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ACP 133 Common Content and LDAP
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ABSTRACT

In Allied Communications Publication (ACP) 133 [[1](#)], an X.500 directory user schema, called Common Content, is specified for the Allied Directory. In order to enable Lightweight Directory Access Protocol (LDAP) access to the Allied Directory and to enable the general use by others of elements from the Common Content, this document specifies the encoding of the Common Content using the LDAP notation from Request for Comments (RFC) [2252](#) [[2](#)].

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1. INTRODUCTION

1.1 Background

ACP 133(B) [[1](#)] is the specification, developed by the Combined Communications-Electronics Board (CCEB), of the X.500-based Allied Directory. One of the things specified in ACP 133(B) [[1](#)] is the directory user schema, which is called Common Content. In the Common Content are directory elements that support several communications applications including electronic mail (e-mail), Message Handling Systems (MHS), and telephony.

The CCEB is a five nation joint military communications-electronics organization whose mission is the coordination of any military communications information systems matters among the members. The Member Nations of the CCEB are Australia, Canada, New Zealand, the United Kingdom, and the United States.

ACP 133(B) [[1](#)] specifies access to the Allied Directory using the X.500 Directory Access Protocol (DAP). Also, within the CCEB, guidelines have been developed for the use of the Internet LDAP.

1.2 Purpose

This document is meant to be informational. Its purpose is to record an LDAP encoding of the Common Content, so that:

- * elements from the Common Content can be applied generally to applications and environments other than the Allied Directory. For example, the name forms for components of X.400 MHS could be used in any X.400/X.500 system. Likewise, the addressList object class could be used in cases where lists of recipients are processed differently than X.400 distribution lists.

- * use of LDAP to access the Allied Directory is enabled

Since the Common Content is based on X.500, this document refers to [RFC 2252](#) [[2](#)] and [RFC 2256](#) [[3](#)] for the X.500 schema elements (e.g., localityName attribute, country object class). The contents of this document are the specifications of all of the rest of the schema elements in the Common Content (e.g., mLAgentNameForm name form, otherContactInformation object class). For descriptions and procedures regarding the Common Content schema elements, consult ACP 133(B) [[1](#)].

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2. OBJECT CLASSES

2.1 aCPNetworkEdB Object Class

The aCPNetworkEdB structural object class is used to define directory entries representing interconnected communications networks. A Network EdB entry can have subordinate entries that define the access and instructions for reaching other networks.

```
( 2.16.840.1.101.2.2.3.68 NAME 'aCPNetworkEdB'
  SUP 2.5.6.0 ; top
  MUST 2.5.4.3 ; cn
  MAY ( 2.5.4.13 $ ; description
        2.16.840.1.101.2.2.1.147 $ ; aCPNetworkSchemaEdB
        2.16.840.1.101.2.2.1.124 $ ; operationName
        2.5.4.34 ) ) ; seeAlso
```

2.2 aCPNetworkInstructionsEdB Object Class

The aCPNetworkInstructionsEdB structural object class is used to define a directory entry that provides the description of how to reach the subject network from another network.

```
( 2.16.840.1.101.2.2.3.69 NAME 'aCPNetworkInstructionsEdB'
  SUP 2.5.6.0 ; top
  MUST 2.5.4.3 ; cn
  MAY ( 2.16.840.1.101.2.2.1.106 $ ; accessCodes
        2.16.840.1.101.2.2.1.146 $ ; aCPNetwAccessSchemaEdB
        2.5.4.13 $ ; description
        2.16.840.1.101.2.2.1.121 ) ) ; networkDN
```

2.3 addressList Object Class

The addressList (aL) object class is used to define directory entries that represent address lists, in particular, the members of the list. The sender of a message uses the address list name to send to all of the members in the list. The replacement of the address list name by the members of the list is performed by the sending User Agent (UA) or a Mailing List Agent (MLA), instead of the Message Transfer System (MTS).

```
( 2.16.840.1.101.2.2.3.57 NAME 'addressList'
  SUP 2.5.6.0 ; top
  MUST ( 2.5.4.3 $ ; cn
        2.6.5.2.4 ) ; mhs-dl-submit-permissions
  MAY ( 2.16.840.1.101.2.1.5.47 $ ; aLExemptedAddressProcessor
        2.16.840.1.101.2.1.5.14 $ ; alid
        2.16.840.1.101.2.2.1.135 $ ; aLReceiptPolicy
        2.16.840.1.101.2.2.1.112 $ ; aLType
        2.5.4.15 $ ; businessCategory
```

2.16.840.1.101.2.2.1.114 \$; copyMember
2.5.4.13 \$; description
2.5.4.31 \$; member

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```
2.6.5.2.12 $ ; mhs-dl-archive-service
2.6.5.2.13 $ ; mhs-dl-policy
2.6.5.2.14 $ ; mhs-dl-related-lists
2.6.5.2.15 $ ; mhs-dl-subscription-service
2.5.4.11 $ ; ou
2.5.4.10 $ ; o
2.5.4.32 $ ; owner
2.16.840.1.101.2.2.1.76 $ ; remarks
2.5.4.34 ) ) ; seeAlso
```

2.4 aliasCommonName Object Class

The aliasCommonName object class is a subclass of alias where an alias entry is named by commonName. It is useful when different attributes are used for the Relative Distinguished Names (RDNs) of aliases to different types of entries (e.g., commonName as alias to a person entry and organizationalUnitName as alias to a corporate department entry). See the aliasOrganizationalUnit object class.

```
( 2.16.840.1.101.2.2.3.52 NAME 'aliasCommonName'
  SUP 2.5.6.1 ; alias
  MUST 2.5.4.3 ) ; cn
```

2.5 aliasOrganizationalUnit Object Class

The aliasOrganizationalUnit object class is a subclass of alias where an alias entry is named by organizationalUnitName. It is useful when different attributes are used for the RDNs of aliases to different types of entries. See the aliasCommonName object class definition and example.

```
( 2.16.840.1.101.2.2.3.53 NAME 'aliasOrganizationalUnit'
  SUP 2.5.6.1 ; alias
  MUST 2.5.4.11 ) ; ou
```

2.6 altSpellingACP127 Object Class

The altSpellingACP127 object class is used to represent a Plain Language Address (PLA) that is an alternative spelling of another PLA. An object from this class always contains a reference to the PLA for which it provides the alternative spelling. This object class is a subclass of the plaACP127 auxiliary object class.

```
( 2.16.840.1.101.2.2.3.58 NAME 'altSpellingACP127'
  SUP 2.16.840.1.101.2.2.3.47 ; plaACP127
  MUST ( 2.16.840.1.101.2.2.1.72 $ ; plaReplace
    2.16.840.1.101.2.2.1.73 ) ) ; primarySpellingACP127
```

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[2.7](#) **cadACP127 Object Class**

The cadACP127 (Collective Address Designator) object class is used to represent an ACP 127/JANAP 128 (Joint Army, Navy, Air Force Procedure) [4]/[5] distribution list. It is a subclass of the plaACP127 auxiliary object class.

```
( 2.16.840.1.101.2.2.3.28 NAME 'cadACP127'
  SUP 2.16.840.1.101.2.2.3.47 ; plaACP127
  MUST 2.16.840.1.101.2.2.1.51 ; cognizantAuthority
  MAY ( 2.16.840.1.101.2.2.1.113 $ ; associatedAL
        2.16.840.1.101.2.2.1.56 $ ; entryClassification
        2.16.840.1.101.2.2.1.75 $ ; recapDueDate
        2.16.840.1.101.2.2.1.79 ) ) ; rIInfo
```

[2.8](#) **distributionCodeDescription Object Class**

The distributionCodeDescription object class is used to define a directory entry that represents a registered Distribution Code in the directory and describes its meaning. See ACP 123 [6] for specification of distribution codes. The distribution code is held in the commonName attribute.

```
( 2.16.840.1.101.2.2.3.55 NAME 'distributionCodeDescription'
  SUP 2.5.6.0 ; top
  MUST 2.5.4.3 ; cn
  MAY 2.5.4.13 ) ; description
```

[2.9](#) **distributionCodesHandled Object Class**

The distributionCodesHandled object class provides for identifying the distribution codes (e.g., Subject Indicator Codes (SIC) as defined in NATO Subject Indicator System (NASIS) - publication 3 (NATO APP-3) [7] and supplements) which are handled, either for action or information, by the object (e.g., organizational role, organizational person, or organizational unit) represented by the directory entry in which this auxiliary is included.

```
( 2.16.840.1.101.2.2.3.54 NAME 'distributionCodesHandled'
  SUP 2.5.6.0 ; top
  AUXILIARY
  MAY ( 2.16.840.1.101.2.2.1.104 $ ; distributionCodeAction
        2.16.840.1.101.2.2.1.105 ) ) ; distributionCodeInfo
```

[2.10](#) **dSSCSPLA Object Class**

The dSSCSPLA object class is used to represent an Intelligence Community (IC) Plain Language Address (PLA) organization that, in the directory, is named using the plaNameACP127 attribute.

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```
( 2.16.840.1.101.2.2.3.67 NAME 'dSSCSPLA'
  SUP 2.16.840.1.101.2.2.3.47 ; plaACP127
  MUST ( 2.16.840.1.101.2.2.1.77 ; rI )
  MAY ( 2.16.840.1.101.2.2.1.143 $ ; adminConversion
        2.16.840.1.101.2.2.1.4 $ ; associatedOrganization
        2.5.4.7 $ ; localityName
        2.16.840.1.101.2.2.1.85 $ ; sigad
        2.16.840.1.101.2.2.1.145 ) ) ; usdConversion
```

[2.11](#) **messagingGateway Object Class**

The messagingGateway object class is used to store information about an application entity which serves as an application layer gateway between two mail systems. When a gateway performs translation services, a messagingGateway object provides a mechanism to address these translation services directly.

```
( 2.16.840.1.101.2.2.3.59 NAME 'messagingGateway'
  SUP 2.6.5.1.2 ; mhs-message-transfer-agent
  MAY ( 2.16.840.1.101.2.2.1.110 $ ; administrator
        2.16.840.1.101.2.2.1.111 $ ; aigsExpanded
        2.16.840.1.101.2.2.1.115 $ ; gatewayType
        2.16.840.1.101.2.2.1.116 $ ; ghpType
        0.9.2342.19200300.100.1.9 $ ; host
        2.16.840.1.101.2.2.1.118 $ ; mailDomains
        2.6.5.2.17 $ ; mhs-acceptable-eits
        2.6.5.2.1 $ ; mhs-deliverable-content-types
        2.6.5.2.2 $ ; mhs-exclusively-acceptable-eits
        2.6.5.2.5 $ ; mhs-message-store-dn
        2.6.5.2.6 $ ; mhs-or-addresses
        2.6.5.2.16 $ ; mhs-or-addresses-with-capabilities
        2.6.5.2.18 $ ; mhs-unacceptable-eits
        2.16.840.1.101.2.2.1.123 $ ; onSupported
        2.16.840.1.101.2.2.1.70 $ ; plaNameACP127
        2.16.840.1.101.2.2.1.79 ) ) ; rIInfo
```

[2.12](#) **mhs-distribution-list Object Class**

The mhs-distribution-list object class is used to define a directory entry that represents a distribution list (DL), that is, an address list that is expanded by the MTS. The attributes in the entry identify the distribution list name, submit permissions, and OR-addresses and, to the extent that the relevant attributes are present, describe the DL, identify its organization, organizational units, and owner; cite related objects; identify its maximum content length, deliverable content types, and acceptable, exclusively acceptable, and unacceptable encoded information types (EITs); and identify its expansion policy,

subscription addresses, archive addresses, related lists,
and members.

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```
( 2.6.5.1.0 NAME 'mhs-distribution-list'
  SUP 2.5.6.0 ; top          MUST ( 2.5.4.3 $ ; cn
    2.6.5.2.4 $ ; mhs-dl-submit-permissions
    2.6.5.2.6 ) ; mhs-or-addresses
  MAY ( 2.5.4.13 $ ; description
    2.5.4.10 $ ; o
    2.5.4.11 $ ; ou
    2.5.4.32 $ ; owner
    2.5.4.34 $ ; seeAlso
    2.6.5.2.0 $ ; mhs-maximum-content-length
    2.6.5.2.1 $ ; mhs-deliverable-content-types
    2.6.5.2.17 $ ; mhs-acceptable-eits
    2.6.5.2.2 $ ; mhs-exclusively-acceptable-eits
    2.6.5.2.18 $ ; mhs-unacceptable-eits
    2.6.5.2.13 $ ; mhs-dl-policy
    2.6.5.2.15 $ ; mhs-dl-subscription-service
    2.6.5.2.12 $ ; mhs-dl-archive-service
    2.6.5.2.14 $ ; mhs-dl-related-lists
    2.6.5.2.3 ) ) ; mhs-dl-members
```

[2.13](#) mhs-message-store Object Class

The mhs-message-store object class is used to define directory entries that represent application entities that implement the MHS Message Store (MS) functionality. The attributes in an entry, to the extent that they are present, describe the MS, identify its owner, and enumerate the attributes, automatic actions, matching rules, content types, and network protocols the MS supports.

```
( 2.6.5.1.1 NAME 'mhs-message-store'
  SUP 2.5.6.12 ; applicationEntity
  MAY ( 2.5.4.32 $ ; owner
    $ 2.6.5.2.10 $ ; mhs-supported-attributes
    $ 2.6.5.2.8 $ ; mhs-supported-automatic-actions
    $ 2.6.5.2.11 $ ; mhs-supported-matching-rules
    $ 2.6.5.2.9 $ ; mhs-supported-content-types
    $ 2.5.4.48 ) ) ; protocolInformation
```

[2.14](#) mhs-message-transfer-agent Object Class

The mhs-message-transfer-agent object class is used to define directory entries that represent application entities that implement the MHS Message Transfer Agent (MTA) functionality. The attributes in an entry, to the extent that they are present, describe the MTA and identify its owner, the maximum content length it can handle, and its supported network protocols.

```
( 2.6.5.1.2 NAME 'mhs-message-transfer-agent'
```

```
SUP 2.5.6.12 ; applicationEntity
MAY ( 2.5.4.32 $ ; owner
      2.6.5.2.0 $ ; mhs-maximum-content-length
      2.5.4.48 ) ) ; protocolInformation
```

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[2.15](#) mhs-user Object Class

The mhs-user object class is used in defining directory entries representing MHS users. The attributes in an entry identify the MHS user's OR-address and, to the extent that the relevant attributes are present, identify the maximum content length, content types, and EITs that can be handled by the user; its MS; and its preferred delivery methods.

```
( 2.6.5.1.3 NAME 'mhs-user'
  SUP 2.5.6.0 ; top
  AUXILIARY
  MUST 2.6.5.2.6 ; mhs-or-addresses
  MAY ( 2.6.5.2.0 $ ; mhs-maximum-content-length
        2.6.5.2.1 $ ; mhs-deliverable-content-types
        2.6.5.2.17 $ ; mhs-acceptable-eits
        2.6.5.2.2 $ ; mhs-exclusively-acceptable-eits
        2.6.5.2.18 $ ; mhs-unacceptable-eits
        2.6.5.2.16 $ ; mhs-or-addresses-with-capabilities
        2.6.5.2.5 ) ) ; mhs-message-store-dn
```

[2.16](#) mhs-user-agent Object Class

The mhs-message-transfer-agent object class is used to define directory entries that represent application entities that implement the MHS MTA functionality. The attributes in an entry, to the extent that they are present, describe the MTA and identify its owner, the maximum content length it can handle, and its supported network protocols.

