



International Civil Aviation Organization

AMHS WORKSHOP

# REGIONAL WORKSHOP ON AMHS

## Overview

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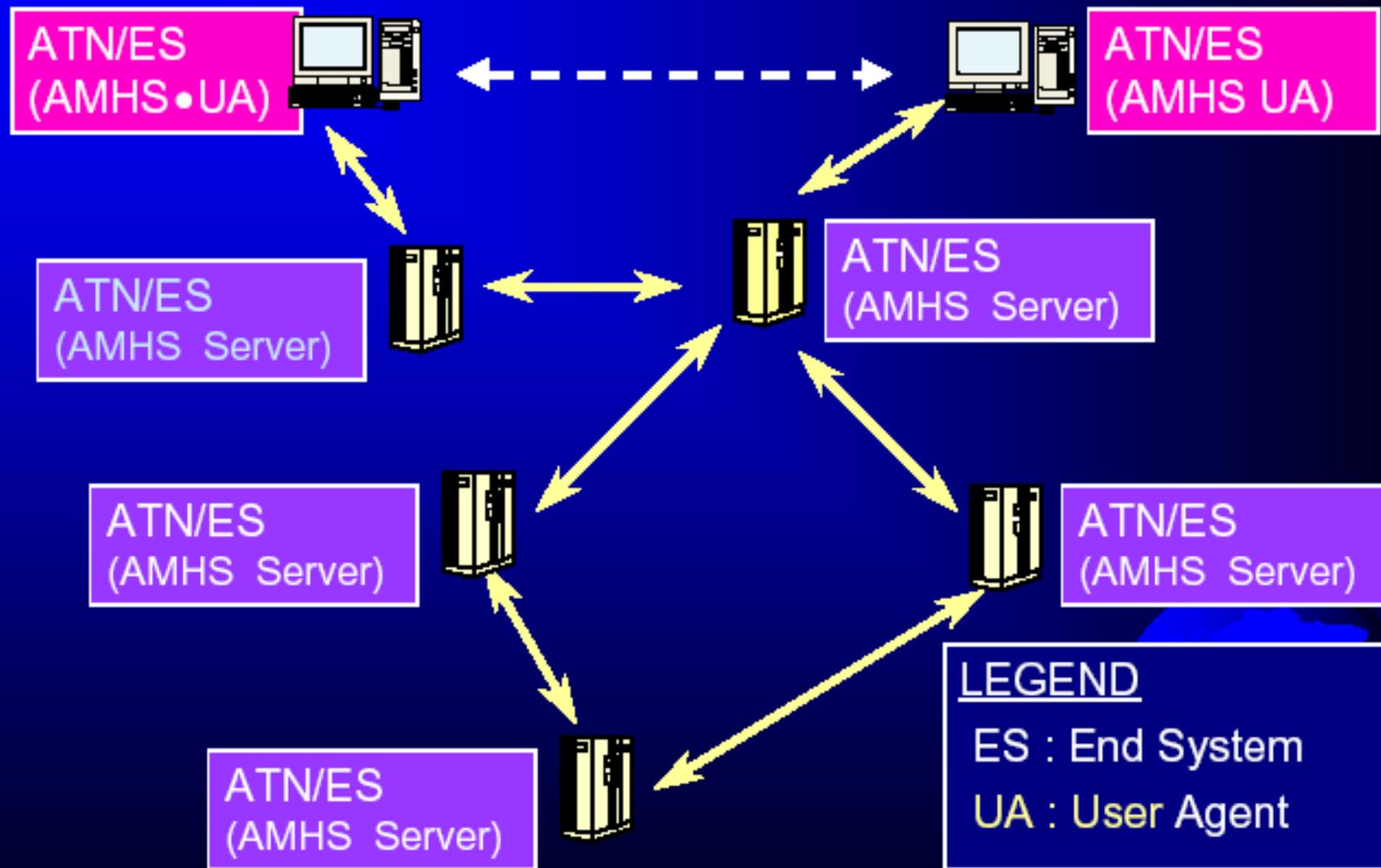
**(Dakar, 28-29 May 2013)**



# Outline

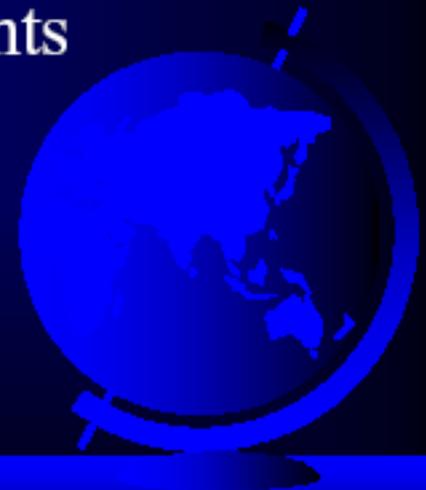
- ✈ AMHS Servers and User Agents
- ✈ AMHS Requirements
- ✈ AFTN Service to ATN Service
- ✈ AFTN/AMHS Gateway
- ✈ AMHS Messaging

# AMHS Servers & User Agents



## AMHS Standards Basis

- ◆ CCITT/ITU-T X.400 MHS(1992), ISO/IEC 10021 MOTIS (1990)
- ◆ Store-and-forward message delivery
- ◆ Basic Service; Adapted to Aeronautical Environment, especially AFTN Functionality
- ◆ Extended Service; Security, Directory Services, System Management etc. Enhancements

