

# Schema Reference

Universal Schema Reference

September 1999

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Version 4.0.0

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01 00 99 10 9 8 7 6 5 4 3 2 1

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# About Schema

## Schema Supported by Directory Server 4.0

Schema files are stored in `<NSHOME>/slapd-<serverID>/config` during installation (where `<NSHOME>` is the installation directory and `<serverID>` is the name given to the Directory Server instance).

Modifications to directory object classes are stored in `slapd.user_oc.conf`. Modifications to directory attributes are stored in `slapd.user_at.conf`. Modifying other schema files may result in interoperability problems.

Schema files listed here include schema supported by previous server releases.

For more information about how the Directory Server stores information and suggestions for planning directory schema, refer to the *Netscape Directory Server Deployment Guide*.

Table 1.1 Schema Files Installed with Directory Server 4.0

Schema Filename	Purpose	Described in...
<code>ns-admin-schema.conf</code>	Used by Netscape Administration Server 4.0 and Netscape Console.	Chapter 3, "Administration Server Object Classes"
<code>ns-calendar-schema.conf</code>	Used by Netscape Calendar Server.	Chapter 4, "Calendar Server Object Classes"

Table 1.1 Schema Files Installed with Directory Server 4.0 (Continued)

Schema Filename	Purpose	Described in...
ns-certificate-schema.conf	Used to identify a Netscape Certificate server. <code>netscapeCertificateServer</code> is the sole object class.	Chapter 8, "Directory Server Object Classes"
ns-common-schema.conf	Contains objects classes and attributes common to the Netscape Mission Control Framework.	Chapter 3, "Administration Server Object Classes"
ns-compass-schema.conf	Used by Netscape Compass Server to define personal interest profiles.	Chapter 6, "Compass Server Object Classes"
ns-delegated-admin-schema.conf	Used by Netscape Delegated Administrator 1.0	Chapter 7, "Delegated Administrator Object Classes"
ns-directory-schema.conf	Used to identify a Directory Server. <code>netscapeDirectoryServer</code> is the sole object class. (Directory server object classes are stored in <code>slapd.oc.conf</code> . Directory Server attributes are stored in <code>slapd.at.conf</code> .)	Chapter 8, "Directory Server Object Classes"
ns-legacy-schema.conf	Used by Netscape Administration Server for legacy servers.	Chapter 3, "Administration Server Object Classes"
ns-mail-schema.conf	Used by Messaging Server to define mail users and mail groups.	Chapter 12, "Messaging Server Object Classes"
ns-mcd-browser-schema.conf	Used by Mission Control Desktop to hold browser client preferences.	Chapter 11, "Mission Control Desktop & Client Object Classes"
ns-mcd-config-schema.conf	Used by Mission Control Desktop to set MCD "configO" preferences.	Chapter 11, "Mission Control Desktop & Client Object Classes"
ns-mcd-li-schema.conf	Used by Mission Control Desktop to define location independence.	Chapter 11, "Mission Control Desktop & Client Object Classes"
ns-mcd-mail-schema.conf	Used by Mission Control Desktop to hold mail client preferences and messenger security preferences.	Chapter 11, "Mission Control Desktop & Client Object Classes"
ns-media-schema.conf	Used to identify a media server. <code>netscapeMediaServer</code> is the sole object class.	Chapter 8, "Directory Server Object Classes"

Table 1.1 Schema Files Installed with Directory Server 4.0 (Continued)

Schema Filename	Purpose	Described in...
ns-mlm-schema.conf	Used by Messaging Server 4.0 for mailing list management.	Chapter 12, "Messaging Server Object Classes"
ns-msg-schema.conf	Used by Netscape Messaging Server 4.0	Chapter 12, "Messaging Server Object Classes"
ns-netshare-schema.conf	Used by Netscape Enterprise and FastTrack servers. This schema is for enabling netshare user accounts or user projects, and for enabling creation and maintenance of netshare projects using a project management utility CGI.	Chapter 9, "Enterprise Server Object Classes"
ns-news-schema.conf	Used by Netscape Compass Server to hold news group preferences.	Chapter 6, "Compass Server Object Classes"
ns-proxy-schema.conf	Used to identify a proxy server. netscapeProxyServer is the sole object class.	Chapter 8, "Directory Server Object Classes"
ns-value-schema.conf	Schema used for defining schemaless configuration for LDAP.	not provided
ns-web-schema.conf	Used to identify an HTTP server. netscapeWebServer is the sole object class.	Chapter 9, "Enterprise Server Object Classes"
slapd.at.conf	Includes X.500 user schema for use with LDAP, LDAP attributes defined by the IETF, pilot X.500 schema for use in LDAPv3, and Netscape-defined attributes	
slapd.oc.conf	Contains standard object classes expected to be present in Directory Server 4.0 unchanged. Modifying this file will cause interoperability problems. User defined ObjectClasses should be added by selecting Schema   Create ObjectClasses from the Netscape Caonsole. User-defined objectClasses are saved in slapd.user_oc.conf.	Chapter 8, "Directory Server Object Classes"

# LDAP Overview

## What is LDAP?

Netscape Directory Server includes object classes and object class attributes defined by the Lightweight Directory Access Protocol (LDAP) and extensions to the standard LDAP schema developed by Netscape and by the Internet Engineering Task Force (IETF) that extend the basic functionality of LDAP.

Initially developed at the University of Michigan, LDAP is a lightweight version of the X.500 Directory Access Protocol (DAP). LDAP has become an Internet standard for directory services that run over TCP/IP.

Netscape Directory Server version 3.0 and later supports LDAPv2 and LDAPv3.

## How LDAP Works

One or more LDAP servers contain the data that make up the LDAP directory. An LDAP client connects to an LDAP server and submits a query to request or update directory information. As long as access rights are granted to the client, the LDAP server responds to the query. The LDAP server may also refer the query to another LDAP server for response.

An LDAP directory stores information in object-oriented hierarchies of entries. Each entry is uniquely identified by a distinguished name, or DN. The DN consists of the name of the entry plus a path of names tracing the entry back to the top of the directory hierarchy.

## Object Classes

In LDAP, an object class defines the collection of attributes that can be used to define an entry. The LDAP standard provides these basic types of object classes:

- Groups in the directory, including unordered lists of individual objects or groups of objects.
- Locations, such as the country name and description.

- Organizations in the directory.
- People in the directory.

## Object Class Inheritance

An entry can belong to more than one object class. For example, the entry for a person is defined by the person object class, but may also be defined by attributes in the inetOrgPerson, groupOfNames, and organization object classes

The server's object class structure (its schema) determines the total list of required and allowed attributes for a particular entry. For example, a person entry is usually defined with the following object class structure:

```
objectClass: top
objectClass: person
objectClass: organizationalPerson
objectClass: inetOrgperson
```

In this structure, the inetOrgperson object class should not be placed on an entry until the person and organizationalPerson object classes have been defined on the entry.

## Reserved Object Classes

Reserved schema includes object classes that are essential to software operation but not meant for development purposes and object classes reserved for future use. These object classes are not meant to be used to extend server functionality.

## Attributes

Directory data is represented as attribute-value pairs. Any specific piece of information is associated with a descriptive attribute.

For instance, the commonName, or cn, attribute is used to store a person's name. A person named Jonas Salk can be represented in the directory as

```
cn: Jonas Salk
```

Each person entered in the directory is defined by the collection of attributes in the person object class. Other attributes used to define this entry could include:

```
givenname: Jonas
```

```
surname: Salk
```

```
mail: jonass@airius.com
```

## Required and Allowed Attributes

Required attributes include the attributes that must be present in entries using the object class. All entries require the objectClass attribute, which lists the object classes to which an entry belongs.

Allowed attributes include the attributes that may be present in entries using the object class. For example, in the person object class, the cn and sn attributes are required. The description, telephoneNumber, seeAlso, and userpassword attributes are allowed but are not required.

## Attribute Syntax

Each attribute has a corresponding syntax definition. The syntax definition describes the type of information provided by the attribute.

Attribute syntax is used by the Directory Server to perform sorting and pattern matching.

Table 1.2 Attribute Syntax

Syntax Method	Abbreviation	Definition
Binary	bin	Indicates that values for this attribute are binary
Boolean	boolean	Having two values: On or ff, True or False, Yes or No.
Case Exact String	ces	Indicates that values for this attribute are case sensitive.
Case Ignore String	cis	Indicates that values for this attribute are not case sensitive.

Table 1.2 Attribute Syntax (Continued)

Syntax Method	Abbreviation	Definition
Telephone	tel	telephone number (identical to cis, but blanks and dashes (-) are ignored during comparisons).
Distinguished Name	dn	Indicates that values for this attribute are DNs.
Integer	int	Indicates that valid values for this attribute are numbers.
Operational	operational	Operational attributes are not displayed in search results.

Required and allowed attributes for each object class are included in the object class listing.

Attributes that are single-values—that is, only one instance of the attribute can be specified—are noted as such.

## Object Identifiers (OIDs)

Object identifiers (OIDs) are assigned to all attributes and object classes to conform to the LDAP and X.500 standards. An OID is a sequence of integers, typically written as a dot-separated string. When no OID is specified, the Directory Server automatically uses <ObjectClass name>-oid.

The Netscape base OID is

2.16.840.1.113730

The base OID for the Netscape Directory Server is

2.16.840.1.113730.3

All Netscape-defined attributes have the base OID of

2.16.840.1.113370.3.1

All Netscape-defined object classes have the base OID of

2.16.840.1.113730.3.2

## Extending Server Schema

The Directory Server schema includes hundreds of object classes and attributes that can be used to meet most Directory Server requirements. This schema can be extended with new object classes and attributes that meet evolving requirements for the directory service in the enterprise.

When adding new attributes to the schema, a new object class should be created to contain them (adding a new attribute to an existing object class can compromise the Directory Server's compatibility with existing LDAP clients that rely on the standard LDAP schema and may cause difficulties when upgrading the server).

For more information about extending server schema, refer to the *Netscape Directory Server Deployment Manual*.

## Schema Checking

Netscape recommends running the Directory Server with schema checking turned on.

Schema checking causes the Netscape Directory Server to check new entries to verify the following:

- object classes and attributes are defined in the directory schema
- attributes required for an object class are contained in the entry
- only attributes allowed by the object class are contained in the entry

Schema checking also occurs when entries are modified and when importing a database using LDIF. For more information, refer to the *Netscape Directory Server Administration Guide*.

# Sources of Related Information

Table I.3 Schema-Related Directory Server Documentation

Where to Find . . .	Look in . . .
detailed information about object classes, attributes, and how the Directory Server uses the schema	<i>Netscape Directory Server Deployment Manual</i>
procedures for copying or migrating schema from one server instance to another	<i>Netscape Directory Server Installation Manua</i>
information about extending schema	<i>Netscape Directory Server Administration Guide</i>
Directory Server documentation on-line	<a href="http://home.netscape.com/eng/server/directory/">http://home.netscape.com/eng/server/directory/</a>

Table I.4 LDAP Specifications (RFCs)

Title	Summary
Lightweight Directory Access Protocol. (RFC 1777)	The protocol described in this document is designed to provide access to X.500 Directory while not incurring the resource requirements of the Directory Access Protocol (DAP).
The String Representation of Standard Attribute Syntaxes. (RFC 1778)	This document defines the encoding rules for the standard set of attribute syntaxes
A String Representation of Distinguished Names. (RFC 1779)	This specification defines a string format for representing names, which is designed to give a clean representation of commonly used names, while being able to represent any distinguished name.
Using the OSI Directory to Achieve User Friendly Naming (RFC 1781)	This proposal sets out some conventions for representing names in a friendly manner, and shows how this can be used, then specifies a standard format for representing names.
Schema Publishing in X.500 Directory (RFC 1804)	This document presents a solution to the schema distribution problem using the existing mechanisms of the directory. A naming scheme for naming schema objects and a meta-schema for storing schema objects is presented.
The LDAP Application Program Interface (RFC 1823)	This document defines a C language application program interface to the lightweight directory access protocol (LDAP). The LDAP API defines compatible synchronous and asynchronous interfaces to LDAP.

Table 1.4 LDAP Specifications (RFCs) (Continued)

Title	Summary
An LDAP URL Format. (RFC 1959)	This document describes a format for an LDAP Uniform Resource Locator which will allow Internet clients to have direct access to the LDAP protocol.
A String Representation of LDAP Search Filters (RFC 1960)	This document defines a human-readable string format for representing LDAP search filters.
Lightweight Directory Access Protocol (v3) (RFC 2251)	The protocol described in this document is designed to provide access to directories supporting the X.500 models, while not incurring the resource requirements of the X.500 Directory Access Protocol (DAP).
LDAPv3 Attribute Syntax Definitions (RFC 2252)	Defines a set of syntaxes for LDAPv3, and the rules by which attribute values of these syntaxes are represented as octet strings for transmission in the LDAP protocol.
UTF-8 String Representation of Distinguished Names (RFC 2253)	This specification defines the string format for representing names, which is designed to give a clean representation of commonly used distinguished names, while being able to represent any distinguished name.
The String Representation of LDAP Search Filters (RFC 2254)	Some applications may find it useful to have a common way of representing these search filters in a human-readable form. This document defines a human-readable string format for representing LDAP search filters.
The LDAP URL Format (RFC 2255)	This document describes a format for an LDAP Uniform Resource Locator. The format describes an LDAP search operation to perform to retrieve information from an LDAP directory
A Summary of the X.500(96) User Schema for use with LDAPv3 (RFC 2256)	This document provides an overview of the attribute types and object classes defined by the ISO and ITU-T committees in the X.500 documents, in particular those intended for use by directory clients. This is the most widely used schema for LDAP/X.500 directories, and many other schema definitions for white pages objects use it as a basis.
An Approach for Using LDAP as a Network Information Service (RFC 2307)	This document describes an experimental mechanism for mapping entities related to TCP/IP and the UNIX system into X.500 [X500] entries so that they may be resolved with the Lightweight Directory Access Protocol [RFC2251]. A set of attribute types and object classes are proposed, along with specific guidelines for interpreting them.

Table 1.5 Additional LDAP Resources

Resource	URL
More information about OIDs, or to request a prefix for your enterprise.	IANA (Internet Assigned Number Authority) website at <a href="http://www.iana.org/iana/">http://www.iana.org/iana/</a>
Internet Engineering Task Force (IETF) home page	<a href="http://www.ietf.org/">http://www.ietf.org/</a>
LDAP Frequently asked questions	<a href="http://www.critical-angle.com/ldapworld/ldapfaq.html">http://www.critical-angle.com/ldapworld/ldapfaq.html</a>
University of Michigan's LDAP page	<a href="http://www.umich.edu/~dirsvcs/ldap/index.html">http://www.umich.edu/~dirsvcs/ldap/index.html</a>
LDAP Resources page on Netscape's DevEdge On-line	<a href="http://devedge.tech/directory/index.html?content=resources.html">http://devedge.tech/directory/index.html?content=resources.html</a>



# ISO Country Codes

Country	ISO Code
Afghanistan	AF
Albania	AL
Algeria	DZ
American Samoa	AS
Andorra	AD
Angola	AO
Anguilla	AI
Antarctica	AQ
Antigua and Barbuda	AG
Argentina	AR
Armenia	AM
Aruba	AW
Australia	AU
Austria	AT
Azerbaijan	AZ
Bahamas	BS

Country	ISO Code
Bahrain	BH
Bangladesh	BD
Barbados	BB
Belarus	BY
Belgium	BE
Belize	BZ
Benin	BJ
Bermuda	BM
Bhutan	BT
Bolivia	BO
Bosnia and Herzegovina	BA
Botswana	BW
Bouvet Island	BV
Brazil	BR
British Indian Ocean Territory	IO
Brunei Darussalam	BN
Bulgaria	BG
Burkina Faso	BF
Burundi	BI
Cambodia	KH
Cameroon	CM
Canada	CA
Cape Verde	CV
Cayman Islands	KY
Central African Republic	CF
Chad	TD
Chile	CL
China	CN

Country	ISO Code
Christmas Island	CX
Cocos (Keeling) Islands	CC
Colombia	CO
Comoros	KM
Congo	CG
Cook Islands	CK
Costa Rica	CR
Cote d'Ivoire	CI
Croatia (local name: Hrvatska)	HR
Cuba	CU
Cyprus	CY
Czech Republic	CZ
Denmark	DK
Djibouti	DJ
Dominica	DM
Dominican Republic	DO
East Timor	TP
Ecuador	EC
Egypt	EG
El Salvador	SV
Equatorial Guinea	GQ
Eritrea	ER
Estonia	EE
Ethiopia	ET
Falkland Islands (Malvinas)	FK
Faroe Islands	FO
Fiji	FJ
Finland	FI

Country	ISO Code
France	FR
France, Metropolitan	FX
French Guiana	GF
French Polynesia	PF
French Southern Territories	TF
Gabon	GA
Gambia	GM
Georgia	GE
Germany	DE
Ghana	GH
Gibraltar	GI
Greece	GR
Greenland	GL
Grenada	GD
Guadeloupe	GP
Guam	GU
Guatemala	GT
Guinea	GN
Guinea-Bissau	GW
Guyana	GY
Haiti	HT
Heard and Mc Donald Islands	HM
Holy See (Vatican City State)	VA
Honduras	HN
Hong Kong	HK
Hungary	HU
Iceland	IS
India	IN

Country	ISO Code
Indonesia	ID
Iran (Islamic Republic of)	IR
Iraq	IQ
Ireland	IE
Israel	IL
Italy	IT
Jamaica	JM
Japan	JP
Jordan	JO
Kazakhstan	KZ
Kenya	KE
Kiribati	KI
Korea, Democratic People's Republic of	KP
Korea, Republic of	KR
Kuwait	KW
Kyrgyzstan	KG
Lao People's Democratic Republic	LA
Latvia	LV
Lebanon	LB
Lesotho	LS
Liberia	LR
Libyan Arab Jamahiriya	LY
Liechtenstein	LI
Lithuania	LT
Luxembourg	LU
Macau	MO
Macedonia, the Former Yugoslav Republic of	MK

Country	ISO Code
Madagascar	MG
Malawi	MW
Malaysia	MY
Maldives	MV
Mali	ML
Malta	MT
Marshall Islands	MH
Martinique	MQ
Mauritania	MR
Mauritius	MU
Mayotte	YT
Mexico	MX
Micronesia, Federated States of	FM
Moldova, Republic of	MD
Monaco	MC
Mongolia	MN
Montserrat	MS
Morocco	MA
Mozambique	MZ
Myanmar	MM
Namibia	NA
Nauru	NR
Nepal	NP
Netherlands	NL
Netherlands Antilles	AN
New Caledonia	NC
New Zealand	NZ
Nicaragua	NI

Country	ISO Code
Niger	NE
Nigeria	NG
Niue	NU
Norfolk Island	NF
Northern Mariana Islands	MP
Norway	NO
Oman	OM
Pakistan	PK
Palau	PW
Panama	PA
Papua New Guinea	PG
Paraguay	PY
Peru	PE
Philippines	PH
Pitcairn	PN
Poland	PL
Portugal	PT
Puerto Rico	PR
Qatar	QA
Reunion	RE
Romania	RO
Russian Federation	RU
Rwanda	RW
Saint Kitts and Nevis	KN
Saint Lucia	LC
Saint Vincent and the Grenadines	VC
Samoa	WS
San Marino	SM

Country	ISO Code
Sao Tome and Principe	ST
Saudi Arabia	SA
Senegal	SN
Seychelles	SC
Sierra Leone	SL
Singapore	SG
Slovakia (Slovak Republic)	SK
Slovenia	SI
Solomon Islands	SB
Somalia	SO
South Africa	ZA
South Georgia and the South Sandwich Islands	GS
Spain	ES
Sri Lanka	LK
St. Helena	SH
St. Pierre and Miquelon	PM
Sudan	SD
Suriname	SR
Svalbard and Jan Mayen Islands	SJ
Swaziland	SZ
Sweden	SE
Switzerland	CH
Syrian Arab Republic	SY
Taiwan, Province of China	TW
Tajikistan	TJ
Tanzania, United Republic of	TZ
Thailand	TH
Togo	TG

Country	ISO Code
Tokelau	TK
Tonga	TO
Trinidad and Tobago	TT
Tunisia	TN
Turkey	TR
Turkmenistan	TM
Turks and Caicos Islands	TC
Tuvalu	TV
Uganda	UG
Ukraine	UA
United Arab Emirates	AE
United Kingdom	GB
United States	US
United States Minor Outlying Islands	UM
Uruguay	UY
Uzbekistan	UZ
Vanuatu	VU
Venezuela	VE
Viet Nam	VN
Virgin Islands (British)	VG
Virgin Islands (U.S.)	VI
Wallis and Futuna Islands	WF
Western Sahara	EH
Yemen	YE
Yugoslavia	YU
Zaire	ZR
Zambia	ZM
Zimbabwe	ZW



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# nsAdminConfig

## Supported by

Netscape Administration Server 3.x, 4.0

## Definition

Stores configuration parameters for Netscape Administration Server.

## Superior Class

nsConfig

## OID

2.16.840.1.113730.3.2.47

### Required Attribute

objectClass

### Description

the objects for this object class

### Allowed Attributes

nsAdminAccessAddresses

nsAdminAccessHosts

nsAdminCacheLifetime

nsAdminCGIWaitPid

nsAdminEnableDSGW

nsAdminEnableEndUser

nsAdminOneACLDIR

nsAdminUsers

### Description

IP addresses that can access the admin server

hosts that can access the admin server

lifetime for user/task information cache

reserved

enable and disable DSGW

enable and disable end user access

reserved

uid for the admin server

# nsAdminConsoleUser

## Supported by

Netscape Administration Server 3.x, 4.0

## Definition

Stores user preferences for the Administration Server Console.

## Superior Class

top

## OID

2.16.840.1.113730.3.2.52

### Required Attribute

objectClass  
cn (commonName)

### Description

the objects for this object class  
the name of the user

### Allowed Attributes

nsPreference

### Description

user preference information for Netscape Console

# nsAdminDomain

## Supported by

Netscape Administration Server 3.x, 4.0

## Definition

The container for each administration domain, usually a branch point for a set of host machines at a location or in a department at a location.

## Superior Class

organizationalUnit

## OID

2.16.840.1.113730.3.2.56

### Required Attribute

objectClass

### Description

the objects for this object class

### Allowed Attributes

nsAdminDomainName

### Description

specifies the grouping of host machines in the admin domain.

# nsAdminGlobalParameters

## Supported by

Netscape Administration Server 3.x, 4.0

## Definition

Stores global parameter settings for the Netscape Administration Server. This information is stored in the domain level of o=net.scapeRoot.

## Superior Class

top

## OID

2.16.840.1.113730.3.2.49

### Required Attribute

objectClass  
cn (commonName)

### Description

the objects for this object class  
the common name of the entry

### Allowed Attributes

nsAdminEndUserHTMLIndex  
nsNickname

### Description

enable and disable HTML index access for the end user  
nickname for the product

# nsAdminGroup

## Supported by

Netscape Administration Server 3.x, 4.0

## Definition

Identifies the admin group containing Netscape products. Serves as a container for a group of Netscape products.

## Superior Class

top

## OID

2.16.840.1.113730.3.2.58

### Required Attribute

objectClass  
cn (commonName)

### Description

the objects for this object class  
the common name of the admin group

### Allowed Attributes

description  
nsAdminGroupName  
nsConfigRoot  
nsAdminSIEDN

### Description

brief description of the group  
name of the root group  
location of the product installation  
administration URL location within the admin group for a machine

# nsAdminObject

## Supported by

Netscape Administration Server 3.x, 4.0

## Definition

Contains related java information for an admin object class.

## Superior Class

top

## OID

2.16.840.1.113730.3.2.65

### Required Attribute

objectClass  
cn (commonName)

### Description

the objects for this object class  
the common name of the entry

### Allowed Attributes

nsClassname  
nsJarFilename

### Description

used by the Netscape Console to load plug-in  
information  
reserved

## **nsAdminResourceEditorExtension**

### **Supported by**

Netscape Administration Server 3.x, 4.0

### **Definition**

Stores information about Netscape Administration Server's resource UI extension and information about related resource editor plug-ins.

**Superior Class**

### **nsAdminObject**

#### **OID**

2.16.840.1.113730.3.2.48

#### **Required Attribute**

objectClass  
cn (commonName)

#### **Description**

the objects for this object class  
the common name of the entry

#### **Allowed Attributes**

nsAdminAccountInfo  
nsDeleteClassName

#### **Description**

reserved  
used by Netscape Console to delete an object class

# nsAdminServer

## Supported by

Netscape Administration Server 3.x, 4.0

## Definition

Object class for Netscape Admin Server instance.

## Superior Class

top

## OID

2.16.840.1.113730.3.2.46

### Required Attribute

objectClass  
cn (commonName)  
nsServerID

### Description

the objects for this object class  
the common name of the entry  
server identifier

### Allowed Attributes

description

### Description

brief description of the Admin Server instance

# nsApplication

## Supported by

Netscape Administration Server 3.x, 4.0

## Definition

Identifies the Netscape application.

## Superior Class

top

## OID

2.16.840.1.113730.3.2.59

### Required Attribute

objectClass  
cn (commonName)

### Description

the objects for this object class  
the common name of the entry

### Allowed Attributes

description  
installationTimeStamp  
  
nsBuildNumber  
nsBuildSecurity  
nsExpirationDate  
nsInstalledLocation  
nsLdapSchemaVersion  
nsNickname  
nsProductName  
nsProductVersion  
nsRevisionNumber

### Description

brief description of the Netscape application  
date and time in zulu format when the Netscape server was installed  
  
internal build version number  
security level of the build version  
expiration date for the product  
location of the product installation  
schema version for an individual application  
nickname for the Netscape product.  
official Netscape product name  
version number for the installed Netscape product  
internal build revision number of the Netscape product

<b>Allowed Attributes</b>	<b>Description</b>
nsSerialNumber	serial number of the product
nsServerCreationClassname	java API-specific value
nsServerMigrationClassname	java API
nsVendor	product vendor

# nsConfig

## Supported by

Netscape Administration Server 3.x, 4.0

## Definition

Contains basic configuration information for a Netscape product.