```
( 2.6.5.1.4 NAME 'mhs-user-agent'
  SUP 2.5.6.12 ; applicationEntity
  MAY ( 2.5.4.32 $ ; owner
        2.6.5.2.0 $ ; mhs-maximum-content-length
        2.6.5.2.1 $ ; mhs-deliverable-content-types
        2.6.5.2.17 $ ; mhs-acceptable-eits
        2.6.5.2.2 $ ; mhs-exclusively-acceptable-eits
        2.6.5.2.18 $ ; mhs-unacceptable-eits
        2.6.5.2.19 $ ; mhs-deliverable-classes
        2.6.5.2.6 $ ; mhs-or-addresses
        2.5.4.48 ) ) ; protocolInformation
```

[2.17](#) mLA Object Class

The mLA object class is used to represent an application entity that performs the functions of a Mail List Agent (MLA). This object class is a subclass of applicationEntity and strong-authentication-user.

Note that this object class may become obsolete, depending on the resolution of Certificate Management Infrastructure (CMI) issues.

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```
( 2.16.840.1.101.2.2.3.31 NAME 'mLA'
  SUP ( 2.5.6.12 $ ; applicationEntity
        2.5.6.15 ) ; strongAuthenticationUser
  MAY 2.5.4.52 ) ; supportedAlgorithms
```

2.18 mLAgent Object Class

The mLAgent object class is used to represent an application entity that performs the functions of a MLA. This object class is a subclass of applicationEntity and pkiUser.

```
( 2.16.840.1.101.2.2.3.64 NAME 'mLAgent'
  SUP ( 2.5.6.12 $ ; applicationEntity
        2.5.6.21 ; pkiUser )
  MAY 2.5.4.52 ) ; supportedAlgorithms
```

2.19 orgACP127 Object Class

The orgACP127 object class is used to define the entry for a single ACP 127/JANAP 128 [\[4\]](#)/[\[5\]](#) messaging user. This object class is a subclass of the plaACP127 auxiliary object class.

```
( 2.16.840.1.101.2.2.3.34 NAME 'orgACP127'
  SUP 2.16.840.1.101.2.2.3.47 ; plaACP127
  MAY ( 2.16.840.1.101.2.2.1.53 $ ; accountingCode
        2.16.840.1.101.2.2.1.4 $ ; associatedOrganization
        2.5.4.6 $ ; c
        2.16.840.1.101.2.2.1.54 $ ; dualRoute
        2.16.840.1.101.2.2.1.56 $ ; entryClassification
        2.5.4.7 $ ; l
        2.16.840.1.101.2.2.1.63 $ ; longTitle
        2.16.840.1.101.2.2.1.64 $ ; minimize
        2.16.840.1.101.2.2.1.65 $ ; minimizeOverride
        2.16.840.1.101.2.2.1.67 $ ; nameClassification
        2.16.840.1.101.2.2.1.77 $ ; rI
        2.16.840.1.101.2.2.1.79 $ ; rIInfo
        2.16.840.1.101.2.2.1.81 $ ; section
        2.5.4.8 $ ; st
        2.16.840.1.101.2.2.1.87 ) ) ; tARE
```

2.20 otherContactInformation Object Class

The otherContactInformation object class provides for additional telephone, location, and mailbox information in directory entries.

```
( 2.16.840.1.101.2.2.3.62 NAME 'otherContactInformation'
  SUP 2.5.6.0 ; top
  AUXILIARY
  MAY ( 2.16.840.1.101.2.2.1.94 $ ; aCPMobileTelephoneNumber
```

2.16.840.1.101.2.2.1.95 \$; aCPPagerTelephoneNumber
2.16.840.1.101.2.2.1.108 \$; aCPPreferredDelivery
2.16.840.1.101.2.2.1.118 \$; mailDomains

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```
2.16.840.1.101.2.2.1.119 $ ; militaryFacsimileNumber
2.16.840.1.101.2.2.1.120 $ ; militaryTelephoneNumber
2.16.840.1.101.2.2.1.126 $ ; proprietaryMailboxes
0.9.2342.19200300.100.1.6 $ ; roomNumber
2.16.840.1.101.2.2.1.127 $ ; secureFacsimileNumber
2.16.840.1.101.2.2.1.128 ) ) ; secureTelephoneNumber
```

[2.21](#) **pkICA Object Class**

The pkICA object class is used to represent Certification Authorities.

```
( 2.5.6.22 NAME 'pkICA'
  SUP 2.5.6.0 ; top
  AUXILIARY
  MAY ( 2.5.4.37 $ ; cACertificate
        2.5.4.39 $ ; certificateRevocationList
        2.5.4.38 $ ; authorityRevocationList
        2.5.4.40 ) ) ; crossCertificatePair
```

[2.22](#) **pkUser Object Class**

The pkUser object class is used to represent certificate subjects. A certificate subject is a human or other type of directory user to which a certificate has been issued.

```
( 2.5.6.21 NAME 'pkUser'
  SUP 2.5.6.0 ; top
  AUXILIARY
  MAY 2.5.4.36 ) ; userCertificate
```

[2.23](#) **plACP127 Object Class**

The plACP127 object class provides for the general PLA attributes common to general service (GENSER) PLA entries, all of which inherit this class.

```
( 2.16.840.1.101.2.2.3.47 NAME 'plACP127'
  SUP 2.5.6.0 ; top
  AUXILIARY
  MUST 2.16.840.1.101.2.2.1.70 ; plNameACP127

  MAY ( 2.16.840.1.101.2.2.1.52 $ ; community
        2.16.840.1.101.2.2.1.55 $ ; effectiveDate
        2.16.840.1.101.2.2.1.57 $ ; expirationDate
        2.16.840.1.101.2.2.1.68 $ ; nationality
        2.16.840.1.101.2.2.1.74 $ ; publish
        2.16.840.1.101.2.2.1.76 $ ; remarks
        2.16.840.1.101.2.2.1.82 ) ) ; serviceOrAgency
```

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[2.24](#) **plaCollectiveACP127 Object Class**

The plaCollectiveACP127 object class is used to define the entry for an ACP 127/JANAP 128 [4]/[5] Address Indicator Group (AIG) distribution list or Type distribution list. This object class is a subclass of the plaACP127 auxiliary object class.

```
( 2.16.840.1.101.2.2.3.35 NAME 'plaCollectiveACP127'
  SUP 2.16.840.1.101.2.2.3.47 ; plaACP127
  MUST 2.16.840.1.101.2.2.1.51 ; cognizantAuthority
  MAY ( 2.16.840.1.101.2.2.1.46 $ ; actionAddressees
        2.16.840.1.101.2.2.1.50 $ ; allowableOriginators
        2.16.840.1.101.2.2.1.113 $ ; associatedAL
        2.5.4.13 $ ; description
        2.16.840.1.101.2.2.1.56 $ ; entryClassification
        2.16.840.1.101.2.2.1.59 $ ; infoAddressees
        2.16.840.1.101.2.2.1.60 $ ; lastRecapDate
        2.16.840.1.101.2.2.1.75 ) ) ; recapDueDate
```

[2.25](#) **plaData Object Class**

The plaData object class contains attributes common to Special Intelligence (SI) PLAs.

```
( 2.16.840.1.101.2.2.3.26 NAME 'plaData'
  SUP 2.5.6.0 ; top
  AUXILIARY
  MAY ( 2.16.840.1.101.2.2.1.52 $ ; community
        2.5.4.13 $ ; description
        2.16.840.1.101.2.2.1.55 $ ; effectiveDate
        2.16.840.1.101.2.2.1.57 ) ) ; expirationDate
```

[2.26](#) **plaUser Object Class**

The plaUser object class contains the name of a PLA's directory entry and, optionally, Routing Indicator (RI) for addressing that PLA.

```
( 2.16.840.1.101.2.2.3.56 NAME 'plaUser'
  SUP 2.5.6.0 ; top
  AUXILIARY
  MUST 2.16.840.1.101.2.2.1.70 ; plaNameACP127
  MAY 2.16.840.1.101.2.2.1.79 ) ; rIInfo
```

[2.27](#) **releaseAuthorityPerson Object Class**

The releaseAuthorityPerson object class is used to define the entry for a role of release authority who releases organizational messages on behalf of an organization. Whereas organizations

originate their organizational messages, it is the job of the release authority to sign the messages. Release authorities do not send individual messages and do not receive messages.

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Note that this object class may become obsolete, depending on the resolution of CMI issues.

```
( 2.16.840.1.101.2.2.3.63 NAME 'releaseAuthorityPerson'
  SUP 2.16.840.1.101.2.1.4.13 ; secure-user
  MUST 2.16.840.1.101.2.2.1.45 ) ; releaseAuthorityName
```

2.28 releaseAuthorityPersonA Object Class

The releaseAuthorityPersonA object class is used to define the entry for a role of release authority who releases organizational messages on behalf of an organization. Whereas organizations originate their organizational messages, it is the job of the release authority to sign the messages. Release authorities do not send individual messages and do not receive messages.

```
( 2.16.840.1.101.2.2.3.65 NAME 'releaseAuthorityPersonA'
  SUP 2.16.840.1.101.2.2.3.66 ; securePkiUser
  MUST 2.16.840.1.101.2.2.1.45 ) ; releaseAuthorityName
```

2.29 routingIndicator Object Class

The routingIndicator object class is used to define an entry for a RI and is a subclass of the plaData auxiliary object class.

```
( 2.16.840.1.101.2.2.3.37 NAME 'routingIndicator'
  SUP 2.16.840.1.101.2.2.3.26 ; plaData
  MUST 2.16.840.1.101.2.2.1.77 ; rI
  MAY ( 2.16.840.1.101.2.2.1.62 $ ; lmf
    2.6.5.2.0 $ ; mhs-maximum-content-length
    2.16.840.1.101.2.2.1.68 $ ; nationality
    2.16.840.1.101.2.2.1.74 $ ; publish
    2.16.840.1.101.2.2.1.78 $ ; rIClassification
    2.16.840.1.101.2.2.1.83 $ ; sHD
    2.16.840.1.101.2.2.1.96 $ ; tCC
    2.16.840.1.101.2.2.1.69 $ ; transferStation
    2.16.840.1.101.2.2.1.97 ) ) ; tRC
```

2.30 secure-user Object Class

The secure-user object class is used in defining directory entries that include credentials for users. It is a subclass of the strongAuthenticationUser object class, defined in X.521 [8], which provides for a user certificate.

Note that this object class may become obsolete, depending on the resolution of CMI issues.

```
( 2.16.840.1.101.2.1.4.13 NAME 'secure-user'
```

SUP 2.5.6.15 ; strongAuthenticationUser
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```
MAY ( 2.5.6.58 $ ; attributeCertificate
      2.5.4.52 ) ) ; supportedAlgorithms
```

2.31 securePkiUser Object Class

The securePkiUser (Public Key Infrastructure) object class is used in defining directory entries that include credentials for ACP 123 [6] users. It is a subclass of the pkiUser object class, defined in [RFC 2587](#) [9], which provides for a user certificate.

```
( 2.16.840.1.101.2.2.3.66 NAME 'securePkiUser'
  SUP 2.5.6.21 ; pkiUser
  AUXILIARY
  MAY ( 2.5.6.58 $ ; attributeCertificate
        2.5.4.52 ) ) ; supportedAlgorithms
```

2.32 sigintPLA Object Class

The sigintPLA (Signal Intelligence) object class is used to represent sensitive SI PLAs. This object class is a subclass of the plaData auxiliary object class.

```
( 2.16.840.1.101.2.2.3.38 NAME 'sigintPLA'
  SUP 2.16.840.1.101.2.2.3.26 ; plaData
  MUST 2.16.840.1.101.2.2.1.85 ; sigad
  MAY ( 2.5.4.7 $ ; 1
        2.16.840.1.101.2.2.1.68 $ ; nationality
        2.16.840.1.101.2.2.1.74 $ ; publish
        2.16.840.1.101.2.2.1.76 $ ; remarks
        2.16.840.1.101.2.2.1.77 $ ; rI
        2.16.840.1.101.2.2.1.84 ) ) ; shortTitle
```

2.33 sIPLA Object Class

The sIPLA object class is used to define the entry for a single Special Intelligence (SI) messaging user. This object class is a subclass of the plaData auxiliary object class.

```
( 2.16.840.1.101.2.2.3.39 NAME 'sIPLA'
  SUP 2.16.840.1.101.2.2.3.26 ; plaData
  MUST 2.16.840.1.101.2.2.1.63 ; longTitle
  MAY ( 2.5.4.7 $ ; 1
        2.16.840.1.101.2.2.1.68 $ ; nationality
        2.16.840.1.101.2.2.1.74 $ ; publish
        2.16.840.1.101.2.2.1.76 $ ; remarks
        2.16.840.1.101.2.2.1.77 $ ; rI
        2.16.840.1.101.2.2.1.84 $ ; shortTitle
        2.16.840.1.101.2.2.1.85 ) ) ; sigad
```

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[2.34](#) spotPLA Object Class

The spotPLA object class is used to define an entry for a special products distribution list. This object class is a subclass of the plaData auxiliary object class.

```
( 2.16.840.1.101.2.2.3.40 NAME 'spotPLA'
  SUP 2.16.840.1.101.2.2.3.26 ; plaData
  MUST 2.16.840.1.101.2.2.1.86 ; spot
  MAY ( 2.16.840.1.101.2.2.1.46 $ ; actionAddressees
        2.16.840.1.101.2.2.1.47 $ ; additionalAddressees
        2.16.840.1.101.2.2.1.48 $ ; additionalSecondPartyAddressees
        2.6.5.2.4 $ ; mhs-dl-submit-permissions
        2.16.840.1.101.2.2.1.76 $ ; remarks
        2.16.840.1.101.2.2.1.80 ) ) ; secondPartyAddressees
```

[2.35](#) taskForceACP127 Object Class

The taskForceACP127 object class is used to define a directory entry for an ACP 127/JANAP 128 [\[4\]](#)/[\[5\]](#) task force distribution list. This object class is a subclass of the plaACP127 auxiliary object class.

```
( 2.16.840.1.101.2.2.3.41 NAME 'taskForceACP127'
  SUP 2.16.840.1.101.2.2.3.47 ; plaACP127
  MUST ( 2.16.840.1.101.2.2.1.51 $ ; cognizantAuthority
        2.16.840.1.101.2.2.1.60 $ ; lastRecapDate
        2.16.840.1.101.2.2.1.75 ; recapDueDate)
  MAY ( 2.16.840.1.101.2.2.1.113 $ ; associatedAL
        2.16.840.1.101.2.2.1.56 $ ; entryClassification
        2.16.840.1.101.2.2.1.71 ) ) ; plaAddressees
```

[2.36](#) tenantACP127 Object Class

The tenantACP127 object class is used to define a directory entry that represents a tenant PLA. This object class is a subclass of the plaACP127 auxiliary object class.

```
( 2.16.840.1.101.2.2.3.42 NAME 'tenantACP127'
  SUP 2.16.840.1.101.2.2.3.47 ; plaACP127
  MUST 2.16.840.1.101.2.2.1.58 ; hostOrgACP127
  MAY ( 2.16.840.1.101.2.2.1.56 $ ; entryClassification
        2.16.840.1.101.2.2.1.87 ) ) ; tARE
```

[2.37](#) ukms Object Class

The ukms object class contains the monthly values of user keying material (UKM) used in the construction of selected CCEB symmetric confidentiality algorithms.

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```
( 2.16.840.1.101.2.1.4.16 NAME 'ukms'
  SUP 2.5.6.0 ; top
  AUXILIARY
  MAY ( 2.16.840.1.101.2.1.5.20 $ ; janUKMs
        2.16.840.1.101.2.1.5.21 $ ; febUKMs
        2.16.840.1.101.2.1.5.22 $ ; marUKMs
        2.16.840.1.101.2.1.5.23 $ ; aprUKMs
        2.16.840.1.101.2.1.5.24 $ ; mayUKMs
        2.16.840.1.101.2.1.5.25 $ ; junUKMs
        2.16.840.1.101.2.1.5.26 $ ; julUKMs
        2.16.840.1.101.2.1.5.27 $ ; augUKMs
        2.16.840.1.101.2.1.5.28 $ ; sepUKMs
        2.16.840.1.101.2.1.5.29 $ ; octUKMs
        2.16.840.1.101.2.1.5.30 $ ; novUKMs
        2.16.840.1.101.2.1.5.31 ) ) ; decUKMs
```


3. ATTRIBUTE TYPES

3.1 accessCodes Attribute

The accessCodes attribute value gives the coding of how to reach one network from another. Additional instructions for the use of this access code are contained in a description attribute in the same entry. For example, in a private telephone network, the user could be required to dial "8" to reach other users in a different city or to dial "9" to exit the private network.

```
( 2.16.840.1.101.2.2.1.106 NAME 'accessCodes'  
  SYNTAX 1.3.6.1.4.1.1466.115.121.1.44 ) ; Printable String
```

3.2 accountingCode Attribute

The accountingCode attribute value is a character string used in logistics applications to identify an organization uniquely. One example is the U.S. Department of Defense Activity Accounting Code (DODAAC).

```
( 2.16.840.1.101.2.2.1.53 NAME 'accountingCode'  
  EQUALITY 2.5.13.2 ; caseIgnoreMatch  
  SUBSTR 2.5.13.4 ; caseIgnoreSubstringsMatch  
  SYNTAX 1.3.6.1.4.1.1466.115.121.1.44{7} ) ; Printable String
```

3.3 aCPLegacyFormat Attribute

The aCPLegacyFormat provides the specific message format type used when the value of the aCPPreferredDelivery attribute is ACP127(1).

```
( 2.16.840.1.101.2.2.1.142 NAME 'aCPLegacyFormat'  
  SYNTAX 2.16.840.1.101.2.2.2.17 ; ACPLegacyFormat  
  SINGLE-VALUE )
```

3.4 aCPMobileTelephoneNumber Attribute

The aCPMobileTelephoneNumber attribute value identifies a mobile telephone number for the object represented by the directory entry that contains this attribute.

```
( 2.16.840.1.101.2.2.1.94 NAME 'aCPMobileTelephoneNumber'  
  SUP 2.5.4.20 ) ; telephoneNumber
```

3.5 aCPNetwAccessSchemaEdB Attribute

The aCPNetwAccessSchemaEdB attribute value is a schematic representation used to complete the access information from one network to another in the case of a complex connection. (Many connections

are not complex enough to need such a description and in that case the attribute would not be populated.)