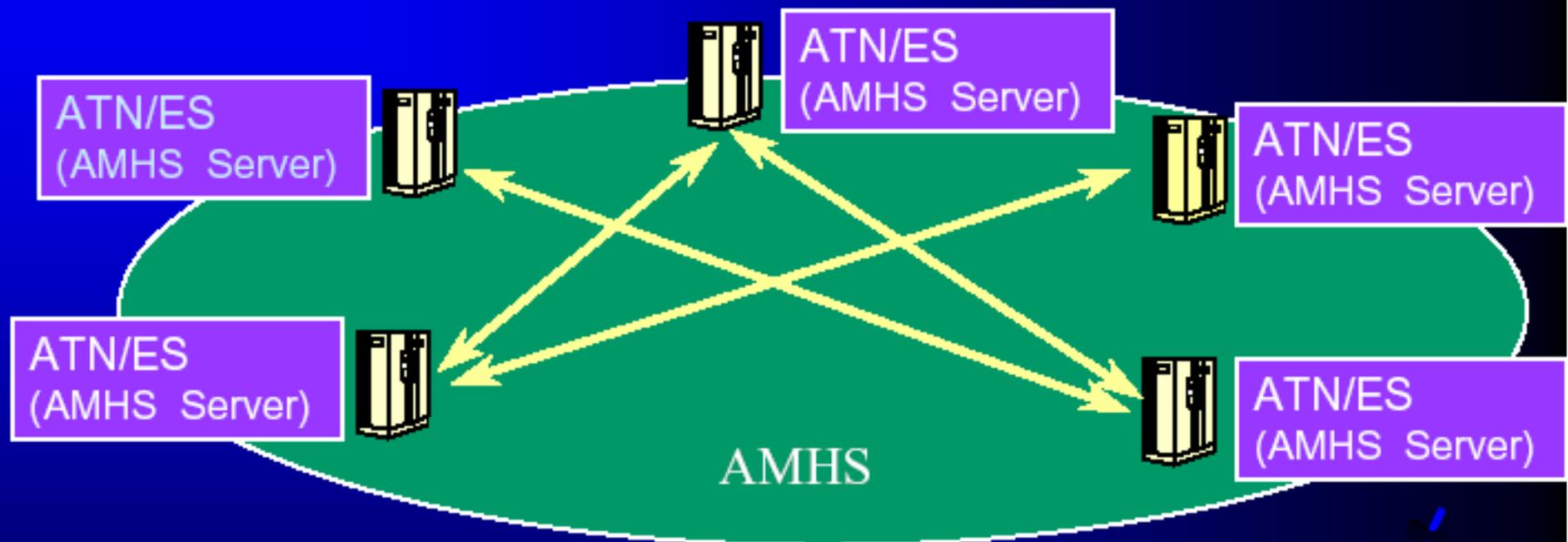


## AMHS Requirements

- ◆ Provide a messaging service over the ATN
  - ◆ Deliver a level of service at least equivalent to the that of the AFTN
  - ◆ Allow transition from AFTN to ATN
    - AMHS users to/from AMHS users
    - AMHS users to/from AFTN users
    - AFTN users to/from AFTN users via ATN
- ➡ Gateway between AMHS and AFTN



