Administrative Directory user Agent (Administrator)

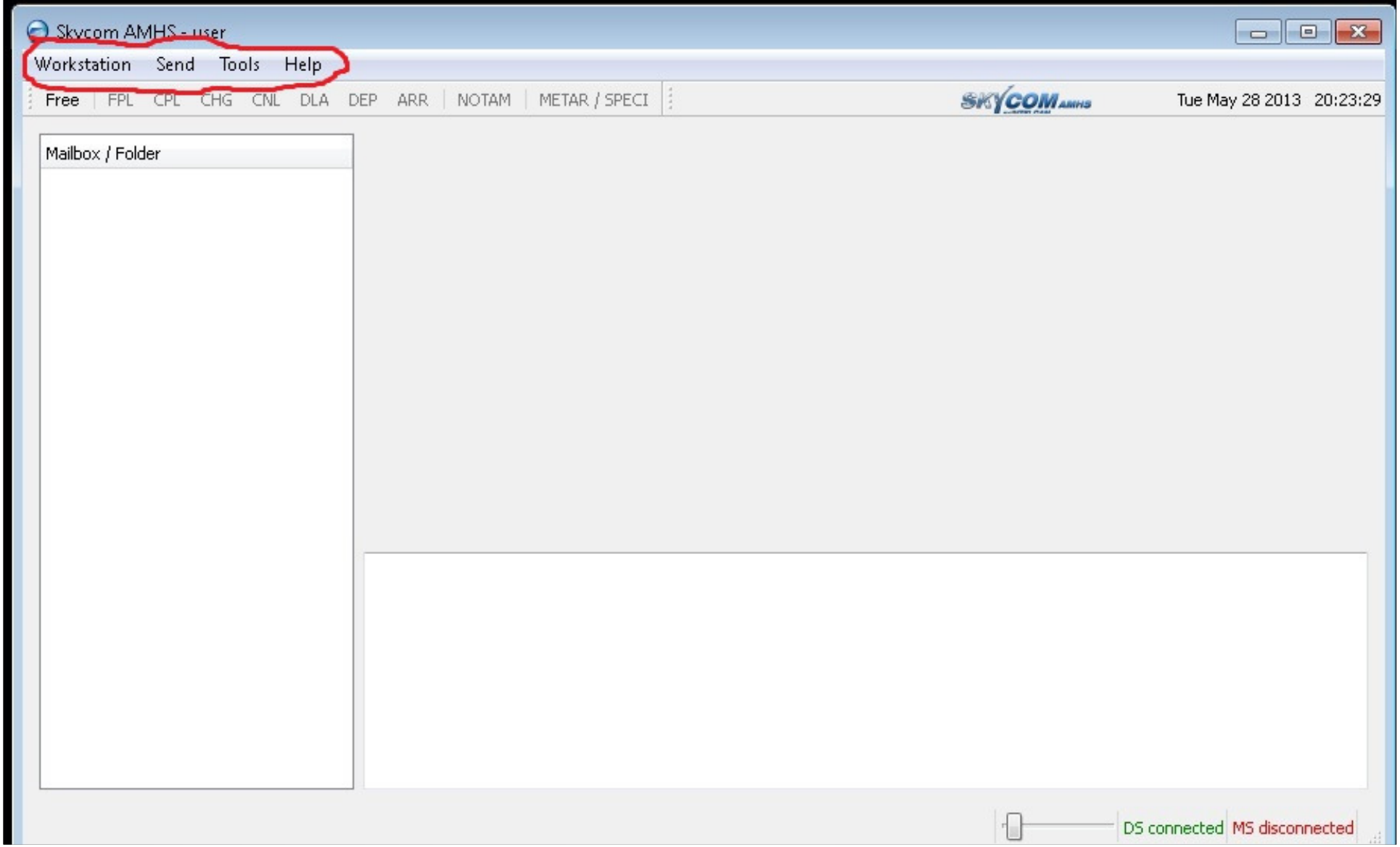
SKYCOM AMHS user agents (Users)