```
( 2.16.840.1.101.2.2.1.146 NAME 'aCPNetwAccessSchemaEdB'  
  SYNTAX 1.3.6.1.4.1.1466.115.121.1.28 ) ; JPEG
```

3.6 aCPNetworkSchemaEdB Attribute

The aCPNetworkSchemaEdB attribute value is a graphical representation of a network. It describes the structure of the network and details any rules associated with that network.

```
( 2.16.840.1.101.2.2.1.147 NAME 'aCPNetworkSchemaEdB'  
  SYNTAX 1.3.6.1.4.1.1466.115.121.1.28 ) ; JPEG
```

3.7 aCPPagerTelephoneNumber Attribute

The aCPPagerTelephoneNumber attribute identifies a telephone number for a pager associated with the object represented by the directory entry.

```
( 2.16.840.1.101.2.2.1.95 NAME 'aCPPagerTelephoneNumber'  
  SUP 2.5.4.20 ) ; telephoneNumber
```

3.8 aCPPreferredDelivery Attribute

The aCPPreferredDelivery attribute value is used to determine the messaging system a user, represented by the directory entry, prefers for message delivery. The possible values are: "ACP 127", "SMTP" or "MHS". "MHS" signifies either standard X.400 (1984 or 1988) or ACP 123-compliant X.400.

```
( 2.16.840.1.101.2.2.1.108 NAME 'aCPPreferredDelivery'  
  SYNTAX 2.16.840.1.101.2.2.2.6 ; ACP Preferred Delivery syntax  
  SINGLE-VALUE )
```

3.9 aCPTelephoneFaxNumber ATTRIBUTE

The aCPTelephoneFaxNumber attribute is defined for use as a supertype in defining the attributes:

```
    militaryFacsimileNumber  
    militaryTelephoneNumber  
    secureFacsimileNumber  
    secureTelephoneNumber
```

A value of the aCPTelephoneFaxNumber attribute and the attributes defined as its subtypes is a telephone number that is used for military purposes and is associated with an object represented by the directory entry. For example, a person may have a telephone, equipped with a STU III (Secure Telephone Unit) device, on the Public Switched Telephone Network (PSTN).

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```
( 2.16.840.1.101.2.2.1.109 NAME 'aCPTelephoneFaxNumber'  
  EQUALITY 2.5.13.20 ; telephoneNumberMatch  
  SUBSTR 2.5.13.21 ; telephoneNumberSubstringsMatch  
  SYNTAX 2.16.840.1.101.2.2.2.1 ) ; ACPTelephoneFaxNumberSyntax
```

The attribute value for an ACP telephone number contains the following substrings which are separated by commas (i.e., ","):

```
network or site identifier  
telephone number  
security device identifier
```

The maximum size of the network or site identifier substring is six characters. In the example, the string "PSTN" would be the value of this identifier.

For the telephone number substring, if the network is the PSTN, then the format shall be as for a Telephone Number as defined in X.520 [10] (i.e., CCITT E.123). Extension numbers shall be preceded by "ext." or other nationally defined equivalent. The maximum length of this substring is 32 characters. In the example, the string "+1 555 222 ext. 34" could be the value of the telephone number.

The maximum size of the security device identifier substring is eight characters. In the example, the string "STU III" would be the value of this identifier.

The complete example value would be "PSTN, +1 555 222 ext. 34, STU III".

The security device (and preceding substring separator ",") is present only if the military telephone number is secured (i.e., attribute subtypes secureTelephoneNumber or secureFacsimileNumber).

Note that the equality and substring matching rule for this attribute is not case sensitive and the substring matching rule is case sensitive. Thus, it is recommended that the network/site identifier and security device identifier are in upper case.

3.10 actionAddressees Attribute

An actionAddressees attribute value is the list of action addressees of an ACP 127/JANAP 128 [4]/[5] collective, for example, an AIG. An action addressee is expected to take action appropriate on the message content, whereas an information addressee receives the message for informational purposes only.

```
( 2.16.840.1.101.2.2.1.46 NAME 'actionAddressees'
```

EQUALITY 2.5.13.11 ; caseIgnoreListMatch
SUBSTR 2.5.13.12 ; caseIgnoreListSubstringsMatch
SYNTAX 2.16.840.1.101.2.2.2.2) ; Addressees syntax

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3.11 additionalAddressees Attribute

The additionalAddressees attribute value is a list of addressees to be added to the actionAddressees list (value of the actionAddressees attribute) under circumstances identified in the remarks attribute in the same directory entry.

```
( 2.16.840.1.101.2.2.1.47 NAME 'additionalAddressees'  
    EQUALITY 2.5.13.11 ; caseIgnoreListMatch  
    SUBSTR 2.5.13.12 ; caseIgnoreListSubstringsMatch  
    SYNTAX 2.16.840.1.101.2.2.2.2 ) ; Addressees syntax
```

3.12 additionalSecondPartyAddressees Attribute

The additionalSecondPartyAddressees attribute value is a list of addressees to be added to the secondPartyAddressees list (value of the secondPartyAddressees attribute) under circumstances identified in the remarks attribute in the same directory entry.

```
( 2.16.840.1.101.2.2.1.48 NAME 'additionalSecondPartyAddressees'  
    EQUALITY 2.5.13.11 ; caseIgnoreListMatch  
    SUBSTR 2.5.13.12 ; caseIgnoreListSubstringsMatch  
    SYNTAX 2.16.840.1.101.2.2.2.2 ) ; Addressees syntax
```

3.13 adminConversion ATTRIBUTE

The adminConversion attribute provides for using an abbreviation of the organization's administrative title as an administrative message address.

```
( 2.16.840.1.101.2.2.1.143 NAME 'adminConversion'  
    SYNTAX 1.3.6.1.4.1.1466.115.121.1.15 ; DirectoryString  
    EQUALITY 2.5.13.2 ; caseIgnoreMatch  
    SUBSTR 2.5.13.4 ) ; caseIgnoreSubstringsMatch
```

3.14 administrator Attribute

The administrator attribute value represents the entity responsible for the operation of a component when it is different from the owner of the component. For example, the owner may be a domain.

```
( 2.16.840.1.101.2.2.1.110 NAME 'administrator'  
    SUP 2.5.4.49 ) ; distinguishedName
```

3.15 aigsExpanded Attribute

The aigsExpanded attribute values are the names of the AIGs expanded by a messaging gateway.

```
( 2.16.840.1.101.2.2.1.111 NAME 'aigsExpanded'  
  SUP 2.5.4.49 ) ; distinguishedName
```

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3.16 aLExemptedAddressProcessor Attribute

The aLExemptedAddressProcessor attribute value is the ORName of the address list processor for the address list where exempted addresses are removed.

```
( 2.16.840.1.101.2.1.5.47 'aLExemptedAddressProcessor'  
    SYNTAX 2.16.840.1.101.2.2.2.10 ; O/R Name syntax  
    SINGLE-VALUE )
```

3.17 aliasPointer Attribute

The aliasPointer attribute type value points to alias directory entries which might have to be modified if the directory entry containing this attribute is modified. It is intended to be used to maintain data consistency in the Directory Information Base (DIB).

```
( 2.16.840.1.101.2.2.1.49 NAME 'aliasPointer'  
    EQUALITY 2.5.13.1 ; distinguishedNameMatch  
    SYNTAX 1.3.6.1.4.1.1466.115.121.1.12 ) ; DN
```

3.18 alid Attribute

The alid attribute value is the AL key material identifier.

```
( 2.16.840.1.101.2.1.5.14 NAME 'alid'  
    EQUALITY 2.5.13.17 ; octetStringMatch  
    SYNTAX 1.3.6.1.4.1.1466.115.121.1.40 ) ; Kmid = Octet String
```

3.19 allowableOriginators Attribute

The allowableOriginators attribute value is the name of an ACP 127/JANAP 128 [\[4\]](#)/[\[5\]](#) collective that contains the list of PLAs that are allowed to originate messages to this list.

```
( 2.16.840.1.101.2.2.1.50 NAME 'allowableOriginators'  
    EQUALITY 2.5.13.11 ; caseIgnoreListMatch  
    SUBSTR 2.5.13.12 ; caseIgnoreListSubstringsMatch  
    SYNTAX 2.16.840.1.101.2.2.2.2 ) ; Addressees syntax
```

3.20 aLReceiptPolicy Attribute

The aLReceiptPolicy attribute value indicates address list's signed receipt policy. This receipt policy supersedes the originator's request for signed receipts (see ACP 120 [\[11\]](#)).

```
( 2.16.840.1.101.2.2.1.135 NAME 'aLReceiptPolicy'  
    SYNTAX 2.16.840.1.101.2.2.2.9 ; MLReceiptPolicy
```

SINGLE-VALUE)

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3.21 alternateRecipient Attribute

The alternateRecipient attribute is used to designate an X.400 alternate recipient for a messaging user. It could be used by an X.400 message originator to create an originator-assigned alternate recipient address to be used by the MTS, if delivery to the addressed recipient fails.

```
( 2.16.840.1.101.2.2.1.3 NAME 'alternateRecipient'
  EQUALITY 2.5.13.1 ; distinguishedNameMatch
  SYNTAX 1.3.6.1.4.1.1466.115.121.1.12 )
```

3.22 aLType Attribute

The aLType attribute value indicates the type of an address list from these possibilities: AIG (Address Indicator Group), Type Organization Collective, CAD (Collective Address Designator), and Task Force.

```
( 2.16.840.1.101.2.2.1.112 NAME 'aLType'
  EQUALITY 2.5.13.14 ; integerMatch
  SYNTAX 2.16.840.1.101.2.2.2.8 ; Address List Type syntax
  SINGLE-VALUE )
```

3.23 aprUKMs Attribute

The aprUKMs (User Key Materials) attribute value is used in the construction of selected symmetric confidentiality algorithms for the month of April.

```
( 2.16.840.1.101.2.1.5.23 NAME 'aprUKMs'
  SYNTAX 1.3.6.1.4.1.1466.115.121.1.5 ; binary syntax
                                          ; encapsulating
                                          ; MonthlyUKMs
  SINGLE-VALUE )
```

3.24 associatedAL Attribute

The associatedAL attribute value points to the address list object which replaces the ACP 127/JANAP 128 [4]/[5] task force PLA. It assists in the transition from ACP 127/JANAP 128 [4]/[5] to X.400 addressing and the associated transition from the use of ACP 127/JANAP 128 [4]/[5] collectives to the use of address lists.

```
( 2.16.840.1.101.2.2.1.113 NAME 'associatedAL'
  EQUALITY 2.5.13.1 ; distinguishedNameMatch
  SYNTAX 1.3.6.1.4.1.1466.115.121.1.12 )
```

3.25 associatedOrganization Attribute

The associatedOrganization attribute value points to the
organizationalUnit directory entry which represents the same

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organizational messaging entity as the PLA directory entry containing this attribute.

```
( 2.16.840.1.101.2.2.1.4 NAME 'associatedOrganization'
    EQUALITY 2.5.13.1 ; distinguishedNameMatch
    SYNTAX 1.3.6.1.4.1.1466.115.121.1.12 )
```

[3.26](#) associatedPLA Attribute

The associatedPLA attribute value points to the ACP 127/JANAP 128 [4]/[5] directory entry for the same messaging entity as represented by the Organizational Unit directory entry containing this attribute.

```
( 2.16.840.1.101.2.2.1.6 NAME 'associatedPLA'
    EQUALITY 2.5.13.1 ; distinguishedNameMatch
    SYNTAX 1.3.6.1.4.1.1466.115.121.1.12 )
```

[3.27](#) augUKMs Attribute

The augUKMs attribute value is used in the construction of selected symmetric confidentiality algorithms for the month of August.

```
( 2.16.840.1.101.2.1.5.27 NAME 'augUKMs'
    SYNTAX 1.3.6.1.4.1.1466.115.121.1.5 ; binary syntax
                                           ; encapsulating
                                           ; MonthlyUKMs
    SINGLE-VALUE )
```

[3.28](#) buildingName Attribute

A buildingName attribute value specifies the name of the building where an organization or organizational unit is based. This attribute was originally defined in [RFC 1274](#) [13].

```
( 0.9.2342.19200300.100.1.48 NAME 'buildingName'
    SYNTAX 1.3.6.1.4.1.1466.115.121.1.15{256}
        ; directoryString, minimum length is one.
    EQUALITY 2.5.13.2 ; caseIgnoreMatch
    SUBSTR 2.5.13.4 ; caseIgnoreSubstringsMatch )
```

[3.29](#) cognizantAuthority Attribute

The cognizantAuthority attribute value indicates the administrator for an ACP 127/JANAP 128 [4]/[5] collective.

```
( 2.16.840.1.101.2.2.1.51 NAME 'cognizantAuthority'
    EQUALITY 2.5.13.2 ; caseIgnoreMatch
    SUBSTR 2.5.13.4 ; caseIgnoreSubstringsMatch
```

```
SYNTAX 1.3.6.1.4.1.1466.115.121.1.44{55} ; Printable String  
SINGLE-VALUE )
```


3.30 collective-mhs-or-addresses Attribute

The collective-mhs-or-addresses attribute value is a value of mhs-or-addresses that is applied at an administrative point.

```
( 2.16.840.1.101.2.2.1.134.1 NAME 'collective-mhs-or-addresses'  
  SUP 2.6.5.2.6 ) ; mhs-or-addresses
```

3.31 collectiveMilitaryFacsimileNumber Attribute

The collectiveMilitaryFacsimileNumber attribute value is a value of militaryFacsimileNumber that is applied at an administrative point.

```
( 2.16.840.1.101.2.2.1.119.1 NAME 'collectiveMilitaryFacsimileNumber'  
  SUP 2.16.840.1.101.2.2.1.119 ) ; militaryFacsimileNumber
```

3.32 collectiveMilitaryTelephoneNumber Attribute

The collectiveMilitaryTelephoneNumber attribute value is a value of militaryTelephoneNumber that is applied at an administrative point.

```
( 2.16.840.1.101.2.2.1.120.1 NAME 'collectiveMilitaryTelephoneNumber'  
  SUP 2.16.840.1.101.2.2.1.120 ) ; militaryTelephoneNumber
```

3.33 collectiveNationality Attribute

The collectiveNationality attribute value is a value of nationality that is applied at an administrative point.

```
( 2.16.840.1.101.2.2.1.68.1 NAME 'collectiveNationality'  
  SUP 2.16.840.1.101.2.2.1.68 ) ; nationality
```

3.34 collectiveSecureFacsimileNumber Attribute

The collectiveSecureFacsimileNumber attribute value is a value of secureFacsimileNumber that is applied at an administrative point.

```
( 2.16.840.1.101.2.2.1.127.1 NAME 'collectiveSecureFacsimileNumber'  
  SUP 2.16.840.1.101.2.2.1.127 ) ; secureFacsimileNumber
```

3.35 collectiveSecureTelephoneNumber ATTRIBUTE

The collectiveSecureTelephoneNumber attribute value is a value of secureTelephoneNumber that is applied at an administrative point.

```
( 2.16.840.1.101.2.2.1.128.1 NAME 'collectiveSecureTelephoneNumber'  
  SUP 2.16.840.1.101.2.2.1.128 ) ; secureTelephoneNumber
```

3.36 community Attribute

The community attribute value indicates whether an object belongs to the GENSER (R) or SI (Y) community or both (R/Y).