# Messaging among Servers

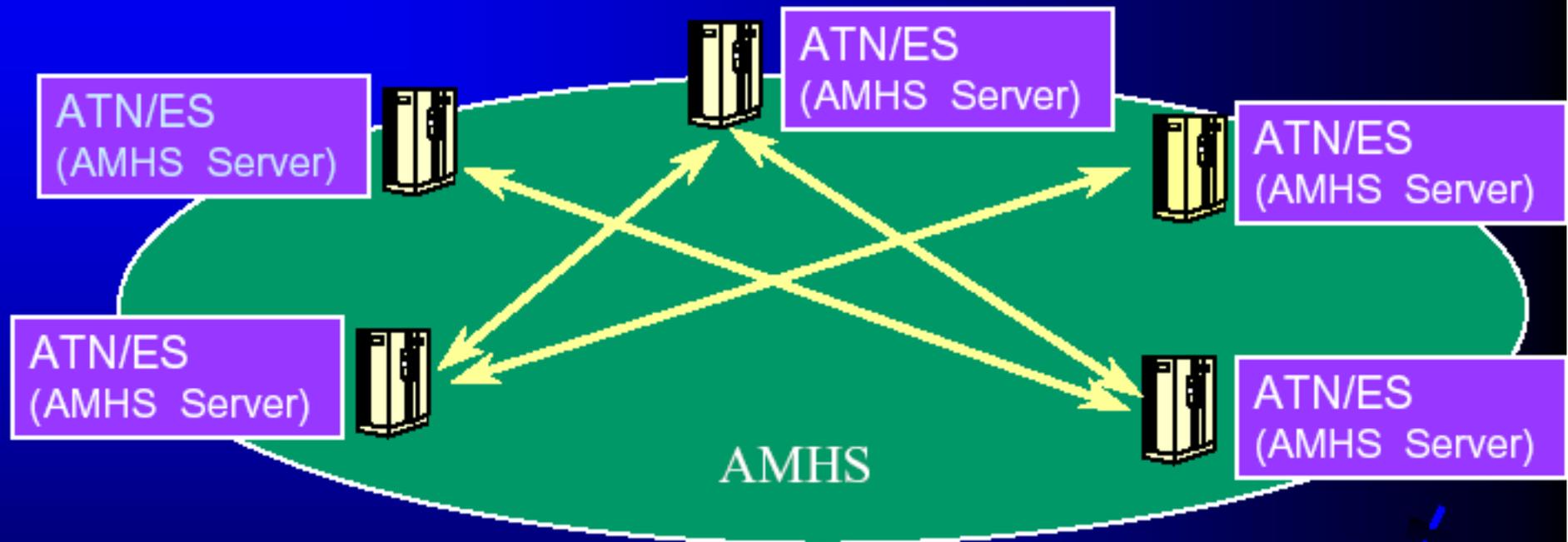


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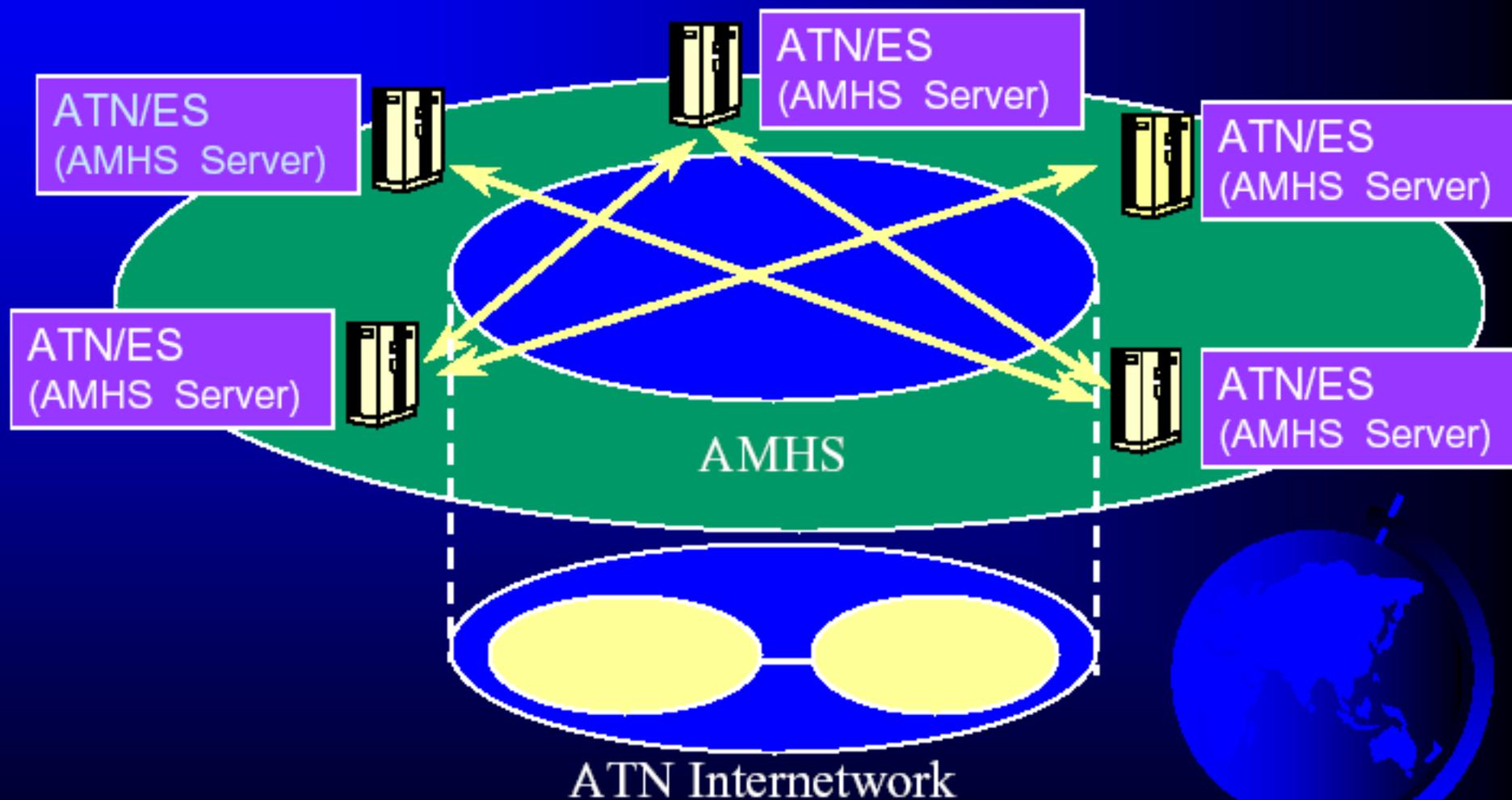
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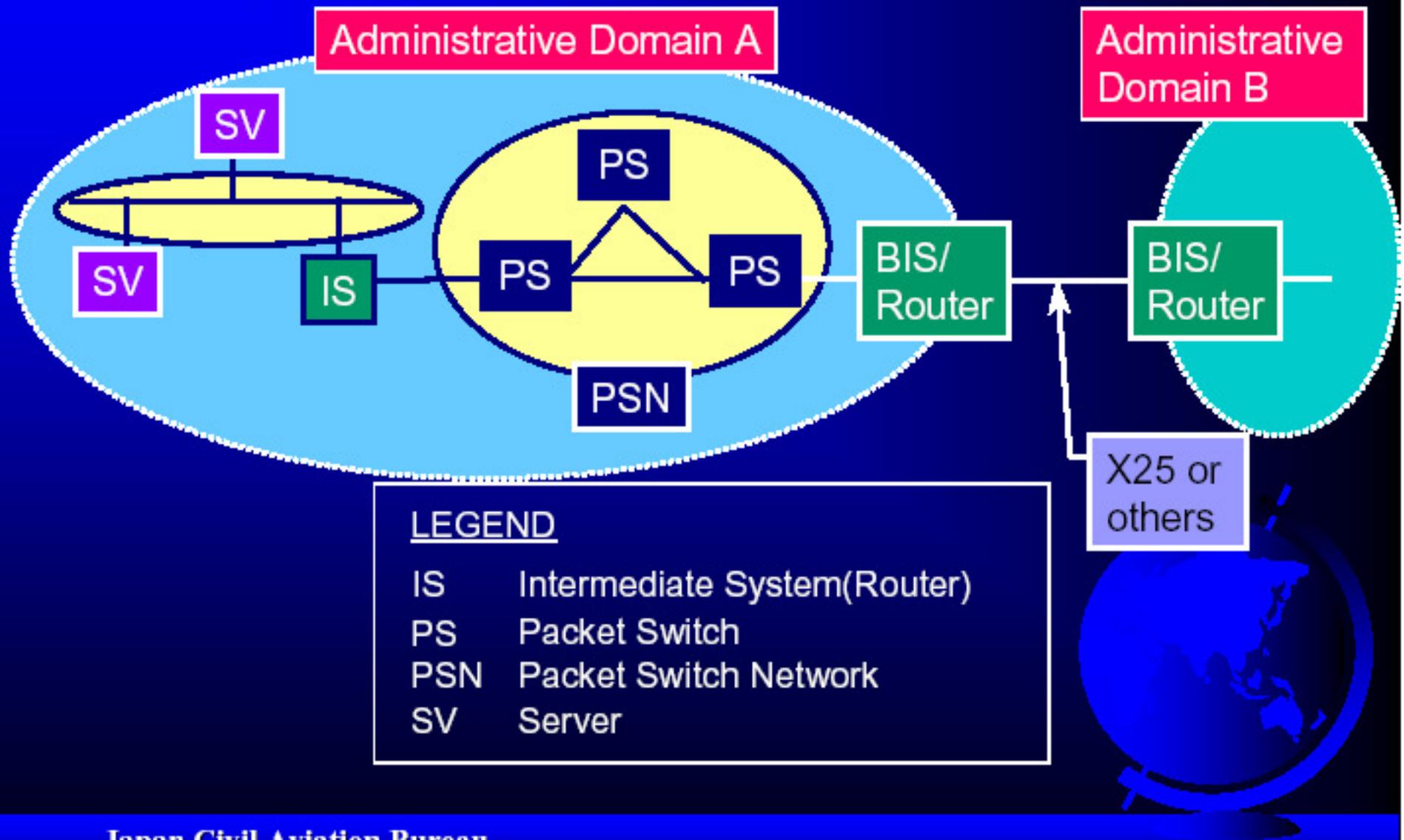
# Messaging among Servers



