Aeronautical telecommunication network in Mongolia

Civil Aviation Authority of Mongolia

Agenda

Phases for ATN implementation
Mongolia
Current system
Future plan

Phases for ATN implementation Mongolia

- 1. Study and Research until end 2010
- 2. Upgrade existing system and network

  \2005 to 2013\
- 3. Implementation phase 2011-2013

Current AFTN system in Mongolia

18 domestics airport is equipped by AFTN terminals

2 circuits to neighborhood countries. 1 circuit go to Russia via Fiber optic link and VSAT channel. 1 circuit goes to China via VSAT channel and Fiber optic link.

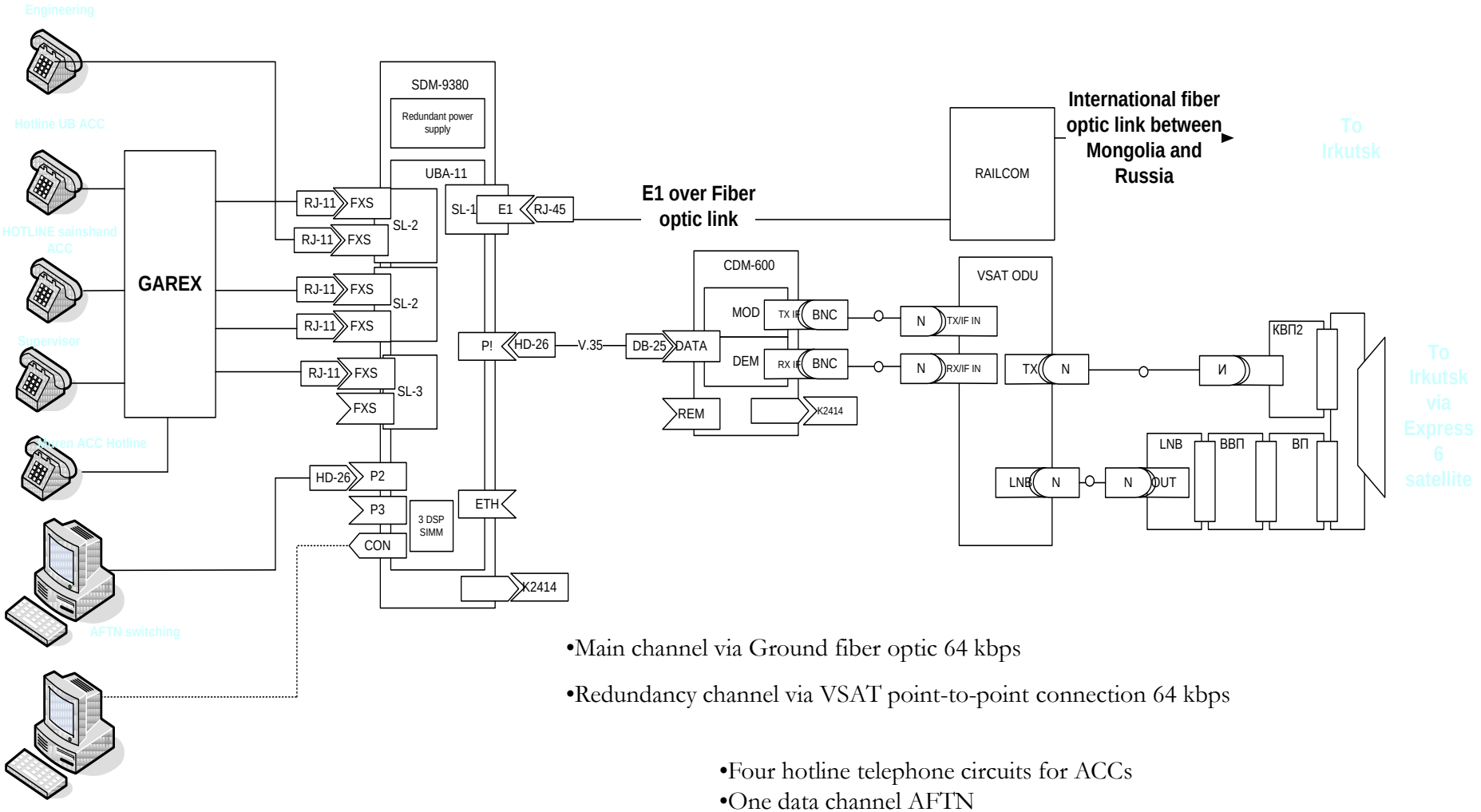
Transmission media to domestic airports

Via VSAT network
X.25 encapsulation over Frame relay
9600 bps
Via Fiber optic link
10 domestic airport is connected to Ulaanbaatar via Fiber optic link
64 kbps

