



## Background Information on AMHS Standards

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### **Fifth Meeting of the Aeronautical Telecommunication Network (ATN) Implementation Co-ordination Group (ATNICG/5)**

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**Agenda Item 11: Review ATN/AMHS Implementation related regional  
guidance material**



## AMHS Base Standards

- 1984
  - First version published by CCITT, now ITU-T
  - Set of Recommendations: X.400, X.402, X.411, ... X.420
  
- 1988
  - Published by ITU-T and ISO
  - ISO/IEC 10021
  - Introduced extension mechanism
    - common-name
    - directory-name
    - general-text and file transfer body parts
  - Not fully backward compatible with 1984 version



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## ICAO Documentation

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- ICAO Doc 9705
  - The ATN Standards and Recommended Practices (SARPs)
  - Three editions
  - Refers to ISO/IEC 10021:1988 set of standards of Basic ATSMHS
  
- ICAO Doc 9880
  - ATN Technical Specifications
  - OSI related parts
  - Expected to supersede ICAO Doc 9705



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## The ATN SARPs, 2nd Edition

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- Published in 1999
- Does not explicitly refer to a version (1984 or 1988)
- Submission could be restricted to elements from 1984
- Reception mandates for support of 1988
  - General text body part



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## The ATN SARPs, 3rd Edition

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- Published in 2002
  - Superseded 2nd Edition
  
- Major changes
  - CIDIN/AMHS Gateway,
  - Specification for Extended ATSMHS
  - Addressing Schemes
  - ...
  
- Introduction of CAAS



## Addressing Schemes: XF and CAAS

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- Addressing Elements
  - XF: C, A, P, O, OU1
  - CAAS: C, A, P, O, OU1, CN (1988)
  
- AMHS Addresses of an MD follows either scheme
  - No conversion between formats
  
- Addresses in
  - Envelope
  - Content (IPM Heading)
  
- ASIA/PAC Region recommends to States to implement CAAS
- Every ATN End System in the AMHS has to support XF and CAAS



# CAAS

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- CAAS makes use of X.400 attribute common-name
  - Introduced in 1988
- Implicit request for 1988 format
  - 3rd Edition is not fully backward compatible to 2ndEdition
  - 1984 was not explicitly excluded
  - Use of IPM84 is no longer possible
- Inconsistency resolved
  - PDR M6080001: Phasing out of IPM 1984



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## ASIA/PAC Regional Documentation

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- Reference to 2nd Edition
  - 513 - AMHS ICD
  
- Reference to 3rd Edition
  - 511 - ASIA/PAC AMHS MTA Routing Policy
  - 512 - ASIA/PAC AMHS Naming Plan
  - 522 - ASIA/PAC AMHS Manual