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[3.41](#) **distributionCodeInfo Attribute**

The distributionCodeInfo attribute values identify the distribution codes (including SICs) for which an organization, person, or role handles messages for information.

```
( 2.16.840.1.101.2.2.1.105 NAME 'distributionCodeInfo'
    EQUALITY 2.5.13.2 ; caseIgnoreMatch
    SUBSTR 2.5.13.4 ; caseIgnoreSubstringsMatch
    SYNTAX 1.3.6.1.4.1.1466.115.121.1.44 ) ; DistributionCode =
                                     ; PrintableString
```

[3.42](#) **dualRoute Attribute**

The dualRoute attribute value indicates whether delivery of messages for an organization to both the home and deployed sites is required. If set to TRUE, dual delivery is required.

```
( 2.16.840.1.101.2.2.1.54 NAME 'dualRoute'
    EQUALITY 2.5.13.13 ; booleanMatch
    SYNTAX 1.3.6.1.4.1.1466.115.121.1.7 ;
    SINGLE-VALUE )
```

[3.43](#) **effectiveDate Attribute**

The effectiveDate attribute value indicates when the directory entry is to become valid.

```
( 2.16.840.1.101.2.2.1.55 NAME 'effectiveDate'
    EQUALITY 2.5.13.27 ; generalizedTimeMatch
    SYNTAX 1.3.6.1.4.1.1466.115.121.1.24 ; GeneralizedTime
    SINGLE-VALUE )
```

[3.44](#) **entryClassification Attribute**

The entryClassification attribute value indicates the classification of the directory entry that contains this attribute. The possible values are: unmarked, unclassified, restricted, confidential, secret, and top secret.

```
( 2.16.840.1.101.2.2.1.56 NAME 'entryClassification'
    SYNTAX 2.16.840.1.101.2.2.2.4 ) ; Classification syntax
```

[3.45](#) **expirationDate Attribute**

The expirationDate attribute value indicates the time at which the directory entry becomes invalid.

```
( 2.16.840.1.101.2.2.1.57 NAME 'expirationDate'
```

EQUALITY 2.5.13.27 ; generalizedTimeMatch
SYNTAX 1.3.6.1.4.1.1466.115.121.1.24 ; GeneralizedTime
SINGLE-VALUE)

3.46 febUKMs Attribute

The febUKMs attribute value is used in the construction of selected CCEB symmetric confidentiality algorithms for the month of February.

```
( 2.16.840.1.101.2.1.5.21 NAME 'febUKMs'
  SYNTAX 1.3.6.1.4.1.1466.115.121.1.5 ; binary syntax
                                     ; encapsulating
                                     ; MonthlyUKMs
  SINGLE-VALUE )
```

3.47 garrison ATTRIBUTE

The garrison attribute value contains distinguished names of other directory entries that represent the same real world object in garrison. See the deployed attribute.

```
( 2.16.840.1.101.2.2.1.140 NAME 'garrison'
  SYNTAX 1.3.6.1.4.1.1466.115.121.1.12 ; DistinguishedName
  EQUALITY 2.5.13.1 ) ; distinguishedNameMatch
```

3.48 gatewayType Attribute

The gatewayType attribute value is used to indicate the translations a messaging gateway is capable of performing. The translations that can be indicated are:

```
acp120-acp127-gateway
acp120-janap128-gateway
acp120-mhs-gateway
acp120-mmhs-gateway
acp120-rfc822-gateway
boundary MTA
mmhs-mhs-gateway
mmhs-rfc822-gateway
mta-acp127-gateway
```

```
( 2.16.840.1.101.2.2.1.115 NAME 'gatewayType'
  EQUALITY 2.5.13.0 ; objectIdentifierMatch
  SYNTAX 1.3.6.1.4.1.1466.115.121.1.38 ) ; OID
```

3.49 ghpType Attribute

The ghpType attribute value is used to indicate the gateway handling policy of an mta-acp127-gateway defined in STANAG 4406 [[12](#)].

```
( 2.16.840.1.101.2.2.1.116 NAME 'ghpType'
```

EQUALITY 2.5.13.0 ; objectIdentifierMatch
SYNTAX 1.3.6.1.4.1.1466.115.121.1.38) ; OID

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[3.50](#) guard Attribute

The guard attribute value indicates the Name(s) of the Guard Gateway.

```
( 2.16.840.1.101.2.2.1.117 NAME 'guard'
  SUP 2.5.4.49 ) ; distinguishedName
```

[3.51](#) host Attribute

The host attribute value gives an identifier for a host computer, as defined in the COSINE and Internet X.500 Schema, [RFC 1274](#) [13].

```
( 0.9.2342.19200300.100.1.9 NAME 'host'
  EQUALITY 2.5.13.2 ; caseIgnoreMatch
  SUBSTR 2.5.13.4 ; caseIgnoreSubstringsMatch
  SYNTAX 1.3.6.1.4.1.1466.115.121.1.15{256} ) ; DirectoryString
  ; limited to TeletexString or PrintableString
```

[3.52](#) hostOrgACP127 Attribute

The hostOrgACP127 attribute value of a tenant PLA identifies the PLA for the organization which accepts traffic for a tenant.

```
( 2.16.840.1.101.2.2.1.58 NAME 'hostOrgACP127'
  EQUALITY 2.5.13.2 ; caseIgnoreMatch
  SUBSTR 2.5.13.4 ; caseIgnoreSubstringsMatch
  SYNTAX 1.3.6.1.4.1.1466.115.121.1.44{55} ; PrintableString
  SINGLE-VALUE )
```

[3.53](#) infoAddressees Attribute

The infoAddressees attribute value of an ACP 127/JANAP 128 [4]/[5] collective contains the list of information addressees of the collective.

```
( 2.16.840.1.101.2.2.1.59 NAME 'infoAddressees'
  EQUALITY 2.5.13.11 ; caseIgnoreListMatch
  SUBSTR 2.5.13.12 ; caseIgnoreListSubstringsMatch
  SYNTAX 2.16.840.1.101.2.2.2.2 ) ; Addressees syntax
```

[3.54](#) janUKMs Attribute

The janUKMs attribute value is used in the construction of selected CCEB symmetric confidentiality algorithms for the month of January.

```
( 2.16.840.1.101.2.1.5.20 NAME 'janUKMs'
  SYNTAX 1.3.6.1.4.1.1466.115.121.1.5 ; binary syntax
  ; encapsulating
```

SINGLE-VALUE) ; MonthlyUKMs

3.55 julUKMs Attribute

The julUKMs attribute value is used in the construction of selected CCEB symmetric confidentiality algorithms for the month of July.

```
( 2.16.840.1.101.2.1.5.26 NAME 'julUKMs'
  SYNTAX 1.3.6.1.4.1.1466.115.121.1.5 ; binary syntax
                                     ; encapsulating
                                     ; MonthlyUKMs
  SINGLE-VALUE )
```

3.56 junUKMs ATTRIBUTE

The junUKMs attribute value is used in the construction of selected CCEB symmetric confidentiality algorithms for the month of June.

```
( 2.16.840.1.101.2.1.5.25 NAME 'junUKMs'
  SYNTAX 1.3.6.1.4.1.1466.115.121.1.5 ; binary syntax
                                     ; encapsulating
                                     ; MonthlyUKMs
  SINGLE-VALUE )
```

3.57 lastRecapDate Attribute

The lastRecapDate attribute value indicates when a list was last recapped or validated.

```
( 2.16.840.1.101.2.2.1.60 NAME 'lastRecapDate'
  EQUALITY 2.5.13.27 ; generalizedTimeMatch
  SYNTAX 1.3.6.1.4.1.1466.115.121.1.24 ; GeneralizedTime
  SINGLE-VALUE )
```

3.58 listPointer Attribute

The listPointer attribute value is used to point to address list directory entries which might have to be modified if the entry containing this attribute is modified. It is intended to be used to maintain data consistency in the DIB.

```
( 2.16.840.1.101.2.2.1.61 NAME 'listPointer'
  EQUALITY 2.5.13.1 ; distinguishedNameMatch
  SYNTAX 1.3.6.1.4.1.1466.115.121.1.12 ) ; DistinguishedName
```

3.59 lmf Attribute

The lmf (Language and Media Format) attribute value indicates the language and media format that can be accepted between the two

communicating end-systems. Possible values include:

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T tape
A ASCII (American Standard Code for Information
 Interchange)
C card, etc.

```
( 2.16.840.1.101.2.2.1.62 NAME 'lmf'  
  EQUALITY 2.5.13.2 ; caseIgnoreMatch  
  SYNTAX 1.3.6.1.4.1.1466.115.121.1.44{1}  
  SINGLE-VALUE )
```

[3.60](#) **longTitle Attribute**

The longTitle attribute value is the expanded form of an organization's PLA.

```
( 2.16.840.1.101.2.2.1.63 NAME 'longTitle'  
  EQUALITY 2.5.13.2 ; caseIgnoreMatch  
  SUBSTR 2.5.13.4 ; caseIgnoreSubstringsMatch  
  SYNTAX 1.3.6.1.4.1.1466.115.121.1.44{255} ; PrintableString  
  SINGLE-VALUE )
```

[3.61](#) **mailDomains Attribute**

The mailDomains attribute value is a string, which provides information on the domains that the messaging gateway will bridge.

```
( 2.16.840.1.101.2.2.1.118 NAME 'mailDomains'  
  EQUALITY 2.5.13.2 ; caseIgnoreMatch  
  SUBSTR 2.5.13.4 ; caseIgnoreSubstringsMatch  
  SYNTAX 1.3.6.1.4.1.1466.115.121.1.15 ) ; DirectoryString
```

[3.62](#) **marUKMs Attribute**

The marUKMs attribute value is used in the construction of selected CCEB symmetric confidentiality algorithms for the month of May.

```
( 2.16.840.1.101.2.1.5.22 NAME 'marUKMs'  
  SYNTAX 1.3.6.1.4.1.1466.115.121.1.5 ; binary syntax  
                                           ; encapsulating  
                                           ; MonthlyUKMs  
  SINGLE-VALUE )
```

[3.63](#) **mayUKMs Attribute**

The mayUKMs attribute value is used in the construction of selected CCEB symmetric confidentiality algorithms for the month of May.

```
( 2.16.840.1.101.2.1.5.24 NAME 'mayUKMs'  
  SYNTAX 1.3.6.1.4.1.1466.115.121.1.5 ; binary syntax  
                                           ; encapsulating
```

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; MonthlyUKMs

SINGLE-VALUE)

3.64 mhs-acceptable-eits Attribute

The mhs-acceptable-eits attribute value identifies a set of EITs for messages. The user or distribution list, represented by the directory entry, will accept delivery of or expand a message in which any one of these eits is present.

```
( 2.6.5.2.17 NAME 'mhs-acceptable-eits'
  EQUALITY 2.5.13.0 ; objectIdentifierMatch
  SYNTAX 1.3.6.1.4.1.1466.115.121.1.38 ) ; OID
  ; ExtendedEncodedInformationType = object identifier
```

3.65 mhs-deliverable-classes Attribute

The mhs-deliverable-classes attribute value identifies the classes of messages whose delivery a UA, represented by the directory entry, will accept.

```
( 2.6.5.2.19 NAME 'mhs-deliverable-classes'
  EQUALITY 2.6.5.4.2 ; capabilityMatch
  SYNTAX 2.16.840.1.101.2.2.2.13 ) ; Capability syntax
```

3.66 mhs-deliverable-content-types Attribute

The mhs-deliverable-content-types attribute values identify the content types of the messages whose delivery the user, represented by the directory entry, will accept.

```
( 2.6.5.2.1 NAME 'mhs-deliverable-content-types'
  EQUALITY 2.5.13.0 ; objectIdentifierMatch
  SYNTAX 1.3.4.1.4.1.1466.115.121.1.38 ) ; ExtendedContentType
  ; = object identifier
```

3.67 mhs-dl-archive-service Attribute

The mhs-dl-archive-service attribute value identifies a service from which a user may request copies of messages previously distributed by the address list represented by the directory entry.

```
( 2.6.5.2.12 NAME 'mhs-dl-archive-service'
  EQUALITY 2.6.5.4.0 ; orNameExactMatch
  SYNTAX 2.16.840.1.101.2.2.2.10 ) ; O/R Name syntax
```

3.68 mhs-dl-members Attribute

The mhs-dl-members attribute value is an OR-name which identifies

a member of the DL. This attribute may have multiple values each of which identifies one member of the DL. When a DL is expanded,

each of the values of this attribute becomes a recipient of the message.

```
( 2.6.5.2.3 NAME 'mhs-dl-members'
  EQUALITY 2.6.5.4.0 ; oRNameExactMatch
  SYNTAX 2.16.840.1.101.2.2.2.10 ) ; O/R Name syntax
```

[3.69](#) mhs-dl-policy Attribute

The mhs-dl-policy attribute value identifies the choice of policy options to be applied when expanding the address list represented by the directory entry.

```
( 2.6.5.2.13 NAME 'mhs-dl-policy'
  SYNTAX 2.16.840.1.101.2.2.2.14 ; DLPolicy syntax
  SINGLE-VALUE )
```

[3.70](#) mhs-dl-related-lists Attribute

The mhs-dl-related-lists attribute value identifies other address lists which are, in some unspecified way, related to the address list represented by the directory entry.

```
( 2.6.5.2.14 NAME 'mhs-dl-related-lists'
  SUP 2.5.4.49 ; DistinguishedName
  EQUALITY 2.5.13.1 ; distinguishedNameMatch )
```

[3.71](#) mhs-dl-submit-permissions Attribute

The mhs-dl-submit-permissions attribute values identify the users and address lists that may submit messages to the address list represented by the directory entry.

```
( 2.6.5.2.4 NAME 'mhs-dl-submit-permissions'
  SYNTAX 2.16.840.1.101.2.2.2.15 ) ; DLSubmitPermission syntax
```

[3.72](#) mhs-dl-subscription-service Attribute

The mhs-dl-subscription-service attribute value identifies a service of which a user may request changes to the membership of the address list represented by the directory entry, (e.g., for a user to request to be added to the address list).

```
( 2.6.5.2.15 NAME 'mhs-dl-subscription-service'
  EQUALITY 2.6.5.4.0 ; oRNameExactMatch
  SYNTAX 2.16.840.1.101.2.2.2.10 ) ; O/R Name syntax
```

[3.73](#) mhs-exclusively-acceptable-eits Attribute

The mhs-exclusively-acceptable-eits attribute value identifies a set of EITs for messages. The user or distribution list, represented by the directory entry, will accept delivery of or

expand a message in which all of these EITs are present.

```
( 2.6.5.2.2 NAME 'mhs-exclusively-acceptable-eits'
    EQUALITY 2.5.13.0 ; objectIdentifierMatch
    SYNTAX 1.3.6.1.4.1.1466.115.121.1.38 ) ; OID
    ; ExtendedEncodedInformationType = object identifier
```

3.74 mhs-maximum-content-length Attribute

The mhs-maximum-content-length attribute value identifies the maximum content length of the messages that can be handled by the object represented by the directory entry. The object is a user to whom the message would be delivered, an address list for which expansion would be performed on the message, or an MTA to which the message would be acceptable.

```
( 2.6.5.2.0 NAME 'mhs-maximum-content-length'
    EQUALITY 2.5.13.14 ; integerMatch
    SYNTAX 1.3.6.1.4.1.1466.115.121.1.27 ; ContentLength = INTEGER
    SINGLE-VALUE )
```

3.75 mhs-message-store-dn Attribute

The mhs-message-store-dn attribute value identifies by directory name the message store of the user represented by the directory entry.

```
( 2.6.5.2.5 NAME 'mhs-message-store-dn'
    SUP 2.5.4.49 ; distinguishedName
    EQUALITY 2.5.13.1 ; distinguishedNameMatch
    SINGLE-VALUE )
```

3.76 mhs-or-addresses Attribute

The mhs-or-addresses attribute values specify the O/R addresses of the user or address list represented by the directory entry.

```
( 2.6.5.2.6 NAME 'mhs-or-addresses'
    EQUALITY 2.6.4.8.14 ; oAddressMatch
    SYNTAX 1.3.6.1.4.1.1466.115.121.1.33 ) ; MHS OR Address syntax
```

3.77 mhs-or-addresses-with-capabilities Attribute

The mhs-or-addresses-with-capabilities attribute values specify the O/R addresses and the messaging capabilities associated with each address of the user or address list represented by the directory entry.

Recognized security labels are identified in ACP 123 [[6](#)].

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Information about availability and nationality will be included in the description.

If the address is served by a foreign nation, the International Standard Organization 3166 [\[14\]](#) code of the country shall be entered first.