(UA) User

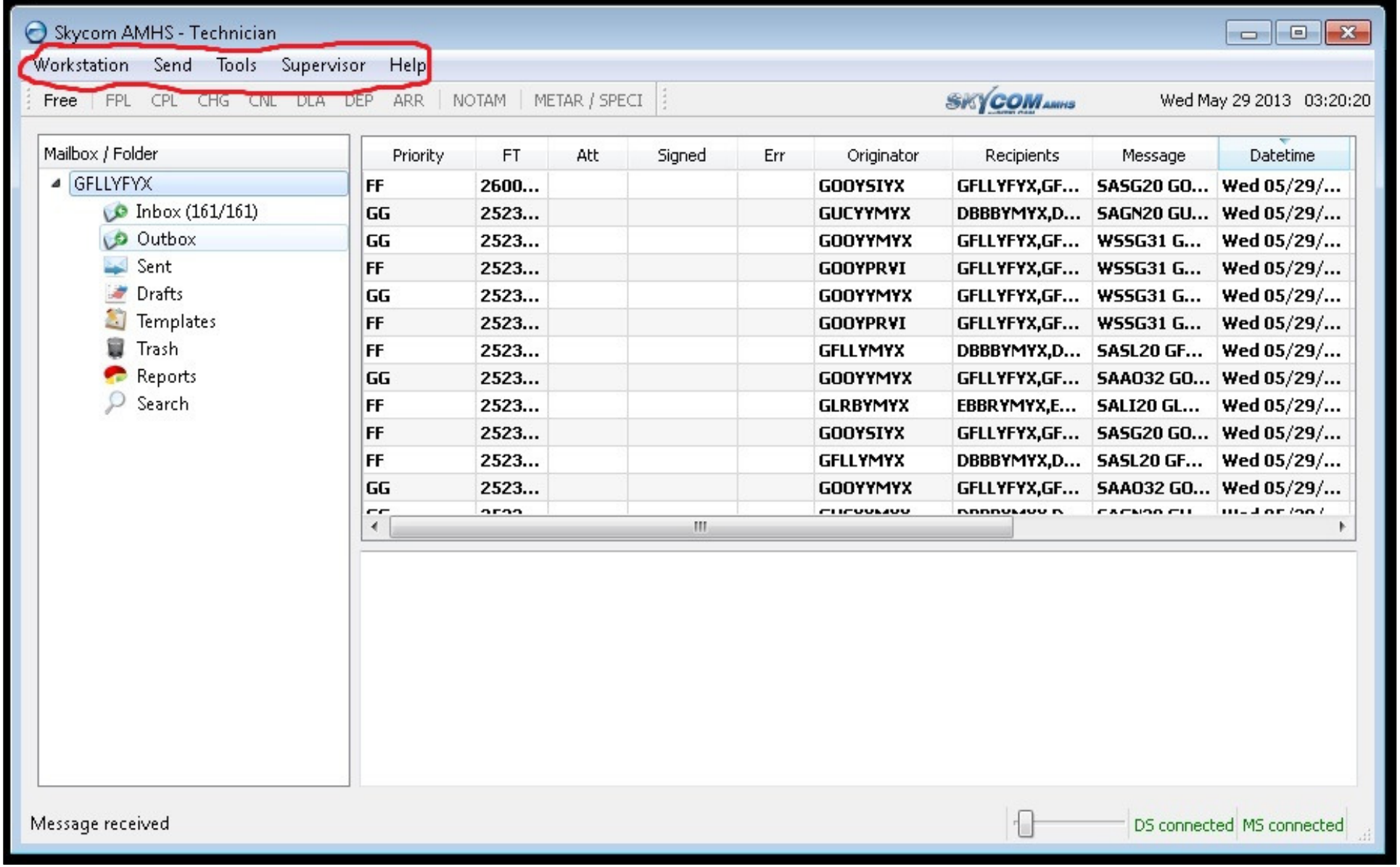
SKYCOM AMHS
BY INTELCAN
Flight Plan
Wet
Not AM
Username
user
Password
Login
Quit