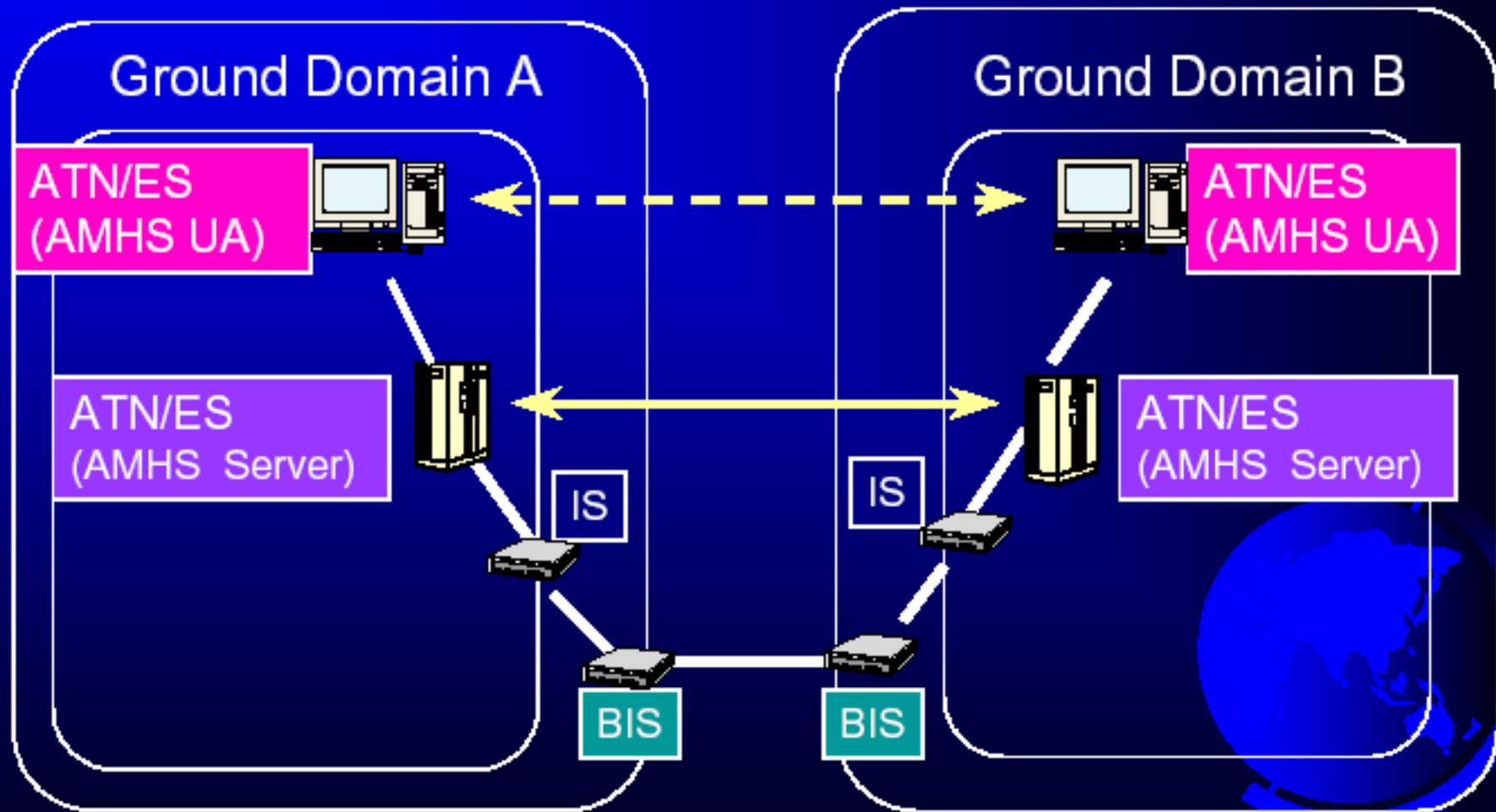
# AMHS and ATN Internetwork



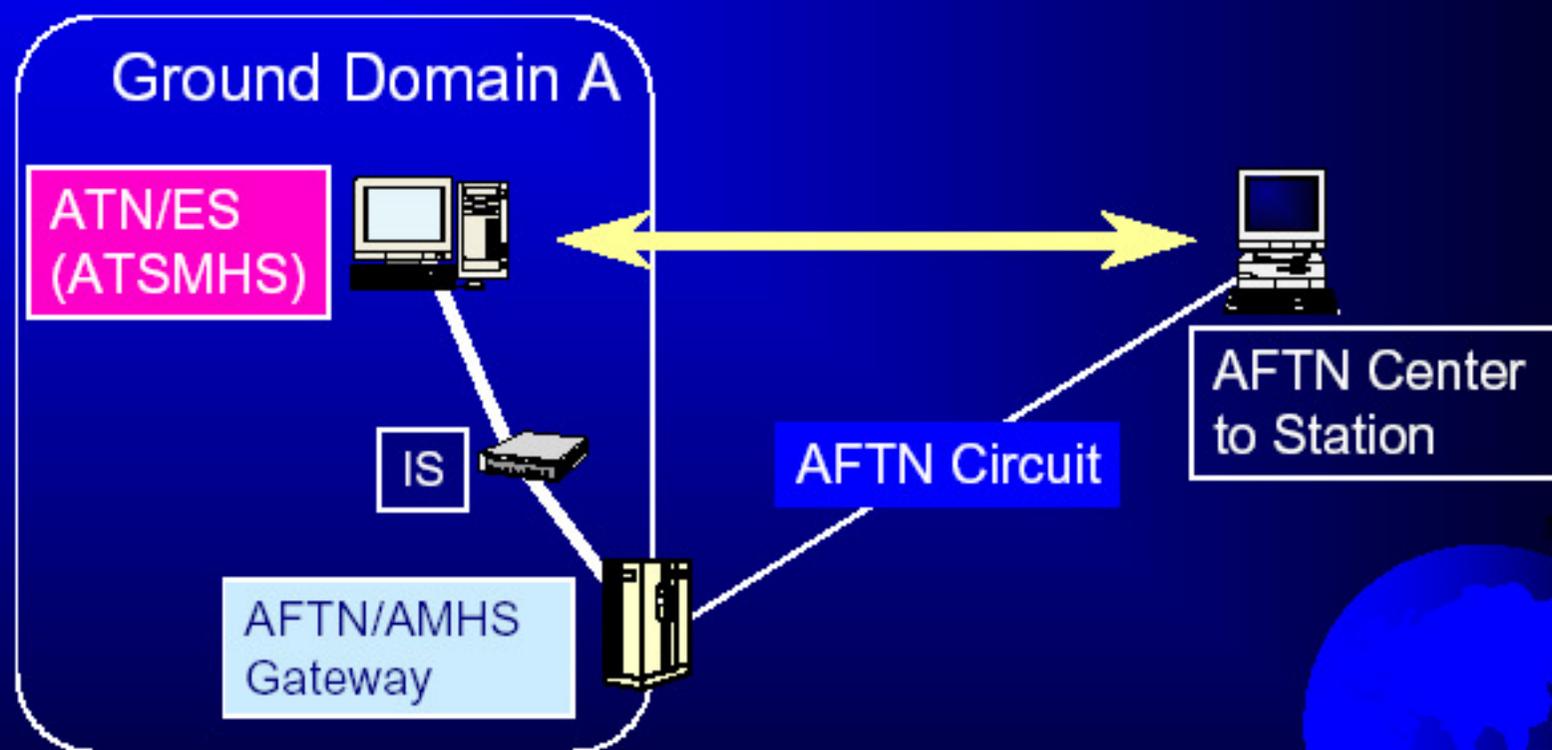
# Inter-Domain Connection