Fiber optic link

Mongolian Aeronautical Satellite Communication. VSAT terminals over Mongolia

Current Ground-Ground connection to Russia



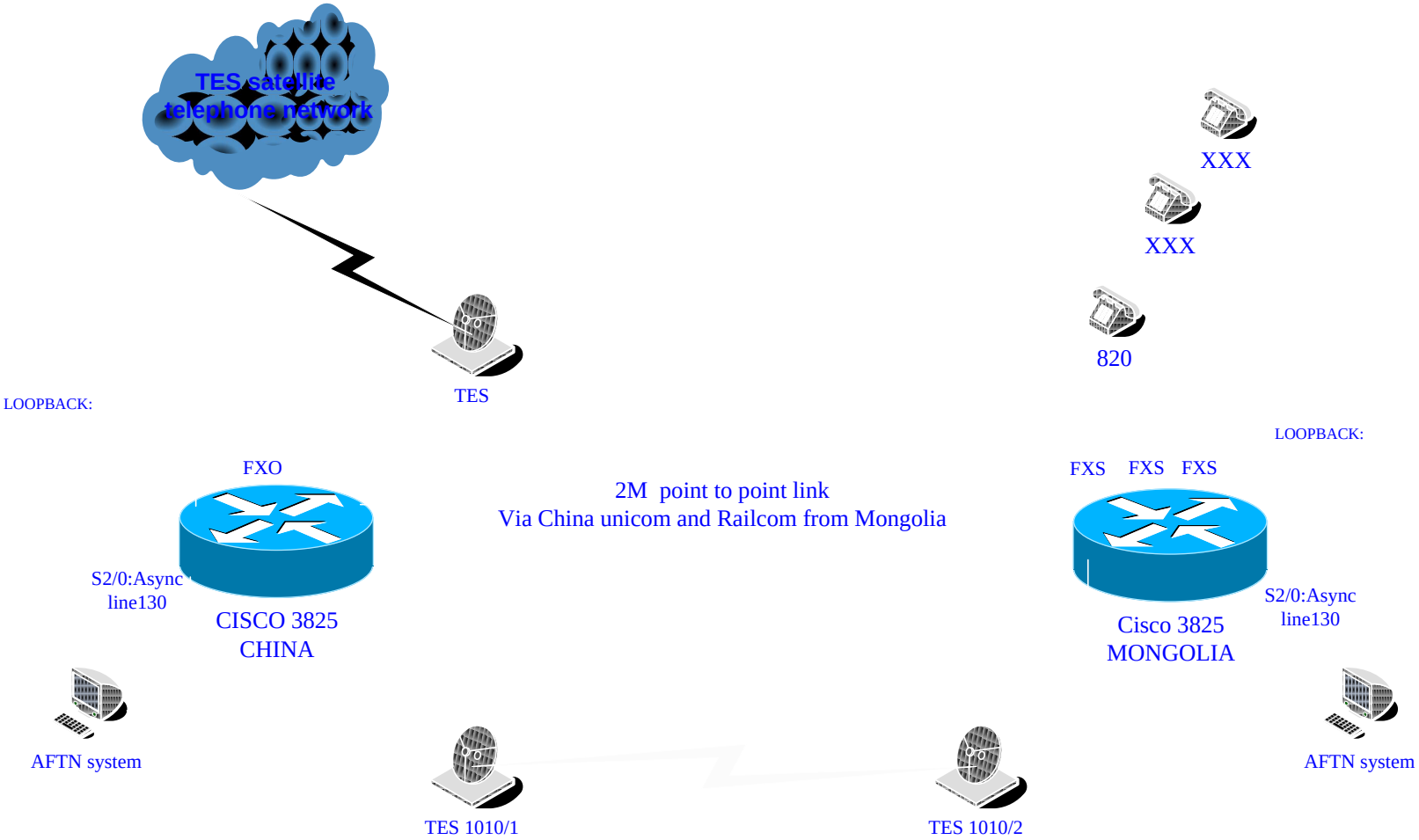
- Main channel via Ground fiber optic 64 kbps
- Redundancy channel via VSAT point-to-point connection 64 kbps

- Four hotline telephone circuits for ACCs
- One data channel AFTN

Upgrade existing system network

2007. MCAA have replaced existing AFTN switch.
Landline to Russia is replaced by high speed fiber optic link in 2006.
Improved existing ground-ground network within Mongolia
New landline circuit to implemented in 2010 via Fiber link.

Communication links between Ulaanbaatar, Mongolia and Beijing, China



AMHS Trial and Implementation phase

Contract Signed – 2011
FAT – in end of 2011
AMHS gateway to be installed in first Q 2012.
SAT – after installation
Trial with adjacent countries in 2012
AMHS Implementation scheduled in 2011 -2013

What we need to do

To begin technical cooperation with China for:
AMHS
AIDC
To make Technical solution over existing ground high speed line
To determine target date of star of technical test connection between AMHS and AIDC