UA (User) Graphical User Interface

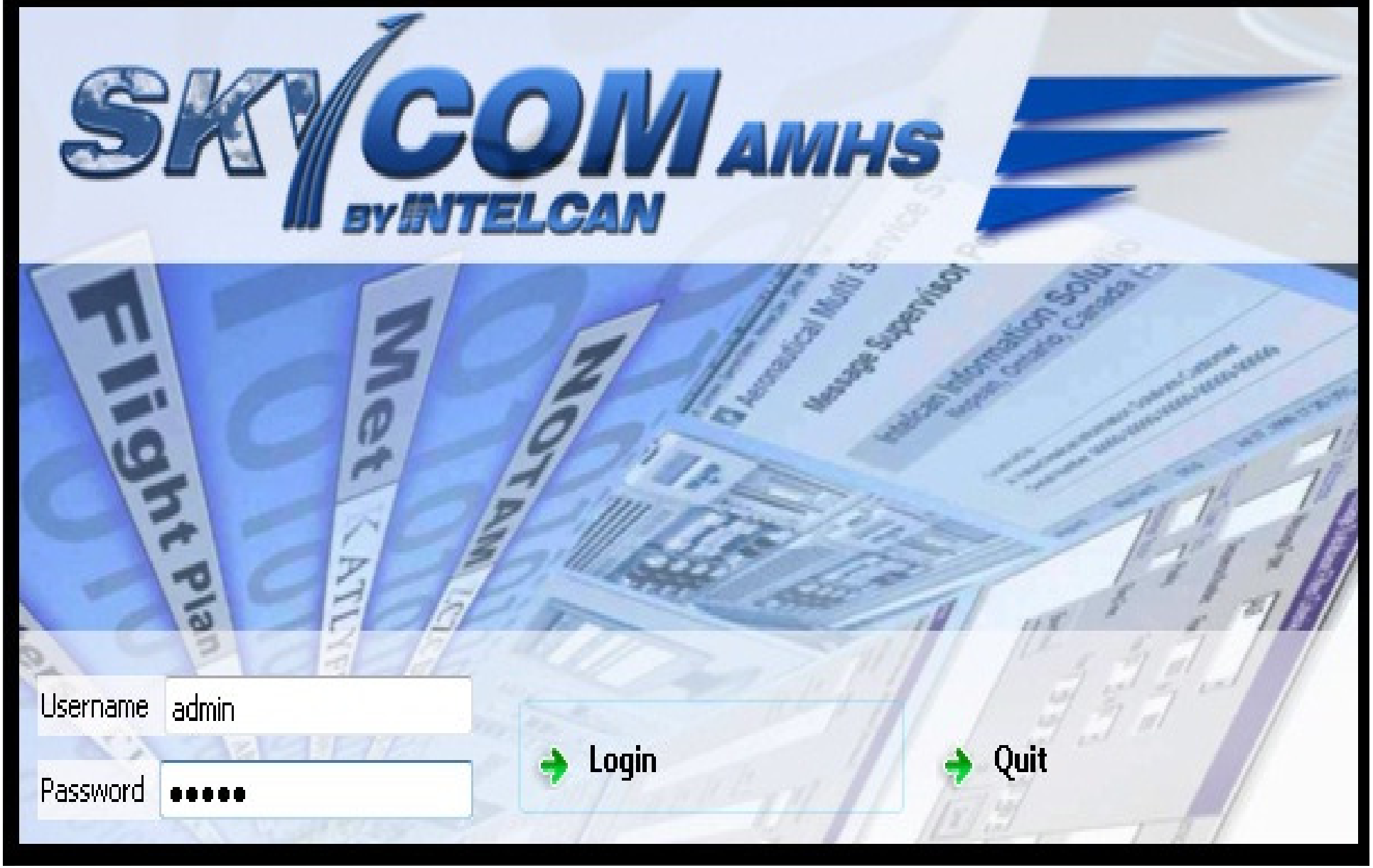


DUA (supervisor)