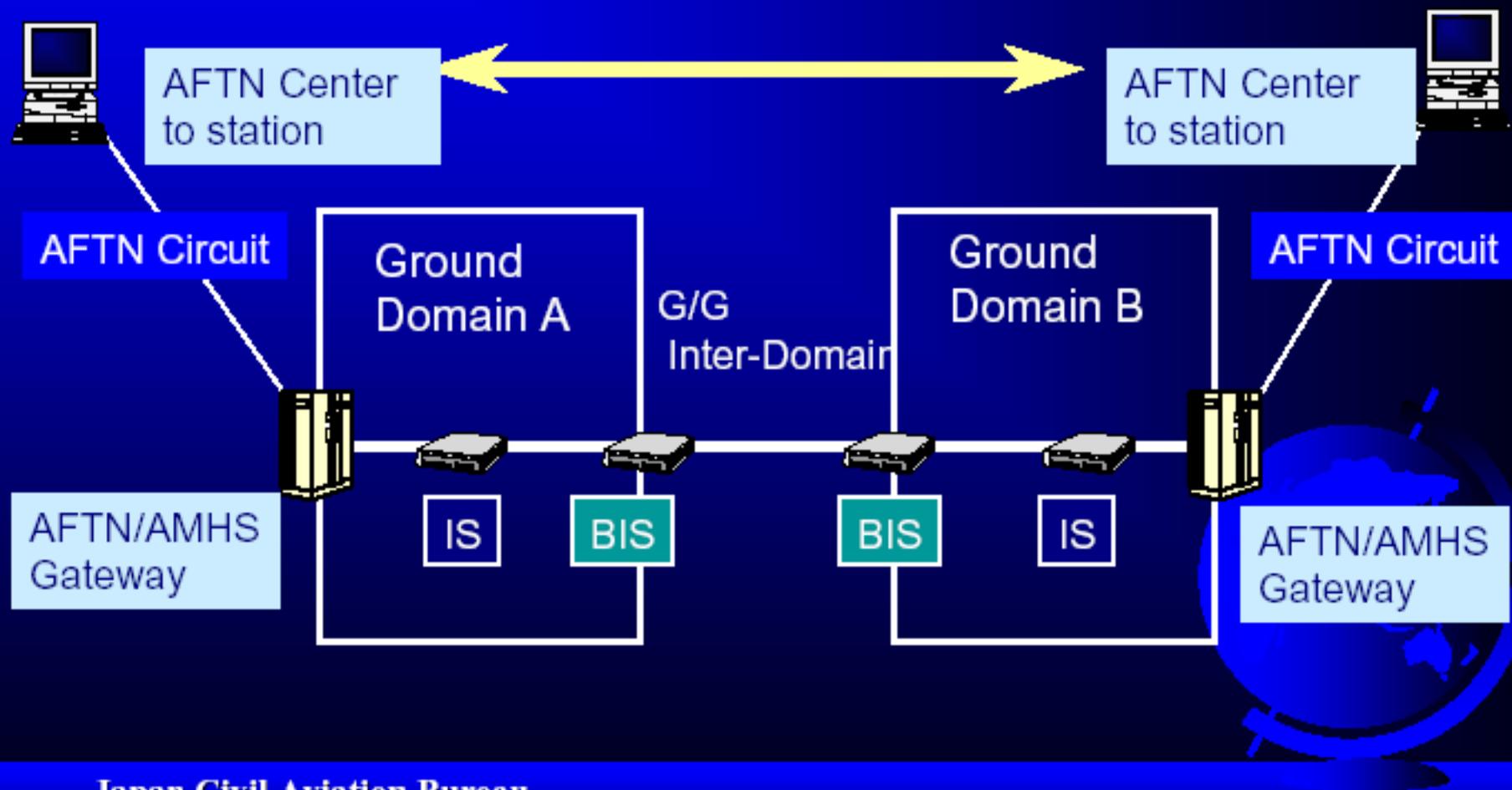
# AMHS User-to-AMHS User



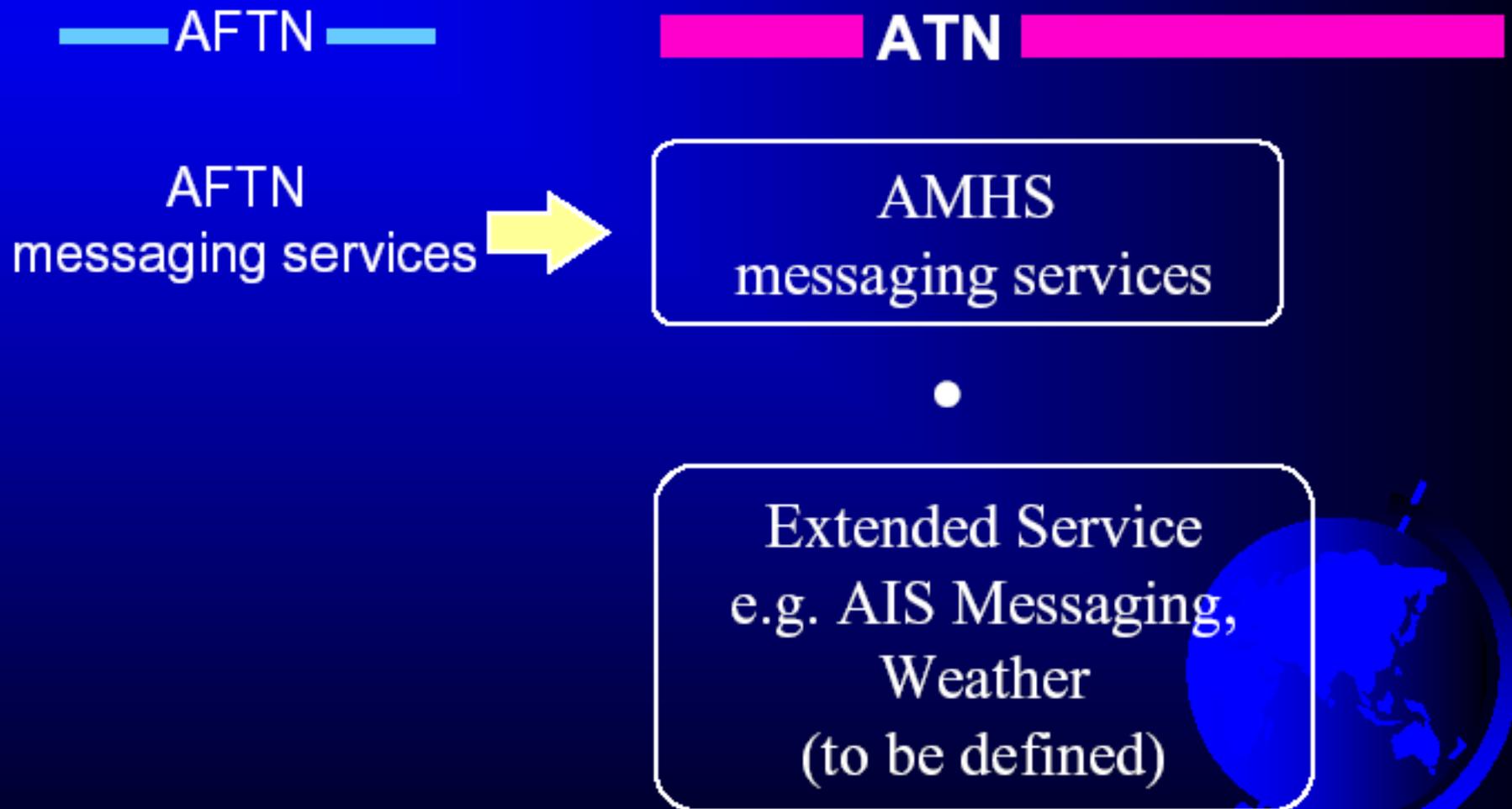
# AMHS User-to-AFTN User via AFTN/AMHS Gateway