## Superior Class

top

## OID

2.16.840.1.113730.3.2.66

### Required Attribute

objectClass  
cn (commonName)

### Description

the objects for this object class  
the common name of the entry

### Allowed Attributes

description  
nsAccessLog  
nsDefaultMaxDeptSize  
  
nsErrorLog  
nsPIDLog  
nsServerAddress  
nsServerPort  
nsServerSecurity  
nsSuiteSpotUser

### Description

brief description of the Netscape product  
location of the access log  
default size of department managed by delgated administrator  
  
location of the error log fil  
location of the PID log file  
IP address of the server  
port number of the server  
used to enable and disable server security.  
UNIX user account for servers installed in the server root

## **nsCustomView**

### **Supported by**

Netscape Administration Server 3.x, 4.0

### **Definition**

Stores custom view information for the Administration Server Console.

### **Superior Class**

nsAdminObject

### **OID**

2.16.840.1.113730.3.2.53

#### **Required Attribute**

objectClass

#### **Description**

the objects for this object class

#### **Allowed Attributes**

nsDisplayName

#### **Description**

display name for the custom view

## nsDefaultObjectClasses

### Supported by

Netscape Administration Server 3.x, 4.0

### Definition

Describes the default object class for creating a new object in the directory server. Used only by Netscape Console for the Administration Server.

### Superior Class

top

### OID

2.16.840.1.113730.3.2.51

#### Required Attribute

objectClass  
cn (commonName)

#### Description

the objects for this object class  
the common name of the entry

#### Allowed Attributes

nsDefaultObjectClass

#### Description

default object class for a newly created entry

# nsDirectoryInfo

## Supported by

Netscape Administration Server 3.x, 4.0

## Definition

Contains information used by Netscape products to determine the user directory.

## Superior Class

top

## OID

2.16.840.1.113730.3.2.67

### Required Attribute

objectClass  
cn (commonName)

### Description

the objects for this object class  
the common name of the entry

### Allowed Attributes

nsBindDN  
nsBindPassword  
nsDirectoryInfoRef  
nsDirectoryURL

### Description

bind DN for the user and group directory server  
bind password for the user and group directory server  
DN of the shared user and group directory location  
LDAP URL of the user and group directory location

# nsEncryptionConfig

## Supported by

Netscape Administration Server 3.x, 4.0

## Definition

Contains configuration parameters for encryption.

## Superior Class

top

## OID

2.16.840.1.113730.3.2.60

### Required Attribute

objectClass  
cn (commonName)

### Description

the objects for this object class  
the common name of the entry

### Allowed Attributes

nsCertfile  
nsKeyfile  
nsSSL2  
nsSSL2Ciphers  
nsSSL3  
nsSSL3Ciphers  
nsSSL3SessionTimeout  
nsSSLClientAuth  
nsSSLSessionTimeout

### Description

certificate database used by the SSL-enabled server  
key databse used by the SSL-enabled server  
used to enable and disableSSL2 ciphers  
SSL2-spported ciphers  
Used to enable and disable SSL3 ciphers  
SSL3-supported ciphers  
SSL v3 cipher session timeout value  
used by other servers to enable and disable certificate-based client authentication  
SSL2 cipher session timeout value

# nsEncryptionModule

## Supported by

Netscape Administration Server 3.x, 4.0

## Definition

Conatins information about the encryption module.

## Superior Class

top

## OID

2.16.840.1.113730.3.2.61

### Required Attribute

objectClass  
cn (commonName)

### Description

the objects for this object class  
the common name of the entry

### Allowed Attributes

nsSSLActivation  
nsSSLPersonalitySSL  
nsSSLToken

### Description

used to enable a cipher family  
certificate name  
token name for the security modules

# nsGlobalParameters

## Supported by

Netscape Administration Server 3.x, 4.0

## Definition

Stores global parameter settings for Netscape products in a domain.

## Superior Class

top

## OID

2.16.840.1.113730.3.2.50

### Required Attribute

objectClass  
cn (commonName)

### Description

the objects for this object class  
the common name of the entry

### Allowed Attributes

nsUniqueAttribute  
nsUserIDFormat  
nsUserRDNComponent  
nsGroupRDNComponent  
nsNYR  
nsWellKnownJarfiles

### Description

determines the uid format of new user objects created in the Netscape Console  
determines the uid format of new user objects created in the Netscape Console  
default RDN for new user object  
default RDN for a new group object  
used to indicates LiveLead function  
reserved

# nsHost

## Supported by

Netscape Administration Server 3.x, 4.0

## Definition

Represents a physical machine (node).

## Superior Class

top

## OID

2.16.840.1.113730.3.2.57

### Required Attribute

objectClass  
cn (commonName)

### Description

the objects for this object class  
the common name of the entry

### Allowed Attributes

description  
l (localityName)  
nsHardwarePlatform  
nsIndexType  
nsOSVersion  
nsHostLocation

### Description

brief description of the physical machine's representation  
the location where the physical machine exists  
hardware platform for a host machine  
index type  
operating system version of the host machine  
physical location of the host machine

# nsLegacyAdminGroup

## Supported by

Netscape Administration Server 3.x, 4.0

## Definition

Represents root information about a legacy Netscape server product (version 3.x and earlier). nsLegacyAdminGroup is the container branch point for the legacy product.

## Superior Class

nsAdminGroup

## OID

2.16.840.1.113730.3.2.68

### Required Attribute

objectClass

### Description

the objects for this object class

### Allowed Attributes

adminUrl

### Description

URL to the Administration Server used to manage a Netscape server

## **nsLegacyAdminServer**

### **Supported by**

Netscape Administration Server 3.x, 4.0

### **Definition**

Represents a legacy Netscape Administration Server.

### **Superior Class**

nsAdminServer

### **OID**

2.16.840.1.113730.3.2.70

#### **Required Attribute**

objectClass

#### **Description**

the objects for this object class

## **nsLegacyApplication**

### **Supported by**

Netscape Administration Server 3.x, 4.0

### **Definition**

Represents the legacy Netscape application (version 3.x and earlier).

### **Superior Class**

nsApplication

### **OID**

2.16.840.1.113730.3.2.69

#### **Required Attribute**

objectClass

#### **Description**

the objects for this object class

# nsLegacyServer

## Supported by

Netscape Administration Server 3.x, 4.0

## Definition

The class used to represent other Netscape legacy servers.

## Superior Class

nestcapeServer

## OID

2.16.840.1.113730.3.2.71

### Required Attribute

objectClass

### Description

the objects for this object class

### Allowed Attributes

nsServerID

url

### Description

the server identifier for the legacy server

The URL for the legacy server

# nsResourceRef

## Supported by

Netscape Administration Server 3.x, 4.0

## Definition

Branching container for Netscape topology information

## Superior Class

top

## OID

2.16.840.1.113730.3.2.62

### Required Attribute

objectClass  
cn (commonName)

### Description

the objects for this object class  
the common name of the branchpoint entry

### Allowed Attributes

seeAlso

### Description

Identifies another entry that may contain related information.

## nsTask

### Supported by

Netscape Administration Server 3.x, 4.0

### Definition

Represents task information for Netscape products.

### Superior Class

top

### OID

2.16.840.1.113730.3.2.63

#### Required Attribute

objectClass  
cn (commonName)

#### Description

the objects for this object class  
the common name of the task entry

#### Allowed Attributes

nsExecRef  
nsHelpRef  
nsLogSuppress  
nsTaskLabel

#### Description

CGI that represents the task  
help URL for the task  
used to suppress logging while task is being executed  
label for the program to reference a task

# nsTaskGroup

## Supported by

Netscape Administration Server 3.x, 4.0

## Definition

Contains a set of nsTask objects.

## Superior Class

top

## OID

2.16.840.1.113730.3.2.64

### Required Attribute

objectClass  
cn (commonName)

### Description

the objects for this object class  
the common name of the task group entry

### Allowed Attributes

nsTaskLabel

### Description

label for the program to reference a task

# nsTopologyCustomView

## Supported by

Netscape Administration Server 3.x, 4.0

## Definition

Stores the default Topology view information for the Administration Server Console.

## Superior Class

nsCustomView

## OID

2.16.840.1.113730.3.2.54

### Required Attribute

objectClass  
cn (commonName)

### Description

the objects for this object class  
the common name of the entry

### Allowed Attributes

nsViewConfiguration

### Description

default custom view configuration information

# nsTopologyPlugin

## Supported by

Netscape Administration Server 3.x, 4.0

## Definition

Specifies topology plug-in information for the Administration Server Console.

## Superior Class

nsAdminObject

## OID

2.16.840.1.113730.3.2.55

### Required Attribute

objectClass  
cn (commonName)

### Description

the objects for this object class  
the common name of the entry

### Allowed Attributes

### Description



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# **netscapeCalendarServer**

## **Supported by**

Netscape Calendar Server

Netscape Directory Server 1.0, 3.x, 4.0

## **Definition**

Used to store information about the Netscape Calendar Server in the directory. This object class is a Netscape extension to the LDAP schema.

## **Superior Class**

top

## **OID**

2.16.840.1.113730.3.2.17

### **Required Attribute**

objectClass

### **Description**

Specifies the objects for this object class.

## **nsCalAdmin**

### **Supported by**

Netscape Calendar Server

Netscape Directory Server 1.0, 3.x, 4.0

### **Definition**

Object class used by the Netscape Calendar Server to store information about the calendar server administrator in the directory.

### **Superior Class**

top

### **OID**

2.16.840.1.113730.3.2.15

<b>Required Attributes</b>	<b>Description</b>
objectClass	Specifies the objects for this object class.
<b>Allowed Attributes</b>	<b>Description</b>
c (countryName)	Country name (supported by DS 4.0 only).
cn (commonName)	Administrator's common name.
fax (facsimileTelephoneNumber)	Administrator's fax number.
gidNumber	Same as generation Qualifier in the Lightweight Internet Person Schema (LIPS).
givenName	Administrator's given, or first name.
initials	Administrator's initials.
mail	Administrator's email address (supported by DS 4.0 only).
nsCalAccess	Defines whether the administrator should be allowed or denied access to the calendar server.
nsCalAccessDomain	Internet domain or IP address from which the calendar administrator is allowed to access calendar data. This attribute is reserved for future use.
nsCalAdmd	X.400 Administration Management Domain Name of the administrator.
nsCalFlags	Reserved for future use.
nsCalHost	Hostname, or IP address, of the computer hosting the calendar administrator's information.
nsCalLanguageId	Language in which the administrator prefers to receive email.
nsCalNodeAlias	Mnemonic name of the node on which the administrator's data is stored.
nsCalOrgUnit2	X.400 Organization Unit 2 (OU2).
nsCalOrgUnit3	X.400 Organization Unit 3 (OU3).
nsCalOrgUnit4	X.400 Organization Unit 4 (OU4).
nsCalPasswordRequired	Specifies whether a calendar administrator must supply a password to access calendar data.
nsCalPrmd	X.400 Private Management Domain Name of the administrator.

Allowed Attributes	Description
nsCalServerVersion	Version number of the calendar server hosting the calendar administrator's data.
nsCalSysopCanWritePassword	Specifies whether the calendar server administrator can overwrite user passwords.
nsCalXItemId	Identification number of the node on which the calendar administrator's data is stored.
o (organizationName)	The organization name (supported by DS 4.0 only).
ou (organizationUnitName)	Organizational unit to which the administrator belongs.
postalAddress	Administrator's postal address.
sn (surName)	Administrator's surname or last name.
telephoneNumber	Administrator's telephone number.
userPassword	Administrator's password.

## **nsCalResource**

### **Supported by**

Netscape Calendar Server

Netscape Directory Server 1.0, 3.x, 4.0

### **Definition**

Object class used by the Netscape Calendar Server to store information about calendar resources, such as conference rooms, in the directory.

### **Superior Class**

top

### **OID**

2.16.840.1.113730.3.2.16

<b>Required Attributes</b>	<b>Description</b>
objectClass	Specifies the objects for this object class.

  

<b>Allowed Attributes</b>	<b>Description</b>
cn (commonName)	Resource's common name.
fax (facsimileTelephoneNumber)	Fax number associated with the resource.
givenName	Given, or first name (supported by DS 4.0 only)
mail	Resource's email address (supported by DS 4.0 only).
nsCalAccess	Defines whether the resource should be allowed or denied access to the calendar server.
nsCalAccessDomain	Internet domain or IP address from which the calendar resource is allowed to access calendar data. This attribute is reserved for future use.
nsCalDefaultNoteReminder	Type (if any) of note reminder.
nsCalDefaultReminder	Type (if any) of event reminder.
nsCalDefaultTaskReminder	Type (if any) of task reminder.
nsCalDisplayPrefs	Display preferences for the resource.
nsCalFlags	Reserved for future use.
nsCalHost	Hostname, or IP address, of the computer hosting the calendar resource's information.
nsCalLanguageId	Language in which the person responsible for the resource prefers to receive email notification.
nsCalNodeAlias	Mnemonic name of the node on which the resource's data is stored.
nsCalNotifMechanism	Mechanism used to notify event attendees (usually email).
nsCalOperatingPrefs	Operating preferences for the resource. Reserved for future use.
nsCalPasswordRequired	Specifies whether a calendar user must supply a password to access calendar data about this resource.
nsCalRefreshPrefs	Defines whether the resource's preferences should be refreshed and how often.
nsCalResourceCapacity	Capacity of the resource, such as maximum room occupancy.

Allowed Attributes	Description
nsCalResourceNumber	The resource's identification number.
nsCalServerVersion	Version number of the calendar server hosting the calendar resource's data.
nsCalSysopCanWritePassword	Specifies if the calendar server administrator can overwrite the resource's password.
nsCalTimezone	The current timezone in which the resource is located.
nsCalXItemId	Identification number of the node on which the calendar resource's data is stored.
postalAddress	Postal address of the resource.
sn (surName)	The surname or last name (supported by DS 4.0 only)
telephoneNumber	The resource's telephone number.
userPassword	Reserved for future use.

# nsCalUser

## Supported by

Netscape Calendar Server

Netscape Directory Server 1.0, 3.x, 4.0

## Definition

Object class used by the Netscape Calendar Server to store information about calendar users in the directory.

## Superior Class

top

## OID

2.16.840.1.113730.3.2.14

### Required Attributes

objectClass

### Description

Specifies the objects for this object class.

### Allowed Attributes

c (countryName)

employeeNumber

gidNumber

givenName

initials

mail

nsCalAccess

### Description

Country name (supported by DS 4.0 only).

Calendar user's employee number (supported by DS 4.0 only).

Same as generation Qualifier in the Lightweight Internet Person Schema (LIPS).

Calendar user's given, or first, name (supported by DS 4.0 only).

Calendar user's initials (supported by DS 4.0 only).

Calendar users email address (supported by DS 4.0 only).

Defines whether the user should be allowed or denied access to the calendar server.

Allowed Attributes	Description
nsCalAccessDomain	Internet domain or IP address from which the calendar user is allowed to access calendar data. This attribute is reserved for future use.
nsCalAdmd	X.400 Administration Management Domain Name of the user.
nsCalDefaultNoteReminder	Type (if any) of note reminder.
nsCalDefaultReminder	Type (if any) of event reminder.
nsCalDefaultTaskReminder	Type (if any) of task reminder.
nsCalDisplayPrefs	Display preferences for the user.
nsCalFlags	Reserved for future use.
nsCalHost	Hostname, or IP address, of the computer hosting the calendar user's information.
nsCalLanguageId	Language in which the user prefers to receive email.
nsCalNodeAlias	Mnemonic name of the node on which the user's data is stored.
nsCalNotifMechanism	Mechanism used to notify event attendees (usually email).
nsCalOperatingPrefs	Operating preferences for the user. Reserved for future use.
nsCalOrgUnit2	X.400 Organization Unit 2 (OU2).
nsCalOrgUnit3	X.400 Organization Unit 3 (OU3).
nsCalOrgUnit4	X.400 Organization Unit 4 (OU4).
nsCalPasswordRequired	Specifies whether the user must supply a password to access calendar data.
nsCalPrmd	X.400 Private Management Domain Name of the user.
nsCalRefreshPrefs	Defines whether the user's calendar information should be refreshed and how often.
nsCalServerVersion	Version number of the calendar server hosting the calendar user's data.
nsCalSysopCanWritePassword	Specifies if the calendar server administrator can overwrite the user's password.

Allowed Attributes	Description
nsCalTimezone	The user's current timezone.
nsCalXItemId	Identification number of the node on which the calendar user's data is stored.
o (organizationName)	Organization name (supported by DS 4.0 only).
ou (organizationUnitName)	Organization unit name (supported by DS 4.0 only).

# Collabra Server Object Classes

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# **netscapeNewsServer**

## **Supported by**

Netscape Collabra Server

Netscape Directory Server 1.0, 3.x, 4.0

## **Definition**

Stores information about the Netscape Collabra Server in the directory.  
Reserved for future use.

## **Superior Class**

top

## **OID**

2.16.840.1.113730.3.2.27

### **Required Attribute**

objectClass

### **Description**

Specifies the objects for this object class.

## **ngInfo**

### **Supported by**

Netscape Collabra Server

Netscape Directory Server 1.0, 3.x, 4.0

### **Definition**

Object class used by the Netscape Collabra Server to store discussion (news) group information

Object classes of this type are stored in a separate subtree under ou=Netscape Servers. The branch point is represented by the ngcomponent=. entry. Thus, if your directory's suffix is o=Airius.com, then all discussion group information is stored in the subtree:

```
ngcomponent=., o=Airius.com
```

This subtree and its contents are written to the directory by the Collabra server. The structure of this tree, the format and usage of the nginfo object class, and the format and usage of the nginfo attributes are subject to change without notice.

### **Superior Class**

top

### **OID**

2.16.840.1.113730.3.2.26

**Required Attributes**

objectClass  
ngcomponent

**Description**

Specifies the objects for this object class.  
A single part of the discussion group's name.

**Allowed Attributes**

description  
nsAccessLog  
nscreator  
nsflags  
nsnewsACL  
nsPrettyName  
subtreeaci

**Description**

Text description of the discussion group.  
Access permissions set for the various Collabra roles.  
User ID of the discussion group's creator.  
Reserved for future use.  
Access control set for the discussion group.  
The discussion group's name.  
Reserved.



# Compass Server Object Classes

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# **netscapeCompassServer**

## **Supported by**

Netscape Compass Server

Netscape Directory Server 1.0, 3.x, 4.0.

## **Object Class Function**

Stores information about the Netscape Compass Server in the directory.  
Reserved for future use.

## **Superior Class**

top

## **OID**

2.16.840.1.113730.3.2.19

### **Required Attribute**

objectClass

### **Description**

Specifies the objects for this object class

## **personalInterestProfile**

### **Supported by**

Netscape Compass Server

Netscape Directory Server 1.0, 3.x, 4.0.

### **Object Class Function**

Object class used by the Netscape Compass Server to store personal interest profile information for Compass server users. For more information on personal interest profiles, see the *Netscape Compass Server Administrator's Guide*.

### **Superior Class**

top

### **OID**

2.16.840.1.113730.3.2.20

<b>Required Attributes</b>	<b>Description</b>
objectClass	Specifies the objects for this object class
pipUid	User ID of the person to whom this profile belongs
<b>Allowed Attributes</b>	<b>Description</b>
pipFormat	Format of the free text search profile update sent to the user
pipFrequency	Attribute used by the compass server to describe how often a user receives "My Compass" newsletters with free text search updates
pipGroup	Reserved
pipHour	Hours during the day that the user receives free text search profile updates
pipIdStCount	Last unique ID used by the user
pipIRList	Domains and newsgroups the user wishes to monitor
pipIROption	Defines whether or not all entries in pipirlist should be updated or excluded from updates
pipLastCount	Number of matches that occurred during the last update
pipMaxHits	Maximum number of documents returned for each free text search profile update
pipMedium	Medium used to send information to the user about updates on free text search profiles
pipNotify	Reserved
pipPrivilege	Reserved
pipPWP	Address of the Personal Web Page (PWP) database
pipReservedCES1	Reserved for future use
pipReservedCES2	Reserved for future use
pipReservedCESs3	Reserved for future use
pipReservedCIS1	Reserved for future use
pipReservedCIS2	Reserved for future use
pipReservedCIS3	Reserved for future use
pipReservedCIS	Reserved for future use
pipReservedCIS5	Reserved for future use

Allowed Attributes	Description
pipReservedCIS6	Reserved for future use
pipResultSet	List of attributes about which the user wants to receive updates
pipSortOrder	Sort order of the information in the summary report of the free text search profile update
pipStatus	Defines whether the profile is enabled or disabled
pipStCategory	Categories or search strings the user is interested in
pipStFormat	Format of the category search profile update sent to the user
pipStFrequency	Frequency that the user receives category update alerts
pipStHour	Hours during the day that the user receives free category profile updates
pipStId	Unique ID of a search topic included in the profile
pipStInterest	Describes the importance to the user of each individual search topic (This attribute is used with Netscape Compass Server Professional only)
pipStIrList	Domains and newsgroups the user wants to monitor
pipStIrOption	Defines whether or not all entries in pipstirlist will be updated or excluded from category updates
pipStLastCount	Number of category matches during the last update
pipStMaxHits	Maximum number of documents returned for each category search profile update
pipStMedium	Medium used to send information to the user about updates on category search profiles
pipStName	Arbitrary name created by the user to describe a search topic
pipStPrivacy	Defines whether queries of this entry should be allowed or disallowed
pipStQuery	Undefined
pipStResultSet	List of categories about which the user wants to receive updates
pipStSortOrder	Sort order of the information in the summary report of the category search profile update
pipStStatus	Status of the personal interest profile
pipStTaxonomy	Taxonomy ID of a search topic

Allowed Attributes	Description
pipStTimestamp	Date the category search profile was last updated for this user
pipStTotalCount	Number of category matches to date
pipStTotalRun	Number of category search updates performed to date
pipStType	Defines whether a search is a category search or a free text search
pipTimeStamp	Date the free text search profile was last updated for this user
pipTotalCount	Number of matches that occurred during all updates to date
pipTotalRun	Total number of updates to date
pipUniqueId	Unique ID of the user to whom this profile belongs
pipUserType	Type of user to whom this profile belongs

## **PIPUser**

### **Supported by**

Netscape Compass Server

Netscape Directory Server 1.0, 3.x, 4.0

### **Object Class Function**

Object class used by the Netscape Compass Server to contain information about Personal Interest Profile (PIP) users. For more information about PIPs, see the *Netscape Compass Server Administrator's Guide*. Reserved for future use.

### **Superior Class**

top

### **OID**

2.16.840.1.113730.3.2.22

**Required Attributes**

objectClass

**Description**

Specifies the objects for this object class

**Allowed Attributes**

pipCompassServers

pipReservedCES1

pipReservedCES2

pipReservedCESs3

pipReservedCIS1

pipReservedCIS2

pipReservedCIS3

pipReservedCIS

pipReservedCIS5

pipReservedCIS6

pipUniqueId

**Description**

Reserved for future use

Reserved for future use

Reserved for future use

Reserved for future use

Reserved for future use

Reserved for future use

Reserved for future use

Reserved for future use

Reserved for future use

Reserved for future use

Unique ID of the user

## **PIPUserInfo**

### **Supported by**

Netscape Compass Server

Netscape Directory Server 1.0, 3.x, 4.0.

### **Object Class Function**

Used by the Netscape Compass Server to contain information about Personal Interest Profile (PIP) users that do not have a user ID. For more information about PIPs, see the *Netscape Compass Server Administrator's Guide*. Reserved for future use.

### **Superior Class**

top

### **OID**

2.16.840.1.113730.3.2.21

**Required Attributes**

objectClass

**Description**

Specifies the objects for this object class

**Allowed Attributes**

cn (commonName)

description

mail

pipCompassServers

pipUniqueId

userPassword

**Description**

The user's common name

Freeform description of the user

Email address of the user

Reserved for future use

Unique ID of the user

The user's password



# Delegated Administrator Object Classes

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# nsManagedISP

## Supported by

Netscape Delegated Administrator 4.0

Netscape Directory Server 4.0

## Definition

Stores root information for a deployment of delgated administrator.

## Superior Class

top

## OID

Not assigned

### Required Attribute

objectClass

### Description

Specifies the objects for this object class

### Allowed Attributes

nsNumDomains

### Description

Number of NDA domains

## **nsManagedDomain**

### **Supported by**

Netscape Delegated Administrator 4.0

Netscape Directory Server 4.0

### **Definition**

Stores information for a domain managed by delegated administrator.

### **Superior Class**

top

### **OID**

Not assigned

**Required Attribute**

objectClass

**Description**

Specifies the objects for this object class

**Allowed Attributes**

nsDefaultMaxDeptSize

**Description**

The default number maximum number of users for a newly created department

nsMaxDepts

The maximum number of departments that may be created

nsMaxUsers

The maximum number of user accounts that may be created

nnsNumDepts

The number of departments in use by NDA

nsNumUsers

The number of user accounts in use by NDA

owner

Used internally by NDA for access control to define the DN of a user, an LDAP group, or department that may modify this entry

## **nsManagedDept**

### **Supported by**

Netscape Delegated Administrator 4.0

Netscape Directory Server 4.0

### **Definition**

Stores information for a department in delegated administrator.

