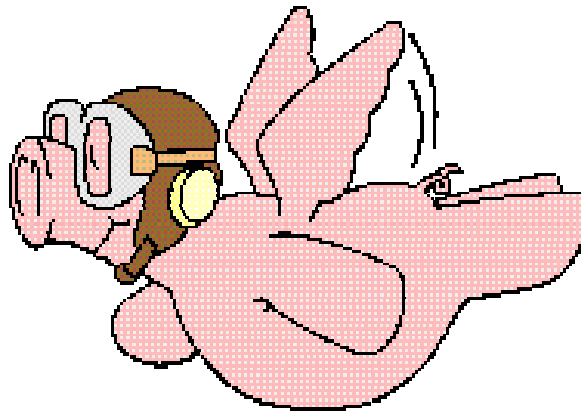


The ATN SARPs



Subvolume Nine

ATN Registration (Reg)

Third Edition (Final Editor's Draft)

Please note that this is the final editor's draft of the "Manual of Technical Provisions for the Aeronautical Telecommunication Network (ATN) – ICAO DOC 9705/AN956 - as circulated within the ATNP. This text will be passed to ICAO for publication. However, it should be noted that this text in no way replaces the ICAO version, nor can it be considered to be of equal status. The official definitive version is that published in hardcopy by ICAO and all claims of compliance must be made against that version.

Errata and Disclaimer

Please note that this document has been prepared from a number of separate files and no attempt has been made to ensure continuity of page numbers. You may therefore find some overlap between page numbers.

This document has been prepared on a “best efforts” basis and no warrantee is offered as to its correctness.

FOREWORD

The material contained in this document was originally developed as the detailed part of the first set of Standards and Recommended Practices (SARPs) for the aeronautical telecommunication network (ATN) which has commonly been referred to as the CNS/ATM-1 Package. It was intended to make the material an appendix to the new Chapter 3 of Annex 10, Volume III, Part I, containing broad, general, stable and mostly regulatory-type provisions (the core part of new ATN SARPs).

In December 1997, the Air Navigation Commission (ANC), while conducting the final review of draft ATN SARPs, agreed that the detailed part of ATN SARPs should be published as an ICAO manual (to be updated annually, if necessary), while retaining its SARPs-style language. The ANC has reviewed the status of the document in light of continuing worldwide ATN implementation. The Third Edition includes amendments from implementors and regulatory authorities, as well as four new Sub-Volumes to answer requirements for further standardization, in the interests of safety, regularity and efficiency of international civil aviation.

This document consists of nine Sub-Volumes:

- Sub-Volume I — Introduction and System Level Requirements
- Sub-Volume II — Air-Ground Applications
- Sub-Volume III — Ground-Ground Applications
- Sub-Volume IV — Upper Layer Communications Service (ULCS)
- Sub-Volume V — Internet Communications Service (ICS)
- Sub-Volume VI — System Management (SM)
- Sub-Volume VII — Directory Services (DIR)
- Sub-Volume VIII — Security (SEC)
- Sub-Volume IX — Registration (REG)

Provisions contained in Sub-Volumes II, III, IV, V, VI, VII, VIII, and IX have been developed in accordance with system requirements specified in Sub-Volume I.

In line with the agreement by the ANC that the document should be updated on a yearly basis (if deemed necessary), the Third Edition has been published to incorporate changes necessitated by continuing validation and actual implementation activities.

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9. ATN IDENTIFIER REGISTRATION

9.1 INTRODUCTION

9.1.1 The ATN Identifier Registration acts as a central repository for common identifiers used in the ATN. This includes object identifiers (OIDs), application identifiers and other common identifier information.

9.1.2 OIDs are used to name information objects, such as application contexts, abstract syntaxes and ASN.1 modules within an OSI application protocol specification. For the ATN applications, this includes the objects contained in the various Sub-volumes of ICAO Doc 9705-AN/956. In order to ensure that successive applications do not have OID conflicts within the ATN domain, all of the ATN-specific OIDs are specified in this document. Other OIDs which are local to the various Sub-volumes (either OSI standard or ATN defined) are not specified here; they are referenced and/or defined as applicable by the Sub-volume that uses them. OIDs which are used by two or more Sub-volumes may be specified here.