# AFTN User-to- AFTN User via AFTN/AMHS Gateway and ATN Domains



# AFTN Service to ATN/AMHS Service

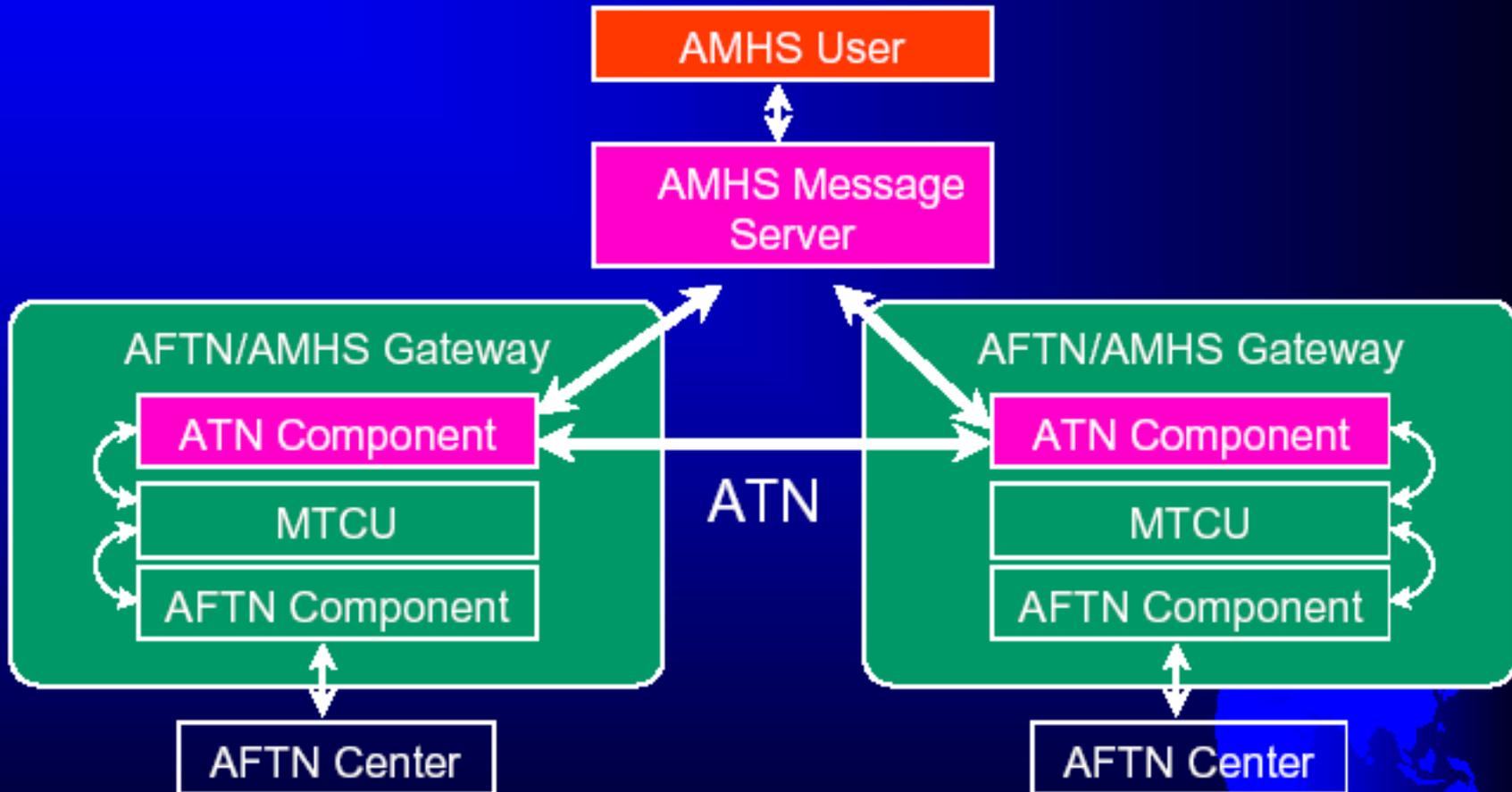


## AFTN/AMHS Gateway

- ◆ Allow Transition from AFTN to ATN
- ◆ AFTN and ATN/AMHS co-existence
- ◆ AFTN/AMHS gateway : AFTN messages are converted to ATSMHS messages, or vice versa. It provides inter-working between AFTN and ATN at the message level.