### **Superior Class**

groupOfUniqueNames

### **OID**

Not assigned

**Required Attribute**

objectClass

**Description**

Specifies the objects for this object class

**Allowed Attributes**

nsMaxUsers

**Description**

The maximum number of user accounts that may be created

nsNumUsers

The number of user accounts in use by NDA

owner

Used internally by NDA for access control to define the DN of a user, an LDAP group, or department that may modify this entry

## **nsManagedPerson**

### **Supported by**

Netscape Delegated Administrator 4.0

Netscape Directory Server 4.0

### **Definition**

Stores NDA-specific information for a user.

### **Superior Class**

top

### **OID**

Not assigned

**Required Attribute**

objectClass

**Description**

Specifies the objects for this object class

**Allowed Attributes**

owner

**Description**

Used internally by NDA for access control. The value is the DN of a user, an LDAP group, or department that may modify this entry

nsSearchFilter

Reserved for future development



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## **account**

### **Supported by**

Netscape Directory Server 3.x, 4.0

### **Definition**

Reserved.

### **Superior Class**

top

### **OID**

0.9.2342.19200300.100.4.5

#### **Required Attributes**

objectClass

uid (userID)

#### **Description**

Defines the object classes for the entry.

The account's user ID.

#### **Allowed Attributes**

description

host

l (localityName)

o (organizationName)

ou (organizationUnitName)

seeAlso

#### **Description**

Text description of the account.

Hostname of the computer on which the account resides.

Locality in which the account resides.

Organization to which the account belongs.

Organizational unit to which the account belongs.

URL to information relevant to the account.

## alias

### Supported by

LDAP

### Definition

Object class used to point to other entries in the directory tree. Reserved for use by the directory server.

### Superior Class

top

### OID

2.5.6.1

### Required Attributes

objectClass

aliasedObjectName

### Description

Defines the object classes for the entry.

Distinguished name of the entry for which this entry is an alias.

## **applicationEntity**

### **Supported by**

LDAP

### **Definition**

Object class used to represent application entities in the directory. An application entity consists of those aspects of an application process pertinent to OSI. Reserved for use by the directory server.

### **Superior Class**

top

### **OID**

2.5.6.12

**Required Attributes**

objectClass  
presentationAddress  
cn (commonName)

**Description**

Defines the object classes for the entry.  
OSI network address.  
Common name of the entity.

**Allowed Attributes**

description  
l (localityName)  
o (organizationName)  
ou (organizationUnitName)  
seeAlso  
supportedApplicationContext

**Description**

Text description of the entity.  
Locality in which the entity resides.  
Organization to which the entity belongs.  
Organizational unit to which the entity belongs.  
URL to information relevant to the entity.  
Identifiers of OSI application contexts.

## **applicationProcess**

### **Supported by**

LDAP

### **Definition**

Object class used to define entries representing application processes in the directory (see ISO 7498). This object class was inherited from X.500 Directory Services. Reserved for use by the directory server.

### **Superior Class**

top

### **OID**

2.5.6.11

**Required Attributes**

objectClass  
cn (commonName)

**Description**

Defines the object classes for the entry.  
Common name of the process.

**Allowed Attributes**

description  
l (localityName)  
ou (organizationUnitName)  
seeAlso

**Description**

Text description of the process.  
Locality in which the process resides.  
Organizational unit to which the process belongs.  
URL to information relevant to the process.

# cacheObject

## Supported by

Netscape Directory Server 3.x, 4.0

## Definition

Object class that allows an entry to contain the timeToLive (ttl) attribute.

## Superior Class

top

## OID

1.3.6.1.4.1.250.3.18

### Required Attributes

objectClass

### Description

Defines the object classes for the entry.

### Allowed Attributes

ttl (timeToLive)

### Description

Time, in seconds, that cached information about an entry should be considered valid.

# certificationAuthority

## Supported by

LDAP

## Definition

Object class used to store information about Certificate Authorities (CAs) in the directory. Reserved for use by the directory server.

## Superior Class

top

## OID

2.5.6.16

### Required Attributes

objectClass

cACertificate

### Description

Defines the object classes for the entry.

Certificate, in binary form, from a certification authority.

### Allowed Attributes

authorityRevocationList

certificateRevocationList

crossCertificatePair

### Description

List, in binary form, of CA certificates that have been revoked and are no longer considered valid or secure.

List, in binary form, of user certificates that have been revoked.

Used when two CAs certify each other so that they can be trusted.

# changeLogEntry

## Supported by

Netscape Directory Server 3.x, 4.0

## Definition

Object class used by the Netscape Directory Server to represent a change made to its directory.

## Superior Class

top

## OID

2.16.840.1.113730.3.2.1

### Required Attributes

objectClass  
changeNumber  
changeTime  
changeType  
targetDn

### Description

Defines the object classes for the entry.  
Arbitrarily assigned number to the changelog.  
The time a change took place.  
Type of change performed on an entry.  
Distinguished name of an entry that was added, modified, or deleted on a supplier server.

### Allowed Attributes

changes

### Description

Changes made to a directory server.

Allowed Attributes	Description
deleteOldRdn	A flag that defines whether the old Relative Distinguished Name (RDN) of the entry should be retained as a distinguished attribute of the entry, or should be deleted.
filterInfo	Reserved for future use.
netshareHomeURL	New RDN of an entry that is the target of a modRDN or modDN operation.
newSuperior	Name of the entry that becomes the immediate superior of the existing entry, when processing a modDN operation.

## **cirReplicaSource**

### **Supported by**

Netscape Directory Server 3.x, 4.0

### **Definition**

Object class used by the Netscape Directory Server for consumer-initiated replication that contains all the replication information for a particular subtree of the directory.

### **Superior Class**

top

### **OID**

2.16.840.1.113730.3.2.11

**Required Attributes**

objectClass  
cn (commonName)

**Description**

Defines the object classes for the entry.  
Unique identifier of the supplier server.

**Allowed Attributes**

cirBeginORC  
cirBindCredentials  
cirBindDn  
cirHost  
cirLastUpdateApplied  
cirPort  
cirReplicaRoot  
cirSyncInterval  
cirUpdateFailedat  
cirUpdateSchedule  
cirUsePersistentSearch  
cirUseSsl

**Description**

Defines whether the consumer server should erase the contents of its directory before replication.  
Bind credentials used to connect to the supplier server.  
Distinguished name used to bind to the supplier server.  
Hostname of the supplier server.  
Last date and time that synchronization occurred between the consumer and supplier servers.  
Port number of the supplier server.  
Root of the subtree on the supplier server to be replicated on the consumer.  
Periodically, the consumer server queries the supplier to find out if any changes have been made to the replicated portion of the directory. This attribute defines, in seconds, the interval between consumer queries of the supplier server.  
Timestamp of the last failed update attempt.  
Hours between which replication can occur.  
Reserved for future use.  
Tells the consumer server to use an SSL connection when binding to the supplier server.

Allowed Attributes	Description
replicaCFUpdated	Stores a locally-stored copy of the last known replayed replication changenumber. Not available in version 3.x. The server falls back to using this number if the last-replayed change number was not successfully stored on the consumer.
replicaEntryFilter	Specifies which entries should be replicated or omitted during replication.
replicaNickName	Freeform name that describes a particular set of replication rules between a single supplier and a single consumer server.
replicatedAttributeList	Specifies which attributes should be replicated or omitted during replication.

## **config**

### **Supported by**

Netscape Directory Server 3.x, 4.0

### **Definition**

Extensible object used to hold slapd configuration. This is used for `cn=config` and `cn=ldbm-config`.

### **Superior Class**

top

### **OID**

2.16.840.1.113730.3.2.39

#### **Required Attributes**

objectClass  
cn (commonName)

#### **Description**

Specifies the object classes of the object.  
Common name of the slapd configuration.

## **country**

### **Supported by**

LDAP

### **Definition**

Defines entries that represent countries.

### **Superior Class**

top

### **OID**

2.5.6.2

#### **Required Attributes**

objectClass  
co (countryName)

#### **Description**

Defines the object classes for the entry.  
The entry's country name.

#### **Allowed Attributes**

description  
searchGuide

#### **Description**

Text description of the country.  
Specifies information for suggested search criteria when using the entry as the base object in the directory tree for a search operation.

# dcObject

## Supported by

Netscape Directory Server 3.x, 4.0

## Definition

Object class that allows domain components to be defined for an entry. This object class is defined as auxiliary because it is commonly used in combination with another object class, such as o (organizationName) (organization), ou (organizationUnitName) (organizationalUnit), or l (localityName) (locality). For example:

```
dn: dc=airius,dc=com
objectClass: top
objectClass: organization
objectClass: dcObject
dc: airius
o: Airius Corp.
```

## Superior Class

top

## OID

1.3.6.1.4.1.1466.344

### Required Attributes

objectClass  
dc (domainComponent)

### Description

Specifies the object classes of the object.  
Domain component of the entry.

# device

## Supported by

LDAP

## Definition

Object class used to store information about network devices, such as printers, in the directory. Reserved for use by the directory server.

## Superior Class

## OID

2.5.6.14

### Required Attributes

objectClass  
cn (commonName)

### Description

Specifies the object classes of the object.  
Common name of the device.

### Allowed Attributes

description  
l (localityName)  
o (organizationName)  
ou (organizationUnitName)  
owner  
seeAlso  
serialNumber

### Description

Text description of the device.  
Locality in which the device resides.  
Organization to which the device belongs.  
Organizational unit to which the device belongs.  
Distinguished name of the person responsible for the device.  
URL to information relevant to the device.  
Serial number of the device.

# directoryServerFeature

## Supported by

Netscape Directory Server 4.0

## Definition

Represents a feature of the server. Designed primarily for use in defining ACLs, but may also contain configuration information (for instance, information about VLV indexes). Directory server 4.0 features are listed under `cn=features`, `cn=config`.

## Superior Class

top

## OID

2.16.840.113730.3.2.40

### Required Attributes

objectClass

### Description

Specifies the object classes of the object.

### Allowed Attributes

cn (commonName)  
multiLineDescription  
oid

### Description

Common name of the entry.  
Descriptive text identifying the entry.  
OID of the feature (for example 2.16.840.1.113730.3.4.9 is the VLV request control OID)

# document

## Supported by

Netscape Directory Server 3.x, 4.0

## Definition

Used to define entries which represent documents in the directory. Reserved for use by the directory server.

## Superior Class

top

## OID

0.9.2342.19200300.100.4.6

### Required Attributes

objectClass  
documentLocation

### Description

Specifies the object classes of the object.  
Unique identifier for a document.

### Allowed Attributes

abstract  
authorCn  
authorSn  
cn (commonName)  
description  
documentAuthor  
documentLocation  
documentPublisher  
documentStore  
documentTitle  
drink  
keyWords

### Description

Abstract of the document.  
Author's common, or given, name.  
The author's surname.  
Common name of the document.  
Text description of the document.  
Distinguished name of the document author.  
Location of the original document.  
Person or organization that published the document.  
Not defined.  
The document's title.  
The document's version number.  
Keywords that describe the document.

Allowed Attributes	Description
l (localityName)	Locality in which the document resides.
o (organizationName)	Organization to which the document belongs.
obsoletedByDocument	Distinguished name of a document that obsoletes this document.
obsoletesDocument	Distinguished name of a document that is obsoleted by this document.
ou (organizationUnitName)	Organizational unit to which the document belongs.
seeAlso	URL to information relevant to the document.
subject	Subject of the document.
updatedByDocument	Distinguished name of a document that is an updated version of this document.
updatesDocument	Distinguished name of a document for which this document is an updated version.

# documentSeries

## Supported by

Netscape Directory Server 3.x, 4.0

## Definition

Used to define an entry that represents a series of documents. Reserved for use by the directory server.

## Superior Class

top

## OID

0.9.2342.19200300.100.4.9

### Required Attributes

objectClass  
cn (commonName)

### Description

Specifies the object classes of the object.  
The common name of the series.

### Allowed Attributes

description  
l (localityName)  
o (organizationName)  
ou (organizationUnitName)  
seeAlso  
telephoneNumber

### Description

Text description of the series.  
Locality in which the series resides.  
Organization to which the series belongs.  
Organizational unit to which the series belongs.  
URL to information relevant to the series.  
Telephone number of the person responsible for the series.

# domain

## Supported by

Netscape Directory Server 3.x, 4.0

## Definition

Object class used to define entries that represent DNS domains in the directory. The domainComponent attribute should be used for naming entries of this object class. Reserved for use by the directory server.

Used to represent Internet domain names (for example, airius.com).

The domain object class can only be used with an entry that does not correspond to an organization, organizational unit or other type of object for which an object class has been defined. The domain object class requires that the domainComponent attribute be present, and permits several other attributes to be present in the entry.

## Superior Class

top

## OID

0.9.2342.19200300.100.4.13

### Required Attributes

objectClass  
dc (domainComponent)

### Description

Specifies the object classes of the object.  
One component of a domain name.

### Allowed Attributes

associatedName  
businessCategory  
description  
destinationIndicator

### Description

Entry in the organizational directory tree associated with a DNS domain.  
Type of business in which this domain is engaged.  
Text description of the domain.  
This attribute is used for telegram services to this domain.

Allowed Attributes	Description
fax (facsimileTelephoneNumber)	Fax number associated with the domain.
internationalIsdnNumber	ISDN number associated with the domain.
l (localityName)	Locality in which the domain resides.
manager	Distinguished name of a manager associated with the domain.
o (organizationName)	Organization to which the domain belongs.
physicalDeliveryOfficeName	Location where physical deliveries can be made.
postOfficeBox	Domain's post office box.
postalAddress	Mailing address associated with the domain.
postalCode	Domain's postal code (such as a United States zip code).
preferredDeliveryMethod	Domain's preferred method of contact or delivery.
registeredAddress	Postal address suitable for reception of expedited documents, where the recipient must verify delivery.
searchGuide	Specifies information for suggested search criteria when using the entry as the base object in the directory tree for a search operation.
seeAlso	URL to information relevant to the domain.
st	State or province in which the domain resides.
street	Street address associated with the domain.
telephoneNumber	Telephone number associated with the domain.
teletexTerminalIdentifier	Identifier for a teletex terminal associated with the domain.
telexNumber	Telex number associated with the domain.
userPassword	Reserved for future use.
x121Address	X.121 address associated with the domain.

## **domainRelatedObject**

### **Supported by**

Netscape Directory Server 3.x, 4.0

### **Definition**

Object class used to define entries that represent a DNS domain that is equivalent to an X.500 domain, usually an organization or organizational unit. Reserved for use by the directory server.

### **Superior Class**

top

### **OID**

0.9.2342.19200300.100.4.17

#### **Required Attributes**

objectClass  
associatedDomain

#### **Description**

Specifies the object classes of the object.  
DNS domain associated with an object in the directory tree.

# **DNSSDomain**

## **Supported by**

Netscape Directory Server 3.x, 4.0

## **Definition**

Object class used as a subclass of domain to store DNS resource records in the directory. Reserved for use by the directory server.

## **Superior Class**

top

## **OID**

0.9.2342.19200300.100.4.15

### **Required Attributes**

objectClass

### **Description**

Specifies the object classes of the object.

### **Allowed Attributes**

dNSRecord

### **Description**

DNS resource records.

## **dSA**

### **Supported by**

LDAP

### **Definition**

Object class used to define entries representing DSAs in the directory. Reserved for use by the directory server.

### **Superior Class**

top

### **OID**

2.5.6.13

#### **Required Attributes**

objectClass

#### **Description**

Specifies the object classes of the object.

#### **Allowed Attributes**

knowledgeInformation

#### **Description**

This attribute is no longer used.

## **extensibleObject**

### **Supported by**

LDAPv3

### **Definition**

When present in an entry, permits the entry to optionally hold any attribute. The allowed attribute list of this class is implicitly the set of all attributes known to the server.

### **Superior Class**

top

### **OID**

1.3.6.1.4.1.1466.101.120.111

#### **Required Attributes**

objectClass

#### **Description**

Defines the object classes for the entry.

#### **Allowed Attributes**

all attributes known to the server.

#### **Description**

# friendlyCountry

## Supported by

Netscape Directory Server 3.x, 4.0

## Definition

Object class used to define country entries in the directory tree. This object class is used to allow more user-friendly country names than those allowed by the country object class. Reserved for use by the directory server.

## Superior Class

top

## OID

0.9.2342.19200300.100.4.18

## Required Attribute

objectClass  
co (countryName)

## Description

Specifies the object classes of the object.  
stores the name of a country.

## **glue**

### **Supported by**

Netscape Directory Server 3.x, 4.0

### **Definition**

Used for filtered replication to determine if an entry should be replicated. For more information about extensible object classes, see the *Netscape Directory Server Deployment Guide*. Reserved.

### **Superior Class**

top

### **OID**

2.16.840.1.113730.3.2.3

# groupOfCertificates

## Supported by

Netscape Directory Server 1.x, 3.x, 4.x

## Definition

A groupOfCertificates entry describes a set of X.509 certificates. Any certificate that matches one of the memberCertificateDescription values is considered a member of the group.

## Superior Class

top

## OID

2.16.840.1.113730.3.2.31

### Required Attributes

objectClass  
cn (commonName)

### Description

Defines the object classes for the entry.  
The group's common name.

### Required Attributes

objectClass  
cn (commonName)

### Description

Defines the object classes for the entry.  
The group's common name.

### Allowed Attributes

businessCategory  
description  
memberCertificateDescription

### Description

Business in which the group is involved.  
description of the group  
Values used to determine if a particular certificate is a member of this group.

**Allowed Attributes**

- o (organizationName)
- ou (organizationUnitName)
- owner
- seeAlso

**Description**

Organization that controls the group of certificates.

Organizational unit to which the group belongs.

The group's owner.

URL to information relevant to the group.

# groupOfNames

## Supported by

LDAP

## Definition

Defines entries for a group of names.

## Superior Class

top

## OID

2.5.6.9

### Required Attributes

objectClass  
cn (commonName)

### Description

Defines the object classes for the entry.  
The group's common name.

### Required Attributes

objectClass  
cn (commonName)

### Description

Defines the object classes for the entry.  
The group's common name.

### Allowed Attributes

businessCategory  
description  
member  
o (organizationName)  
ou (organizationUnitName)  
owner  
seeAlso

### Description

Type of business in which the group is engaged.  
Text description of the group's purpose.  
A group member in distinguished name format.  
Organization to which the group belongs.  
Organizational unit to which the group belongs.  
The group's owner.  
URL to information relevant to the group.

# groupOfUniqueNames

## Supported by

LDAP

## Definition

Defines entries for a group of unique names.

## Superior Class

top

## OID

2.5.6.17

### Required Attributes

objectClass  
cn (commonName)

### Description

Defines the object classes for the entry.  
The group's common name.

### Allowed Attributes

businessCategory  
description  
o (organizationName)  
ou (organizationUnitName)  
owner  
seeAlso  
uniqueMember

### Description

Type of business in which the group is engaged.  
Text description of the group's purpose.  
Organization to which the group belongs.  
Organizational unit to which the group belongs.  
The group's owner.  
URL to information relevant to the group.  
A unique group member in distinguished name format.

# groupOfURLs

## Supported by

Netscape Directory Server 4.0

## Definition

An auxiliary object class of groupOfUniqueNames or groupOfNames. The group consists of a list of labeled URLs. Not supported by Netscape Directory Server 3.0.

## Superior Class

top

## OID

2.16.840.1.113730.3.2.33

### Required Attributes

objectClass  
cn (commonName)

### Description

Defines the object classes for the entry.  
The group's common name.

### Allowed Attributes

businessCategory  
description  
memberURL  
o (organizationName)  
ou (organizationUnitName)  
owner  
seeAlso

### Description

Business in which the group is involved.  
description of the group  
URL associated with each member of the group.  
Organization that controls the group of certificates.  
Organizational unit to which the group belongs.  
The group's owner.  
URL to information relevant to the server.

# inetOrgPerson

## Supported by

Netscape Directory Server 1.0, 3.x, 4.0

## Definition

Defines entries representing people in an organization's enterprise network. Inherits cn and sn from the person object class.

## Superior Class

person

## OID

2.16.840.1.113730.3.2.2

### Required Attributes

objectClass

### Description

Defines the object classes for the entry.

### Allowed Attributes

audio

businessCategory

carLicense

departmentNumber

displayName

employeeNumber

employeeType

givenName

homePhone

homePostalAddress

houseIdentifier

initials

### Description

stores a sound file in binary format.

Business in which the person is involved.

The license plate number of the person's vehicle.

Department for which the person works.

Preferred name of a person to be used when displaying entries.

The person's employee number.

The person's type of employment (for example, full time).

The person's given, or first, name.

The person's home phone number.

The person's home mailing address.

The person's home mailing address.

The person's initials.

Allowed Attributes	Description
jpegPhoto	An image in JPEG format.
labeledURL	Universal resource locator that is relevant to the person.
mail	The person's electronic mailing address.
manager	Distinguished name representing the person's manager.
mobile	The person's mobile phone number.
o (OrganizationName)	The name of the person's organization.
pager	The person's pager number.
photo	stores a photo, in binary form.
preferredLanguage	Defines a person's preferred written or spoken language.
roomNumber	The room number in which the person is located.
secretary	The person's secretary or administrator.
uid (userID)	Identifies the entry's userid (usually the logon ID).
userCertificate	stores a user's certificate in cleartext (not used).
userClass	stores a user's certificate in binary form.
userSMIMECertificate	stores a user's certificate in binary form. Used by Netscape Communicator for S/MIME.
x500UniqueIdentifier	Reserved.

# labeledURIObject

## Supported by

Netscape Directory Server 3.x, 4.0

## Definition

This object class can be added to existing directory objects to allow for inclusion of URI values. This approach does not preclude including the labeledURI attribute type directly in other object classes as appropriate. Reserved for use by the directory server.

## Superior Class

top

## OID

1.3.6.1.4.1.250.3.1

### Required Attributes

objectClass

### Description

Defines the object classes for the entry.

### Allowed Attributes

labeledURL

### Description

A Uniform Resource Identifier (URI) that is relevant to the entry.

# LDAPServer

## Supported by

Netscape Directory Server 1.0, 3.x, 4.0.

## Definition

Identifies the local server.

## Superior Class

top

## OID

2.16.840.1.113730.3.2.35

### Required Attributes

objectClass  
cn (commonName)

### Description

Defines the object classes for the entry.  
Unique identifier of the supplier server.

### Allowed Attributes

changeLogMaximumAge  
changeLogMaximumSize  
description  
generation  
l (localityName)  
ou (organizationUnitName)  
seeAlso

### Description

Maximum age permitted for the server's change log.  
Maximum size permitted for the server's change log.  
Text description of the server.  
Unique byte vector that identifies the server for replication purposes.  
Locality in which the server resides.  
Organizational unit to which the server belongs.  
URL to information relevant to the server.

# LDAPReplica

## Supported by

Netscape Directory Server 1.0, 3.x, 4.0

## Definition

Identifies entries in the local server that are replicated to a remote server, and identifies the remote server to which the entries are replicated. This object class is a Netscape extension to the LDAP schema.

## Superior Class

top

## OID

2.16.840.1.113730.3.2.36

### Required Attributes

objectClass  
cn (commonName)

### Description

Defines the object classes for the entry.  
The entry's common name.

### Allowed Attributes

description  
l (localityName)  
ou (organizationUnitName)  
replicaAbandonedChanges  
replicaBeginOrc  
replicaBindDn  
replicaBindMethod

### Description

Text description of the entry.  
Locality in which the entry resides.  
Organizational unit in which the entry resides.  
string representation of change numbers known to have been in transit  
Defines whether or not the supplier server should erase the contents of the consumer server before replication.  
DN used by the local server to bind to the consumer server.  
Method used by the local server to bind to the consumer. Currently this attribute must be set to simple.

Allowed Attributes	Description
replicaCFUpdated	Stores, locally, a copy of the last-known replayed replication changenumber. This fall-back is not available in DS 1.0 and 4.0, but not DS 3.x.
replicaCredentials	Password used by the local server to bind to the consumer.
replicaEntryFilter	Specifies which entries should be replicated or omitted in a filtered replication agreement.
replicaHost	Hostname of the consumer server.
replicaLastRelevantChange	Number of the last change in the changelog relevant to that particular replica
replicaNickName	Stores a freeform name for the replication agreement.
replicaPort	Port used by the consumer server for LDAP communications.
replicaRoot	Distinguished name representing the subtree on the local server that is to be supplied to the consumer server.
replicatedAttributeList	Specifies which attributes should be replicated or omitted in a selected attribute replication agreement.
replicaUpdateFailedAt	Time stamp when an update to the consumer server failed.
replicaUpdateReplayed	Change number of the last change supplied to the consumer server.
replicaUpdateSchedule	Schedule when the local server begins an update to the consumer server.
replicaUseSSL	Indicates whether SSL is to be used for communications with the consumer server.
seeAlso	URL to information relevant to the server.

# locality

## Supported by

LDAP

## Definition

Defines entries that represent localities or geographic areas.

## Superior Class

top

## OID

2.5.6.3

### Required Attributes

objectClass  
1 (localityName)

### Description

Defines the object classes for the entry.  
The entry's locality.

### Allowed Attributes

description  
searchGuide  
  
seeAlso  
st  
street

### Description

Text description of the locality.  
Specifies information for a suggested search criteria when using the entry as the base object in the directory tree for a search operation.  
URL to information relevant to the locality.  
State or province to which the locality belongs.  
Street address associated with the locality.

# **netscapeCertificateServer**

## **Supported by**

Netscape Certificate Server

Netscape Directory Server 1.0, 3.x, 4.0

## **Definition**

Object class used to store information about the Netscape Certificate Server in the directory.

## **Superior Class**

top

## **OID**

2.16.840.1.113730.3.2.1

### **Required Attribute**

objectClass

### **Description**

Defines the object classes for the entry.