9.1.3 Application identifiers are ATN applications' AE Qualifiers. These are assigned to individual applications as operational needs are identified and the applications themselves are developed.

9.1.4 Additionally, this document will serve as a repository for ATN addresses.

Note.— Structure:

- a) 9.1: *INTRODUCTION* contains the purpose, structure, and a summary of 9.
- b) 9.2: *SUB-VOLUME IDENTIFIERS* describes the names and hierarchies used by the ATN entities.
- c) 9.3: *ATN ADDRESS REGISTRATION* contains a list of published ATN addresses, which includes but is not limited to regional and/or national Context Management (CM) addresses.

9.2 SUB-VOLUME IDENTIFIERS

9.2.1 Application Level Naming and Context Definition

9.2.1.1 ATN Naming Hierarchy

Note 1.— Names, in the form of object identifiers (OIDs), are assigned here to the defined ATN entities.

Note 2.— ISO/IEC 9834-1 | ITU-T Rec. X.660 Amd. 2 specifies the top of the hierarchical OID name space. At the first level, provision is made for ISO, International Telecommunication Union - Telecommunication Standardisation Sector (ITU-T) and joint ISO/ITU-T sub-name spaces. The ISO name space is further subdivided into:

- a) standard (0)*
- b) registration-authority (1)*
- c) member-body (2)*
- d) identified-organisation (3)*

Note 3.— ICAO has requested and obtained the allocation of an International Code Designator (ICD), according to ISO 6523. The ICD obtained, name and number “icao (27)”, uniquely identifies ICAO and allows ICAO to establish its own object identifier name space within the International Organisation arc using the prefix: { iso (1) identified-organisation (3) icao (27) }.

9.2.1.1.1 Within the ICAO name space, the initial allocation of object identifiers shall follow the structure and values defined here.

Note 1.— In the future, it is likely that the ATN object identifier tree will have further levels of structure, and that fully location-independent values will be assigned.

Note 2.— The ATN naming hierarchy is illustrated in Figure 9-1.

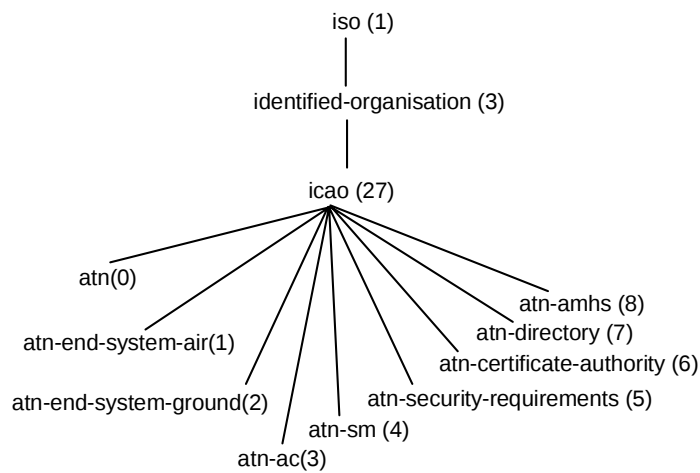


Figure 9-1. ATN Naming Hierarchy

9.2.1.1.2 Immediately under the ICAO arc, the values specified in Table 9-1 shall be used to specify the next level of the naming hierarchy.

Table 9-1. Top-level ICAO Identifiers

<i>Name and numeric value</i>	<i>Description</i>
atn (0)	General ATN identifiers
atn-end-system-air (1)	ATN aircraft end systems. The subsequent OID components beneath are defined in 4.3
atn-end-system-ground (2)	ATN ground end systems. The subsequent OID components beneath this arc are defined in 4.3
atn-ac (3)	ATN application context names. The subsequent OID components beneath this arc are defined in 4.3
atn-sm (4)	ATN system management. The subsequent OID components beneath this arc are defined in 6
atn-security-requirements (5)	ATN security. The subsequent OID components beneath this arc are defined in this sub-volume and in 4.8
atn-certificate-authority (6)	ATN certificate authority. The subsequent OID components beneath this arc are defined in 8
atn-directory (7)	ATN Directory. The subsequent OID components beneath this arc are defined in 7
atn-amhs (8)	ATN AMHS application. The subsequent OID components beneath this arc are defined in 3

9.2.1.2 Application Types

Note.— In the Application Process title (as defined in 4.3) that identifies each ATN application process type, there is an <app-type> element. Table 9-2 will serve as a global register for all standard ATN application types. Additionally, Table 9-2 may be used to identify application types, for example in the Context Management application CM-logon service.