If an OR-address is not operational on a 24 by 7 basis, the normal daily schedule shall be given in start and stop times for each day of operation. Planned down time also shall be given in start and stop time.

```
( 2.6.5.2.16 NAME 'mhs-or-addresses-with-capabilities'
    EQUALITY 2.6.5.4.1 ; addressCapabilitiesMatch
    SYNTAX 2.16.840.1.101.2.2.2.16 ) ; AddressCapabilities syntax
```

[3.78](#) mhs-supported-attributes Attribute

The mhs-supported-attributes attribute values identify the attributes that the message store, represented by the directory entry, fully supports.

```
( 2.6.5.2.10 NAME 'mhs-supported-attributes'
    EQUALITY 2.5.13.0 ; objectIdentifierMatch
    SYNTAX 1.3.6.1.4.1.1466.115.121.1.38 ) ; OID
    ; MS-ATTRIBUTE.&id ({AttributeTable}) = object identifier
```

[3.79](#) mhs-supported-automatic-actions Attribute

The mhs-supported-automatic-actions attribute values identify the automatic actions that the message store, represented by the directory entry, supports.

```
( 2.6.5.2.8 NAME 'mhs-supported-automatic-actions'
    EQUALITY 2.5.13.0 ; objectIdentifierMatch
    SYNTAX 1.3.6.1.4.1.1466.115.121.1.38 ) ; OID
    ; AUTO-ACTION.&id ({AutoActionTable}) = object identifier
```

[3.80](#) mhs-supported-content-types Attribute

The mhs-supported-content-types attribute values identify the content types of the messages whose syntax and semantics the message store, represented by the directory entry, supports.

```
( 2.6.5.2.9 NAME 'mhs-supported-content-types'
    EQUALITY 2.5.13.0 ; objectIdentifierMatch
    SYNTAX 1.3.6.1.4.1.1466.115.121.1.38 ) ; OID
    ; ExtendedContentType = object identifier
```


3.81 mhs-supported-matching-rules Attribute

The mhs-supported-matching-rules attribute values identify the matching rules that the message store, represented by the directory entry, fully supports.

```
( 2.6.5.2.11 NAME 'mhs-supported-matching-rules'
    EQUALITY 2.5.13.0 ; objectIdentifierMatch
    SYNTAX 1.3.6.1.4.1.1466.115.121.1.38 ) ; OID
    ; MATCHING-RULE.&id ({MatchingRuleTable}) = object
    ; identifier
```

3.82 mhs-unacceptable-eits Attribute

The mhs-undeliverable-eits attribute value identifies the encoded information types of a message which would make a user not accept delivery, or which would prevent an address list from doing expansion on the message. The absence of this attribute indicates that there are no EITs which are unacceptable. The presence of the special value "id-eit-all" indicates that all EITs are unacceptable except for those EITs identified by the mhs-acceptable-eits or mhs-exclusively-acceptable-eits attributes.

```
( 2.6.5.2.18 NAME 'mhs-unacceptable-eits'
    EQUALITY 2.5.13.0 ; objectIdentifierMatch
    SYNTAX 1.3.6.1.4.1.1466.115.121.1.38 ) ; OID
    ; ExtendedEncodedInformationType = object identifier
```

3.83 militaryFacsimileNumber Attribute

The militaryFacsimileNumber attribute value identifies a military facsimile number, such as a Defense Switched Network (DSN) number or Defence Fixed Telecommunications Service (DFTS) number, which is associated with the object represented by the directory entry. This attribute is a subtype of aCPTelephoneFaxNumber. An example of a militaryFacsimileNumber value is "DFTS, 555 1111 ext 25".

```
( 2.16.840.1.101.2.2.1.119 NAME 'militaryFacsimileNumber'
    SUP 2.16.840.1.101.2.2.1.94 ) ; aCPTelephoneFaxNumber
```

3.84 militaryTelephoneNumber Attribute

The militaryTelephoneNumber attribute value identifies a military telephone number, such as a DSN number, which is associated with the object represented by the directory entry.

This attribute is a subtype of aCPTelephoneFaxNumber. An example of a militaryTelephoneNumber value is "DSN, 555-333".

```
( 2.16.840.1.101.2.2.1.120 NAME 'militaryTelephoneNumber'  
  SUP 2.16.840.1.101.2.2.1.94 ) ; acPTelephoneFaxNumber
```

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3.85 minimize Attribute

The minimize attribute value indicates whether an organization, person, or role, represented by the directory entry, is under the MINIMIZE condition. If so, the message originators are responsible for not sending unnecessary messages to the recipient.

```
( 2.16.840.1.101.2.2.1.64 NAME 'minimize'
  EQUALITY 2.5.13.13 ; booleanMatch
  SYNTAX 1.3.6.1.4.1.1466.115.121.1.7 ; BOOLEAN
  SINGLE-VALUE )
```

3.86 minimizeOverride Attribute

The minimizeOverride attribute value is used by the Message Conversion System (MCS) to determine whether the MINIMIZE condition will be enforced when a message is originated by this PLA. If the value is FALSE, override does not occur and MINIMIZE is enforced. If the value is TRUE, MINIMIZE is not enforced.

```
( 2.16.840.1.101.2.2.1.65 NAME 'minimizeOverride'
  EQUALITY 2.5.13.13 ; booleanMatch
  SYNTAX 1.3.6.1.4.1.1466.115.121.1.7
  SINGLE-VALUE )
```

3.87 nameClassification Attribute

The nameClassification attribute value indicates the security classification of the name of the directory entry itself.

```
( 2.16.840.1.101.2.2.1.67 NAME 'nameClassification'
  SYNTAX 2.16.840.1.101.2.2.2.4 ) ; Classification
```

3.88 nationality Attribute

The nationality attribute value names the country which "owns" an entity. For an individual, it would be the nationality of the person. The standard Country Name attribute is used to denote the location of the entity.

```
( 2.16.840.1.101.2.2.1.68 NAME 'nationality'
  SUP 2.5.4.41 ; name
  SYNTAX 1.3.6.1.4.1.1466.115.121.1.44{2} ; PrintableString
  ; exactly 2 characters
  SINGLE-VALUE )
```

3.89 networkDN Attribute

The networkDN attribute value contains the full DN of a network

and may be used to reference the entry for the network from another entry (e.g., used in the Network Instructions entry to reference the entry for the accessed network).

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```
( 2.16.840.1.101.2.2.1.121 NAME 'networkDN'
  EQUALITY 2.5.13.1 ; distinguishedNameMatch
  SYNTAX 1.3.6.1.4.1.1466.115.121.1.12 ) ; DistinguishedName
```

3.90 novUKMs Attribute

The novUKMs attribute value is used in the construction of selected CCEB symmetric confidentiality algorithms for the month of November.

```
( 2.16.840.1.101.2.1.5.30 NAME 'novUKMs'
  SYNTAX 1.3.6.1.4.1.1466.115.121.1.5 ; binary syntax
                                           ; encapsulating
                                           ; MonthlyUKMs
  SINGLE-VALUE )
```

3.91 octUKMs Attribute

The octUKMs attribute value is used in the construction of selected CCEB symmetric confidentiality algorithms for the month of October.

```
( 2.16.840.1.101.2.1.5.29 NAME 'octUKMs'
  SYNTAX 1.3.6.1.4.1.1466.115.121.1.5 ; binary syntax
                                           ; encapsulating
                                           ; MonthlyUKMs
  SINGLE-VALUE )
```

3.92 onSupported Attribute

The onSupported attribute value indicates the types of notifications, besides MHS notifications, generated by an mta-acp127-type of gateway. The gateway may generate all or none of the notifications. If the attribute is absent, the gateway does none of the notifications.

```
( 2.16.840.1.101.2.2.1.123 NAME 'onSupported'
  EQUALITY 2.5.13.16 ; bitStringMatch
  SYNTAX 2.16.840.1.101.2.2.2.3 ; otherNotificationsSupported
  SINGLE-VALUE )
```

3.93 operationName Attribute

The operationName attribute value is the name of an official military operation. For example, when used in the definition of a network (i.e., in a Network directory entry), it could be the TURQUOISE operation which develops a RITA network.

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```
( 2.16.840.1.101.2.2.1.124 NAME 'operationName'
  EQUALITY 2.5.13.2 ; caseIgnoreMatch
  SUBSTR 2.5.13.4 ; caseIgnoreSubstringsMatch
  SYNTAX 1.3.6.1.4.1.1466.115.121.1.15 ) ; DirectoryString
```

3.94 plaAddressees Attribute

The plaAddressees attribute value of an ACP 127/JANAP 128 [\[4\]](#)/[\[5\]](#) collective contains the list of action and information addressees of the collective. It is used for some types of collectives instead of separating action and information addressees.

```
( 2.16.840.1.101.2.2.1.71 NAME 'plaAddressees'
  EQUALITY 2.5.13.11 ; caseIgnoreListMatch
  SUBSTR 2.5.13.12 ; caseIgnoreListSubstringsMatch
  SYNTAX 2.16.840.1.101.2.2.2.2 ) ; Addressees syntax
```

3.95 plaNameACP127 Attribute

The plaNameACP127 attribute value is the object's (represented by the directory entry) ACP 127/JANAP 128 [\[4\]](#)/[\[5\]](#) PLA. A PLA is sometimes called the Signal Message Address or registered PLA. The long form of the PLA name is represented in the ACP 133 [\[1\]](#) by the longTitle attribute.

```
( 2.16.840.1.101.2.2.1.70 NAME 'plaNameACP127'
  SUP 2.5.4.41 ; name
  SYNTAX 1.3.6.1.4.1.1466.115.121.1.44{55} ; PrintableString
  SINGLE-VALUE )
```

3.96 plaReplace Attribute

The plaReplace attribute value is used by ACP 127/JANAP 128 [\[4\]](#)/[\[5\]](#). When an "alternate spelling" PLA is addressed on a message, the MCS will look at the value of this attribute in the PLA's directory entry. If set, the alternate spelling on the message will be replaced with the "primary" or correct spelling. (Each alternate spelling has a pointer to the primary PLA.)

```
( 2.16.840.1.101.2.2.1.72 NAME 'plaReplace'
  EQUALITY 2.5.13.13 ; booleanMatch
  SYNTAX 1.3.6.1.4.1.1466.115.121.1.7 ; BOOLEAN
  SINGLE-VALUE )
```

3.97 plasServed Attribute

The plasServed attribute value is a list of the PLAs accessible through a gateway.

```
( 2.16.840.1.101.2.2.1.138 NAME 'plasServed'  
  SUP 2.5.4.41 ) ; name
```

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[3.98](#) **positionNumber Attribute**

The position number attribute value is used by government and Defense agencies to identify uniquely each individual's position, and possibly role and duties, within the organization.

```
( 2.16.840.1.101.2.2.1.125 NAME 'positionNumber'
    EQUALITY 2.5.13.2 ; caseIgnoreMatch
    SUBSTR 2.5.13.4 ; caseIgnoreSubstringsMatch
    SYNTAX 1.3.6.1.4.1.1466.115.121.1.15 ) ; DirectoryString
```

[3.99](#) **primarySpellingACP127**

The primarySpellingACP127 attribute value of an Alternate Spelling PLA directory entry is the object's correct PLA spelling.

```
( 2.16.840.1.101.2.2.1.73 NAME 'primarySpellingACP127'
    EQUALITY 2.5.13.2 ; caseIgnoreMatch
    SUBSTR 2.5.13.4 ; caseIgnoreSubstringsMatch
    SYNTAX 1.3.6.1.4.1.1466.115.121.1.44{55} ; PrintableString
    SINGLE-VALUE )
```

[3.100](#) **proprietaryMailboxes Attribute**

The proprietaryMailboxes attribute value identifies a mailbox identifier that can be used to address mail within the local proprietary domain, such as cc:mail.

```
( 2.16.840.1.101.2.2.1.126 NAME 'proprietaryMailboxes'
    EQUALITY 2.5.13.2 ; caseIgnoreMatch
    SUBSTR 2.5.13.4 ; caseIgnoreSubstringsMatch
    SYNTAX 1.3.6.1.4.1.1466.115.121.1.15 ) ; DirectoryString
```

[3.101](#) **publish Attribute**

The publish attribute value indicates whether this PLA should be published in the Message Address Directory or the ACP 117 [\[15\]](#). Access controls may be set based on this attribute.

```
( 2.16.840.1.101.2.2.1.74 NAME 'publish'
    EQUALITY 2.5.13.13 ; booleanMatch
    SYNTAX 1.3.6.1.4.1.1466.115.121.1.7 ; BOOLEAN
    SINGLE-VALUE )
```

[3.102](#) **rank Attribute**

The value of the rank attribute type contains the military or civilian rank of an individual such as Major or civilian grade.

```
( 2.16.840.1.101.2.2.1.133 NAME 'rank'  
  EQUALITY 2.5.13.2 ; caseIgnoreMatch
```

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```
SUBSTR 2.5.13.4 ; caseIgnoreSubstringsMatch
SYNTAX 1.3.6.1.4.1.1466.115.121.1.15 ) ; DirectoryString
```

3.103 recapDueDate Attribute

The recapDueDate attribute value indicates when a list is expected to be recapped or validated.

```
( 2.16.840.1.101.2.2.1.75 NAME 'recapDueDate'
  EQUALITY 2.5.13.27 ; generalizedTimeMatch
  SYNTAX 1.3.6.1.4.1.1466.115.121.1.24 ; GeneralizedTime
  SINGLE-VALUE )
```

3.104 releaseAuthorityName Attribute

The releaseAuthorityName attribute value is a relative distinguished name of a release authority for an organization.

```
( 2.16.840.1.101.2.2.1.45 NAME 'releaseAuthorityName'
  EQUALITY 2.5.13.2 ; caseIgnoreMatch
  SUBSTR 2.5.13.4 ; caseIgnoreSubstringsMatch
  SYNTAX 1.3.6.1.4.1.1466.115.121.1.15{64} ) ; DirectoryString
```

3.105 remarks Attribute

The remarks attribute value is textual information associated with a PLA's directory entry. These remarks may be instructions rather than a description of the entity.

```
( 2.16.840.1.101.2.2.1.76 NAME 'remarks'
  EQUALITY 2.5.13.11 ; caseIgnoreListMatch
  SYNTAX 2.16.840.1.101.2.2.2.11 ) ; Remarks
```

3.106 rfc822Mailbox Attribute

As defined in the COSINE/Internet schema, [RFC 1274](#) [[13](#)], the rfc822Mailbox attribute value is an electronic mailbox identifier following the syntax in [RFC 822](#) [[16](#)]. An example for a user on a military network is "user@host.Service.mil". This attribute and the caseIgnoreIA5SubstringsMatch are defined in [RFC 2798](#) [[19](#)]. The attribute is included here for readability.

```
( 0.9.2342.19200300.100.1.3 NAME 'mail'
  EQUALITY 1.3.6.1.4.1.1466.109.114.2 ; caseIgnoreIA5Match
  SUBSTR 1.3.6.1.4.1.1466.109.114.3
    ; caseIgnoreIA5SubstringsMatch
  SYNTAX 1.3.6.1.4.1.1466.115.121.1.26{256} ) ; IA5String
```

3.107 rI Attribute

The rI (Routing Indicator) attribute value is the information mapped to in ACP 127/JANAP 128 [\[4\]](#)/[\[5\]](#) from a user's PLA name.

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Users are named by their PLA names and delivered to by their routing indicator values, analogous to Directory Names and O/R Addresses for X.400 users.

```
( 2.16.840.1.101.2.2.1.77 NAME 'rI'
    EQUALITY 2.5.13.2 ; caseIgnoreMatch
    SUBSTR 2.5.13.4 ; caseIgnoreSubstringsMatch
    SYNTAX 1.3.6.1.4.1.1466.115.121.1.44 ) ; PrintableString
                                ; exactly 7 characters
```

3.108 rIClassification Attribute

The rIClassification attribute value indicates the highest classification of data allowed to be processed by a specified device.

```
( 2.16.840.1.101.2.2.1.78 NAME 'rIClassification'
    SYNTAX 2.16.840.1.101.2.2.2.4 ) ; Classification
```

3.109 rIInfo Attribute

The rIInfo attribute value is RI values with the associated properties of each RI.

```
( 2.16.840.1.101.2.2.1.79 NAME 'rIInfo'
    SYNTAX 2.16.840.1.101.2.2.2.12 ) ; RIParameters
```

3.110 roomNumber Attribute

The roomNumber attribute value identifies a room number, as defined in the COSINE/Internet schema, [RFC 1274](#) [13].

```
( 0.9.2342.19200300.100.1.6 NAME 'roomNumber'
    EQUALITY 2.5.13.2 ; caseIgnoreMatch
    SUBSTR 2.5.13.4 ; caseIgnoreSubstringsMatch
    SYNTAX 1.3.6.1.4.1.1466.115.121.1.15{256} ) ; DirectoryString
                                ; limited to TeletexString or PrintableString
```

3.111 secondPartyAddressees Attribute

The secondPartyAddressees attribute value is a list of second party action PLAs.

```
( 2.16.840.1.101.2.2.1.80 NAME 'secondPartyAddressees'
    EQUALITY 2.5.13.11 ; caseIgnoreListMatch
    SUBSTR 2.5.13.12 ; caseIgnoreListSubstringsMatch
    SYNTAX 2.16.840.1.101.2.2.2.2 ) ; Addressees
```

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[3.112](#) section Attribute

The section attribute value is set to TRUE if the receiving PLA requires message sectioning to be performed. This is required to transition users with slow-speed terminals.

```
( 2.16.840.1.101.2.2.1.81 NAME 'section'
  EQUALITY 2.5.13.13 ; booleanMatch
  SYNTAX 1.3.6.1.4.1.1466.115.121.1.7 ; BOOLEAN
  SINGLE-VALUE )
```

[3.113](#) secureFacsimileNumber Attribute

The secureFacsimileNumber attribute value is a facsimile number that is used for secure communication with the object represented by the directory entry.

This attribute is a subtype of aCPTelephoneFaxNumber. An example of a secureFacsimileNumber value is "DSN, 555-333".

```
( 2.16.840.1.101.2.2.1.127 NAME 'secureFacsimileNumber'
  SUP 2.16.840.1.101.2.2.1.94 ) ; aCPTelephoneFaxNumber
```

[3.114](#) secureTelephoneNumber Attribute

The secureTelephoneNumber attribute value is a telephone number of a secure device, such as STU II or STU III, that is used for secure communication with the object represented by the directory entry.

This attribute is a subtype of aCPTelephoneFaxNumber. An example of a secureTelephoneNumber value is "PSTN, +1 555 222, STU III".