# **netscapeDirectoryServer**

## **Supported by**

Netscape Directory Server 1.0, 3.x, 4.0.

## **Definition**

Stores information about the Netscape Directory Server in the directory.

## **Superior Class**

top

## **OID**

2.16.840.1.113730.3.2.2

### **Required Attribute**

objectClass

### **Description**

Defines the object classes for the entry.

## **netscapeMachineData**

### **Supported by**

Netscape Directory Server 1.0, 3.x, 4.0

### **Definition**

Used by the Netscape Directory Server to distinguish between machine data and non-machine data. Machine data is filtered out during replication.

### **Superior Class**

top

### **OID**

2.16.840.1.113730.3.2.32

# **netscapeMediaServer**

## **Supported by**

Netscape Media Server

Netscape Directory Server 1.0, 3.x, 4.0

## **Definition**

Stores information about the Netscape Media Server in the directory.

## **Superior Class**

top

## **OID**

2.16.840.1.113730.3.2.25

### **Required Attributes**

objectClass

### **Description**

Defines the object classes for the entry.

# **netscapeProxyServer**

## **Supported by**

Netscape Proxy Server 4.0

Netscape Directory Server 1.0, 3.x, 4.0

## **Definition**

Stores information about the Netscape Proxy Server in the directory.

## **Superior Class**

top

## **OID**

2.16.840.1.113730.3.2.28

### **Required Attribute**

objectClass

### **Description**

Defines the object classes for the entry.

# netscapeServer

## Supported by

Netscape Directory Server 3.x, 4.0

## Definition

Object class that identifies entries used by Netscape servers when they bind to the directory.

## Superior Class

top

## OID

2.16.840.1.113730.3.2.10

### Required Attributes

objectClass  
cn (commonName)

### Description

Defines the object classes for the entry.  
The common name of the server.

### Allowed Attributes

adminUrl  
administratorContactInfo  
description  
installationTimeStamp  
serverHostName  
serverProductName  
serverRoot  
serverVersionNumber  
userPassword

### Description

URL to the administration server under which the Netscape server is running.  
URL to information relevant to the person responsible for administering the Netscape server.  
Text description of the server.  
Time when the Netscape server was installed.  
Hostname on which the Netscape server is installed.  
Netscape server's product name.  
Path to the server's installation root.  
Netscape server's version number.  
Stores a password for the server.

# newPilotPerson

## Supported by

Netscape Directory Server 1.0, 3.x, 4.0.

## Definition

Used as a subclass of person, to allow the use of a number of additional attributes to be assigned to entries of the person object class. Inherits cn and sn from the person object class.

## Superior Class

person

## OID

0.9.2342.19200300.100.4.4

### Required Attributes

objectClass

### Description

Defines the object classes for the entry.

### Allowed Attributes

businessCategory

drink

homePhone

houseIdentifier

janetMailbox

mail

mailPreferenceOption

mobile

organizationalStatus

otherMailbox

### Description

Type of business this person is engaged in.

The person's favorite drink.

The person's home phone number.

The person's home address.

An email address for the person.

An email address for the person.

Indicates a preference for inclusion of the person's name on mailing lists (electronic or physical). Not valid in Messaging server 4.0.

The person's mobile phone number.

The person's type of employment (for example, full time).

Values for electronic mailbox types other than X.400 and rfc822.

Allowed Attributes	Description
pager	The person's pager number.
personalSignature	The person's signature file.
personalTitle	The person's personal title.
preferredDeliveryMethod	The person's preferred contact or delivery method.
roomNumber	Room number of the person.
secretary	Distinguished name of the person's secretary or administrative assistant.
textEncodedORAddress	Text-encoded Originator/Recipient (X.400) address of the person.
uid (userID)	Logon ID of the person.
userClass	Category of user.

## **nsIndex**

### **Supported by**

Netscape Directory Server 4.0

### **Definition**

Used internally by the Netscape Directory Server to create an index object for an attribute.

### **Superior Class**

top

### **OID**

2.16.840.1.113730.3.2.44

#### **Required Attributes**

objectClass  
cn (commonName)  
nsSystemIndex

#### **Description**

Defines the object classes for the entry.  
The name of the attribute for which this object has been created.  
Set to true if this is a system index.

#### **Allowed Attributes**

description  
nsIndexType  
nsMatchingRule

#### **Description**

A user-supplied description for the index.  
Used internally by the directory server  
Used internally by the directory server.

# nsLicenseUser

## Supported by

Netscape Directory Server 3.x, 4.0

## Definition

Used to track licenses for Netscape servers that are licensed on a per-client basis. nsLicenseUser is intended to be used with the inetOrgPerson object class. You can manage the contents of this object class through the Users and Groups area of the Netscape Administration Server.

## Superior Class

top

## OID

2.16.840.1.113730.3.2.7

### Required Attributes

objectClass

### Description

Defines the object classes for the entry.

### Allowed Attributes

nsLicensedFor

### Description

Netscape server that the user is licensed to use.

nsLicenseEndTime

Reserved for future use.

nsLicenseStartTime

Reserved for future use.

# nsslapdPlugin

## Supported by

Netscape Directory Server 4.0

## Definition

Represents a plug-in used by the Directory Server. Each plug-in listed in the Directory Server's slapd.conf file is turned into a plug-in entry at startup. At startup, each plug-in listed in slapd.conf and slapd.ldbm.conf is added under `cn=plugins, cn=config`.

## Superior Class

top

## OID

2.16.840.1.113730.3.2.41

### Required Attributes

objectClass  
nsslapdBackend  
nsslapdPluginDescription  
nsslapdPluginEnabled  
nsslapdPluginId  
nsslapdPluginInitFunc  
nsslapdPluginPath  
nsslapdPluginType  
nsslapdPluginVendor  
nsslapdPluginVersion

### Description

Defines the object classes for the entry.  
cn of database backend for a plug-in.  
Sort description of the plug-in.  
Determines whether the plug-in is on or off.  
The string used to identify the plug-in.  
The function called to initialize the plug-in.  
The full path to the plug-in.  
The type of plug-in.  
the plug-in vendor.  
The plug-in version number.

**Required Attributes**

objectClass  
nsslapdBackend  
nsslapdPluginDescription  
nsslapdPluginEnabled  
nsslapdPluginId  
nsslapdPluginInitFunc  
nsslapdPluginPath  
nsslapdPluginType  
nsslapdPluginVendor  
nsslapdPluginVersion

**Description**

Defines the object classes for the entry.  
cn of database backend for a plug-in.  
Sort description of the plug-in.  
Determines whether the plug-in is on or off.  
The string used to identify the plug-in.  
The function called to initialize the plug-in.  
The full path to the plug-in.  
The type of plug-in.  
the plug-in vendor.  
The plug-in version number.

# nsSNMP

## Supported by

Netscape Directory Server 4.0

## Definition

Contains SNMP information. The optional nsSNMPOrganization, nsSNMPLocation, nsSNMPContact, and nsSNMPDescription attributes specify information that is delivered to any SNMP client querying the directory SNMP agent.

## Superior Class

top

## OID

2.16.840.1.113730.3.2.43

### Required Attributes

objectClass  
cn (commonName)  
nsSNMPEnabled

### Description

Defines the object classes for the entry.  
The common name of the entry.  
Enables and disables the collection of SNMP statistics.

### Allowed Attributes

nsSNMPContact  
nsSNMPDescription  
nsSNMPLocation  
nsSNMPMasterHost  
nsSNMPMasterPort  
nsSNMPOrganization

### Description

Identifies a contact person.  
Describes the server.  
Identifies the location of the server.  
UNIX only: the host where the master agent is running.  
UNIX only: the port for the Directory subagent to use to communicate with the master agent.  
Identifies the organization.

# ntGroup

## Supported by

Netscape Directory Server 1.0, 3.x, 4.0

## Definition

Object class used by the NT synchronization service to map the attributes of an NT group to an entry in the directory.

## Superior Class

top

## OID

2.16.840.1.113730.3.2.9

### Required Attributes

objectClass  
ntGroupDomainId

### Description

Defines the object classes for the entry.  
Used by the NT synchronization service to store the NT Global Groupname/Domain.

### Allowed Attributes

description  
l (localityName)  
ntGroupAttributes  
ntGroupCreateNewGroup  
ntGroupDeleteGroup  
ntGroupId  
ntGroupType  
ou (organizationUnitName)  
seeAlso

### Description

Text description of the NT group.  
Locality in which the server resides.  
Used by the NT synchronization service to store attributes for an NT group.  
Reserved for use by the NT synchronization service.  
Reserved for use by the NT synchronization service.  
Used by the NT synchronization service to store the identifier for the group.  
the type of NT group  
Organizational unit to which the group belongs.  
URL to information relevant to the group.

# ntUser

## Supported by

Netscape Directory Server 1.0, 3.x, 4.0

## Definition

Defines entries that are to be synchronized between the directory server and a Windows NT network. The attributes defined by ntUser assist in NT Synchronization.

All ntUser attributes are read-only, except for ntUserCreateNewAccount, ntUserDomainId, and ntUserDeleteAccount. Any modifications made to read-only ntUser attributes will be deleted and the original values will be replaced when the next NT Synchronization occurs.

All ntUser attributes are read-only, except for ntUserCreateNewAccount, ntUserDomainId, and ntUserDeleteAccount. Any modifications made to read-only ntUser attributes will be deleted and the original values will be replaced when the next NT Synchronization occurs.

Several directory server attributes correspond directly to NT user account fields. When you create a new person entry in the directory server that is to be synchronized with NT, directory server attributes will be assigned to NT user account fields as shown in the directory server attribute table below.

## Superior Class

top

## OID

2.16.840.1.113730.3.2.8

Directory Server Attribute	NT User Account Field
cn (commonName) or commonName	full_name
description	comment
userid	name
userPassword	password

**Required Attributes**

objectClass

ntUserDomainId

**Description**

Defines the object classes for the entry.

Identifies the NT domain and user name.

**Allowed Attributes**

description

l (localityName)

ntUserAcctExpires

ntUserAuthFlags

ntUserBadPwCount

ntUserCodePage

ntUserComment

ntUserCountryCode

ntUserCreateNewAccount

ntUserDeleteAccount

ntUserFlags

ntUserHomeDir

ntUserHomeDirDrive

ntUserLastLogoff

ntUserLastLogon

ntUserLogonHours

ntUserLogonServer

ntUserMaxStorage

ntUserNumLogons

ntUserParms

ntUserPasswordExpired

ntUserPrimaryGroupId

ntUserPriv

ntUserProfile

**Description**

Text description of the user.

The user's locality.

Identifies when the user's NT account will expire.

The user's privileges on the NT network.

Number of times that a failed login attempt occurred in NT using the user's NT login ID.

The user's code page.

Description for the user's NT account.

The user's country code.

Identifies whether an NT account should be created when this entry is created in the directory server.

Identifies whether the user's NT account should be deleted when this entry is deleted from the directory server.

Identifies various NT account flags.

Path to the user's home directory.

Drive letter assigned to the user's home directory.

Time of the user's last logoff from NT.

Time of the user's last logon to NT.

Times when the user is allowed to log on to NT.

Server to which the user's NT logon requests are sent.

Maximum disk space available to the user under NT.

Number of successful logins to the user's NT account.

Unicode string reserved for use by applications.

Identifies if the user's NT password has expired.

The user's primary global group.

User's level of privilege on the Windows NT Network.

Path to the user's NT profile.

Allowed Attributes	Description
ntUserScriptPath	Path to the user's NT login script.
ntUserUniqueId	Identifies the user's NT RID.
ntUserUnitsPerWeek	Value used to compute the user's NTUserLogonHours.
ntUserUsrComment	Comments regarding the user's NT entry.
ntUserWorkstations	NT workstations from which the user is allowed to log into the NT domain.
ou (organizationUnitName)	The organizational unit to which the user belongs.
seeAlso	URL to information relevant to the user.

# organization

## Supported by

LDAP

## Definition

Defines entries that represent organizations. An organization is generally assumed to be a large, relatively static grouping within a larger corporation or enterprise.

## Superior Class

top

## OID

2.5.6.4

### Required Attributes

objectClass  
o (organizationName)

### Description

Defines the object classes for the entry.  
The name of the organization.

### Allowed Attributes

businessCategory  
description  
destinationIndicator  
fax (facsimileTelephoneNumber)  
internationalIsdnNumber  
l (localityName)  
physicalDeliveryOfficeName  
postalAddress  
postalCode

### Description

Business in which the organization is involved.  
Text description of the organization.  
country and city associated with the entry needed to provide Public Telegram Service  
Fax number associated with the organization.  
contains the ISDN number of the entry  
The organization's location.  
A location where physical deliveries can be made to the organization.  
The organization's mailing address.  
The organization's postal code (such as a United States zip code).

Allowed Attributes	Description
postOfficeBox	The organization's post office box.
preferredDeliveryMethod	The organization's preferred method of contact or delivery.
registeredAddress	postal address for receiving telegrams or expedited documents
searchGuide	Specifies information for suggested search criteria when using the entry as the base object in the directory tree for a search operation.
seeAlso	URL to information relevant to the organization.
st	State or province in which the organization resides.
street	Street address at which the organization is located.
telephoneNumber	Telephone number associated with the organization.
teletexTerminalIdentifier	Identifier for the teletex terminal of the organization.
telexNumber	Telex number of the organization.
userPassword	Password with which the entry can bind to the directory.
x121Address	X.121 address of the organization.

# organizationalPerson

## Supported by

Netscape Directory Server 3.x, 4.0

## Definition

Defines entries for people employed by or associated with an organization. cn and sn are inherited from the person object class.

## Superior Class

person

## OID

2.5.6.7

### Required Attributes

objectClass

### Description

Defines the object classes for the entry.

### Allowed Attributes

destinationIndicator

fax (facsimileTelephoneNumber)

internationalIsdnNumber

l (localityName)

ou (organizationUnitName)

physicalDeliveryOfficeName

postalAddress

postalCode

postOfficeBox

preferredDeliveryMethod

### Description

The country and city associated with the person needed to provide Public Telegram Service.

The person's fax number.

The person's ISDN number.

Location at which the person resides.

Organizational unit to which the person belongs.

Location where physical deliveries can be made to this person.

The person's mailing address.

The person's postal code (such as a United States zip code).

The person's post office box.

The person's preferred method of contact or delivery.

Allowed Attributes	Description
registeredAddress	Postal address suitable for reception of expedited documents, where the recipient must verify delivery.
st	State or province in which the person resides.
street	Street address at which the person is located.
teletexTerminalIdentifier	Identifier for the teletex terminal of the organization.
telexNumber	Telex number of the organization.
title	The person's job title.
x121Address	X.121 address of the organization.

# organizationalRole

## Supported by

Netscape Directory Server 3.x, 4.0

## Definition

Defines entries that represent roles held by people within an organization.

## Superior Class

top

## OID

2.5.6.8

### Required Attributes

objectClass  
cn (commonName)

### Description

Defines the object classes for the entry.  
The role's common name.

### Allowed Attributes

description  
destinationIndicator  
fax (facsimileTelephoneNumber)  
internationalIsdnNumber  
l (localityName)  
ou (organizationUnitName)  
physicalDeliveryOfficeName  
postalAddress  
postalCode  
postOfficeBox

### Description

Text description of the role.  
This attribute is used for telegram services to the person in this role.  
Fax number of the person in the role.  
ISDN number of the person in the role.  
Location in which the person in the role resides.  
Organizational unit to which the person in the role belongs.  
Location where physical deliveries can be made to the person in this role.  
Business mailing address for the person in this role.  
Business postal code (such as a United States zip code) for the person in this role.  
Business post office box for the person in this role.

Allowed Attributes	Description
preferredDeliveryMethod	Preferred method of contact or delivery of the person in this role.
registeredAddress	Postal address suitable for reception of expedited documents, where the recipient must verify delivery.
roleOccupant	Distinguished name of the person in this role.
seeAlso	URL to information relevant to the person in the role.
st	State or province in which the person in this role resides.
street	Street address at which the person in this role is located.
telephoneNumber	The person's telephone number.
teletexTerminalIdentifier	Identifier for the teletex terminal of the person in this role.
telexNumber	Telex number of the person in this role.
x121Address	X.121 address of the person in this role.

# organizationalUnit

## Supported by

LDAP

## Definition

Defines entries that represent organizational units. An organizational unit is generally assumed to be a relatively static grouping within a larger organization.

## Superior Class

top

## OID

2.5.6.5

### Required Attributes

objectClass  
ou (organizationUnitName)

### Description

Defines the object classes for the entry.  
The name of the organizational unit.

### Allowed Attributes

businessCategory  
description  
destinationIndicator  
fax (facsimileTelephoneNumber)  
internationalIsdnNumber  
l (localityName)  
physicalDeliveryOfficeName  
postalAddress  
postalCode

### Description

Business in which the organizational unit is involved.  
Text description of the organizational unit.  
The country and city associated with the organizational unit needed to provide Public Telegram Service.  
Fax number associated with the organizational unit.  
stores an ISDN number for the organizational unit.  
The organizational unit's location.  
Location where physical deliveries can be made to the organizational unit.  
The organizational unit's mailing address.  
The organizational unit's postal code (such as a United States zip code).

Allowed Attributes	Description
postOfficeBox	The organizational unit's post office box.
preferredDeliveryMethod	The organizational unit's preferred method of contact or delivery.
registeredAddress	Postal address suitable for reception of expedited documents, where the recipient must verify delivery.
searchGuide	Specifies information for suggested search criteria when using the entry as the base object in the directory tree for a search operation.
seeAlso	URL to information relevant to the organizational unit.
st	State or province in which the organizational unit resides.
street	Street address at which the organizational unit is located.
telephoneNumber	Telephone number associated with the organizational unit.
teletexTerminalIdentifier	Identifier for the teletex terminal of the organization.
telexNumber	Telex number of the organization.
userPassword	Password with which the entry can bind to the directory.
x121Address	X.121 address of the organization.

## person

### Supported by

LDAP

### Definition

Defines entries that generically represent people. This object class is the base class for the organizationalPerson object class.

### Superior Class

top

### OID

2.5.6.6

#### Required Attributes

objectClass  
cn (commonName)  
sn (surName)

#### Description

Defines the object classes for the entry.  
The person's common name.  
The person's surname, or last name.

#### Allowed Attributes

description  
seeAlso  
telephoneNumber  
userPassword

#### Description

Text description of the person.  
URL to information relevant to the person.  
The person's telephone number.  
Password with which the person can bind to the directory.

# passwordObject

## Supported by

Netscape Directory Server 3.x, 4.0

## Definition

Stores password information for a user in the directory.

## Superior Class

top

## OID

2.16.840.1.113730.3.2.12

### Required Attributes

objectClass

### Description

Defines the object classes for the entry.

### Allowed Attributes

accountUnlockTime

passwordExpirationTime

passwordExpWarned

passwordHistory

passwordRetryCount

retryCountResetTime

### Description

When the user account will be unlocked.

Date and time when the user's password expires.

Used by the directory server to keep track of password expiration warnings sent to a user.

Password history for a user.

Password failure count for a user.

Describes when the passwordRetryCount should be reset to zero (0).

# passwordPolicy

## Supported by

Netscape Directory Server 3.x, 4.0

## Definition

Stores the password policy for all users in the directory.

## Superior Class

top

## OID

2.16.840.1.113730.3.2.13

### Required Attributes

objectClass

### Description

Defines the object classes for the entry.

### Allowed Attributes

passwordChange

### Description

Release 4.0 functionality: setting allows or disallows user to modify password. Release 3.x functionality: settings include must, may, or cannot change passwords.

passwordCheckSyntax

Determines whether a syntax check is performed on user passwords.

passwordExp

Determines whether user passwords expire.

passwordInHistory

Defines how many passwords to keep in the history list.

passwordKeepHistory

Determines whether a history of user passwords should be saved.

passwordLockout

Determines whether users should be locked out after using an incorrect password a specified number of times.

passwordLockoutDuration

Specifies the period of time users should be locked out following a specified number of retries.

Allowed Attributes	Description
passwordMaxAge	Specifies the period of time passwords can be used before they expire.
passwordMaxFailure	Maximum number of retries allowed before a user is locked out.
passwordMinAge	Specifies the period of time a password must be in effect before a user can change it.
passwordMinLength	Specifies the minimum number of characters allowed in user passwords.
passwordMustChange	Specifies whether users must change their password following initial login or password reset.
passwordResetDuration	Specifies, in seconds, s the period of time that passes before the server resets the retry count to zero.
passwordResetFailureCount	Specifies the period of time that passes before the server resets the retry count to zero.
passwordStorageScheme	Specifies the type of encryption used to store directory server passwords.
passwordUnlock	Determines whether users should be locked out forever after a specified number of retries.
passwordWarning	Specifies when to send a password expiration warning to the user.

# pilotObject

Supported by

Netscape Directory Server 3.x, 4.0

## Definition

Object class used as a subclass to allow additional attributes to be assigned to entries of all other object classes. Reserved for future use.

## Superior Class

top

OID

0.9.2342.19200300.100.4.3

## Required Attributes

objectClass

## Description

Defines the object classes for the entry.

## Allowed Attributes

audio

dITRedirect

info

jpegPhoto

lastModifiedBy

lastModifiedTime

manager

photo

uniqueIdentifier

## Description

Sound file.

Distinguished name to use as a redirect for the entry.

Information about the object.

Photo in jpeg format.

Distinguished name of the last user to modify the object.

Last time the object was modified.

Distinguished name of the object's manager.

Photo of the object.

Specific item used to distinguish between two entries when a distinguished name has been reused.

# **pilotOrganization**

## **Supported by**

Netscape Directory Server 3.x, 4.0

## **Definition**

Object class used as a subclass to allow additional attributes to be assigned to organization and organizationalUnit object class entries. Reserved for future use.

## **Superior Class**

top

## **OID**

0.9.2342.19200300.100.4.20

### **Required Attributes**

objectClass  
o (organizationName)  
ou (organizationUnitName)

### **Description**

Defines the object classes for the entry.  
Organization to which the entry belongs.  
Organizational unit to which the entry belongs.

### **Allowed Attributes**

buildingName  
businessCategory  
description  
destinationIndicator  
fax (facsimileTelephoneNumber)  
internationalIsdnNumber  
l (localityName)  
physicalDeliveryOfficeName  
postOfficeBox

### **Description**

Name of the building in which the entry resides.  
Type of business this entry is engaged in.  
Text description of the entry.  
This attribute is used for telegram services to this entry.  
Fax number associated with the entry.  
ISDN number associated with the entry.  
Locality in which the entry resides.  
Location where physical deliveries can be made to this entry.  
Business post office box for the entry.

Allowed Attributes	Description
postalAddress	Business mailing address for the entry.
postalCode	Business postal code (such as a United States zip code) for the entry.
preferredDeliveryMethod	Preferred method of contact or delivery of the entry.
registeredAddress	Postal address suitable for reception of expedited documents, where the recipient must verify delivery.
searchGuide	Specifies information for suggested search criteria when using the entry as the base object in the directory tree for a search operation.
seeAlso	URL to information relevant to the entry.
st	State or province in which the entry resides.
street	Street address at which the entry is located.
telephoneNumber	Telephone number associated with the entry.
teletexTerminalIdentifier	Identifier for the teletex terminal of the entry.
telexNumber	Telex number of the entry.
userPassword	The entry's password and encryption method.
x121Address	X.121 address of the entry.

# referral

## Supported by

Netscape Directory Server 3.x, 4.0

## Definition

Allows smart referrals to be placed in an entry. The referral object class is a subclass of top and may contain the referral attribute. When an entry includes this object class and has a ref attribute, the server responds to requests involving the entry with a referral to the URL specified rather than with the contents of the entry. However, if the ManageDSAIT control is sent with a request, the entry contents are processed and no referral is returned.

For more information on ManageDSAIT, see section 7 of the the IETF working document, *Referrals and Knowledge References in LDAP Directories*

## Superior Class

top

## OID

2.16.840.1.113730.3.2.6

### Required Attributes

objectClass

### Description

Defines the object classes for the entry.

### Allowed Attributes

ref

### Description

LDAP URL in the format:

`ldap://servername:portnumber/dn`

# residentialPerson

## Supported by

Netscape Directory Server 1.0, 3.x, 4.0.

## Definition

Object class used by the directory server to contain a person's residential information.

## Superior Class

top

## OID

2.5.6.10

### Required Attributes

objectClass  
1 (localityName)

### Description

Defines the object classes for the entry.  
Locality in which the person resides.

### Allowed Attributes

businessCategory  
destinationIndicator  
fax (facsimileTelephoneNumber)  
internationalIsdnNumber  
physicalDeliveryOfficeName  
postalAddress  
postalCode  
postOfficeBox  
preferredDeliveryMethod  
registeredAddress

### Description

Business in which the person is involved.  
This attribute is used for telegram services to this person.  
Fax number for the person.  
ISDN number of the person.  
Location where physical deliveries can be made.  
Business mailing address for the person.  
Business postal code (such as a United States zip code) for the person.  
Business post office box for the person.  
Preferred method of contact or delivery of the person.  
Postal address suitable for reception of expedited documents, where the recipient must verify delivery.

<b>Allowed Attributes</b>	<b>Description</b>
st	State or province in which the person resides.
street	Street address at which the person is located.
teletexTerminalIdentifier	Identifier for the teletex terminal of the person.
telexNumber	Telex number of the person.
x121Address	X.121 address of the person.

# RFC822LocalPart

## Supported by

Netscape Directory Server 3.x, 4.0

## Definition

Object class used to define entries that represent the local part of RFC822 mail addresses. The directory treats this part of an RFC822 address as a domain. Reserved for use by the directory server.

## Superior Class

domain

## OID

0.9.2342.19200300.100.4.14

### Required Attributes

objectClass

### Description

Defines the object classes for the entry.