9.2.1.2.1 The app-type arc of the Application Process title object identifier represents the ATN application type (e.g. “ADS” or “CMA”), and shall take one of the values specified in Table 9-2.

Table 9-2. Assigned app-types and values

<i>ATN ASE type</i>	<i>ATN app-type name and numeric value</i>
Automatic Dependent Surveillance	ADS (0)
Context Management Application	CMA (1)
Controller-pilot Data Link Communication	CPC (2)
Automatic Terminal Information Services (ATIS)	ATI (3)
RESERVED	(4)
Systems Management Application (SMA)	SMA (5)
ATS Inter-Facility Data Communications (AIDC)	IDC (6)
ATS Message Application	AMS (7)
AFTN-AMHS Gateway	GWB (8)
ATS Message User Agent	AUA (9)
ADS Report Forwarding	ARF (10)
Aviation Routine Weather Report (METAR)	MET (11)
Generic ATN Communication Service AE (GACS)	GAC (12)
CIDIN-AMHS Gateway	GWC (13)

9.2.1.3 ATN Object Identifiers ASN.1

```
ATNObjectIdentifiers { iso(1) identified-organization(3) icao(27) atn(0)
                        objectIdentifiers(0) }
```

```
DEFINITIONS AUTOMATIC TAGS ::=
BEGIN
```

```
-- EXPORTS everything
```

```
icao-arc                OBJECT IDENTIFIER ::= { iso(1) identified-organization(3)
```

icao(27) }

```
-- Root of the ICAO OBJECT IDENTIFIER space
```

icao-atn OBJECT IDENTIFIER ::= { icao-arc atn(0) }

-- General ATN

icao-atn-end-system-air
OBJECT IDENTIFIER ::= { icao-arc atn-end-system-air(1) }

-- ATN aircraft end system

icao-atn-end-system-ground
OBJECT IDENTIFIER ::= { icao-arc atn-end-system-ground(2) }

-- ATN ground end system

icao-atn-ac	OBJECT IDENTIFIER ::= { icao-arc atn-ac(3) }
-------------	--

-- ATN application context names

OBJECT IDENTIFIER ::= { icao-arc atn-sm(4) }

-- ATN system management

```
icao-atn-security-requirements
    OBJECT IDENTIFIER ::= { icao-arc
                             atn-security-requirements(5) }
```

-- ATN security

```
icao-atn-certificate-authority
OBJECT IDENTIFIER ::= { icao-arc
                        atn-certificate-authority(6) }
```

```
-- ATN certificate authority
```

icao-atn-directory

OBJECT IDENTIFIER ::= { icao-arc atn-directory(7) }

-- ATN Directory

icao-atn-amhs OBJECT IDENTIFIER ::= { icao-arc atn-amhs(8) }

-- ATN AMHS

—

-- ATN security OIDs shared between Sub-volumes IV and VIII

--

secids OBJECT IDENTIFIER ::= { icao-atn-security-requirements }

-- Categories of information object --

modules OBJECT IDENTIFIER ::= { secids 1 }

-- Security ASN.1 modules in Sub-volume IV --

securityExchanges OBJECT IDENTIFIER ::= { modules 1 }

abstractSyntax OBJECT IDENTIFIER ::= { modules 2 }

-- Security ASN.1 module in Sub-volume VIII --

atnPKI OBJECT IDENTIFIER ::= { modules 3 }

END -- ATN OID definitions

9.3 ATN ADDRESS REGISTRATION

9.3.1 Reserved for State Addresses

— END —