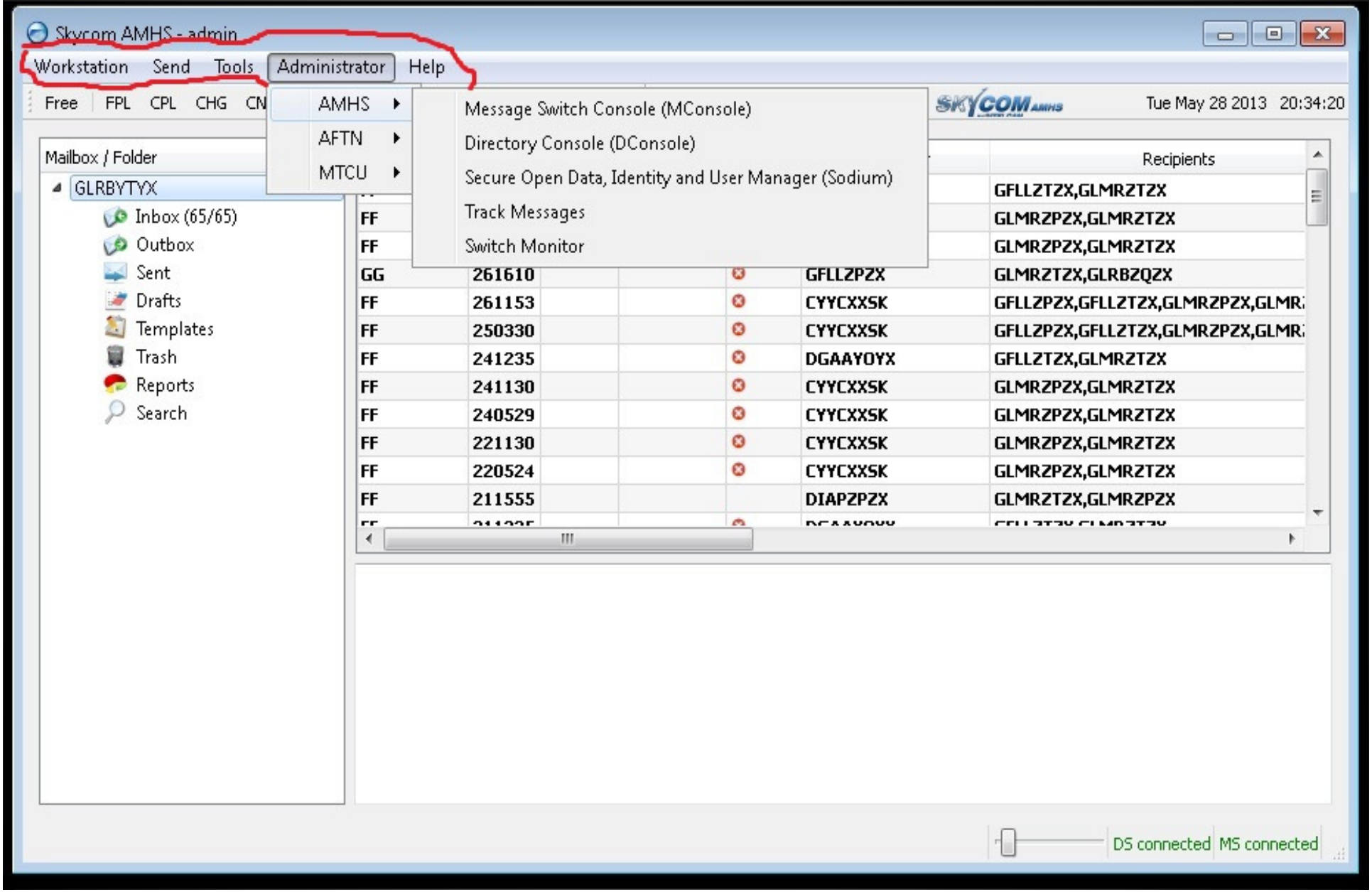
DUA (supervisor) Graphical user interface



ADUA (System administrator)