### Attribute

cn (commonName)

sn (surName)

### Description

Common name of the room.

Surname of the entry.

## **room**

### **Supported by**

Netscape Directory Server 3.x, 4.0

### **Definition**

Object class used to store information about a room in the directory.

### **Superior Class**

top

### **OID**

0.9.2342.19200300.100.4.7

#### **Required Attributes**

objectClass  
cn (commonName)

#### **Description**

Defines the object classes for the entry.  
Common name of the room.

#### **Attribute**

description  
roomNumber  
seeAlso  
telephoneNumber

#### **Description**

Text description of the room.  
The room's number.  
URL to information relevant to the room.  
The room's telephone number.

# **strongAuthenticationUser**

## **Supported by**

Netscape Directory Server 3.x, 4.0

## **Definition**

Object class used to store a user's certificate entry in the directory.

## **Superior Class**

top

## **OID**

2.5.6.15

### **Required Attributes**

objectClass  
userCertificate

### **Description**

Defines the object classes for the entry.  
the user's certificate, usually in binary form.

# simpleSecurityObject

## Supported by

Netscape Directory Server 3.x, 4.0

## Definition

Object class used to allow an entry to contain the userPassword attribute when an entry's principal object classes do not allow userPassword as an attribute type. Reserved for future use.

## Superior Class

top

## OID

0.9.2342.19200300.100.4.19

### Required Attributes

objectClass  
userPassword

### Description

Defines the object classes for the entry.  
The entry's password and encryption method.

## subschema

### Supported by

Directory Server 3.x, 4.0

### Definition

Object class that stores all the attributes and object classes for a given directory server (whereas, `attributeTypes` is used to store all attributes known to the server and `objectClasses` is used to store all object classes known to the server).

Directory server 4.0 has one subschema entry, `cn=schema`. This subschema entry can be modified to add and remove schema dynamically.

### Superior Class

top

### OID

2.5.20.1

#### Required Attributes

`objectClass`

#### Description

Defines the object classes for the entry.

#### Allowed Attributes

`attributeTypes`

`cn (commonName)`

`dITContentRules`

`dITStructureRules`

#### Description

Attribute types used within a subschema.

Common name of the object class. For the Netscape Directory Server, this value is always `cn=schema`.

Defines directory tree content rules used within a subschema.

Defines directory tree structure rules used in a subschema.

**Allowed Attributes**

matchingRuleUse

matchingRules

nameForms

objectClasses

**Description**

Identifies the attribute types to which a matching rule applies in a subschema.

Defines matching rules used in a subschema.

Defines the name forms used in a subschema.

Defines the object classes used in a subschema.

## top

### Supported by

LDAP

### Definition

Object class used as a superclass for all other object classes in the directory. Reserved for use by the directory server.

### Superior Class

top

### OID

2.5.6.0

#### Required Attributes

objectClass

#### Description

Defines the object classes for the entry.

#### Allowed Attributes

aci

#### Description

Stores the directory server access control information for this entry.

## **vlvIndex**

### **Supported by**

Netscape Directory Server 3.x, 4.0

### **Definition**

Used to define the sort criteria of a Virtual List View index. Each VLV index specification defines the sort order to be imposed on the result set defined in the VLV search entry. A set of VLV index entries may appear below the VLV search entry. The cn attribute is used as the naming component for the entry.

### **Superior Class**

top

### **OID**

2.16.840.1.113730.3.2.42

#### **Required Attributes**

objectClass  
cn (commonName)  
vlvSort

#### **Description**

Defines the object classes for the entry.  
Naming component for the entry.  
Defines the sort specification for a search.

#### **Allowed Attributes**

vlvEnabled  
vlvUses

#### **Description**

Signals whether the index is available or unavailable.  
Identifies the number of times the index has been used.

# vlvSearch

## Supported by

Netscape Directory Server 3.x, 4.0

## Definition

Used to define a Virtual List View search. The VLV search exists as an entry below the suffix cn=config, cn=ldbm and specifies the entry result set to be VLV indexed. The cn attribute is used as the naming component for the entry

A list of the VLV search specification DNs appear in the rootdse in the vlvsearches multi-valued attribute. Clients searching this list can use the list of DNs to retrieve all available VLV searches.

## Superior Class

top

## OID

2.16.840.1.113730.3.2.38

### Required Attributes

objectClass  
cn (commonName)

vlvBase  
vlvFilter  
vlvScope

### Description

Defines the object classes for the entry.  
Friendly name of the vlv search assigned by the system administrator at creation time and used as the naming component.  
Defines the base dn of the search.  
Specifies the search filter  
Defines the search scope.

### Allowed Attributes

multiLineDescription

### Description

Provides descriptive text for the entry.

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# **netscapeWebServer**

## **Supported by**

Netscape Enterprise Server

Netscape Directory Server 1.0, 3.x, 4.0

## **Definition**

Stores information about a Netscape HTTP server in the directory.

## **Superior Class**

top

## **OID**

2.16.840.1.113730.3.2.29

### **Required Attribute**

objectClass

### **Description**

Defines the object classes for the entry.

### **Required Attribute**

nsServerPort

### **Description**

port number of the server.

# netshareAccount

## Supported by

Netscape Enterprise Server

Netscape Directory Server 3.x, 4.0

## Definition

Added to user or group projects to enable the account as a Netshare user account or Netshare project. store information about a Netscape HTTP server in the directory.

## Superior Class

top

## OID

Not assigned

### Required Attributes

objectClass

netshareHomeURL

### Description

Defines the object classes for the entry.

### Allowed Attributes

netshareHomeTheme

netshareMemberOf

netsharePrivate

netshareServerType

netshareUIConfig

### Description

d

# netshareProjectManagementGlobalConfig

## Supported by

Netscape Enterprise Server

Netscape Directory Server 3.x, 4.0

## Definition

Used by Netshare to determine whether users can create and maintain Netshare projects.

## Superior Class

top

## OID

Not assigned

### Required Attributes

objectClass

### Description

Defines the object classes for the entry.

### Allowed Attributes

cn (commonName)

netsharePMNewProjParent

netsharePMSearchBase

netsharePMProjCreationUser

netsharePMAAdmin

### Description

dn, single

dn, single

dn, single

dn, single

## **nse4n**

### **Supported by**

Netscape Enterprise Server

Netscape Directory Server 4.0

### **Definition**

Identifies the hierarchically-named containment tree of nodes, each node containing attributes, the contents of which are self-typing data blobs (CORBA Any's). This schema is used to back-end this abstractio

### **Superior Class**

top

### **OID**

Not assigned

#### **Required Attribute**

objectClass

#### **Description**

Defines the object classes for the entry.

#### **Allowed Attribute**

nse4an

#### **Description**

The name of the attribute.

## **nres4a**

### **Supported by**

Netscape Enterprise Server

Netscape Directory Server 3.x, 4.0

### **Definition**

Identifies the attribute entry

### **Superior Class**

top

### **OID**

Not assigned

### **Required Attributes**

objectClass

nres4an

### **Description**

Defines the object classes for the entry.

Name of the attribute.

### **Allowed Attributes**

nres4av

### **Description**

An opaque binary data blob (a marshalled CORBA Any).



# Network Information Server (NIS) Object Classes (RFC 2307)

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## **automount**

### **Supported by**

Netscape Directory Server 4.0

### **Definition**

Reserved

### **Superior class**

top

### **OID**

1.3.6.1.1.1.2.9

#### **Required Attributes**

objectClass

#### **Description**

Specifies the objects for this object class.

#### **Allowed Attributes**

description

#### **Description**

A brief description of the entry.

# bootableDevice

## Supported by

Netscape Directory Server 4.0

## Definition

Reserved

## Superior class

device

## OID

1.3.6.1.1.1.2.1

### Required Attributes

objectClass  
cn (commonName)

### Description

Specifies the objects for this object class.  
Common name of the device.

### Allowed Attributes

bootFile  
bootParameter  
description  
l (localityName)  
o (organizationName)  
ou (organizationUnitName)  
owner  
seeAlso  
serialNumber

### Description

## **ieee802Device**

### **Supported by**

Netscape Directory Server 4.0

### **Definition**

A device with a MAC address; device should be used as a structural class

### **Superior class**

top

### **OID**

1.3.6.1.1.1.2.11

#### **Required Attributes**

objectClass

#### **Description**

Specifies the objects for this object class.

#### **Allowed Attributes**

macAddress

#### **Description**

# ipHost

## Supported by

Netscape Directory Server 4.0

## Definition

Abstraction of a host, an IP device. The distinguished value of the cn attribute denotes the host's canonical name. Device should be used as a structural class

## Superior class

device

## OID

1.3.6.1.1.1.2.6

### Required Attributes

objectClass  
cn (commonName)  
ipHostNumber

### Description

Specifies the objects for this object class.  
Common name of the IP host.

### Allowed Attributes

description  
l (localityName)  
manager

### Description

Text description of the IP host device.  
Name of the locality.  
Distinguished name of the entry's manager.

# ipNetwork

## Supported by

Netscape Directory Server 4.0

## Definition

Abstraction of a network. The distinguished value of the cn attribute denotes the network's canonical name.

## Superior class

top

## OID

1.3.6.1.1.1.2.7

### Required Attributes

objectClass  
cn (commonName)  
ipNetworkNumber

### Description

Specifies the objects for this object class.  
Common name of the IP network.

### Allowed Attributes

description  
manager  
ipNetmaskNumber  
l (localityName)

### Description

Text description of the network.  
Distinguished name of the entry's manager.

# ipProtocol

## Supported by

Netscape Directory Server 4.0

## Definition

Abstraction of an IP protocol. Maps a protocol number to one or more names. The distinguished value of the cn attribute denotes the protocol's canonical name.

## Superior class

top

## OID

1.3.6.1.1.1.2.4

### Required Attributes

objectClass  
cn (commonName)  
ipProtocolNumber

### Description

Specifies the objects for this object class.  
Common name of the IP protocol.

### Allowed Attributes

description

### Description

Text description of the protocol.

# ipService

## Supported by

Netscape Directory Server 4.0

## Definition

Abstraction an Internet Protocol service. Maps an IP port and protocol (such as tcp or udp) to one or more names; the distinguished value of the cn attribute denotes the service's canonical name.

## Superior class

top

## OID

1.3.6.1.1.1.2.3

### Required Attributes

objectClass  
cn (commonName)  
ipServiceProtocol  
ipServiceProtocol

### Description

Specifies the objects for this object class.  
Common nameof the service.

### Allowed Attributes

description

### Description

Text description of the service.

# nisNetgroup

## Supported by

Netscape Directory Server 4.0

## Definition

Abstraction of a netgroup. May refer to other netgroups.

## Superior class

top

## OID

1.3.6.1.1.1.2.8

### Required Attributes

objectClass  
cn (commonName)

### Description

Specifies the objects for this object class.  
Common name of the netgroup.

### Allowed Attributes

description  
memberNisNetgroup  
nsAccessLog

### Description

Text description of the netgroup.

## **nisMap**

### **Supported by**

Netscape Directory Server 4.0

### **Definition**

A generic abstraction of a NIS map.

### **Superior class**

top

### **OID**

1.3.6.1.1.1.2.13

#### **Required Attributes**

objectClass  
nisMapName

#### **Description**

Specifies the objects for this object class.

#### **Allowed Attributes**

description

#### **Description**

Text description of the map.

## **nisObject**

### **Supported by**

Netscape Directory Server 4.0

### **Definition**

An entry in a NIS map

### **Superior class**

top

### **OID**

1.3.6.1.1.1.2.10

#### **Required Attributes**

objectClass  
cn (commonName)  
nisMapEntry  
nisMapName

#### **Description**

Specifies the objects for this object class.  
Common name of the object.

#### **Allowed Attributes**

description

#### **Description**

Text description of the object.

# oncRpc

## Supported by

Netscape Directory Server 4.0

## Definition

Abstraction of an Open Network Computing (ONC) [RFC1057] Remote Procedure Call (RPC) binding. This class maps an ONC RPC number to a name. The distinguished value of the cn attribute denotes the RPC service's canonical name.

## Superior class

top

## OID

1.3.6.1.1.1.2.5

### Required Attributes

objectClass  
cn (commonName)  
oncRpcNumber

### Description

Specifies the objects for this object class.  
Common name of the RPC service.

### Allowed Attributes

description

### Description

Text description of the service.

# posixAccount

## Supported by

Netscape Directory Server 4.0

## Definition

Abstraction of an account with POSIX attributes

## Superior class

top

## OID

1.3.6.1.1.1.2.0

### Required Attributes

objectClass  
cn (commonName)  
gidNumber  
homePhone  
uid (userID)  
uidNumber

### Description

Specifies the objects for this object class.  
Common name of the POSIX account.  
  
Entry's user ID.

### Allowed Attributes

description  
gecos  
loginShell  
userPassword

### Description

Entry's password and encryption method.

# posixGroup

## Supported by

Netscape Directory Server 4.0

## Definition

Abstraction of a group of accounts

## Superior class

top

## OID

1.3.6.1.1.1.2.2

### Required Attributes

objectClass  
cn (commonName)  
gidNumber

### Description

Specifies the objects for this object class.  
Common name of the POSIX group.

### Allowed Attributes

description  
memberUid  
userPassword

### Description

Text description of the group.  
Entry's password and encryption method.

# shadowAccount

## Supported by

Netscape Directory Server 4.0

## Definition

Additional attributes for shadow passwords.

## Superior class

top

## OID

1.3.6.1.1.1.2.1

### Required Attributes

objectClass  
uid (userID)

### Description

Specifies the objects for this object class.  
Entry's user ID.

### Allowed Attributes

description  
shadowExpire  
shadowFlag  
shadowInactive  
shadowLastChange  
shadowMax  
shadowMin  
shadowWarning  
userPassword

### Description

Entry's password and encryption method.

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## **nsLiPtr**

### **Supported by**

Netscape Mission Control Desktop

Netscape Directory Server 4.0

### **Definition**

### **Superior Class**

top

### **OID**

2.16.840.1.113730.3.2.74

#### **Required Attributes**

objectClass

#### **Description**

Specifies the objects for this object class.

#### **Allowed Attributes**

aci

nsLiPtrURL

owner

#### **Description**

## nsLiProfile

### Supported by

Netscape Mission Control Desktop

Netscape Directory Server 4.0

### Definition

### Superior Class

top

### OID

2.16.840.1.113730.3.2.75

#### Required Attributes

objectClass

nsLiProfileName

#### Description

Specifies the objects for this object class.

#### Allowed Attributes

aci

nsLIPrefs

owner

uid (userID)

#### Description

# nsLiProfileElement

## Supported by

Netscape Mission Control Desktop

Netscape Directory Server 4.0

## Definition

## Superior Class

top

## OID

2.16.840.1.113730.3.2.76

### Required Attributes

objectClass  
nsLiElementType

### Description

Specifies the objects for this object class.

### Allowed Attributes

aci  
owner  
nsLIData

### Description

# nsLiServer

## Supported by

Netscape Mission Control Desktop

Netscape Directory Server 4.0

## Definition

## Superior Class

top

## OID

2.16.840.1.113730.3.2.77

### Required Attributes

objectClass  
serverHostName

### Description

Specifies the objects for this object class.

### Allowed Attributes

aci  
cn (commonName)  
description  
nsLiServerType  
nsServerPort  
serverRoot

### Description

# nsMailClient

## Supported by

Netscape Mission Control Desktop

Netscape Directory Server 4.0

## Definition

## Superior Class

top

## OID

### Required Attributes

objectClass

### Description

Specifies the objects for this object class.

### Allowed Attributes

nsMCAddrBookLastnameFirst  
nsMCAllowAtSignInUserName  
nsMCAltMailDll  
nsMCAutoCompleteEnabledServer  
Name  
nsMCAutoCompleteShowDlgForM  
ultipleMatches  
nsMCAutoCompleteUseDirectory  
nsMCAutoCompleteUseDirectory  
nsMCAutoQuote  
nsMCCitationColor  
nsMCConfirmMoveFoldersToTras  
h  
nsMCCryptoSignOutgoingMail

### Description

Allowed Attributes	Description
nsMCCryptoSignOutgoingNews	
nsMCDefaultHTMLAction	
nsMCEncryptOutgoingMail	
nsMCFixedWidthMessages	
nsMCForwardMessageMode	
nsMCImapAutoSubscribeOnOpen	
nsMCImapMimePartsOnDemand	
nsMCImapMimePartsOnDemandThreshhold	
nsMCImapServer	
nsMCImapServerProperties	
nsMCIncorporateReturnReceipt	
nsMCLdapServer	
nsMCLdapServerProperties	
nsMCLimitMessageSize	
nsMCMaxMessageSize	
nsMCMDNReportEnabled	
nsMCMDNReportNotInToCC	
nsMCMDNReportOther	
nsMCMDNReportOutsideDomain	
nsMCNavCrossesFolders	
nsMCNewsKeepCount	
nsMCNewsKeepDays	
nsMCNewsKeepMethod	
nsMCNewsKeepOnlyUnread	
nsMCNewsRemoveBodiesByAge	
nsMCNewsRemoveBodiesDays	
nsMCPlaySound	
nsMCPlaySound	
nsMCPop3GetsNewMail	
nsMCPopServer	
nsMCPopServerProperties	

Allowed Attributes	Description
nsMCPromptPurgeThreshold	
nsMCPurgeThreshold	
nsMCQuotedSize	
nsMCQuotedStyle	
nsMCReceiptRequestHeaderType	
nsMCRememberSelectedMessage	
nsMCReplyOnTop	
nsMCRequestReturnReceipt	
nsMCReuseMessageWindow	
nsMCSearchServer	
nsMCSearchSubFolders	
nsMCSkipDirectoryIfLocalMatchFound	
nsMCSmtpServer	
nsMCSmtpUserName	
nsMCSmtpUseSSL	
nsMCSpellCheckBeforeSend	
nsMCStrictlyMime	
nsMCUseAltMail	
nsMCUseAltMailForNews	
nsMCUseMapiServer	
nsMCWarnReplyUnencrypted	
nsMCWrapLength	
nsMCWrapLongLines	

# nsPreferenceMap

## Supported by

Netscape Mission Control Desktop

Netscape Directory Server 4.0

## Definition

## Superior Class

top

## OID

### Required Attributes

objectClass

### Description

Specifes the objects for this object class.

### Allowed Attributes

### Description

# Messaging Server Object Classes

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nsmsgCfgScript .....	297
nsmsgCfgService .....	298
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nsmsgCfgStore .....	301
nsmsgCfgUser .....	302

# groupOfMailEnhancedUniqueNames

## Supported by

Netscape Messaging Server 4.0

## Definition

Netscape extension used by the Messaging Server to store information about a mail group. This object class is a Netscape extension to the standard LDAP schema. Reserved for future use.

## Superior Class

top

## OID

2.16.840.1.113730.3.2.5

### Required Attributes

objectClass  
cn (commonName)

### Description

Reserved.  
The group's common name.

### Allowed Attributes

businessCategory  
description  
mailEnhancedUniqueMember  
o (organizationName)  
ou (organizationUnitName)  
owner  
seeAlso

### Description

Business in which the mail group is involved.  
Text description of the group.  
Reserved for future use.  
Organization to which the group belongs.  
Organizational unit to which the group belongs.  
The group's owner.  
URL to information relevant to the group

# mailGroup

## Supported by

Netscape Messaging Server 3.x, 4.0

Netscape Directory Server 1.0, 3.x, 4.0

## Definition

Object class used as an enhancement to groupOfUniqueNames to define a group of mail recipients. mailGroup is used to store Messaging Server mailing lists. This object class is a Netscape extension to the LDAP schema.

## Superior Class

top

## OID

2.16.840.1.113730.3.2.4

Required Attributes	Description
objectClass	Reserved.
mail	The group's electronic mailing address.

  

Allowed AttributeS	Description
cn (commonName)	The group's common name.
mailAlternateAddress	Alternate mail address for the group.
mailHost	Host on which the group's mail account resides.
mgrpAddHeader	Headers to add to mailGroup messages
mgrpAllowedBroadcaster	URL identifying a mail user that is allowed to send mail to the mail group.
mgrpAllowedDomain	Domain from which users can send mail to the mail group.
mgrpApprovePassword	When set, any message to the list requires "approved:(passwd)" in heading or on first line.
mgrpBroadcasterPolicy	Policy for determining allowedBroadcaster.

Allowed AttributeS	Description
mgrpDeliverException	DNs excluded from delivery to dynamic mail groups.
mgrpDeliverTo	Alternative method of identifying members of the mail group using LDAP search criteria.
mgrpErrorsTo	Mailing address to which mail delivery error messages are sent.
mgrpModerator	Mailing address to which rejected mail messages are sent.
mgrpMsgMaxSize	Maximum message size that can be sent to the mail group.
mgrpMsgRejectAction	Specifies the action to be taken in the event that mail sent to the mail group is rejected.
mgrpMsgRejectText	Text to be sent in the event that mail sent to the mail group is rejected.
mgrpNoDuplicateChecks	Prevents Messaging Server from checking for duplicate delivery of a message to members of the mailgroup.
mgrpRemoveHeader	Headers to remove from header of mailGroup messages
mgrpRFC822MailMember	Members of the mail group that aren't in this directory (specified by mail address rather than DN).
owner	Distinguished name of the mail group's owner.

# mailGroupManagement

Supported by

Netscape Directory Server 4.0

Netscape Messaging Server 4.0

## Definition

### Superior Class

top

OID

NA

### Required Attributes

objectClass

### Description

Specifies the object classes of the object.

### Allowed Attributes

description

labeledURL

mgmanAllowSubscribe

mgmanDenySubscribe

mgmanGConfGroupDomains

mgmanGConfSortAttributeDirMember

mgmanGConfSortAttributeGroupMember

mgmanGroupKey

mgmanGroupStat

mgmanHidden

### Description

One-line description of the mailing list.

Points to additional source of mail list information

Specifies individuals or domains allowed to subscribe to this mail group.

Specifies individuals or domains not allowed to subscribe to this mail group.

Domains used to restrict the domain portion of a mailing list email address.

Attributes used for sorting directory members.

Attributes for sorting groups.

Defines keys used for sorting groups.

Defines a place to store group statistics.

Determines whether group appears in list requests.

Allowed Attributes	Description
mgmanIntroText	Message sent to new group memers.
mgmanJoinLocalType	List of keywords.
mgmanJoinability	A list of LDAP URLs specifying who is allowed to join the group.
mgmanMemberVisibility	Describes who has rights to see membership list for this mail group.
multiLineDescription	Multi-line description of mailing list.
userCertificate	x.509 certificate associated with the group object.
userPassword	Password required for group administration tasks.

# mailGroupManagement\_GlobalConfig

Supported by

Netscape Messaging Server 4.0

Netscape Directory Server 3.x, 4.0

## Definition

Internal object class for configuration of Mail List Manager. Reserved for future use by Netscape Messaging Server.

## Superior Class

top

OID

NA

## Required Attributes

objectClass

## Description

Specifies the object classes of the object.

## Allowed Attributes

cn (commonName)

mgmanGConfAdmin

mgmanGConfDefaultInheritance

mgmanGConfGroupCreationUser

mgmanGConfGroupTemplate

mgmanGConfKey

mgmanGConfNewGroupParent

mgmanGConfRemoteUserParent

mgmanGConfSearchAttribute

mgmanGConfSearchBase

mgmanGConfSearchGroupUser

## Description

The object's common name.

List of unrestricted MLM users.

List of attributes to inherit from the template group

Users allowed to create mail groups with MLM.

DN of a group to use as a new group template.

Keys allowed for sorting groups.

Default DN for new creating new mail groups.

Default DN for non-local mail group members.

List of attributes displayed in search creation tool for MLM.

Base DN in searches.

DNs of users or groups allowed to modify content of mgrpDeliverTo attributes.

<b>Allowed Attributes</b>	<b>Description</b>
mgmanGConfSearchRelationship	Relationships displayed in MLM search creation tool.
mgmanGConfSearchTreeNode	LDAP elements used in displaying tree branch nodes for MLM search creation tool.
mgmanGConfSortAttributeDirMember	attributes for sorting directory members in the MLM CGI List
mgmanGConfSortAttributeGroupMember	attributes for sorting group members in the MLM CGI List

# mailGroupMember

## Supported by

Netscape Messaging Server 3.x, 4.0

Netscape Directory Server 3.x, 4.0

## Definition

Used to represent a member of a mailGroup class object.

This object class is suitable for use as a mix-in class for users and groups already in the local LDAP database, or as a standalone class to represent non-local users who are members of a mail group. Reserved for future use by Netscape Messaging Server.

## Superior Class

top

OID

## Required Attributes

objectClass

mail

## Description

Specifies the object classes of the object.

The RFC 822 e-mail address of the group member. For local users, this is expected to overlap the mail attribute for the mailRecipient object class. For remote users, this will indicate their email address.

## Allowed Attributes

c (countryName)

cn (commonName)

givenName

mgmemAlternateSenderAddress

mgmemGroupMemberParam

mgmemGroupServerParam

## Description

Holds country name of a user.

The object's common name.

The object's given name.

Stores a list of addresses equivalent to address in the mail attribute.

Provides a place to store email group subscription options per user, and per group.

Intended to store per-user, per-group parameters.

Allowed Attributes	Description
mgmemMailUserPassword	Secured user password for mail list functions.
mgmemMemberOfGroup	stores a listing of mail groups of which the object is a member.
mgmemRefDN	LDAP URL specifying the home LDAP entry for remote users--informational only.
preferredLanguagee	Preferred language of the group member.
sn (surName)	The object's surname.
userCertificate	Stores users X.509 certificate.

# mailRecipient

## Supported by

Netscape Messaging Server 3.x, 4.0

Netscape Directory Server 3.x, 4.0

## Definition

Used as an enhancement to inetOrgPerson to define a Netscape Messaging Server user. mailRecipient represents a mail account.