```
( 2.16.840.1.101.2.2.1.128 NAME 'secureTelephoneNumber'
  SUP 2.16.840.1.101.2.2.1.94 ; aCPTelephoneFaxNumber )
```

[3.115](#) sepUKMs Attribute

The sepUKMs attribute value is used in the construction of selected CCEB symmetric confidentiality algorithms for the month of November.

```
( 2.16.840.1.101.2.1.5.28 NAME 'sepUKMs'
  SYNTAX 1.3.6.1.4.1.1466.115.121.1.5 ; binary syntax
                                     ; encapsulating
                                     ; MonthlyUKMs
  SINGLE-VALUE )
```

[3.116](#) serviceNumber Attribute

The serviceNumber attribute value is the staff identifier number used by government and defense agencies for purposes such as

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payroll references, medical records, human resources, and duty rosters.

```
( 2.16.840.1.101.2.2.1.129 NAME 'serviceNumber'
    EQUALITY 2.5.13.2 ; caseIgnoreMatch
    SUBSTR 2.5.13.4 ; caseIgnoreSubstringsMatch
    SYNTAX 1.3.6.1.4.1.1466.115.121.1.15 ) ; DirectoryString
```

3.117 serviceOrAgency Attribute

The serviceOrAgency attribute value is an identifier of the Service or agency to which the PLA belongs.

```
( 2.16.840.1.101.2.2.1.82 NAME 'serviceOrAgency'
    EQUALITY 2.5.13.2 ; caseIgnoreMatch
    SUBSTR 2.5.13.4 ; caseIgnoreSubstringsMatch
    SYNTAX 1.3.6.1.4.1.1466.115.121.1.44{4} ; PrintableString
    SINGLE-VALUE )
```

3.118 sHD Attribute

The sHD (specialHandlingDesignator) attribute value is a string containing the special handling designator which an entity, address, or routing indicator can support.

```
( 2.16.840.1.101.2.2.1.83 NAME 'sHD'
    EQUALITY 2.5.13.2 ; caseIgnoreMatch
    SUBSTR 2.5.13.4 ; caseIgnoreSubstringsMatch
    SYNTAX 1.3.6.1.4.1.1466.115.121.1.44 ) ; PrintableString
```

3.119 shortTitle Attribute

The shortTitle attribute value is a PLA name used for Signal Intelligence (SIGINT) related communications.

```
( 2.16.840.1.101.2.2.1.84 NAME 'shortTitle'
    EQUALITY 2.5.13.2 ; caseIgnoreMatch
    SUBSTR 2.5.13.4 ; caseIgnoreSubstringsMatch
    SYNTAX 1.3.6.1.4.1.1466.115.121.1.44{55} ; PrintableString
    SINGLE-VALUE )
```

3.120 sigad Attribute

The sigad (SIGINT Address) attribute value is a PLA name used for sensitive SIGINT related communications.

```
( 2.16.840.1.101.2.2.1.85 NAME 'sigad'
    EQUALITY 2.5.13.2 ; caseIgnoreMatch
    SUBSTR 2.5.13.4 ; caseIgnoreSubstringsMatch
```

```
SYNTAX 1.3.6.1.4.1.1466.115.121.1.44{8} ; PrintableString
; 5 - 8 characters
SINGLE-VALUE )
```


[3.121](#) **spot Attribute**

The spot attribute value identifies a special project address list or collective.

```
( 2.16.840.1.101.2.2.1.86 NAME 'spot'
  EQUALITY 2.5.13.2 ; caseIgnoreMatch
  SUBSTR 2.5.13.4 ; caseIgnoreSubstringsMatch
  SYNTAX 1.3.6.1.4.1.1466.115.121.1.44{55} ; PrintableString
  SINGLE-VALUE )
```

[3.122](#) **tARE Attribute**

The tARE (Telegraph Automatic Relay Equipment) attribute value is a flag that specifies delivery responsibility for a message that is received by an intermediary. The flag is set in the directory entry for the intended recipient.

```
( 2.16.840.1.101.2.2.1.87 NAME 'tARE'
  EQUALITY 2.5.13.13 ; booleanMatch
  SYNTAX 1.3.6.1.4.1.1466.115.121.1.7 ; BOOLEAN
  SINGLE-VALUE )
```

[3.123](#) **tCC Attribute**

The tCC (Transmission Control Code) attribute value specifies a message handling instruction used in the RI.

```
( 2.16.840.1.101.2.2.1.96 NAME 'tCC'
  EQUALITY 2.5.13.2 ; caseIgnoreMatch
  SYNTAX 1.3.6.1.4.1.1466.115.121.1.44 ; PrintableString
                                          ; exactly 3 characters
  SINGLE-VALUE )
```

[3.124](#) **tCCG ATTRIBUTE**

The tCCG (Transmission Control Code Group) attribute value specifies a group of message handling instructions used in the routing indicator.

```
( 2.16.840.1.101.2.2.1.144 NAME 'tCCG'
  SYNTAX 1.3.6.1.4.1.1466.115.121.1.44 ; PrintableString
  EQUALITY 2.5.13.2 ; caseIgnoreMatch
  SUBSTR 2.5.13.4 ) ; caseIgnoreSubstringsMatch
```

[3.125](#) **transferStation Attribute**

The transferStation attribute value indicates whether a message for the entity should be sent to a communications processing and

routing system, called a transfer station. For example, a Naval Communications Processing and Routing System (NAVCOMPARS) is a

transfer station. If this attribute is TRUE, traffic should be routed to a transfer station.

```
( 2.16.840.1.101.2.2.1.69 NAME 'transferStation'
  EQUALITY 2.5.13.13 ; booleanMatch
  SYNTAX 1.3.6.1.4.1.1466.115.121.1.7 ; BOOLEAN
  SINGLE-VALUE )
```

[3.126](#) tRC Attribute

The tRC (Transmission Release Code) attribute value is the classification of data used in the routing indicator. Possible values include:

A	Australia
B	British Commonwealth less Canada, Australia, and New Zealand
C	Canada
U	US
X	Belgium, Denmark, France, Germany, Greece, Italy, Netherlands, Norway, Portugal, Turkey, NATO
Z	New Zealand

```
( 2.16.840.1.101.2.2.1.97 NAME 'tRC'
  EQUALITY 2.5.13.2 ; caseIgnoreMatch
  SYNTAX 1.3.6.1.4.1.1466.115.121.1.44 ; PrintableString
  SINGLE-VALUE )
```

[3.127](#) usdConversion ATTRIBUTE

The usdConversion attribute value is an organizational address that is used when other types of address are not appropriate.

```
( 2.16.840.1.101.2.2.1.145 NAME 'usdConversion'
  SYNTAX 1.3.6.1.4.1.1466.115.121.1.15 ; DirectoryString
  EQUALITY 2.5.13.2 ; caseIgnoreMatch
  SUBSTR 2.5.13.4 ) ; caseIgnoreSubstringsMatch
```


4. NAME FORMS

4.1 aCPNetworkEdBNameForm

```
( 2.16.840.1.101.2.2.4.42 NAME 'aCPNetworkEdBNameForm'  
  OC 2.16.840.1.101.2.2.3.68 ; aCPNetworkEdB  
  MUST 2.5.4.3 ) ; cn
```

4.2 aCPNetworkInstrEdBNameForm

```
( 2.16.840.1.101.2.2.4.43 NAME 'aCPNetworkInstrEdBNameForm'  
  OC 2. ; aCPNetworkInstructionsEdB  
  MUST 2.5.4.3 ) ; cn
```

4.3 addressListNameForm

```
( 2.16.840.1.101.2.2.4.27 NAME 'addressListNameForm'  
  OC 2.16.840.1.101.2.2.3.57 ; addressList  
  MUST 2.5.4.3 ) ; cn
```

4.4 aENAMEForm

```
( 2.16.840.1.101.2.2.4.34 NAME 'aENAMEForm'  
  OC 2.5.6.12 ; applicationEntity  
  MUST 2.5.4.3 ; cn  
  MAY 2.5.4.46 ) ; dnQualifier
```

4.5 aliasCNNameForm

```
( 2.16.840.1.101.2.2.4.21 NAME 'aliasCNNameForm'  
  OC 2.16.840.1.101.2.2.3.52 ; aliasCommonName  
  MUST 2.5.4.3 ) ; cn
```

4.6 aliasOUNameForm

```
( 2.16.840.1.101.2.2.4.22 NAME 'aliasOUNameForm'  
  OC 2.16.840.1.101.2.2.3.53 ; aliasOrganizationalUnit  
  MUST 2.5.4.11 ) ; ou
```

4.7 applProcessNameForm

```
( 2.5.15.10 NAME 'applProcessNameForm'  
  OC 2.5.6.11 ; applicationProcess  
  MUST 2.5.4.3 ) ; cn
```

4.8 alternateSpellingPLANameForm

```
( 2.16.840.1.101.2.2.4.4 NAME 'alternateSpellingPLANameForm'  
  OC 2.16.840.1.101.2.2.3.58 ; altSpellingACP127
```

MUST 2.16.840.1.101.2.2.1.70) ; plaNamACP127

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[4.9](#) **cadPLANameForm**

```
( 2.16.840.1.101.2.2.4.6 NAME 'cadPLANameForm'
  OC 2.16.840.1.101.2.2.3.28 ; cadACP127
  MUST 2.16.840.1.101.2.2.1.70 ) ; plaNAmACP127
```

[4.10](#) **cRLDistPtNameForm**

```
( 2.5.15.14 NAME 'cRLDistPtNameForm'
  OC 2.5.6.19 ; cRLDistributionPoint
  MUST 2.5.4.3 ) ; cn
```

[4.11](#) **countryNameForm**

```
( 2.5.15.0 NAME 'countryNameForm'
  OC 2.5.6.2 ; country
  MUST 2.5.4.6 ) ; countryName
```

[4.12](#) **deviceNameForm**

```
( 2.5.15.13 NAME 'deviceNameForm'
  OC 2.5.6.14 ; device
  MUST 2.5.4.3 ) ; cn
```

[4.13](#) **distributionCodeDescriptionNameForm**

```
( 2.16.840.1.101.2.2.4.23 NAME 'distributionCodeDescriptionNameForm'
  OC 2.16.840.1.101.2.2.3.55 ; distributionCodeDescription
  MUST 2.5.4.3 ) ; cn
```

[4.14](#) **dSANameForm**

```
( 2.5.15.12 NAME 'dSANameForm'
  OC 2.5.6.13 ; dSA
  MUST 2.5.4.3 ) ; cn
```

[4.15](#) **dSSCSPLANameForm**

```
( 2.16.840.1.101.2.2.4.41 NAME 'dSSCSPLANameForm'
  OC 2.16.840.1.101.2.2.3.67 ; dSSCSPLA
  MUST 2.16.840.1.101.2.2.1.70 ) ; plaNAmACP127
```

[4.16](#) **gONNameForm**

```
( 2.5.15.8 NAME 'gONNameForm'
  OC 2.5.6.9 ; groupOfNames
  MUST 2.5.4.3 ) ; cn
```


[4.17](#) locNameForm

```
( 2.5.15.1 NAME 'locNameForm'
  OC 2.5.6.3 ; locality
  MUST 2.5.4.7 ) ; localityName
```

[4.18](#) messagingGatewayNameForm

```
( 2.16.840.1.101.2.2.4.28 NAME 'messagingGatewayNameForm'
  OC 2.16.840.1.101.2.2.4.59 ; messagingGateway
  MUST 2.5.4.3 ) ; cn
```

[4.19](#) mhs-dLNameForm

```
( 2.16.840.1.101.2.2.4.29 NAME 'mhs-dLNameForm'
  OC 2.6.5.1.0 ; mhs-distribution-list
  MUST 2.5.4.3 ) ; cn
```

[4.20](#) mLNameForm

```
( 2.16.840.1.101.2.2.4.9 NAME 'mLNameForm'
  OC 2.16.840.1.101.2.2.3.31 ; mL
  MUST 2.5.4.3 ) ; cn
```

[4.21](#) mLAgentNameForm

```
( 2.16.840.1.101.2.2.4.40 NAME 'mLAgentNameForm'
  OC 2.16.840.1.101.2.2.3.64 ; mLAgent
  MUST 2.5.4.3 ) ; cn
```

[4.22](#) mSNameForm

```
( 2.16.840.1.101.2.2.4.24 NAME 'mSNameForm'
  OC 2.6.5.1.1 ; mhs-message-store
  MUST 2.5.4.3 ) ; cn
```

[4.23](#) mTANameForm

```
( 2.16.840.1.101.2.2.4.25 NAME 'mTANameForm'
  OC 2.6.5.1.2 ; mhs-message-transfer-agent
  MUST 2.5.4.3 ) ; cn
```

[4.24](#) mUNameForm

```
( 2.16.840.1.101.2.2.4.26 NAME 'mUNameForm'
  OC 2.6.5.1.4 ; mhs-user-agent
  MUST 2.5.4.3 ) ; cn
```


[4.25](#) **organizationalPLANameForm**

```
( 2.16.840.1.101.2.2.4.12 NAME 'organizationalPLANameForm'  
  OC 2.16.840.1.101.2.2.3.34 ; orgACP127  
  MUST 2.16.840.1.101.2.2.1.70 ) ; plaNameACP127
```

[4.26](#) **organizationNameForm**

```
( 2.16.840.1.101.2.2.4.35 NAME 'organizationNameForm'  
  OC 2.5.6.4 ; organization  
  MUST 2.5.4.10 ; organizationName  
  MAY 2.5.4.46 ) ; dnQualifier
```

[4.27](#) **orgRNameForm**

```
( 2.16.840.1.101.2.2.4.37 NAME 'orgRNameForm'  
  OC 2.5.6.8 ; organizationalRole  
  MUST 2.5.4.3 ; cn  
  MAY 2.5.4.46 ) ; dnQualifier
```

[4.28](#) **orgUNameForm**

```
( 2.16.840.1.101.2.2.4.38 NAME 'orgUNameForm'  
  OC 2.5.6.5 ; organizationalUnit  
  MUST 2.5.4.11 ; organizationalUnitName  
  MAY 2.5.4.46 ) ; dnQualifier
```

[4.29](#) **plaCollectiveNameForm**

```
( 2.16.840.1.101.2.2.4.13 NAME 'plaCollectiveNameForm'  
  OC 2.16.840.1.101.2.2.3.35 ; plaCollectiveACP127  
  MUST 2.16.840.1.101.2.2.1.70 ) ; plaNameACP127
```

[4.30](#) **qualifiedOrgPersonNameForm**

```
( 2.16.840.1.101.2.2.4.36 NAME 'qualifiedOrgPersonNameForm'  
  OC 2.5.6.7 ; organizationalPerson  
  MUST 2.5.4.3 ; cn  
  MAY ( 2.5.4.46 ; dnQualifier  
        $ 2.5.4.11 ) ; organizationalUnitName
```

[4.31](#) **releaseAuthorityPersonNameForm**

```
( 2.16.840.1.101.2.2.4.32 NAME 'releaseAuthorityPersonNameForm'  
  OC 2.16.840.1.101.2.2.3.63 ; releaseAuthorityPerson  
  MUST 2.16.840.1.101.2.2.1.45 ) ; releaseAuthorityName
```

[4.32](#) **releaseAuthorityPersonANameForm**

```
( 2.16.840.1.101.2.2.4.39 NAME 'releaseAuthorityPersonANameForm'
```

OC 2.16.840.1.101.2.2.3.65 ; releaseAuthorityPersonA
MUST 2.16.840.1.101.2.2.1.45) ; releaseAuthorityName

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4.33 routingIndicatorNameForm

```
( 2.16.840.1.101.2.2.4.15 NAME 'routingIndicatorNameForm'
  OC 2.16.840.1.101.2.2.3.37 ; routingIndicator
  MUST 2.16.840.1.101.2.2.1.77 ) ; rI
```

4.34 sigintPLANameForm

```
( 2.16.840.1.101.2.2.4.16 NAME 'sigintPLANameForm'
  OC 2.16.840.1.101.2.2.3.38 ; sigintPLA
  MUST 2.16.840.1.101.2.2.1.85 ) ; sigad
```

4.35 sIPLANameForm

```
( 2.16.840.1.101.2.2.4.17 NAME 'sIPLANameForm'
  OC 2.16.840.1.101.2.2.3.39 ; sIPLA
  MUST 2.16.840.1.101.2.2.1.63 ) ; longTitle
```

4.36 sOPNameForm

```
( 2.5.15.2 NAME 'sOPNameForm'
  OC 2.5.6.3 ; locality
  MUST 2.5.4.8 ) ; stateOrProvinceName
```

4.37 spotPLANameForm

```
( 2.16.840.1.101.2.2.4.18 NAME 'spotPLANameForm'
  OC 2.16.840.1.101.2.2.3.40 ; spotPLA
  MUST 2.16.840.1.101.2.2.1.86 ) ; spot
```

4.38 taskForcePLANameForm