ADUA (System administrator) GUI



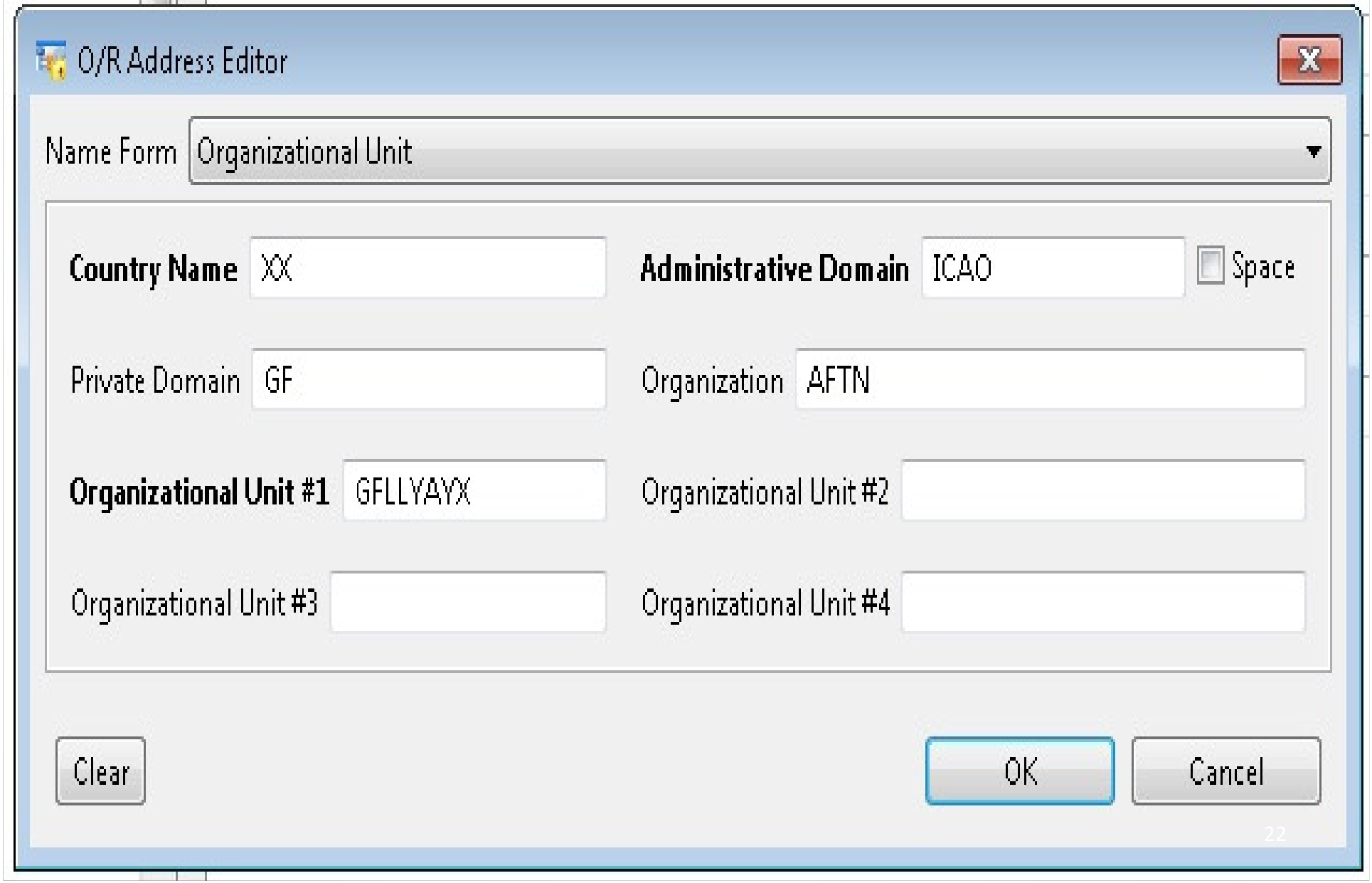
SKYCOM AMHS Addressing

SKYCOM AMHS uses two types of addressing

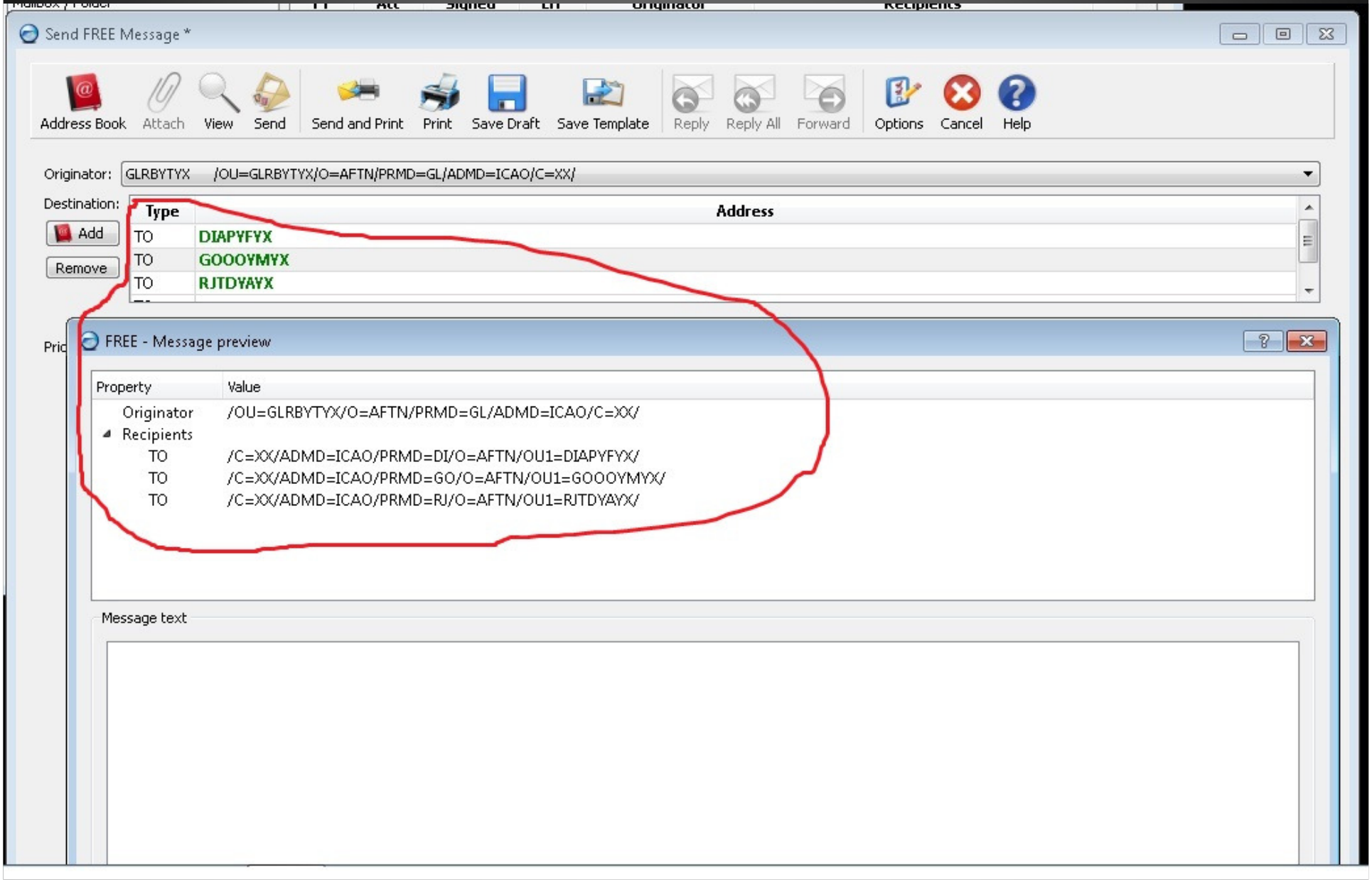
1. Common AMHS Addressing Schemas (CAAS)
2. XF

Roberts FIR is using the XF addressing

XF Addressing



Converting AFTN addresses to XF



Example of AFTN address conversion to CAAS

AFTN

GUCYYPYX

XF

/C=XX/ADMD=ICAO/PRMD=GU/O=AFTN/OU1=GUCYYPYX

End

Thank you