## Superior Class

top

## OID

2.16.840.1.113730.3.2.3

### Required Attributes

objectClass

### Description

Specifies the object classes of the object.

### Allowed Attributes

cn (commonName)

mail

mailAccessDomain

mailAlternateAddress

mailAutoReplyMode

mailAutoReplyText

mailDeliveryOption

### Description

The user's common name.

The user's primary mailing address.

Domain from which the mail user can log in to obtain mail. (available in 3.x only; moved to nsMessagingServerUser for release 4.0)

Alternate mail addresses for the user..

Auto reply mode set for the mail user. (available in 3.x only; moved to nsMessagingServerUser for release 4.0)

Auto-reply text. (available in 3.x only; moved to nsMessagingServerUser for release 4.0)

Mail delivery mechanism to be used for the mail user. (available in 3.x only; moved to nsMessagingServerUser for release 4.0)

Allowed Attributes	Description
mailForwardingAddress	Mail address to which the user's mail should be forwarded. (available in 3.x only; moved to nsMessagingServerUser for release 4.0)
mailHost	Host on which the user's mail account resides.
mailMessageStore	Path to the directory containing the user's mail box. (available in 3.x only; moved to nsMessagingServerUser for release 4.0)
mailProgramDeliveryInfo	Commands used for programmed mail delivery. (available in 3.x only; moved to nsMessagingServerUser for release 4.0)
mailQuota	Disk space allowed for the user's mail box. (available in 3.x only; moved to nsMessagingServerUser for release 4.0)
mailRoutingAddress	Contains a routing address to use when forwarding this recipient to another mail server.

# netscapeMessagingServer

## Supported by

Netscape Messaging Server 3.x, 4.0

Netscape Directory Server 3.x

## Definition

Stores information about the Netscape Messaging Server in the directory. Used to designate mail servers in the directory. Provides a password for authenticated SMTP login between servers. Replaced netscapeMailServer object class.

## Superior Class

top

## OID

Required Attribute	Description
objectClass	Reserved.

# nsMessagingServerUser

## Supported by

Netscape Messaging Server 4.0

Netscape Directory Server 3.x, 4.0

## Definition

Used as an enhancement to inetOrgPerson to define a Netscape Messaging Server user (mailRecipient is used to specify a user's mail account information).

## Superior Class

top

## OID

### Required Attributes

objectClass

### Description

Specifies the object classes of the object.

### Allowed Attributes

mailAccessDomain

mailAutoReplyMode

mailAutoReplyText

mailDeliveryOption

mailForwardingAddress

mailMessageStore

mailProgramDeliveryInfo

mailQuota

### Description

Domain from which the mail user can log in to obtain mail.

Auto reply mode set for the mail user.

Auto-reply text.

Mail delivery mechanism to be used for the mail user.

Mail address to which the user's mail should be forwarded.

Path to the directory containing the user's mail box (used in 3.x with mailRecipient; moved to nsMessagingServerUser for release 4.0).

Commands used for programmed mail delivery.

Disk space allowed for the user's mail box. )

Allowed Attributes	Description
nsmgDisallowAccess	Limits the mail protocols available to the user. Available in release 4.1.
nswmExtendedUserPrefs	User preferences for Netscape Messenger Express.
vacationEndDate	The end of timed vacation messages. Available in release 4.1.
vacationStartDate	The start date of timed vacation messages. Available in release 4.1.

# **nsmMsgCfgAlarm**

## **Supported by**

Netscape Messaging Server 4.0

Netscape Directory Server 3.x, 4.0

## **Definition**

Used to define a specific alarm configuration.

## **Superior Class**

top

## **OID**

### **Required Attributes**

objectClass  
cn (commonName)

### **Description**

the object classes of the object  
common name of the alarm configuration

### **Allowed Attributes**

nsmMsgAlarmDescription  
nsmMsgAlarmStatInterval  
nsmMsgAlarmThreshold  
nsmMsgAlarmWarningInterval

### **Description**

alarm description  
the alarm collection interval  
the alarm threshold  
interval to send repeated warning

# **nsmmsgCfgAlarmContainer**

## **Supported by**

Netscape Messaging Server 4.0

Netscape Directory Server 3.x, 4.0

## **Definition**

Used to define common alarm configuration.

## **Superior Class**

top

## **OID**

### **Required Attributes**

objectClass  
cn (commonName)

### **Description**

the object classes of the object  
comon name of the comon alarm configuration

### **Allowed Attributes**

nsmmsgMsgAlarmNoticeHost  
nsmmsgMsgAlarmNoticePort  
nsmmsgMsgAlarmNoticeRcpt  
nsmmsgMsgAlarmNoticeSender  
nsmmsgMsgAlarmNoticeTemplate

### **Description**

SMTP host to send warning to  
SMTP port to send warning to  
recipient of warning notice  
warning sender  
warning notice template

# **nsmmsgCfgAlias**

## **Supported by**

Netscape Messaging Server 4.0

Netscape Directory Server 3.x, 4.0

## **Definition**

Reserved for internal use. Used to define layout entry (in the resource tree) for the log file. Refer to entry under logfile.<logname>.

For example, there are many object class entries under cn=logfiles of type nsmmsgCfgAlias. These entries dictate the content or resource tree in the Messaging console. These entries use the nsmmsgAlias attribute to point to objects that contain logfile configuration. In this respect, nsmmsgCfgAlias acts like a symbolic link.

## **Superior Class**

top

## **OID**

### **Required Attributes**

objectClass  
cn (commonName)

### **Description**

the object classes of the object  
common name of the alias configuration

### **Allowed Attributes**

nsmmsgAlias

### **Description**

defines the logname

# **nsmmsgCfgContainer**

## **Supported by**

Netscape Messaging Server 4.0

Netscape Directory Server 3.x, 4.0

## **Definition**

Reserved for internal use.

Used to configure a server as a container node, a node in a configuration namespace. A container node is used to contain one or more object classes.

For example:

*cn=primary, cn=partition, cn=store*

## **Superior Class**

top

## **OID**

### **Required Attribute**

objectClass

cn (commonName)

### **Description**

the object classes of the object

common name of the container node configuration

# **nsmsgCfgExpireRule**

## **Supported by**

Netscape Messaging Server 4.0

Netscape Directory Server 3.x, 4.0

## **Definition**

Used to define expiration rules for the Messaging Server.

## **Superior Class**

top

## **OID**

### **Required Attributes**

objectClass  
cn (commonName)

### **Description**

the object classes of the object  
common name of the expiration rules

### **Allowed Attributes**

nsmsgFolders  
nsmsgFolderSizeBytes  
nsmsgMessageCount  
nsmsgMessageDays  
nsmsgMessageSize  
nsmsgMessageSizeDays

### **Description**

folders for which the rules apply  
maximum bytes a folder may contain  
maximum messages that can be stored in a folder  
maximum days a message can be stored in a folder  
maximum size of a single message

# **nsmmsgCfgGen**

## **Supported by**

Netscape Messaging Server 4.0

Netscape Directory Server 3.x, 4.0

## **Definition**

Used to specify general configuration applicable to Messaging server as a whole.

## **Superior Class**

top

## **OID**

### **Required Attributes**

objectClass  
cn (commonName)

### **Description**

the object classes of the object  
common name of the Messaging server configuration

### **Allowed Attributes**

nsmmsgAccountURL  
nsmmsgConfigVersion  
nsmmsgFilterUrl  
nsmmsgFolderURL  
nsmmsgInstalledLanguages  
nsmmsgListURL  
nsmmsgNewsPrefix  
nsmmsgSiteLanguage

### **Description**

the location of the server administration resource  
version (major.minor)  
URL for incoming mail filter  
URL for personal management folder  
URL for mailing list management  
(MS 3.x only) specifies the NNTP newsgroup prefix  
default language

# **nsmgCfgHTTP**

## **Supported by**

Netscape Messaging Server 4.1

## **Definition**

Used to define configuration related to the HTTP (Messenger Express) server.

## **Superior Class**

top

## **OID**

### **Required Attributes**

objectClass  
cn (commonName)

### **Description**

the object classes of the object  
common name of the HTTP configuration

### **Allowed Attributes**

nsmgAllowAnonymousLogin  
nsmgBanner  
nsmgDomainAllowed  
nsmgDomainNotAllowed  
nsmgEnable  
nsmgSSLPort  
nsmgIdleTimeout  
nsmgMaxSessions  
nsmgMaxThreads  
nsmgNumProcesses  
nsmgPlainTextMinCipher  
nsmgPort  
nsmgSSLPort  
nsmgSSLUseSSL

### **Description**

permits anonymous login  
template for protocol welcome banner  
list of domain and IP addresses allowed  
list of domain and IP addresses not allowed  
unused to start the server automatically  
used to start service automatically on SSL port  
the idle timeout  
maximum sessions per server process  
maximum threads per server process  
specifies the number of slave processes.  
specifies plain text login for encrypted connection  
server port number  
SSL port number  
used to disable SSL

# nsmmsgCfgIMAP

## Supported by

Netscape Messaging Server 4.0

Netscape Directory Server 3.x, 4.0

## Definition

Used to define configuration related to the IMAP (Internet Messaging Access Protocol) server.

## Superior Class

top

## OID

### Required Attributes

objectClass  
cn (commonName)

### Description

the object classes of the object  
common name of the IMAP configuration

### Allowed Attributes

nsmmsgAllowAnonymousLogin  
nsmmsgBanner  
nsmmsgDomainAllowed  
nsmmsgDomainNotAllowed  
nsmmsgEnable  
nsmmsgSSLPort  
nsmmsgIdleTimeout  
nsmmsgMaxSessions  
nsmmsgMaxThreads  
nsmmsgNumProcesses

### Description

permits anonymous login  
template for protocol welcome banner  
list of domain and IP addresses allowed  
list of domain and IP addresses not allowed  
unused to start the server automatically  
used to start service automatically on SSL port  
the idle timeout  
maximum sessions per server process  
maximum threads per server process  
specifies the number of slave processes.

<b>Allowed Attributes</b>	<b>Description</b>
<code>nsmsgPlainTextMinCipher</code>	specifies plain text login for encrypted connection
<code>nsmsgPort</code>	server port number
<code>nsmsgSSLPort</code>	SSL port number
<code>nsmsgSSLUseSSL</code>	used to disable SSL

# **nsmsgCfgLog**

## **Supported by**

Netscape Messaging Server 4.0

Netscape Directory Server 3.x, 4.0

## **Definition**

Used to specify the log configuration of imap, pop, smtp.

## **Superior Class**

top

## **OID**

### **Required Attributes**

objectClass  
cn (commonName)

### **Description**

the object classes of the object  
common name of the log configuration

### **Allowed Attributes**

nsmsgBufferSize  
nsmsgExpiryTime  
nsmsgFlushInterval  
nsmsgLogDir  
nsmsgLogLevel  
nsmsgLogType  
nsmsgMaxLogFiles  
nsmsgMaxLogFileSize  
nsmsgMaxLogSize  
nsmsgMinFreeDiskSpace  
nsmsgRolloverTime

### **Description**

specifies the size of the log buffers  
specifies when logs expire  
specifies when log buffers are flushed to log files.  
directory path for log files  
defines the level of activity to be received by logs  
indicates the type of log file  
maximum number of log files  
maximum log file size  
minimum disk space available for logging  
minimum amount of disk space required for logging  
interval between log file rollovers

# nsmmsgCfgMTA

## Supported by

Netscape Messaging Server 4.0

Netscape Directory Server 3.x, 4.0

## Definition

Used to define configuration related to SMTP (Simple Mail Transfer Protocol) server.

## Superior Class

top

## OID

### Required Attributes

objectClass  
cn (commonName)

### Description

the object classes of the object  
common name of the SMTP server configuration

### Allowed Attributes

nsmmsgAltQueues  
nsmmsgAuthMailDomain  
  
nsmmsgBanner  
nsmmsgClearControlInterval  
nsmmsgClearControlSafeTime  
nsmmsgCounterDeltaTime  
nsmmsgDefaultDomain  
nsmmsgDeferredPeriod  
nsmmsgDoCanonicalize  
  
nsmmsgDoClientDNSLookup  
nsmmsgDoDSN

### Description

directory path for alternate queue directories  
specifies domains where SMTP authentication is required  
  
protocol welcome banner  
no longer used  
no longer used  
internal counter collection time  
domain name for addresses without domains  
the time between deferred queue checks  
appends valid domain to envelope sender addresses without valid domain  
  
used to look up hostname of calling server in DNS  
used to do delivery status notifications

Allowed Attributes	Description
nsmgDomainAllowed	domain and IP addresses allowed
nsmgDomainLangTable	maps domains to languages
nsmgDomainName	domain name for the server
nsmgDomainNotAllowed	domain and IP addresses not allowed
nsmgEnable	used to start server or server subagent automatically
nsmgForeignPercentAddr	used to accept recipient addresses in archaic form
nsmgLDAPPoolSize	specifies the number of LDAP connections
nsmgLDAPUtilConfig	unused
nsmgLocalDefaultMaxRunCount	
nsmgLocalDefaultMinRunCount	
nsmgMaxHeaderLines	unused
nsmgMaxQueueTime	maximum days to keep deferred mail
nsmgMessageHostName	official hostname of the Messaging server
nsmgNetworkDefaultMaxRunCount	unused
nsmgNetworkDefaultMinRunCount	minimum number of threads for any local module
nsmgPlainTextMinCipher	specifies plain text login for encrypted connection
nsmgPort	server port number
nsmgReserved0	reserved
nsmgReserved1	reserved
nsmgReserved2	reserved
nsmgReserved3	reserved
nsmgReserved4	reserved
nsmgReserved5	reserved
nsmgReserved6	reserved
nsmgReserved7	reserved
nsmgReserved8	reserved
nsmgReserved9	reserved
nsmgRoutStripIMAPFolders	used to strip IMAP folder names from receipt addresses
nsmgSSLUseSSL	used to disable SSL
nsmgSSLUseSSLRelay	

# **nsmmsgCfgMTAAccept**

## **Supported by**

Netscape Messaging Server 4.0

Netscape Directory Server 3.x, 4.0

## **Definition**

Used to define the SMTP accept module configuration.

## **Superior Class**

top

## **OID**

### **Required Attributes**

objectClass  
cn (commonName)

### **Description**

the object classes of the object  
common name of the SMTP accept module  
configuration

### **Allowed Attributes**

nsmmsgAllowBDAT  
nsmmsgAllowEHLO  
nsmmsgAllowETRN  
nsmmsgAllowEXPN  
nsmmsgAllowHELP  
nsmmsgAllowONEX  
nsmmsgAllowSIZE  
  
nsmmsgAllowVERB  
nsmmsgAllowVRFY  
nsmmsgDoAUTH  
nsmmsgHideHostname

### **Description**

used to accept BDAT commands from an SMTP caller  
used to accept EHLO commands from an SMTP caller  
used to accept ETRN commands from an SMTP caller  
used to accept EXPN commands from an SMTP caller  
used to accept HELP commands from an SMTP caller  
used to accept ETRN commands from an SMTP caller  
used to enable the SIZE extension in the "MAIL  
FROM:" header  
  
used to accept VRFY commands from an SMTP caller  
used to accept AUTH commands from an SMTP server  
used to require the addition of hostname to message  
ID

Allowed Attributes	Description
nsmsgLog	used to log every message handled
nsmsgMaxBadCommands	maximum number of bad commands that can be accepted
nsmsgMaxMessageSize	maximum size of a message that may be contained in a folder
nsmsgMaxRunCount	unused
nsmsgMaxScriptSize	maximum script size
nsmsgMinFreeDiskSpace	minimum amount of disk space required for logging
nsmsgMinRunCount	number of threads to start for each module
nsmsgNegativeHostAttr	attributes not allowed in a server LDAP entry
nsmsgPositiveHostAttr	attributes required in a server LDAP entry
nsmsgRequireCRLF	used in 3.x to to accept CRLF or CR to end lines (not used in 4.0)
nsmsgTimeoutCommand	seconds to wait between commands
nsmsgTimeoutData	maximum time to wait for each DATA line
nsmsgVerifyRcpts	used to verify RCPTS in "Accept:"

# **nsmmsgCfgMTAAutoReplyHandler**

## **Supported by**

Netscape Messaging Server 4.0

Netscape Directory Server 3.x, 4.0

## **Definition**

Used to define the SMTP auto-reply module configuration.

## **Superior Class**

top

## **OID**

### **Required Attributes**

objectClass  
cn (commonName)

### **Description**

the object classes of the object  
common name of the SMTP auto-reply handler  
module configuration

### **Allowed Attributes**

nsmmsgDefaultEcho  
nsmmsgDefaultReply  
nsmmsgDefaultVacation  
nsmmsgLog  
nsmmsgMaxRunCount  
nsmmsgMaxScriptSize  
nsmmsgMinRunCount

### **Description**

used for any accounts specifying mailAutoReplyType:  
default reply text to be used for accounts where no  
auto-reply text has been specified  
default vacation message  
used to specify that Messaging server will log every  
message handled  
unused  
maximum script size  
number of threads to start for this module

# **nsmmsgCfgMTAErrorHandler**

## **Supported by**

Netscape Messaging Server 4.0

Netscape Directory Server 3.x, 4.0

## **Definition**

Used to define the SMTP error handler module configuration.

## **Superior Class**

top

## **OID**

### **Required Attributes**

objectClass  
cn (commonName)

### **Description**

the object classes of the object  
common name of the SMTP error handler module configuration.

### **Allowed Attributes**

nsmmsgFormSigKey  
nsmmsgHopCountExceedActions  
nsmmsgLog  
nsmmsgMaxRunCount  
nsmmsgMaxScriptSize  
nsmmsgMinRunCount  
nsmmsgQuotaExceededActions  
nsmmsgRenotifyInterval  
nsmmsgUnknownAcctsActions

### **Description**

reserved for future use  
specifies actions to take when a message exceeds the maximum number of server hop counts  
used to specify that Messaging server will log every message handled  
unused  
maximum script size  
number of threads to start for this module  
actions to take when a message exceeds the mail quota for a recipient  
unused  
actions to take when a message recipient is unknown

# **nsmmsgCfgMTALog**

## **Supported by**

Netscape Messaging Server 4.0

Netscape Directory Server 3.x, 4.0

## **Definition**

Used to define the configuration for the SMTP handler module.

## **Superior Class**

top

## **OID**

### **Required Attributes**

objectClass  
cn (commonName)

### **Description**

the object classes of the object  
common name of the SMTP handler module  
configuration

### **Allowed Attributes**

nsmmsgLog  
nsmmsgMaxRunCount  
nsmmsgMaxScriptSize  
nsmmsgMinRunCount

### **Description**

used to specify that Messaging server will log every  
message handled  
unused  
maximum script size  
number of threads to start for this module

# **nsmmsgCfgMTAMboxDeliver**

## **Supported by**

Netscape Messaging Server 4.0

Netscape Directory Server 3.x, 4.0

## **Definition**

Used to define the SMTP mailbox delivery module configuration.

## **Superior Class**

top

## **OID**

### **Required Attributes**

objectClass  
cn (commonName)

### **Description**

the object classes of the object  
common name of the SMTP mailbox delivery module configuration

### **Allowed Attributes**

nsmmsgLog  
  
nsmmsgMaxRunCount  
nsmmsgMaxScriptSize  
nsmmsgMinRunCount

### **Description**

used to specify that Messaging server will log every message handled  
  
unused  
maximum script size  
number of threads to start for this module

# **nsmmsgCfgMTAProgDeliver**

## **Supported by**

Netscape Messaging Server 4.0

Netscape Directory Server 3.x, 4.0

## **Definition**

Used to define the SMTP program delivery module configuration.

## **Superior Class**

top

## **OID**

### **Required Attributes**

objectClass  
cn (commonName)

### **Description**

the object classes of the object  
commonname of the program delivery module configuration

### **Allowed Attributes**

nsmmsgDefaultGID  
nsmmsgDefaultUID  
  
nsmmsgLog  
  
nsmmsgMaxRunCount  
nsmmsgMaxScriptSize  
nsmmsgMinRunCount  
nsmmsgNTAccount  
nsmmsgNTPassword  
nsmmsgNTRunOptn  
nsmmsgShellPath

### **Description**

the group user ID for root user program delivery  
the user ID for root user program delivery (unused in NT Delivery)  
used to specify that Messaging server will log every message handled  
unused  
maximum script size  
number of threads to start for this module  
unused  
unused  
unused  
used to specify the location of Program-Deliver programs

# nsmmsgCfgMTARouter

## Supported by

Netscape Messaging Server 4.0

Netscape Directory Server 3.x, 4.0

## Definition

Used to define the SMTP Router module configuration

## Superior Class

top

## OID

### Required Attributes

objectClass  
cn (commonName)

### Description

the object classes of the object  
common name of the SMTP router module configuration

### Allowed Attributes

nsmmsgAddDeliveredTo  
nsmmsgDoRewriteFromUsingAuth  
nsmmsgDoRewriteSenderUsingAuth  
nsmmsgEnvelopeRewriteMethod  
nsmmsgFallbackSearchMethod  
nsmmsgHostRewrites  
nsmmsgLocalMailDomains  
nsmmsgLog

### Description

appends the original address to the message header  
used to rewrite the "From:" field of the header to indicate the authenticated sender of the message  
used to rewrite the "Sender:" field of the header to indicate the authenticated sender of the message  
rules for rewriting recipient addresses that are forwarded to another server  
rules for alternate search methods used when attempting to lookup messaging recipients in LDAP  
host or domain used when forwarding messages that may contain lines with "\$" separators  
specifies domains considered local to the server  
used to specify that Messaging server will log every message handled

Allowed Attributes	Description
<code>nsmsgRecipients</code>	maximum number of "Channel-To:" allowed in a control
<code>nsmsgMaxMTAHops</code>	maximum number of MTA hops allowed before the Messaging server determines that the message is in a loop
<code>nsmsgMaxRunCount</code>	unused
<code>nsmsgMinRunCount</code>	number of threads to start for this module
<code>nsmsgNestedGroups</code>	specifies whether nested dynamic mail groups are expanded
<code>nsmsgRewriteToCc</code>	specifies the recipient types to attempt to rewrite
<code>nsmsgRoutingAttribute</code>	attribute to be used when <code>nsmsgEnvelopeRewriteMethod</code> includes <code>ERM_ROUTING_ATTR</code>
<code>nsmsgMaxRunCountDeferred</code>	unused
<code>nsmsgSMTPRewriteStyle</code>	specifies rewrite style used in Header rewrite of "From:", "To:", and "Cc:"

# nsmmsgCfgMTASMTPODeliver

## Supported by

Netscape Messaging Server 4.0

Netscape Directory Server 3.x, 4.0

## Definition

Used to define the SMTP delivery module configuration.

## Superior Class

top

## OID

### Required Attributes

objectClass  
cn (commonName)

### Description

the object classes of the object  
common name of the SMTP delivery module configuration

### Allowed Attributes

nsmmsgAllowBareLF  
nsmmsgAlwaysQueue  
nsmmsgCheckDeferredQueue  
  
nsmmsgDoETRN  
nsmmsgExternalMXServerIP  
nsmmsgInternalMXServerIP  
  
nsmmsgLog  
  
nsmmsgMaxRunCount  
nsmmsgMaxScriptSize

### Description

Used in 3.x. Unused in Messaging server 4.0  
always queue outgoing messages  
instructs the MTA to determine if there are messages in queue waiting to be sent to a particular domain.  
  
reserved for future use  
list of DNS servers to attempt to use  
internal list of DNS servers to use before attempting to use external DNS servers  
  
used to specify that Messaging server will log every message handled  
  
unused  
maximum script size

Allowed Attributes	Description
nsmsgMinRunCount	number of threads to start for this module
nsmsgTimeoutData	maximum time to wait for each DATA line
nsmsgTimeoutDataDot	maximum time to wait for reply to final
nsmsgTimeoutDataSend	maximum time to wait between DATA lines
nsmsgTimeoutGreet	maximum time to wait for reply to initial greeting
nsmsgTimeoutHELO	maximum time to wait for reply to HELO
nsmsgTimeoutMail	maximum time to wait for reply to MAIL
nsmsgTimeoutQuit	maximum time to wait for reply to QUIT
nsmsgTimeoutRcpt	maximum time to wait for reply to RCPT
nsmsgTimeoutRset	maximum time to wait for reply to RSET
nsmsgUseMX	used to specify that MX records are used when looking up an SMTP client domain in DNS

# **nsmmsgCfgMTAUnixDeliver**

## **Supported by**

Netscape Messaging Server 4.0

Netscape Directory Server 3.x, 4.0

## **Definition**

Used to define the UNIX delivery module configuration.

## **Superior Class**

top

## **OID**

### **Required Attributes**

objectClass  
cn (commonName)

### **Description**

the object classes of the object  
common name of the UNIX delivery module configuration

### **Allowed Attributes**

nsmmsgDefaultGID  
nsmmsgDefaultUID  
  
nsmmsgFileMode  
nsmmsgLog  
  
nsmmsgMailDeliveryProgram  
  
nsmmsgMaxRunCount  
nsmmsgMaxScriptSize

### **Description**

the group user ID for root user program delivery  
the user ID for root user program delivery (unused in NT Delivery)  
unused in 4.0  
used to specify that Messaging server will log every message handled  
default program to run for UNIX-Deliver type deliveries  
unused  
maximum script size

<b>Allowed Attributes</b>	<b>Description</b>
<code>nsmsgMinRunCount</code>	number of threads to start for this module
<code>nsmsgNeedSender</code>	used to append message (envelope) sender to the UNIX mail command as a parameter
<code>nsmsgStripCR</code>	used to convert end-of-line messages to be delivered (in Unix-Deliver) from CR/LF to LF
<code>nsmsgSystemMailDir</code>	unused in 4.0

# **nsmmsgCfgNNTP**

## **Supported by**

Netscape Messaging Server 3.x

Netscape Directory Server 3.x, 4.0

## **Definition**

Unused in Messaging Server 4.0. In Messaging Server 3.x, used to define Collabra server configuration related to NNTP (Network News Transfer Protocol).