```
( 2.16.840.1.101.2.2.4.19 NAME 'taskForcePLANameForm'
  OC 2.16.840.1.101.2.2.3.41 ; taskForceACP127
  MUST 2.16.840.1.101.2.2.1.70 ) ; plaNameACP127
```

4.39 tenantPLANameForm

```
( 2.16.840.1.101.2.2.4.20 NAME 'tenantPLANameForm'
  OC 2.16.840.1.101.2.2.3.42 ; tenantACP127
  MUST 2.16.840.1.101.2.2.1.70 ) ; plaNameACP127
```


5. MATCHING RULES

5.1 addressCapabilitiesMatch Matching Rule

```
( 2.6.5.4.1 NAME 'addressCapabilitiesMatch'  
  SYNTAX 2.16.840.1.101.2.2.2.16 ) ; Address Capabilities syntax
```

5.2 capabilityMatch Matching Rule

```
( 2.6.5.4.2 NAME 'capabilityMatch'  
  SYNTAX 2.16.840.1.101.2.2.2.13 ) ; Capability syntax
```

5.3 oRAddressMatch Matching Rule

```
( 2.6.4.8.14 NAME 'oRAddressMatch'  
  SYNTAX 1.3.6.1.4.1.1466.115.121.1.33 )
```

5.4 oRNameExactMatch Matching Rule

```
( 2.6.5.4.0 NAME 'oRNameExactMatch'  
  SYNTAX 2.16.840.1.101.2.2.2.10 ) ; O/R Name syntax
```

5.5 caseIgnoreListSubstringsMatch Matching Rule

```
( 2.5.13.12 NAME 'caseIgnoreListSubstringsMatch'  
  SYNTAX 1.3.6.1.4.1.1466.115.121.1.58 ) ; Substring Assertion
```

5.6 booleanMatch Matching Rule

```
( 2.5.13.13 NAME 'booleanMatch'  
  SYNTAX 1.3.6.1.4.1.1466.115.121.1.7 ) ; BOOLEAN
```


6. ATTRIBUTE SYNTAXES

6.1 aCPLegacyFormat Attribute Syntax

(2.16.840.1.101.2.2.2.17 DESC 'aCPLegacyFormat syntax')

The encoding of a value in this syntax is any one of the INTEGER values: 0 - 15 or 32 - 48 where:

- 0 means JANAP128,
- 1 means ACP126,
- 2 means DOI103,
- 3 means DOI103Special,
- 4 means ACP127,
- 5 means ACP127Converted,
- (6 means Reserved1),
- 7 means ACP127State,
- 8 means ACP127Modified,
- 9 means SOCOMMSpecial,
- 10 means SOCOMMNarrative,
- (11 means Reserved2),
- 12 means SOCOMMNarrativeSpecial,
- 13 means SOCOMMData,
- 14 means SOCOMMInternal,
- 15 means SOCOMMEExternal, and
- 32 - 48 means national or bilateral use.

6.2 aCPPPreferredDelivery Attribute Syntax for the aCPPPreferredDelivery Attribute

(2.16.840.1.101.2.2.2.6 DESC 'aCPPPreferredDelivery syntax')

The encoding of a value in this syntax is any one of the INTEGER values: 0, 1, or 2, where:

- 0 means SMTP,
- 1 means ACP 127, and
- 2 means MHS

6.3 aCPTelephoneFaxNumber Attribute Syntax

(2.16.840.1.101.2.2.2.1 DESC 'aCPTelephoneFaxNumber syntax')

Values in this syntax are encoded according to the following BNF:

aCPTelephoneFaxNumber = netid " , " telephonenumber [" , " secured devid]

nocommap = a /d / "" / "(" / ")" / "+" / "-" / "." / "/" /

":" / "?" / " "

netid = 1*6nocommap

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```
telephonenumber = 1*32nocommap
```

```
securdevId = 1*8p
```

For more information, see ACP 133 [1], Annex B, clause 24.

[6.4](#) **AddressCapabilities Attribute Syntax from X.402 [17]**

```
( 2.16.840.1.101.2.2.2.16 DESC 'AddressCapabilities' )
```

Values in this syntax are encoded according to the following BNF:

```
addresscapabilities = [ "description=" generalstring ]
                    "address=" oraddress
                    "capabilities=" [ capability *( "$"capability ) ]

generalstring = ; The encoding of a value in this element
                ; of the syntax is the string value itself.

oraddress = ; MHS OR Address syntax
            ; 1.3.6.1.4.1.1466.115.121.1.33

capability = ; capability syntax 2.16.840.1.101.2.2.2.13
```

[6.5](#) **Addressees Attribute Syntax**

```
( 2.16.840.1.101.2.2.2.2 DESC 'Addressees' )
```

Values in this syntax are encoded according to the following BNF:

```
addressees = [ 1*55p *( "$" 1*55p ) ]
```

That is, if the Addressees value is an empty sequence, the result is the empty or zero length string. Otherwise, the output consists of the PrintableString encoding of each element in the sequence, in the same order as in the sequence with "\$" between the elements.

[6.6](#) **addressListType Attribute Syntax for the aLType Attribute**

```
( 2.16.840.1.101.2.2.2.8 DESC 'addressListType' )
```

Values in this syntax are encoded according to the following BNF:

```
addressListType = [ "-" ] numericstring ; an INTEGER, where:
                                     ; 0 means AIG,
                                     ; 1 means TYPE,
                                     ; 2 means CAD, and
                                     ; 3 means TASKFORCE
```

Note that future definitions of this syntax may assign a standard

meaning to another integer value, e.g., 4 means XXX.

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6.7 Capability Attribute Syntax from X.402 [17]

(2.16.840.1.101.2.2.2.13 DESC 'Capability')

Values in this syntax are encoded according to the following BNF:

```
capability = [ "content-types="
               [numericoid *( " " numericoid) ] ]
[ "maximum-content-length=" numericstring ]
    ; an INTEGER in the range 0 - 2147483647
[ "encoded-information-types-constraints="
    [ "unaccept eits" unacceptable-eits ]
    [ "accept eits" acceptable-eits ]
    [ "only eits"
        exclusively-acceptable-eits ] ]
[ "security-labels=" securitycontext ]

unacceptable-eits = extendedencodedeits
acceptable-eits = extendedencodedeits
exclusively-acceptable-eits = extendedencodedeits
extendedencodedeits = numericoid *1023( " " numericoid )
securitycontext = securitylabel *255securitylabel
securitylabel = [ "security-policy-id=" numericoid ]
                [ "security-classification=" numericstring ]
                  ; an INTEGER in the range 0 - 256, where
                  ; 0 means Unmarked,
                  ; 1 means Unclassified,
                  ; 2 means Restricted,
                  ; 3 means Confidential,
                  ; 4 means Secret, and
                  ; 5 means Top Secret
                [ "privacy-mark=" 1*128p ]
                [ "security-categories=" securitycategories ]

securitycategories = ; the BER encoding of the set of type
                    ; and value pairs for the instances of any
                    ; data types that are specified to be
                    ; SECURITY-CATEGORY types
```

6.8 Classification Attribute Syntax

(2.16.840.1.101.2.2.2.4 DESC 'Classification')

The encoding of a value in this syntax is any one of the INTEGER values: 0, 1, 2, 3, 4, or 5, where:

- 0 means unmarked,
- 1 means unclassified,
- 2 means restricted,
- 3 means confidential,
- 4 means secret, and
- 5 means top secret

[6.9](#) Community Abstract Syntax for the community Attribute

(2.16.840.1.101.2.2.2.5 DESC 'Community syntax')

The encoding of a value in this syntax is any one of the INTEGER values: 0, 1, or 2, where:

- 0 means GENSER,
- 1 means SI, and
- 2 means both

[6.10](#) DLPolicy Attribute Syntax from X.402 [[17](#)]

(2.16.840.1.101.2.2.2.14 DESC 'DLPolicy')

Values in this syntax are encoded according to the following BNF:

```
dlpolicy = [ "report-propagation=" [ "-" ] numericstring ]
           ; where 0 means previous-dl-or-originator,
           ; 1 means dl-owner, and
           ; 2 means both
[ "report-from-dl=" [ "-" ] numericstring ]
           ; where 0 means whenever-requested and
           ; 1 means when-no-propagation
[ "originating-MTA-report=" [ "-" ] numericstring ]
           ; where 0 means unchanged,
           ; 2 means report,
           ; 3 means non-delivery-report, and
           ; 4 means audited-report
[ "originator-report=" [ "-" ] numericstring ]
           ; where 0 means unchanged,
           ; 1 means no-report,
           ; 2 means report, and
           ; 3 means non-delivery-report
[ "return-of-content=" numericstring ]
           ; an INTEGER in the range 0 - 2, where
           ; 0 means unchanged,
           ; 1 means content-return-not-requested,
           ; and 2 means content-return-requested
```

```
[ "priority=" [ "-" ] numericstring ] ; where  
    ; 0 means unchanged,  
    ; 1 means normal,
```



```
        ; 2 means non-urgent, and
        ; 3 means urgent
[ "disclosure-of-other-recipients=" numericstring ]
; an INTEGER in the range 0 - 2, where
; 0 means unchanged,
; 1 means disclosure-of-other-recipients-prohibited,
; and 2 means disclosure-of-other-recipients-allowed
[ "implicit-conversion-prohibited=" numericstring ]
        ; an INTEGER in the range 0 - 2, where
        ; 0 means unchanged,
        ; 1 means implicit-conversion-allowed, and
        ; 2 means implicit-conversion-prohibited
[ "conversion-with-loss-prohibited=" numericstring ]
        ; an INTEGER in the range 0 - 2, where
        ; 0 means unchanged,
        ; 1 means conversion-with-loss-allowed, and
        ; 2 means conversion-with-loss-prohibited
[ "further-dl-expansion-allowed=" ( "TRUE" /
                                   "FALSE" ) ]
[ "originator-requested-alternate-recipient-removed="
  ( "TRUE" / "FALSE" ) ]
[ "proof-of-delivery=" [ "-" ] numericstring ]
        ; where 0 means dl-expansion-point,
        ; 1 means dl-members,
        ; 2 means both, and
        ; 3 means neither
[ "requested-delivery-method=" ( "unchanged" /
                                "removed" /
                                ( "replaced: " requested-delivery-method ) ) ]

requested-delivery-method = [ delivery-methods
                             *( " delivery-methods ) ]

delivery-methods = numericstring ; an INTEGER in the range
        ; 0 - 256, where
        ; 0 means any-delivery-method, 1 means
        ; mhs-delivery, 2 means physical-delivery,
        ; 3 means telex-delivery,
        ; 4 means teletex-delivery,
        ; 5 means g3-facsimile-delivery,
        ; 6 means g4-facsimile-delivery,
        ; 7 means ia5-terminal-delivery,
        ; 8 means videotex-delivery, and
        ; 9 means telephone-delivery
```

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6.11 DLSubmitPermission Attribute Syntax from X.402 [17]

(2.16.840.1.101.2.2.2.15 DESC 'DLSubmitPermission')

Values in this syntax are encoded according to the following BNF:

```

dlsubmitpermission = ( "individual=" orname ) /
                    ( "member-of-dl=" orname ) /
                    ( "pattern-match=" orname ) /
                    ( "member-of-group=" name )

orname = ; O/R Name syntax 2.16.840.1.101.2.2.2.10

name = ; DN syntax 1.3.6.1.4.1.1466.115.121.1.12

```

6.12 MLReceiptPolicy Attribute Syntax

(2.16.840.1.101.2.2.2.9 DESC 'MLReceiptPolicy')

Values in this syntax are encoded according to the following BNF:

```

mlReceiptPolicy = none / insteadof / inadditionto

none = "none"

insteadof = "instead of" generalnames *15( "$" generalnames )

inadditionto = "in addition to" generalnames
              *15( "$" generalnames )

generalnames = generalname *( "%" generalname )

generalname = ( "otherName = " othername ) /
              ( "rfc822Name = " ia5string ) /
              ( "dNSName = " ia5string ) /
              ( "x400Address = " oraddress ) /
              ( "directoryName = " name ) /
              ( "ediPartyName = "
                [ "nameAssigner:" directorystring ]
                "partyName:" directorystring ) /
              ( "uniformResourceIdentifier = " ia5string ) /
              ( "iPAddress = " octetstring ) /
              ( "registeredID = " numericoid )

othername = ; the BER encoding of the type and value pair
            ; for an instance of any data type that is
            ; specified to be an OTHER-NAME type.

ia5string = ; IA5 String syntax 1.3.6.1.4.1.1466.115.121.1.26

```

```
oraddress = ; MHS OR Address syntax  
; 1.3.6.1.4.1.1466.115.121.1.33
```

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name = ; DN syntax 1.3.6.1.4.1.1466.115.121.1.12

directorystring = ; Directory String syntax
; 1.3.6.1.4.1.1466.115.121.1.15

octetstring = ; Octet String syntax
; 1.3.6.1.4.1.1466.115.121.1.40

[6.13](#) ORName Attribute Syntax from X.411 [[18](#)]

(2.16.840.1.101.2.2.2.10 DESC 'ORName')

Values in this syntax are encoded according to the following BNF:

orName = oraddress ["|" name]

oraddress = ; MHS OR Address syntax
; 1.3.6.1.4.1.1466.115.121.1.33

name = ; DN syntax 1.3.6.1.4.1.1466.115.121.1.12

[6.14](#) otherNotificationsSupported Abstract Syntax for the onSupported Attribute

(2.16.840.1.101.2.2.2.3 DESC 'otherNotificationsSupported')

Values in this syntax are encoded according to the following BNF:

otherNotificationsSupported = namedbits / bitstring

namedbits = "{" [namedbit *("," namedbit)] "}"

namedbit = "acp127-nn" / "acp127-pn" / "acp127-tn"

bitstring = "" *binary-digit "B"

binary-digit = "0" / "1"

The presence of the name of a namedbit in the namedbits alternative means that the value of the bit is 1. The value of an absent namedbit is 0.

[6.15](#) Remarks Attribute Syntax

(2.16.840.1.101.2.2.2.11 DESC 'Remarks syntax')

Values in this syntax are encoded according to the following BNF:

remarks = [*p *("\$" *p)]

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6.16 RIParameters Attribute Syntax

(2.16.840.1.101.2.2.2.12 DESC 'RIParameters')

Values in this syntax are encoded according to the following BNF:

```
rIParameters = "rI=" *p whsp
               "rIType=" numericstring whsp ; an INTEGER in
               ; the range 0 - 2, where
               ; 0 means normal,
               ; 1 means off-line, and
               ; 2 means partTimeTerminal
               "minimize=FALSE" whsp ; not used anymore
               "sHD=" *p whsp
               "classification=" numericstring ; an INTEGER
               ; in the range 0 - 5, where
               ; 0 means unmarked,
               ; 1 means unclassified,
               ; 2 means restricted,
               ; 3 means confidential,
               ; 4 means secret, and
               ; 5 means top secret
```


7. EXAMPLE CONTENT RULES

The content rules given in ACP 133(B) [[1](#)] are examples, not requirements. The rules included in this document are examples to aid in the specification of similar content rules, especially those derived from these examples.