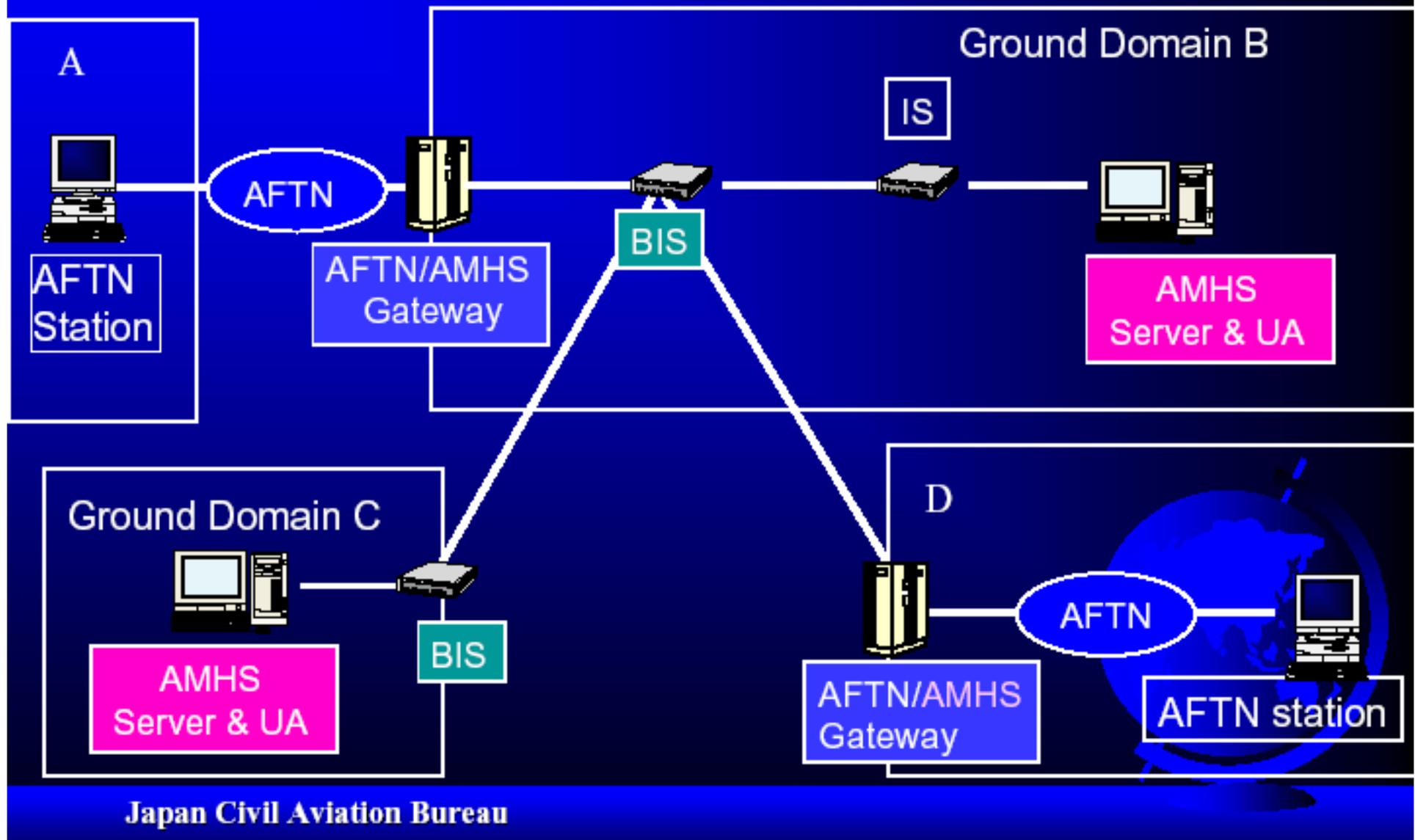


## AFTN/AMHS Gateways (continued)

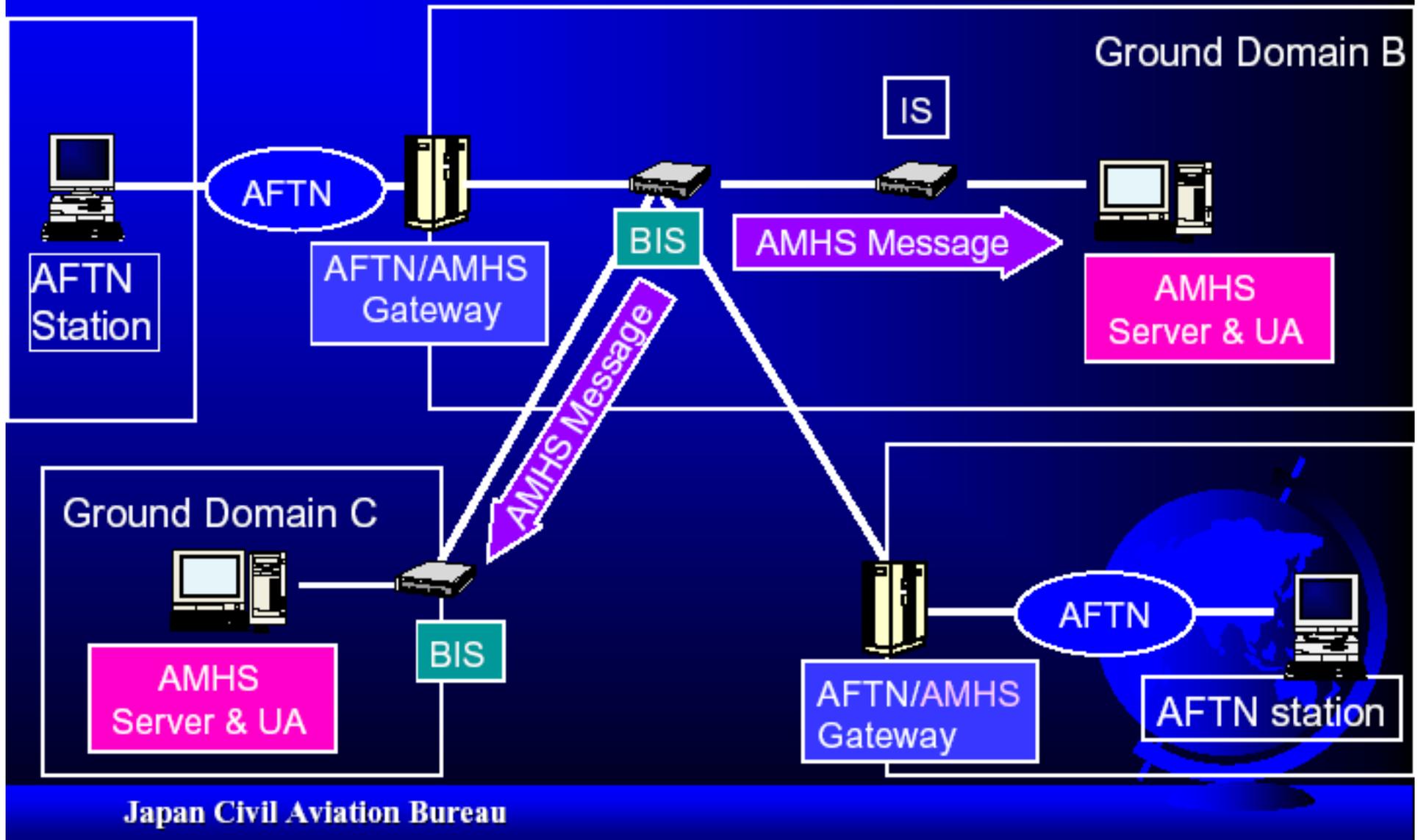


**MTCU: Message Transfer Control Unit**

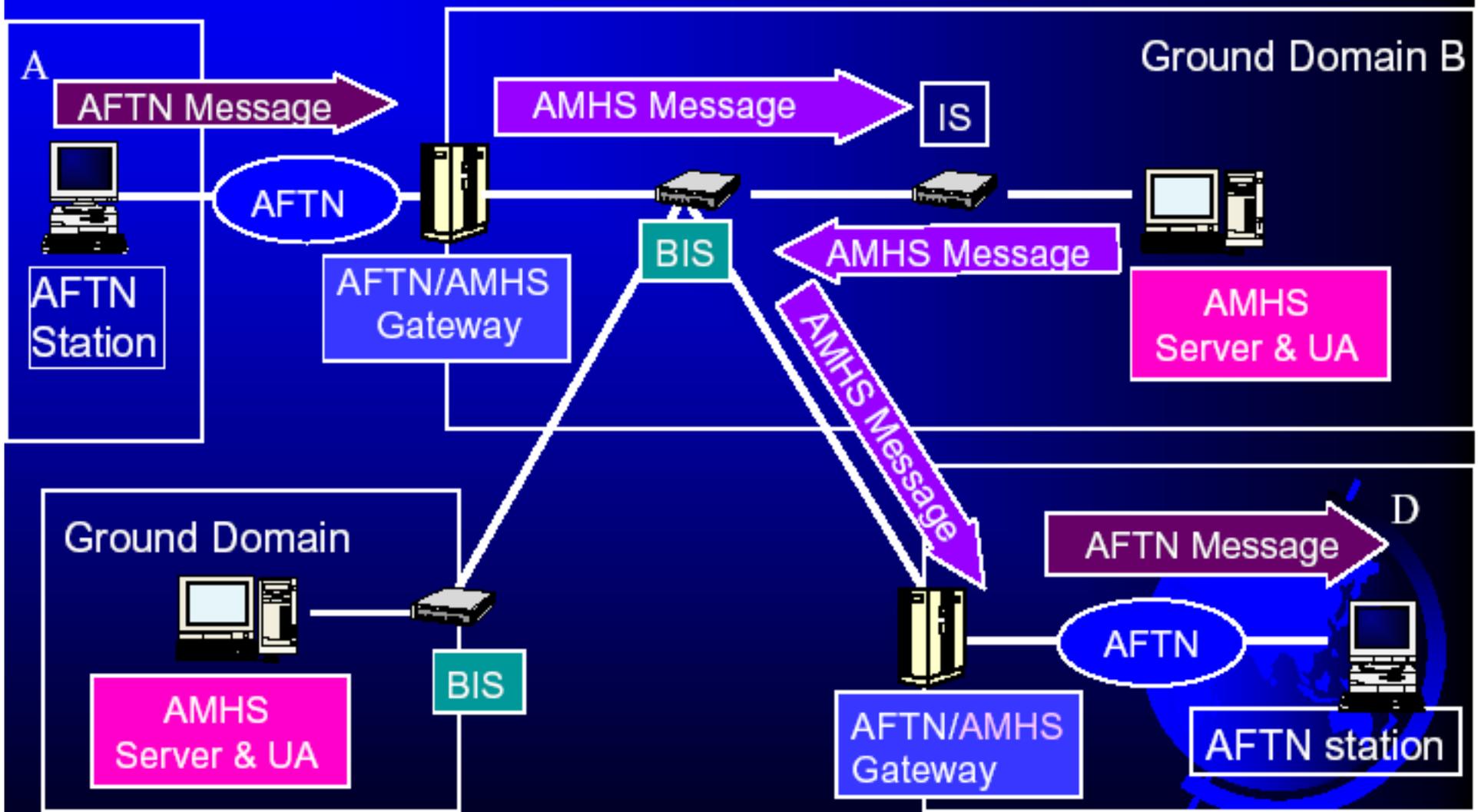
# Some Examples of AMHS Messaging



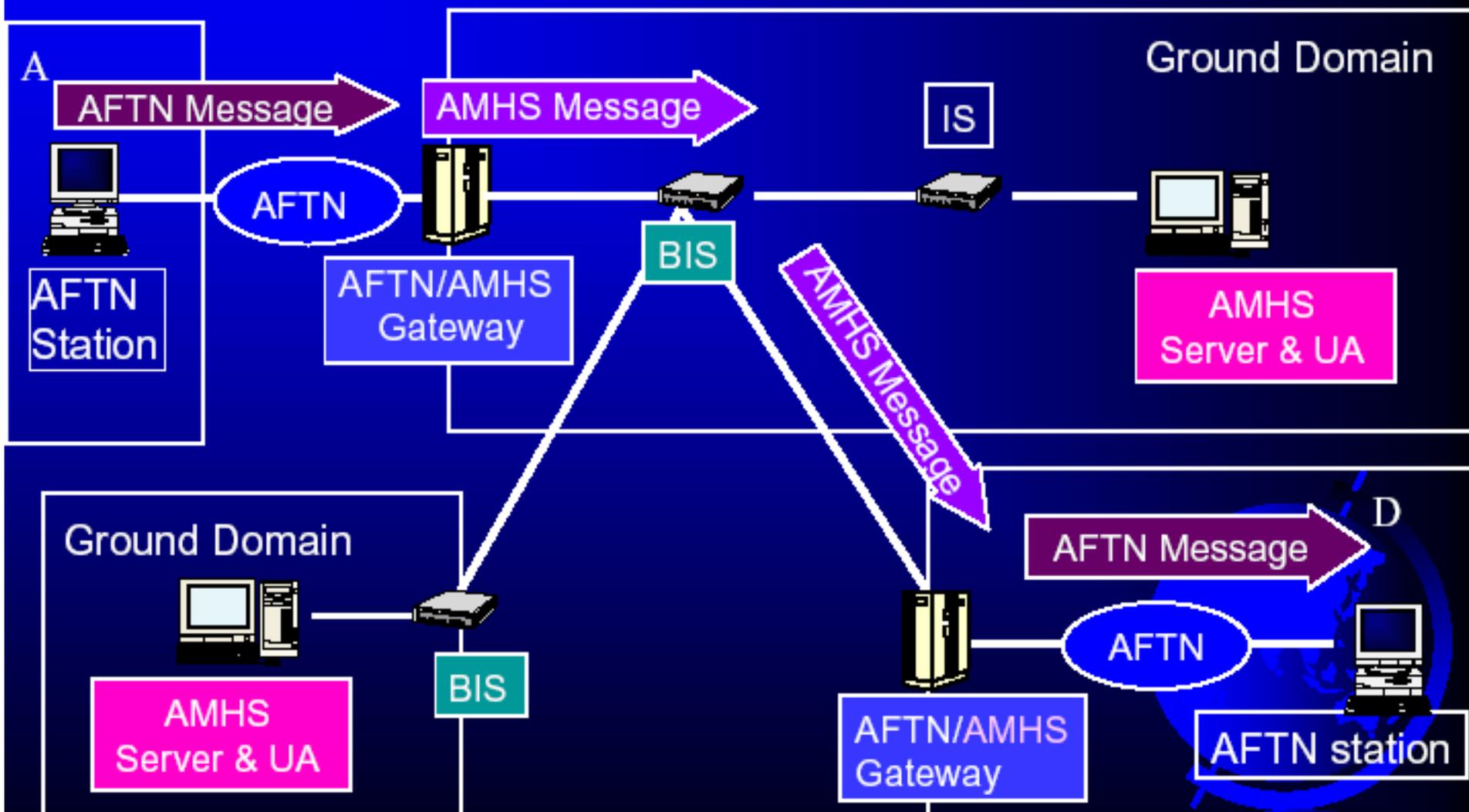
# AMHS User-to-AMHS User



# AMHS User-to-AFTN User



# AFTN User-to-AFTN User





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# Questions?



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Thank you