7.1 aCPApplicationEntityRuleEdA Content Rule

```
( 2.5.6.12 NAME 'aCPApplicationEntityRuleEdA'
  ; applicationEntity object class
  AUX ( 2.5.6.22 $ ; pkiCA
        2.16.840.1.101.2.2.3.66 ) ; securePkiUser
  MAY ( 2.16.840.1.101.2.2.1.49 $ ; aliasPointer
        2.5.4.46 $ ; dnQualifier
        2.16.840.1.101.2.2.1.55 $ ; effectiveDate
        2.16.840.1.101.2.2.1.57 ) ) ; expirationDate
```

7.2 aCPCRLDistributionPointRule Content Rule

```
( 2.5.6.19 NAME 'aCPCRLDistributionPointRule'
  ; cRLDistributionPoint object class
  MAY ( 2.16.840.1.101.2.2.1.49 $ ; aliasPointer
        2.16.840.1.101.2.2.1.55 $ ; effectiveDate
        2.16.840.1.101.2.2.1.57 ) ) ; expirationDate
```

7.3 aCPDeviceRuleEdA Content Rule

```
( 2.5.6.14 NAME 'aCPDeviceRuleEdA' ; device object class
  AUX 2.16.840.1.101.2.2.3.66 ; securePkiUser
  MAY ( 2.16.840.1.101.2.2.1.49 $ ; aliasPointer
        2.16.840.1.101.2.2.1.55 $ ; effectiveDate
        2.16.840.1.101.2.2.1.57 ) ) ; expirationDate
```

7.4 aCPDSARuleEdA Content Rule

```
( 2.5.6.13 NAME 'aCPDSARuleEdA' ; dSA object class
  AUX 2.16.840.1.101.2.2.3.66 ; securePkiUser
  MAY ( 2.16.840.1.101.2.2.1.49 $ ; aliasPointer
        2.16.840.1.101.2.2.1.55 $ ; effectiveDate
        2.16.840.1.101.2.2.1.57 ) ) ; expirationDate
```

7.5 aCPGroupOfNamesRule Content Rule

```
( 2.5.6.9 NAME 'aCPGroupOfNamesRule'
  ; groupOfNames object class
  MAY ( 2.16.840.1.101.2.2.1.49 $ ; aliasPointer
        2.16.840.1.101.2.2.1.55 $ ; effectiveDate
        2.16.840.1.101.2.2.1.57 ) ) ; expirationDate
```

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7.6 aCPLocalityRule Content Rule

```
( 2.5.6.3 NAME 'aCPLocalityRule'
  ; locality object class
  MAY ( 2.16.840.1.101.2.2.1.49 $ ; aliasPointer
        2.16.840.1.101.2.2.1.55 $ ; effectiveDate
        2.16.840.1.101.2.2.1.57 ) ) ; expirationDate
```

7.7 aCPMhs-distribution-listRule Content Rule

```
( 2.6.5.1.0 NAME 'aCPMhs-distribution-listRule'
  ; mhs-distribution-list object class
  MAY ( 2.16.840.1.101.2.2.1.49 $ ; aliasPointer
        2.16.840.1.101.2.2.1.55 $ ; effectiveDate
        2.16.840.1.101.2.2.1.57 ) ) ; expirationDate
```

7.8 aCPMhs-message-storeRuleEdA Content Rule

```
( 2.6.5.1.1 NAME 'aCPMhs-message-storeRuleEdA'
  ; mhs-message-store object class
  AUX 2.16.840.1.101.2.2.3.66 ; securePkiUser
  MAY ( 2.16.840.1.101.2.2.1.49 $ ; aliasPointer
        2.16.840.1.101.2.2.1.55 $ ; effectiveDate
        2.16.840.1.101.2.2.1.57 ) ) ; expirationDate
```

7.9 aCPMhs-message-transfer-agentRuleEdA Content Rule

```
( 2.6.5.1.2 NAME 'aCPMhs-message-transfer-agentRuleEdA'
  ; mhs-message-transfer-agent object class
  AUX 2.16.840.1.101.2.2.3.66 ; securePkiUser
  MAY ( 2.16.840.1.101.2.2.1.49 $ ; aliasPointer
        2.16.840.1.101.2.2.1.55 $ ; effectiveDate
        2.16.840.1.101.2.2.1.57 ) ) ; expirationDate
```

7.10 aCPMhs-user-agentRule Content Rule

```
( 2.6.5.1.4 NAME 'aCPMhs-user-agentRule'
  ; mhs-user-agent object class
  MAY ( 2.16.840.1.101.2.2.1.49 $ ; aliasPointer
        2.16.840.1.101.2.2.1.55 $ ; effectiveDate
        2.16.840.1.101.2.2.1.57 ) ) ; expirationDate
```

7.11 aCPOrganizationalPersonRuleEdB Content Rule

```
( 2.5.6.7 NAME 'aCPOrganizationalPersonRuleEdB'
  ; organizationalPerson object class
  AUX ( 2.16.840.1.101.2.2.3.54 $ ; distributionCodesHandled
        2.6.5.1.3 $ ; mhs-user
        2.16.840.1.101.2.2.3.62 $ ; otherContactInformation
```

```
2.16.840.1.101.2.2.3.66 $ ; securePkiUser
2.16.840.1.101.2.1.4.16 ) ; ukms
```

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```

MAY ( 2.16.840.1.101.2.2.1.142 $ ; aCPLegacyFormat
      2.16.840.1.101.2.2.1.49 $ ; aliasPointer
      2.16.840.1.101.2.2.1.3 $ ; alternateRecipient
      2.5.4.15 $ ; businessCategory
      2.16.840.1.101.2.2.1.139 $ ; deployed
      2.5.4.46 $ ; dnQualifier
      2.16.840.1.101.2.2.1.55 $ ; effectiveDate
      2.16.840.1.101.2.2.1.57 $ ; expirationDate
      2.16.840.1.101.2.2.1.140 $ ; garrison
      2.16.840.1.101.2.2.1.117 $ ; guard
      2.16.840.1.101.2.2.1.61 $ ; listPointer
      2.16.840.1.101.2.2.1.68 $ ; nationality
      2.16.840.1.101.2.2.1.125 $ ; positionNumber
      2.16.840.1.101.2.2.1.133 $ ; rank
      0.9.2342.19200300.100.1.3 $ ; rfc822Mailbox
      2.16.840.1.101.2.2.1.129 ) ) ; serviceNumber

```

7.12 aCPOrganizationalRoleRuleEdB Content Rule

```

( 2.5.6.8 NAME 'aCPOrganizationalRoleRuleEdB'
  ; organizationalRole object class
  AUX ( 2.5.6.22 $ ; pkiCA
        2.16.840.1.101.2.2.3.54 $ ; distributionCodesHandled
        2.6.5.1.3 $ ; mhs-user
        2.16.840.1.101.2.2.3.62 $ ; otherContactInformation
        2.16.840.1.101.2.2.3.66 $ ; securePkiUser
        2.16.840.1.101.2.1.4.16 ) ; ukms
  MAY ( 2.16.840.1.101.2.2.1.142 $ ; aCPLegacyFormat
        2.16.840.1.101.2.2.1.49 $ ; aliasPointer
        2.16.840.1.101.2.2.1.3 $ ; alternateRecipient
        2.5.4.15 $ ; businessCategory
        2.16.840.1.101.2.2.1.139 $ ; deployed
        2.5.4.46 $ ; dnQualifier
        2.16.840.1.101.2.2.1.55 $ ; effectiveDate
        2.16.840.1.101.2.2.1.57 $ ; expirationDate
        2.16.840.1.101.2.2.1.140 $ ; garrison
        2.16.840.1.101.2.2.1.117 $ ; guard
        2.16.840.1.101.2.2.1.61 $ ; listPointer
        2.16.840.1.101.2.2.1.68 $ ; nationality
        0.9.2342.19200300.100.1.3 ) ) ; rfc822Mailbox

```

7.13 aCPOrganizationalUnitRuleEdB Content Rule

```

( 2.5.6.5 NAME 'aCPOrganizationalUnitRuleEdB'
  ; organizationalUnit object class
  AUX ( 2.5.6.22 $ ; pkiCA
        2.16.840.1.101.2.2.3.54 $ ; distributionCodesHandled
        2.6.5.1.3 $ ; mhs-user

```

2.16.840.1.101.2.2.3.62 \$; otherContactInformation
2.16.840.1.101.2.2.3.56 \$; plaUser
2.16.840.1.101.2.2.3.66 \$; securePkiUser
2.16.840.1.101.2.1.4.16) ; ukms

```
MAY ( 2.16.840.1.101.2.2.1.142 $ ; aCPLegacyFormat
      2.16.840.1.101.2.2.1.49 $ ; aliasPointer
      2.16.840.1.101.2.2.1.3 $ ; alternateRecipient
      2.16.840.1.101.2.2.1.6 $ ; associatedPLA
      2.16.840.1.101.2.2.1.139 $ ; deployed
      2.5.4.46 $ ; dnQualifier
      2.16.840.1.101.2.2.1.55 $ ; effectiveDate
      2.16.840.1.101.2.2.1.57 $ ; expirationDate
      2.16.840.1.101.2.2.1.140 $ ; garrison
      2.16.840.1.101.2.2.1.117 $ ; guard
      2.16.840.1.101.2.2.1.61 $ ; listPointer
      2.16.840.1.101.2.2.1.68 $ ; nationality
      0.9.2342.19200300.100.1.3 ) ) ; rfc822Mailbox
```

[7.14](#) aCPOrganizationRuleEdB Content Rule

```
( 2.5.6.4 NAME 'aCPOrganizationRuleEdB'
  ; organization object class
  AUX ( 2.5.6.22 $ ; pkiCA
        2.16.840.1.101.2.2.3.62 ) ; otherContactInformation
  MAY ( 2.16.840.1.101.2.2.1.142 $ ; aCPLegacyFormat
        2.16.840.1.101.2.2.1.49 $ ; aliasPointer
        2.5.4.46 $ ; dnQualifier
        2.16.840.1.101.2.2.1.55 $ ; effectiveDate
        2.16.840.1.101.2.2.1.57 ) ) ; expirationDate
```

[7.15](#) aCPRoutingIndicatorRuleEdB Content Rule

```
( 2.16.840.1.101.2.2.3.37 NAME 'aCPRoutingIndicatorRuleEdB'
  ; routingIndicator
  MAY ( 2.16.840.1.101.2.2.1.144 $ ; tCCG
        2.16.840.1.101.2.2.1.76 ) ) ; remarks
```

[7.16](#) addressListRuleEdA Content Rule

```
( 2.16.840.1.101.2.2.3.57 NAME 'addressListRuleEdA'
  ; addressList object class
  AUX ( 2.16.840.1.101.2.2.3.54 $ ; distributionCodesHandled
        2.6.5.1.3 $ ; mhs-user
        2.16.840.1.101.2.2.3.56 $ ; plaUser
        2.16.840.1.101.2.2.3.66 $ ; securePkiUser
        2.16.840.1.101.2.1.4.16 ) ; ukms
  MAY ( 2.16.840.1.101.2.2.1.49 $ ; aliasPointer
        2.16.840.1.101.2.2.1.3 $ ; alternateRecipient
        2.16.840.1.101.2.2.1.55 $ ; effectiveDate
        2.16.840.1.101.2.2.1.57 $ ; expirationDate
        2.16.840.1.101.2.2.1.117 $ ; guard
        2.16.840.1.101.2.2.1.61 $ ; listPointer
```

0.9.2342.19200300.100.1.3)) ; rfc822Mailbox

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7.17 aliasCommonNameRule Content Rule

```
( 2.16.840.1.101.2.2.3.52 NAME 'aliasCommonNameRule'
  ; aliasCommonName object class
  MAY ( 2.16.840.1.101.2.2.1.55 $ ; effectiveDate
        2.16.840.1.101.2.2.1.57 ) ) ; expirationDate
```

7.18 aliasOrganizationalUnitRule Content Rule

```
( 2.16.840.1.101.2.2.3.53 NAME 'aliasOrganizationalUnitRule'
  ; aliasOrganizationalUnit object class
  MAY ( 2.16.840.1.101.2.2.1.55 $ ; effectiveDate
        2.16.840.1.101.2.2.1.57 ) ) ; expirationDate
```

7.19 distributionCodeDescriptionRule Content Rule

```
( 2.16.840.1.101.2.2.3.55 NAME 'distributionCodeDescriptionRule'
  ; distributionCodeDescription object class
  MAY ( 2.16.840.1.101.2.2.1.49 $ ; aliasPointer
        2.16.840.1.101.2.2.1.55 $ ; effectiveDate
        2.16.840.1.101.2.2.1.57 ) ) ; expirationDate
```

7.20 messagingGatewayRuleEdA Content Rule

```
( 2.16.840.1.101.2.2.3.59 NAME 'messagingGatewayRuleEdA'
  ; messagingGateway object class
  AUX ( 2.16.840.1.101.2.2.3.66 $ ; securePkiUser
        2.16.840.1.101.2.1.4.16 ) ; ukms
  MAY ( 2.16.840.1.101.2.2.1.49 $ ; aliasPointer
        2.16.840.1.101.2.2.1.55 $ ; effectiveDate
        2.16.840.1.101.2.2.1.57 $ ; expirationDate
        2.16.840.1.101.2.2.1.117 $ ; guard
        2.16.840.1.101.2.2.1.138 $ ; plasServed
        0.9.2342.19200300.100.1.3 ) ) ; rfc822Mailbox
```

7.21 mLAgentRule Content Rule

```
( 2.16.840.1.101.2.2.3.64 NAME 'mLAgentRule'
  ; mLAgent object class
  MAY ( 2.16.840.1.101.2.2.1.49 $ ; aliasPointer
        2.16.840.1.101.2.2.1.55 $ ; effectiveDate
        2.16.840.1.101.2.2.1.57 ) ) ; expirationDate
```

7.22 networkEdBRule Content Rule

```
( 2.16.840.1.101.2.2.3.68 NAME 'networkEdBRule'
  ; aCPNetworkEdB object class
  MAY ( 2.16.840.1.101.2.2.1.55 $ ; effectiveDate
        2.16.840.1.101.2.2.1.57 ) ) ; expirationDate
```

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7.23 networkInstructionsEdBRule Content Rule

```
( 2.16.840.1.101.2.2.3.69 NAME 'networkInstructionsEdBRule'
  ; aCPNetworkInstructionsEdB object class
  MAY ( 2.16.840.1.101.2.2.1.55 $ ; effectiveDate
        2.16.840.1.101.2.2.1.57 ) ) ; expirationDate
```

7.24 rAPersonRuleEdA Content Rule

```
( 2.16.840.1.101.2.2.3.65 NAME 'rAPersonRuleEdA'
  ; releaseAuthorityPersonA object class
  MAY ( 2.16.840.1.101.2.2.1.55 $ ; effectiveDate
        2.16.840.1.101.2.2.1.57 ) ) ; expirationDate
```

7.25 sigintPLARule Content Rule

```
( 2.16.840.1.101.2.2.3.38 NAME 'sigintPLARule'
  ; sigintPLA object class
  MAY 2.16.840.1.101.2.2.1.4 ) ; associatedOrganization
```

7.26 spotPLARule Content Rule

```
( 2.16.840.1.101.2.2.3.40 NAME 'spotPLARule'
  ; spotPLA object class
  MAY 2.16.840.1.101.2.2.1.113 ) ; associatedAL
```


8. STRUCTURE RULES

There are no structure rules defined in ACP 133(B) [[1](#)]

9. SECURITY CONSIDERATIONS

Attributes of directory entries are used to provide descriptive information about the real-world objects they represent, which can be people, organizations or devices. Most countries have privacy laws regarding the publication of information about people.

Some of the object classes and attributes in this document support the use of a directory as part of a PKI. This schema also holds information so that components of a variety of network applications, including the directory service, can be strongly authenticated to one another and with users.

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11. ABBREVIATIONS

ACP	Allied Communications Publication
AE	Application Entity
AIG	Address Indicator Group
AL	Address List
ALID	AL Identifier
ASN.1	Abstract Syntax Notation One
AUTODIN	Automatic Digital Network
BER	Basic Encoding Rules
BNF	Backus-Naur Form
C	Country
CA	Certification Authority
CAD	Collective Address Designator
CCEB	Combined Communications Electronics Board
CCITT	The International Telegraph and Telephone Consultative Committee
CMI	Certificate Management Infrastructure
CN	Common Name
CRL	Certificate Revocation List
DAP	Directory Access Protocol
DFTS	Defence Fixed Telecommunications Service
DIB	Directory Information Base
DL	Distribution List
DN	Distinguished Name
DODAAC	Department of Defense Activity Accounting Code
DSA	Directory System Agent
DSN	Defense Switched Network (DSN)
EIT	Encoded Information Type
FAX	Facsimile
GENSER	General Service
GHP	Gateway Handling Policy
GON	Group of Names
IA5	International Alphabet Number 5
IEC	International Electrotechnical Commission
IETF	Internet Engineering Task Force
ISDN	Integrated Services Digital Network
ISO	International Organization for Standardization
ITU-T	International Telecommunication Union- Telecommunication Standardization Sector
JANAP	Joint Army, Navy, Air Force Procedure
L	Locality
LDAP	Lightweight Directory Access Protocol
LMF	Language and Media Format
LOC	Locality
MCS	Message Conversion System
MHS	Message Handling System
ML	Mail List

MLA	Mail List Agent
MMHS	Military Message Handling System
MS	Message Store
MTA	Message Transfer Agent

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MTS	Message Transfer System
MUA	Messaging User Agent
NASIS	NATO Subject Indicator System
NAVCOMPARS	Naval Communications Processing and Routing System
O	Organization
ON	Other Notification
O/R, OR	Originator/Recipient
ORG	Organizational
OU	Organizational Unit
PKI	Public Key Infrastructure
PLA	Plain Language Address
PSTN	Public Switched Telephone Network
R	Role
RA	Release Authority
RAN	Release Authority Name
RDN	Relative Distinguished Name
RFC	Request for Comments
RI	Routing Indicator
SHD	Special Handling Designator
SI	Special Intelligence
SIC	Subject Indicator Code
SIGAD	SIGINT Address
SIGINT	Signal Intelligence
SMTP	Simple Mail Transfer Protocol
SOP	State or Province
ST	State or Province Name
STU	Secure Telephone Unit
TARE	Telegraph Automatic Relay Equipment
TCC	Transmission Control Code
TRC	Transmission Release Code
U	Unit
UA	User Agent
UKM	User Key Material

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IETF LDAP Extensions Working Group

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