## **Superior Class**

top

## **OID**

### **Required Attributes**

objectClass  
cn (commonName)

### **Description**

the object classes of the object  
common name of the NNTP configuration

### **Allowed Attributes**

nsmmsgBanner  
nsmmsgDomainAllowed  
nsmmsgDomainNotAllowed  
nsmmsgEnable  
nsmmsgSSLPort  
nsmmsgNewsPrefix  
nsmmsgNewsSpool  
nsmmsgPartition

### **Description**

protocol welcome banner  
domain and IP addresses allowed  
domain and IP addresses not allowed  
used to start the server (or server subagent)  
automatically  
used to automatically start service on SSL port  
in 3.x, specifies the NNTP Newsgroup prefix (unused  
in 4.0)  
In 3.x, specifies the NNTP spool directory (unused in  
4.0)  
identifies the partition in which the folder resides

<b>Allowed Attributes</b>	<b>Description</b>
<code>nsmsgPlainTextMinCipher</code>	specifies plain text login for encrypted connection
<code>nsmsgPort</code>	port number for the server
<code>nsmsgSSLPort</code>	SSL port number
<code>nsmsgSSLUseSSL</code>	used to disable SSL

# **nsmmsgCfgPartition**

## **Supported by**

Netscape Messaging Server 4.0

Netscape Directory Server 3.x, 4.0

## **Definition**

Used to define a partition.

## **Superior Class**

top

## **OID**

### **Required Attributes**

objectClass

cn (commonName)

### **Description**

the object classes of the object

common name of the partition

### **Allowed Attributes**

nsmmsgPath

### **Description**

the partition path

# **nsmsgCfgPOP**

## **Supported by**

Netscape Messaging Server 4.0

Netscape Directory Server 3.x, 4.0

## **Definition**

Used to define configuration related to a POP (Post Office Protocol) server.

## **Superior Class**

top

## **OID**

### **Required Attributes**

objectClass  
cn (commonName)

### **Description**

the object classes of the object  
common name of the POP server configuration

### **Allowed Attributes**

nsmsgAllowAnonymousLogin  
nsmsgBanner  
nsmsgDomainAllowed  
nsmsgDomainNotAllowed  
nsmsgEnable  
  
nsmsgIdleTimeout  
nsmsgMaxSessions  
nsmsgMaxThreads  
nsmsgNumProcesses

### **Description**

used to allow anonymous login  
protocol welcome banner  
domains allowed  
domains not allowed  
used to start the server (or server subagent)  
automatically  
idle timeout  
maximum number of threads per server process  
maximum number of threads per server process

Allowed Attributes	Description
nsmmsgPlainTextMinCipher	specifies plain text login for encrypted connection
nsmmsgPOPMinPoll	minimum interval for client polling
nsmmsgRenotifyInterval	unused
nsmmsgSSLUseSSL	used to disable SSL

# **nsmmsgCfgPublic**

## **Supported by**

Netscape Messaging Server 4.0

Netscape Directory Server 3.x, 4.0

## **Definition**

Unused object class.

## **Superior Class**

top

## **OID**

### **Required Attributes**

objectClass

cn (commonName)

### **Description**

the object classes of the object

common name

# **nsmmsgCfgReport**

## **Supported by**

Netscape Messaging Server 4.0

Netscape Directory Server 3.x, 4.0

## **Definition**

Unused object class.

## **Superior Class**

top

## **OID**

### **Required Attributes**

objectClass

cn (commonName)

### **Description**

the object classes of the object

common name

# **nsmmsgCfgScript**

## **Supported by**

Netscape Messaging Server 4.0

Netscape Directory Server 3.x, 4.0

## **Definition**

Unused object class.

## **Superior Class**

top

## **OID**

### **Required Attributes**

objectClass  
cn (commonName)

### **Description**

the object classes of the object  
common name

### **Allowed Attributes**

nsmmsgBinaryPath  
nsmmsgEnable  
  
nsmmsgLogLevel  
nsmmsgMaxBranches  
nsmmsgMaxCPUTime  
nsmmsgMaxErrorObjectSize  
nsmmsgMaxScriptSize  
nsmmsgMaxStateObjectSize

### **Description**

the directories containing binaries  
used to start the server (or server subagent)  
automatically  
  
specifies the level of activity to be recorded by logs  
maximum number of branches  
maximum cpu time per execution  
maximum error object size  
maximum script size  
maximum state object size

# nsmgCfgService

## Supported by

Netscape Messaging Server 4.0

Netscape Directory Server 3.x, 4.0

## Definition

Used to define the messaging service container.

## Superior Class

top

## OID

### Required Attributes

objectClass  
cn (commonName)

### Description

the object classes of the object  
common name of the messaging service container

### Allowed Attributes

nsmgAuthCacheSize  
nsmgAuthCacheTTL  
nsmgDNSResolveClient  
  
nsmgLDAPBaseDN  
nsmgLDAPBindCred  
nsmgLDAPBindDN  
nsmgLDAPHost  
nsmgLDAPMemCache  
  
nsmgLDAPMemCacheSize  
nsmgLDAPMemCacheTtl  
nsmgLDAPPort

### Description

size of the login cache  
cache entry TTL  
used to indicate that host for the reverse name  
lookup client is used  
  
the base DN for all searches in the Directory server  
the bind credential used in binding to the LDAP server  
the bind DN for the Directory Server  
the hostname(s) of the LDAP server for user lookup  
used to enable or disable LDAP SDK memcache  
feature  
  
the cache size  
the length of time the entry may live  
LDAP port

<b>Allowed Attributes</b>	<b>Description</b>
<code>nsmgLDAPUseSSL</code>	indicates whether SSL (Secure Socket Layer) communications should be used to connect to the server
<code>nsmgListenAddr</code>	IP address and hostname to listen o
<code>nsmgPlainTextLoginPause</code>	the duration of pause following successful clear login
<code>nsmgReadTimeout</code>	the period of time permitted to get the hello string and the reply of the config refresh command
<code>nsmgSSLPasswdFile</code>	the password for each key file

# **nsmsgCfgSNMP**

## **Supported by**

Netscape Messaging Server 4.0

Netscape Directory Server 3.x, 4.0

## **Definition**

Used to specify the settings for SNMP (Simple Network Management Protocol)

## **Superior Class**

top

## **OID**

### **Required Attributes**

objectClass  
cn (commonName)

### **Description**

the object classes of the object  
common name of the SNMP settings

### **Allowed Attributes**

nsmsgCollectionDeltaTime  
nsmsgContact  
nsmsgDescription  
nsmsgEnable  
nsmsgLocation  
nsmsgMasterHost  
nsmsgMasterPort  
nsmsgMTAID  
nsmsgMTAName  
nsmsgOrganization  
nsmsgVersion

### **Description**

how often the SNMP server collects data  
information describing a contact person  
information about the server  
used to start the server (or server subagent)  
automatically  
location of the server  
the SNMP master agent hostname, in the form of a  
DNS name  
port number of the SNMP master agent  
reserved for internal use  
the name of the MTA, when no name is specified  
the name of the organization  
reserved for internal use

# **nsmmsgCfgStore**

## **Supported by**

Netscape Messaging Server 4.0

Netscape Directory Server 3.x, 4.0

## **Definition**

Used to store message store configuration.

## **Superior Class**

top

## **OID**

### **Required Attributes**

objectClass  
cn (commonName)

### **Description**

the object classes of the object  
common name of the message store configuration

### **Allowed Attributes**

nsmmsgAdmins  
nsmmsgDefaultACL  
nsmmsgDefaultMailboxQuota  
nsmmsgDefaultPartition  
nsmmsgDiskFlushInterval  
nsmmsgExpireStart  
nsmmsgQuotaExceededMsg  
nsmmsgQuotaExceededMsgInterval  
nsmmsgQuotaWarn  
nsmmsgUmask

### **Description**

list of userids that have administration access  
default ACL for the Collabra folder  
mailbox quota for all users who don't have a mailQuota attribute in their entry  
the default partition (applicable only for the Inbox)  
interval for flushing buffers to log files  
start every day for cleanup and expire  
message to be sent to the user when quota exceeds what is specified in store  
the interval to wait before sending another quota-exceeded message  
warning to client when quota exceeds the level specified  
not configurable

# **nsmsgCfgUser**

## **Supported by**

Netscape Messaging Server 4.0

Netscape Directory Server 3.x, 4.0

## **Definition**

Unused object class.

## **Superior Class**

top

## **OID**

### **Required Attributes**

objectClass

cn (commonName)

### **Description**

the object classes of the object

common name

# Attributes: abstract—nsMDSuffix

# A

## **abstract**

### **Origin**

LDAP

### **Definition**

Provides an abstract of a document entry.

### **Syntax**

cis

### **OID**

## **accountUnlockTime**

### **Origin**

Netscape Directory Server

### **Definition**

Defines, in seconds, the time until a user's account is unlocked after a specified number of failed attempts to bind to the directory.

For example:

```
accountUnlockTime: 600
```

### **Syntax**

cis (operational)

### **OID**

2.16.840.1.113730.3.1.95

## **aci**

### **Origin**

Netscape Directory Server

### **Definition**

Stores the directory server access control information for this entry.

For example:

```
aci: (target="ldap:///o=Airius.com")(version 3.0;  
acl "anonymous access"; allow (read, search, compare)  
userdn=ldap:///self;)
```

### **Syntax**

bin

### **OID**

2.16.840.1.113730.3.1.55

## **administratorContactInfo**

### **Origin**

Netscape Directory Server

### **Definition**

Provides a URL to information about the person responsible for administering the Netscape server. Normally this attribute and this attribute value are written to the directory when a Netscape server is initially installed.

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.74

## **adminUrl**

### **Origin**

Netscape Directory Server

### **Definition**

Provides the URL to the administration server through which you can manage the Netscape server. Normally this attribute and this attribute value are written to the directory when a Netscape server is initially installed.

For example:

```
adminUrl: http://twain.airius.com:2468
```

### **Syntax**

ces

### **OID**

2.16.840.1.113730.3.1.75

## **aliasedObjectName**

### **Origin**

LDAP

### **Definition**

Used by the directory server to identify alias entries in the directory. Contains the distinguished name of the entry for which it is an alias.

For example:

```
aliasedObjectName: cn=jdoe, o=Airius.com
```

### **Syntax**

dn

### **OID**

2.5.4.1

## **altServer**

### **Origin**

LDAP

### **Definition**

Identifies URLs of other server that may be contacted when the server becomes unavailable. When the server does not know of any other servers, this attribute is absent. Clients may want to cache this information, for reference in case the preferred LDAP server becomes unavailable.

For example:

altServer: ldap://directory.Airius.com:389/0=Airius.com

### **Syntax**

ces

### **OID**

1.3.6.1.4.1.1466.101.120.6

## **archiveFile**

### **Origin**

Netscape Directory Server

### **Definition**

The pathname of a file, into which is written a copy of each message sent to this group.

For example:

archiveFile:

### **Syntax**

ces

### **OID**

2.16.840.1.113730.3.1.24

## **associatedDomain**

### **Origin**

### **Definition**

Specifies a DNS domain associated with an object in the directory tree. For example, the entry in the directory tree with a distinguished name "C=US, O=Airius Corporation" would have an associated domain of "AC.US. Note that all domains should be represented in rfc822 order.

For example:

```
associatedDomain: US
```

### **Syntax**

cis

### **OID**

0.9.2342.19200300.100.1.37

## **associatedName**

### **Origin**

### **Definition**

Specifies an entry in the organizational directory tree associated with a DNS domain.

For example:

```
associatedName: C=US
```

### **Syntax**

dn

### **OID**

0.9.2342.19200300.100.1.38

## **attributeTypes**

### **Origin**

LDAP

### **Definition**

Operational, multi-valued attribute that specifies the attribute types used within a subschema. Each value describes a single attribute.

For example:

```
attributeTypes: ( 2.5.4.18 NAME 'postOfficeBox' DESC 'Standard Attribute'  
SYNTAX '1.3.6.1.4.1.1466.115.121.1.18')
```

### **Syntax**

cis (operational)

### **OID**

2.5.21.5

## **audio**

### **Origin**

### **Definition**

Contains a sound file in binary format. The attribute uses a u-law encoded sound file.

For example:

```
audio: AAAAAA==
```

### **Syntax**

bin

### **OID**

0.9.2342.19200300.100.1.55

## **authorCn**

### **Origin**

### **Definition**

Contains the common name of the author of a document entry.

For example:

authorCn: Kacey

### **Syntax**

cis

### **OID**

## **authorSn**

### **Origin**

### **Definition**

Contains the surname of the author of a document entry.

For example:

authorSn: Doe

### **Syntax**

cis

### **OID**

## **authorityRevocationList**

### **Origin**

LDAP

### **Definition**

Contains a list of CA certificates that have been revoked. Should only be used with the binary subtype,authorityRevocationList;binary.

For example:

authorityrevocationlist;binary: AAAAAA==

### **Syntax**

bin

### **OID**

2.5.4.38

## **automountInformation**

### **Origin**

LDAP (RFC 2307)

### **Definition**

Used by Directory Server 4.0 to implement Network Information Service.

### **Syntax**

ces

### **OID**

1.3.6.1.1.1.1.25

# B

## **bootFile**

### **Origin**

LDAP (RFC 2307)

### **Definition**

Used by Directory Server 4.0 to implement Network Information Service. Identifies the boot image name.

For example:

bootImage:

### **Syntax**

ces

### **OID**

1.3.6.1.1.1.1.24

## bootParameter

### Origin

LDAP (RFC 2307)

### Definition

Used by Directory Server 4.0 to implement Network Information Service, `rpc.bootparamd` parameter.

where:

- `bootparameter` = key "=" server ":" path
- `bootparameter` = key "=" server ":" path
- `key` = keystack
- `server` = keystack
- `path` = keystack

X.500 servers may use the following representation of the above syntax:

```
bootParameterSyntax ::= SEQUENCE { key IA5String, server IA5String,  
path IA5String }
```

Values adhering to these syntaxes are encoded as strings by LDAP servers.

### Syntax

ces

### OID

1.3.6.1.1.1.1.23

## **buildingName**

### **Origin**

### **Definition**

Defines the building name associated with the entry.

For example:

```
buildingName: 14
```

### **Syntax**

cis

### **OID**

0.9.2342.19200300.100.1.48

## **businessCategory**

### **Origin**

LDAP

### **Definition**

Identifies the type of business in which the entry is engaged. This should be a broad generalization such as is made at the corporate division level.

For example:

```
businessCategory: Engineering
```

### **Syntax**

cis

### **OID**

2.5.4.15

# C

## **c (countryName)**

### **Origin**

LDAP

### **Definition**

Contains the two-character code representing country names, as defined by ISO, in the directory.

For example:

```
countryName: IE
```

or

```
c: IE
```

### **Syntax**

### **OID**

2.5.4.6

## **cACertificate**

### **Origin**

LDAP

### **Definition**

Contains the CA's certificate. This attribute is stored and requested in the binary form, cACertificate;binary.

For example:

cacertificate;binary: AAAAAA==

### **Syntax**

bin

### **OID**

2.5.4.37

## **carLicense**

### **Origin**

### **Definition**

Identifies the entry's automobile license plate number.

For example:

carLicense: 6ABC246

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.1

## **certificateRevocationList**

### **Origin**

### **Definition**

Contains a list of revoked user certificates. This attribute is stored and requested in the binary form, `certificateRevocationList;binary`.

For example:

```
certificateRevocationList;binary: AAAAAA==
```

### **Syntax**

bin

### **OID**

2.5.4.39

## **changeLog**

### **Origin**

Netscape Directory Server

### **Definition**

Contains the distinguished name of the container object that holds change log records for the directory server. Maintained in the root DSE.

For example:

```
changeLog: cn=changeLog
```

### **Syntax**

dn

### **OID**

2.16.840.1.113730.3.1.35

## **changeLogMaximumAge**

### **Origin**

Netscape Directory Server (version 1.0 only)

### **Definition**

Specifies, in seconds, the maximum age for entries in the change log. Entries are discarded once they become older than the maximum age specified.

For example:

```
changeLogMaximumAge: 86000
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.200

## **changeLogMaximumSize**

### **Origin**

Netscape Directory Server (version 1.0 only)

### **Definition**

Specifies, in bytes, the maximum size for the change log file. Entries are discarded from this file once it reaches the maximum size.

For example:

```
changeLogMaximumSize: 2400000
```

### **Syntax**

dn

### **OID**

2.16.840.1.113730.3.1.201

## **changeNumber**

### **Origin**

Netscape Directory Server

### **Definition**

Contains the change number of the entry as assigned by the supplier server. Must be the string representation of an integer.

For example:

changeNumber: 1037

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.5

## **changes**

### **Origin**

Netscape Directory Server

### **Definition**

Reserved for future use. Defines changes made to a directory server. These changes are in LDIF format. Since the changes attribute contains embedded new lines, the LDIF representation of a changes attribute will be base-64 encoded.

### **Syntax**

bin

### **OID**

2.16.840.1.113730.3.1.8

## **changeTime**

### **Origin**

Netscape Directory Server

### **Definition**

Defines a time, in YYYYMMDDHHMMSS format , when the entry was added, deleted, or modified.

For example:

changeTime: 19991011112318

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.77

## **changeType**

### **Origin**

Netscape Directory Server

### **Definition**

Describes the type of change performed on an entry. Accepted values include:

- add
- delete
- modify
- modrdn

For example:

```
changeType: modify
```

### **Syntax**

cis

### **OID**

cis

## **cirBeginORC**

### **Origin**

Netscape Directory Server

### **Definition**

Determines whether the consumer server should erase the contents of its directory before replication. If no value exists for this attribute, the consumer will not erase the contents.

Possible values include:

- start: tells the consumer server to erase the directory
- stop: tells the consumer server to abort the operation.

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.90

## **cirBindCredentials**

### **Origin**

Netscape Directory Server

### **Definition**

Contains the credentials used by the consumer in consumer-initiated replication (CIR) to connect to the supplier server.

For example:

cirBindCredentials: secret

### **Syntax**

ces

### **OID**

2.16.840.1.113730.3.1.85

## **cirBindDn**

### **Origin**

Netscape Directory Server

### **Definition**

Contains the distinguished name used by the consumer in consumer initiated replication (CIR) when binding to the supplier server.

For example:

```
cirBindDn: cn=Replication Manager
```

### **Syntax**

dn

### **OID**

2.16.840.1.113730.3.1.82

## **cirHost**

### **Origin**

Netscape Directory Server

### **Definition**

Contains the hostname of the CIR supplier for the replication agreement.

For example:

```
cirHost: earth.airius.com
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.80

## **cirLastUpdateApplied**

### **Origin**

Netscape Directory Server

### **Definition**

Contains the change number of the last change successfully retrieved and applied to a CIR consumer.

For example:

cirLastUpdateApplied: 1019

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.86

## **cirPort**

### **Origin**

Netscape Directory Server

### **Definition**

Contains the port number of the supplier server.

For example:

cirPort: 389

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.81

## **cirReplicaRoot**

### **Origin**

Netscape Directory Server

### **Definition**

Root of the subtree on the supplier server to be replicated on the consumer.

For example:

```
cirReplicaRoot: ou=people, o=airius.com
```

### **Syntax**

dn

### **OID**

2.16.840.1.113730.3.1.79

## **cirSyncInterval**

### **Origin**

Netscape Directory Server

### **Definition**

Periodically, the consumer server queries the supplier to find out if any changes have been made to the replicated portion of the directory. This attribute defines, in seconds, the interval between consumer queries of the supplier server.

For example:

```
cirSyncInterval: 3600
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.89

## **cirUpdateFailedat**

### **Origin**

Netscape Directory Server

### **Definition**

Timestamp of the last failed update attempt.

For example:

cirUpdateFailedat: 19891027170401

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.88

# **cirUpdateSchedule**

## **Origin**

Netscape Directory Server

## **Definition**

Defines the hours between which replication can occur.

For example:

```
cirUpdateSchedule: 0100-0400
```

represents 1:00 AM - 4:00 AM, daily

```
cirUpdateSchedule: * 06
```

represents all day Saturday and Sunday

```
cirUpdateSchedule: 1145-1300 24
```

represents 11:45 AM -1:00 PM, Tuesday and Thursday

## **Syntax**

cis

## **OID**

2.16.840.1.113730.3.1.87

# **cirUsePersistentSearch**

## **Origin**

Netscape Directory Server

## **Definition**

Unimplemented in DS 4.0. Accepted values:

- 0: false
- 1: true

For example:

```
cirUsePersistentSearch: 0
```

## **Syntax**

cn

## **OID**

2.16.840.1.113730.3.1.83

## **cirUseSsl**

### **Origin**

Netscape Directory Server

### **Definition**

Determines whether SSL should be used during consumer initiated replication.

Accepted values:

- 0: do not use SSL
- 1: use SSL

For example:

```
cirUseSsl: 0
```

### **Syntax**

cn

### **OID**

2.16.840.1.113730.3.1.84

## **cn (commonName)**

### **Origin**

LDAP

### **Definition**

Identifies the name of an object in the directory. When the object corresponds to a person, the cn it is typically the person's full name.

When in reference to the LDAPReplica or LDAPServer object classes, it identifies the converted DNS name of the server and root of the replicated directory tree into distinguished name format.

When identifying the entry's common name or full name:

```
commonName: Bill Anderson
```

or

```
cn: Bill Anderson
```

When in reference to LDAPReplica or LDAPServer object classes:

```
commonName: replicater.netscape.com:17430/o%3Dairius%2Cc%3us
```

or

```
cn: replicater.netscape.com:17430/o%3Dairius%2Cc%3us
```

### **Syntax**

cis (1-many)

### **OID**

2.5.4.3

## **co (countryName)**

### **Origin**

LDAP

### **Definition**

Contains the name of a country. Often, the country attribute is used to describe a two-character code for a country, and the friendlyCountryName attribute is used to describe the actual country name.

For example:

```
friendlyCountryName: Ireland countryName: IE
```

or

```
co: Ireland
```

### **Syntax**

cis

### **OID**

0.9.2342.19200300.100.1.43

## **createTimestamp**

### **Origin**

LDAP

### **Definition**

Contains the time the entry was created in GMT (Greenwich Mean Time) format. When the Track Modification Time parameter is set to on, the server adds this attribute to an entry when it is created.

For example:

```
createTimestamp:19980514064150Z
```

### **Syntax**

cis

### **OID**

2.5.18.1

## **creatorsName**

### **Origin**

LDAP

### **Definition**

Contains the DN of the creator of an entry. When the Track Modification Time parameter is set to on, this attribute is added to an entry when it is created.

For example:

```
creatorsName:cn=jdoe, oo=people, =airius.com
```

### **Syntax**

dn

### **OID**

2.5.18.3

## **crossCertificatePair**

### **Origin**

LDAP

### **Definition**

This attribute is stored and requested in the binary form, as `crossCertificatePair;binary`.

For example:

```
crosscertificatepair;binary: AAAAAA==
```

### **Syntax**

bin

### **OID**

2.5.4.40

# D

## **dc (domainComponent)**

### **Origin**

LDAP

### **Definition**

Specifies one component of a domain name.

For example:

```
domainComponent: airius
```

or

```
dc: airius
```

### **Syntax**

```
cis
```

### **OID**

```
0.9.2342.19200300.100.1.25
```

## **deleteOldRdn**

### **Origin**

Netscape Directory Server

### **Definition**

A flag that defines whether the old RDN of the entry should be retained as a distinguished attribute of the entry, or should be deleted. Accepted values include:

- False: indicates that the RDN should be retained as a distinguished attribute.
- True: indicates that it should not be retained as a distinguished attribute of the entry.

The RDN will be retained as a distinguished attribute if an illegal value are present or no value is provided).

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.10

## **deltaRevocationList**

### **Origin**

LDAP

### **Definition**

This attribute is to be stored and requested in the binary form, as deltaRevocationList;binary. Reserved for future use.

### **Syntax**

bin

### **OID**

2.5.4.53

## **departmentNumber**

### **Origin**

Netscape Directory Server

### **Definition**

Identifies the entry's department number

For example:

departmentNumber: 2604

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.2

## **description**

### **Origin**

LDAP

### **Definition**

Provides a human-readable description of the object. For people and organizations this often includes their role or work assignment.

For example:

description: Quality control inspector for the ME2873 product line

### **Syntax**

cis

### **OID**

2.5.4.13

## **destinationIndicator**

### **Origin**

LDAP

### **Definition**

The country and city associated with the entry needed to provide Public Telegram Service. Generally used in conjunction with registeredAddress.

For example:

destinationIndicator: Stow, Ohio, USA

### **Syntax**

cis

### **OID**

2.5.4.27

## **displayName**

### **Origin**

Netscape Directory Server 4.0

### **Definition**

Preferred name of a person to be used when displaying entries. Especially useful in displaying a preferred name for an entry within a one-line summary list. Since other attribute types, such as cn, are multivalued, they can not be used to display a preferred name.

For example:

displayName: Michigan Smith

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.241

## **distinguishedName**

### **Origin**

X.500

### **Definition**

Not relevant to LDAP.

### **Syntax**

dn

### **OID**

2.5.4.49

## **dITContentRules**

### **Origin**

X.500

### **Definition**

Not relevant to LDAP.

### **Syntax**

cis (operational)

### **OID**

2.5.21.2

## **dITRedirect**

### **Origin**

### **Definition**

Used to indicate that the object described by one entry now has a newer entry in the directory tree. This attribute may be used when an individual's place of work changes, and the individual acquires a new organizational DN.

For example:

```
ditRedirect: cn=jdoe, o=airius.com
```

### **Syntax**

dn

### **OID**

OID: 0.9.2342.19200300.100.1.54

## **dITStructureRules**

### **Origin**

X.500

### **Definition**

Not relevant to LDAP

### **Syntax**

cis (operational)

### **OID**

2.5.21.1

## **dmdName**

### **Origin**

X.500

### **Definition**

Not relevant to LDAP.

### **Syntax**

cis

### **OID**

2.5.4.53

## **dn**

### **Origin**

Netscape Directory Server

### **Definition**

Defines the distinguished name (dn) for the entry.

For example:

*dn: cn=Jane Doe, ou=Quality Control, o=airius.com*

### **Syntax**

dn

### **OID**

2.5.4.49

# **dNSRecord**

## **Origin**

## **Definition**

Specifies DNS resource records; including, type A (Address), type MX (Mail Exchange), type NS (Name Server), and type SOA (Start Of Authority) resource records.

For example:

```
dNSRecord: IN NS ns.uu.net
```

## **Syntax**

cis

## **OID**

0.9.2342.19200300.100.1.26

## **dnQualifier**

### **Origin**

LDAP

### **Definition**

Adds information to the relative distinguished name of an entry. Useful when merging data from multiplesources in order to prevent conflicts between entries that would otherwise have the same name. It is recommended that the value of the dnQualifier attribute be the same for all entries from a particular source.

For example:

dnQualifier:

### **Syntax**

cis

### **OID**

2.5.4.46

## **documentAuthor**

### **Origin**

### **Definition**

Contains the distinguished name of the author of a document entry.

For example:

documentAuthor: *cn=John Doe, o=Airius.com*

### **Syntax**

dn

### **OID**

0.9.2342.19200300.100.1.14

## **documentIdentifier**

### **Origin**

### **Definition**

Specifies a unique identifier for a document.

For example:

`documentIdentifier: L3204REV1`

### **Syntax**

cis

### **OID**

0.9.2342.19200300.100.1.11

## **documentLocation**

### **Origin**

### **Definition**

Defines the location of the original copy of a document entry.

For example:

`documentLocation: Department Library`

### **Syntax**

cis

### **OID**

0.9.2342.19200300.100.1.15

## **documentPublisher**

### **Origin**

### **Definition**

The person and/or organization that published a document.

For example:

```
documentPublisher: Southeastern Publishing
```

### **Syntax**

cis

### **OID**

0.9.2342.19200300.100.1.56

## **documentStore**

### **Origin**

### **Definition**

Defines the \*\*\* of a document.

For example:

```
documentStore:
```

### **Syntax**

cis

### **OID**

## **documentTitle**

### **Origin**

### **Definition**

Contains the title of a document entry.

For example:

documentTitle: Directory Administrator's Guide

### **Syntax**

cis

### **OID**

0.9.2342.19200300.100.1.12

## **documentVersion**

### **Origin**

### **Definition**

Defines the version of a document entry.

For example:

documentVersion: 1.1

### **Syntax**

cis

### **OID**

0.9.2342.19200300.100.1.13

## **drink**

### **Origin**

### **Definition**

Describes favorite drink of a person entry.

For example:

`drink: soda`

or

`favouriteDrink: soda`

### **Syntax**

`cis`

### **OID**

0.9.2342.19200300.100.1.5

## **dSAQuality**

### **Origin**

### **Definition**

Undefined.

For example:

`dSAQuality:`

### **Syntax**

`cis (single)`

### **OID**

0.9.2342.19200300.100.1.49

# E

## **employeeNumber**

### **Origin**

Netscape Directory Server

### **Definition**

Identifies the entry's employee number.

For example:

employeeNumber: 3440

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.3

## **employeeType**

### **Origin**

Netscape Directory Server

### **Definition**

Identifies the entry's type of employment.

For example:

employeeType: Full time

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.4

## **enhancedSearchGuide**

### **Origin**

LDAP

### **Definition**

Used by X.500 clients when constructing search filters.

For example:

enhancedSearchGuide:

### **Syntax**

cis

### **OID**

2.5.4.47

# F

## **fax (facsimileTelephoneNumber)**

### **Origin**

LDAP

### **Definition**

Identifies the fax number at which the entry can be reached. Abbreviation: fax

For example:

```
facsimileTelephoneNumber: 415-555-1212
```

or:

```
fax: 415-555-1212
```

### **Syntax**

tel (multi-valued)

### **OID**

2.5.4.23

## **filterInfo**

### **Origin**

Netscape Directory Server

### **Definition**

Used by the changeLogEntry for replication.

For example:

```
filterinfo:
```

### **Syntax**

```
cis
```

### **OID**

```
2.16.840.1.113730.3.1.206
```

# G

## **gecos**

### **Origin**

LDAP (RFC 2307)

### **Definition**

Used by Directory Server 4.0 to implement Network Information Service. Indicates the GECOS field; the common name.

For example:

gecos:

### **Syntax**

cis (single)

### **OID**

1.3.6.1.1.1.1.2

## **generation**

### **Origin**

### **Definition**

Identifies a byte vector assigned to the server to distinguish it from any other generation or version of the server. The generation attribute is used only for replica synchronization.

For example:

```
generation: 19990214130215
```

### **Syntax**

ces

### **OID**

## **generationQualifier**

### **Origin**

LDAP

### **Definition**

Contains the generation Qualifier part of the name, typically appearing in the suffix.

For example:

```
generationqualifier:III
```

### **Syntax**

cis

### **OID**

2.5.4.44

## **gidNumber**

### **Origin**

LDAP (RFC 2307)

### **Definition**

Used by Directory Server 4.0 to implement Network Information Service. An integer uniquely identifying a group in an administrative domain.

For example:

`gidNumber:`

### **Syntax**

int (single)

### **OID**

1.3.6.1.1.1.1.1

## **givenName**

### **Origin**

LDAP

### **Definition**

Identifies the entry's given name, usually a person's first name.

For example:

`givenName: Hecuba`

### **Syntax**

cis

### **OID**

2.5.4.42

# **groupPassword**

## **Origin**

## **Definition**

Identifies a group's password in binary form.

For example:

`groupPassword:`

## **Syntax**

`bin`

## **OID**

2.16.840.1.113730.3.1.27

# H

## **homeDirectory**

### **Origin**

LDAP (RFC 2307)

### **Definition**

Used by Directory Server 4.0 to implement Network Information Service. Identifies the absolute path to the home directory.

For example:

homeDirectory:

### **Syntax**

ces (single)

### **OID**

1.3.6.1.1.1.1.3

## **homePhone**

### **Origin**

### **Definition**

Identifies the entry's home phone number.

For example:

homeTelephoneNumber: 415-555-1212

or

homePhone: 415-555-1234

### **Syntax**

tel

### **OID**

0.9.2342.19200300.100.1.20

# homePostalAddress

## Origin

## Definition

Identifies the entry's home mailing address. This field is intended to include multiple lines, but each line within the entry should be separated by a dollar sign (\$). To represent an actual dollar sign (\$) or backslash (\) within this text, use the escaped hex values \24 and \5c respectively.

To identify an entry's homemailing address:

```
homePostalAddress: 1234 Ridgeway Drive$Santa Clara, CA$99555
```

Additionally, to represent the string:

```
The dollar ($) value can be found  
in the c:\cost file.
```

provide the string:

```
The dollar (\24) value can be found$in the c:\5ccost file.
```

## Syntax

cis

## OID

0.9.2342.19200300.100.1.39

## **host**

### **Origin**

### **Definition**

Defines the hostname of a computer.

For example:

host: mozilla

### **Syntax**

cis

### **OID**

0.9.2342.19200300.100.1.9

## **houseIdentifier**

### **Origin**

LDAP

### **Definition**

Identifies a building in a location.

For example:

houseIdentifier: B105

### **Syntax**

cis

### **OID**

2.5.4.51



## **info**

### **Origin**

### **Definition**

The Information attribute type specifies any general information pertinent to an object. It is recommended that specific usage of this attribute type is avoided, and that specific requirements are met by other (possibly additional) attribute types.

For example:

```
info: not valid
```

### **Syntax**

cis

### **OID**

0.9.2342.19200300.100.1.4

## **initials**

### **Origin**

LDAP

### **Definition**

Identifies the entry's initials. Does not identify the entry's surname.

For example:

```
initials: BFA
```

### **Syntax**

ci

### **OID**

2.5.4.43

## **installationTimeStamp**

### **Origin**

Netscape Directory Server

### **Definition**

Identifies the date and time in zulu format when the Netscape server was installed. This attribute is used by the netscapeServer object class. Normally this attribute and this attribute value are written to the directory when a Netscape server is initially installed.

For example:

```
installationTimeStamp: 199703261517z
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.73

## **internationalIsdnNumber**

### **Origin**

LDAP

### **Definition**

Contains the ISDN number of the entry. This is in the internationally agreed format for ISDN addresses given in CCITT Rec. E. 164.

For example:

```
internationalIsdnNumber:
```

### **Syntax**

ces

### **OID**

2.5.4.25

## **ipHostNumber**

### **Origin**

LDAP (RFC 2307)

### **Definition**

Used by Directory Server 4.0 to implement Network Information Service. Specifies the IP address as a dotted decimal, omitting leading zeros

For example:

```
ipHostNumber:192.168.1.1
```

### **Syntax**

cis

### **OID**

1.3.6.1.1.1.1.19

## **ipNetmaskNumber**

### **Origin**

LDAP (RFC 2307)

### **Definition**

Used by Directory Server 4.0 to implement Network Information Service. Specifies the IP netmask as a dotted decimal (for example, 255.255.255.0), omitting leading zeros.

For example:

`ipNetmaskNumber:`

### **Syntax**

cis (single)

### **OID**

1.3.6.1.1.1.1.21

## **ipNetworkNumber**

### **Origin**

LDAP (RC 2307)

### **Definition**

Used by Directory Server 4.0 to implement Network Information Service. Specifies the IP network as a dotted decimal (for example, 192.168), omitting leading zeros.

For example:

`ipNetworkNumber:`

### **Syntax**

cis (single)

### **OID**

1.3.6.1.1.1.1.20

## **ipProtocolNumber**

### **Origin**

LDAP (RFC 2307)

### **Definition**

Used by Directory Server 4.0 to implement Network Information Service.

For example:

`ipProtocolNumber :`

### **Syntax**

cis (single)

### **OID**

1.3.6.1.1.1.1.17

## **ipServicePort**

### **Origin**

LDAP (RFC 2307)

### **Definition**

Used by Directory Server 4.0 to implement Network Information Service.

For example:

`ipServicePort :`

### **Syntax**

cis (single)

### **OID**

1.3.6.1.1.1.1.15

# **ipServiceProtocol**

## **Origin**

LDAP (RFC 2307)

## **Definition**

Used by Directory Server 4.0 to implement Network Information Service.

For example:

```
ipServiceProtocol:
```

## **Syntax**

cis

## **OID**

1.3.6.1.1.1.1.16

# J

## **janetMailbox**

### **Origin**

### **Definition**

Specifies an email address. This attribute is intended for the convenience of U.K users unfamiliar with rfc822 mail addresses. Entries using this attribute must also include an rfc822Mailbox attribute.

For example:

```
janetMailbox: jdoe@airius.com
```

### **Syntax**

cis

### **OID**

0.9.2342.19200300.100.1.46

## **jpegPhoto**

### **Origin**

### **Definition**

Contains a JPEG photo of the entry.

For example:

```
jpegPhoto: AAAAAA==
```

### **Syntax**

bin

### **OID**

0.9.2342.19200300.100.1.60

# K

## **keyWords**

### **Origin**

### **Definition**

Contains keywords for the entry.

For example:

```
keyWords: directory LDAP X.500
```

### **Syntax**

cis

### **OID**

## **knowledgeInformation**

### **Origin**

LDAP

### **Definition**

This attribute is not used by LDAPv3.

For example:

```
knowledgeInformation:
```

### **Syntax**

cis

### **OID**

2.5.4.2

# L

## **I (localityName)**

### **Origin**

LDAP

### **Definition**

Identifies the county, city, or other geographical area in which the entry is located or in some other way associated with.

For example:

```
localityName: Santa Clara
```

or

```
1: Santa Clara
```

### **Syntax**

cis

### **OID**

2.5.4.7

## labeledURL

### Origin

### Definition

Specifies a Uniform Resource Identifier (URI) that is relevant in some way to the entry. Values placed in the attribute should consist of a URI (currently only URLs are supported) optionally followed by one or more space characters and a label.

For example:

```
labeledURI: http://home.netscape.com
```

### Syntax

ces

### OID

1.3.6.1.4.1.250.1.57

## labeledUrl

### Origin

Netscape Messaging Server

### Definition

Specifies a Uniform Resource Locator (URL) that is an additional source of information.

For example:

```
labeledURL: http://home.netscape.com
```

### Syntax

ces (0-many)

### OID

## **lastModifiedBy**

### **Origin**

### **Definition**

Specifies the distinguished name of the last user to modify the associated entry.

For example:

```
lastModifiedby: cn=Jane Doe, ou=Quality Control, o=Airius.com
```

### **Syntax**

dn

### **OID**

0.9.2342.19200300.100.1.24

## **lastModifiedTime**

### **Origin**

### **Definition**

Defines the last time, in UTC format, that a change was made to the entry.

For example:

```
lastModifiedTime: Thursday, 22-Sep-93 14:15:00 GMT
```

### **Syntax**

is

### **OID**

0.9.2342.19200300.100.1.23

## **ldapSyntaxes**

### **Origin**

### **Definition**

Undefined.

For example:

ldapSyntaxes:

### **Syntax**

cis

### **OID**

1.3.6.1.4.1.1466.101.120.16

## **loginShell**

### **Origin**

LDAP (RFC 2307)

### **Definition**

Used by Directory Server 4.0 to implement Network Information Service. Identifies the path to the login shell.

For example:

loginshell:

### **Syntax**

ces (single)

### **OID**

1.3.6.1.1.1.1.4

# M

## **macAddress**

### **Origin**

LDAP (RFC 2307)

### **Definition**

Used by Directory Server 4.0 to implement Network Information Service. Specifies the MAC address in maximal, colon separated hex notation (for example, 00:00:92:90:ee:e2).

For example:

`macAddress:`

### **Syntax**

`cis`

### **OID**

1.3.6.1.1.1.1.22

## **mail**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Identifies a user's primary email address (the email address retrieved and displayed by "white-pages" lookup applications).

For example:

```
mail: banderson@airius.com
```

### **Syntax**

cis

### **OID**

0.9.2342.19200300.100.1.3

## **mailAccessDomain**

### **Origin**

Netscape Messaging Server

### **Definition**

Identifies one or more domains or server names, or IP addresses, from which the user can perform a POP or IMAP logon.

For example:

```
mailAccessDomain: airius.com
```

### **Syntax**

cis (0-many)

### **OID**

2.16.840.1.113730.3.1.12

## **mailAlternateAddress**

### **Origin**

NetscapeMessaging Server

### **Definition**

Identifies additional email addresses for a user. The Messaging Server supports an unlimited number of alternate email addresses for each user. For vanity domains, the Messaging Server permits open-ended email addressing.

For example:

```
mailAlternateAddress:@babs.net
```

would allow the user to receive mail sent to anyone or anything at this domain.

### **Syntax**

cis (0-many)

### **OID**

2.16.840.1.113730.3.1.13

## **mailAutoReplyMode**

### **Origin**

NetscapeMessaging Server

### **Definition**

Identifies the mail auto-reply mode for the mail user. Zero or one instances of this attribute are expected per mail user account.

Accepted values include:

- vacation: send the vacation message (contained in mailAutoReplyText attribute)
- reply: send a fixed reply (contained in the mailAutoReplyText attribute)
- echo: echo the original message with added mailAutoReplyText to the original sender

### **Syntax**

cis (0-1)

### **OID**

2.16.840.1.113730.3.1.14

# mailAutoReplyText

## Origin

Netscape Messaging Server

## Definition

Specifies the auto-reply text for a mail user. When represented in LDIF format, each line should be separated by a dollar sign (\$).

For example:

```
mailAutoReplyText:On vacation $Back in the office on Monday.
```

To represent an actual dollar sign (\$) or backslash (\) within this text, use the escaped hex values \24 and \5c respectively. For example, to represent the string:

```
The dollar ($) value can be found  
in the c:\cost file.
```

provide the string:

```
The dollar (\24) value can be found$in the c:\5ccost file.
```

## Syntax

cis (0-1) (may contain multiple lines of text with \$-encoding)

## OID

2.16.840.1.113730.3.1.15

# mailDeliveryOption

## Origin

NetscapeMessaging Server

## Definition

Specifies how mail for an account should be delivered. At least one mailDeliveryOption must be set, unless there is at least one mailForwardingAddress attribute. Accepted values include:

- mailbox: deliver to the user's POP/IMAP mailbox
- native: Unix delivery (available only for Messaging Servers running on a Unix host)
- program: program delivery (available only for Messaging Servers running on a Unix host)

For example:

```
mailDeliveryOption: mailbox
```

## Syntax

cis (0-3)

## OID

2.16.840.1.113730.3.1.16

## **mailForwardingAddress**

### **Origin**

NetscapeMessaging Server

### **Definition**

Identifies a forwarding mail address. Mail to this recipient will be forwarded to the address provided.

For example:

mailForwardingAddress:bjensen@royalairways.com

### **Syntax**

cis (0-many)

### **OID**

2.16.840.1.113730.3.1.17

## **mailHost**

### **Origin**

NetscapeMessaging Server

### **Definition**

Identifies the DNS hostname of the host on which the user's mail account resides. The value specified using this attribute must be the host's fully qualified domain name.

The Messaging Server expects one and only one instance of this attribute per mailRecipient entry, or zero or one instances of this attribute on a mailGroup entry.

The Messaging Server uses mailHost information to determine which persons in the directory have an account on the Messaging Server. The Messaging Server can also use this information to determine other Messaging Servers to transfer a message to, if the recipient is not on the local host but exists within the enterprise.

For example:

```
mailHost:mars.airius.com
```

### **Syntax**

cis (a DNS name)

### **OID**

2.16.840.1.113730.3.1.18

# mailMessageStore

## Origin

NetscapeMessaging Server

## Definition

Identifies the absolute path of the user's mail host directory that contains the message store where the user's mailbox resides. This attribute is applicable when the user's *mailDeliveryOption=mailbox*. If no instances of this attribute exist on the user's entry, then the default configured on the user's Messaging Server is used.

For example:

```
mailMessageStore:/disk2/mail
```

## Syntax

ces (0-1)

## OID

2.16.840.1.113730.3.1.19

## **mailPreferenceOption**

### **Origin**

Netscape Messaging Server

### **Definition**

Unused in Messaging Server 4.0.

Indicates a preference for inclusion of user names on mailing lists (electronic or physical). Accepted values include:

- 0: user doesn't want to be included in mailing lists.
- 1: user consents to be added to any mailing list.
- 2: user only wants to be added to mailing lists which the list provider views as related to the users professional interests.

The absence of this attribute for a person should be interpreted as if the attribute was present with value "no-list-inclusion". This attribute vaule should be interpreted by anyone using the directory to derive mailing lists.

For example:

```
mailPreferenceOption:0
```

### **Syntax**

cis

### **OID**

0.9.2342.19200300.100.1.47

## **mailProgramDeliveryInfo**

### **Origin**

Netscape Messaging Server

### **Definition**

Identifies one or more commands [in multiple instances] to be used for programmed mail delivery. This attribute is meaningful when the following conditions are true:

- program delivery has been enabled on the Messaging Server by the mail administrator
- the user's mailDeliveryOption is set to program

For example:

```
mailProgramDeliveryInfo: /usr/local/bin/procmail -f-
```

### **Syntax**

ces (0-many) (may contain multiple lines of text with \$-encoding)

### **OID**

2.16.840.1.113730.3.1.20

## **mailQuota**

### **Origin**

Netscape Messaging Server

### **Definition**

Specifies the maximum disk space in bytes that may be consumed by the user's mailbox. This attribute is applicable only if the user's mailDeliveryOption is set to mailbox.

When no mailQuota attribute is specified in the user's entry, or zero is specified, the default quota specified by nsmgDefaultMailboxQuota is used. Quotas may be specified as follows:

- -1 There is no limit is set on the user's disk space quota.
- 0 Use the default quota specified by nsmgDefaultMailboxQuota.
- *N* Where *N* is any positive number, the user's quota is that number of bytes.

For example:

```
mailQuota: 1000000
```

### **Syntax**

+int

### **OID**

2.16.840.1.113730.3.1.21

## **mailRoutingAddress**

### **Origin**

Netscape Messaging Server

### **Definition**

Attribute used by the messaging server that contains a forwarding address for a user. Used most often in conjunction with a gateway or mail server that does not recognize internet addressing.

For example, a gateway system that the MS routes to only recognizes john\_jones@notes.here.com for a particular recipient. Although jjones@here.com is also recognized, the recipient is always passed on as john\_jones@notes.here.com.

Differs from mailForwardingAddress in that the Routing Address can only be set by the administrator, and is used in the process of locating the mailHost for the user (mailForwardingAddress is only used once the mailHost has been accessed).

For example:

```
mailRoutingAddress:bjensen@gateway.arius.com
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.47

## **manager**

### **Origin**

### **Definition**

Identifies the distinguished name of the entry's manager

For example:

```
manager:cn=Jane Doe, ou=Quality Control, o=Airius.com
```

### **Syntax**

dn

### **OID**

0.9.2342.19200300.100.1.10

## **matchingRules**

### **Origin**

### **Definition**

Operational, multi-valued attribute that specifies the matching rules used in a subschema. Each value describes a single matching rule.

For example:

```
matchingRules:
```

### **Syntax**

cis (operational)

### **OID**

2.5.21.4

## matchingRuleUse

### Origin

### Definition

Operational attribute that identifies the attribute types to which a matching rule applies in a subschema.

For example:

```
matchingRuleUse: ( 2.16.840.1.113730.3.3.2.0.1 NAME  
'caseIgnoreOrderingMatch-default SYNTAX '1.3.6.1.4.1.1466.115.121.1.5'  
)
```

### Syntax

cis (operational)

### OID

2.5.21.8

## member

### Origin

LDAP

### Definition

Identifies the distinguished names for each member of the group.

For example:

```
member: cn=John Doe, o=airius.com
```

### Syntax

dn

### OID

2.5.4.31

# memberCertificateDescription

## Origin

Netscape Directory Server

## Definition

A multivalued attribute. Each value is a description, a pattern, or a filter matching the subject DN of a certificate (usually certificates used for SSL client authentication).

memberCertificateDescription matches any certificate that contains a subject DN that contains the same AVAs as the description. The description may contain multiple "ou=" AVAs. A matching DN must contain those same "ou=" AVAs, in the same order, although it may contain other AVAs (including other "ou=" AVAs) interspersed. For any other attribute type (not ou), there should be at most one AVA of that type in the description. If there are several, all but the last are ignored.

A matching DN must contain that same AVA, but no other AVA of the same type nearer the root (later, syntactically).

AVAs are considered the same if they contain the same attribute description (case-insensitive comparison) and the same attribute value (case-insensitive comparison, leading and trailing whitespace ignored, and consecutive whitespace characters treated as a single SP).

In order to be considered a member of a group with the following memberCertificateDescription, a certificate would need to include ou=x, ou=A, and o=airius but not o=company.

```
memberCertificateDescription: {ou=x, ou=A, o=company, o=airius}
```

In order to match the group's requirements, a certificate's subject dns must contain the same ou attribute types in the same order as defined in the memberCertificateDescription attribute.

## Syntax

ces

## OID

2.16.840.1.113730.3.1.199

## **memberNisNetgroup**

### **Origin**

LDAP (RFC 2307)

### **Definition**

Used by Directory Server 4.0 to implement Network Information Service.

For example:

`memberNisNetgroup:`

### **Syntax**

`cis`

### **OID**

1.3.6.1.1.1.1.13

## **memberUid**

### **Origin**

LDAP (RFC 2307)

### **Definition**

Used by Directory Server 4.0 to implement Network Information Service.

For example:

`memberUid:`

### **Syntax**

`cis`

### **OID**

1.3.6.1.1.1.1.12

## **memberURL**

### **Origin**

Netscape Directory Server

### **Definition**

Identifies an URL associated with each member of a group. Any type of labeled URL can be used.

For example:

```
memberURL: ldap://cn=jdoe, o=Airius.com
```

### **Syntax**

ces

### **OID**

2.16.840.1.113730.3.1.198

## **mgmanAllowSubscribe**

### **Origin**

Netscape Messaging Server

### **Definition**

This defines individuals or domains that are specifically allowed to subscribe to this group (all others are therefore denied).

### **Syntax**

cis

### **OID**

## **mgmanDenySubscribe**

### **Origin**

Netscape Messaging Server

### **Definition**

Defines individuals or domains that are not allowed to subscribe to this group.

### **Syntax**

cis

### **OID**

NA

## **mgmanGConfAdmin**

### **Origin**

Netscape Messaging Server

### **Definition**

List of unrestricted MLM users.

### **Syntax**

dn (0-many)

### **OID**

## **mgmanGConfDefaultInheritance**

### **Origin**

Netscape Messaging Server

### **Definition**

A comma-separated list of the attributes to inherit from the template group when creating a new group.

### **Syntax**

cis (0-1)

### **OID**

## **mgmanGConfGroupCreationUser**

### **Origin**

Netscape Messaging Server

### **Definition**

DNs of users or groups of users who are allowed to create mail groups with MLM.

### **Syntax**

dn (0-many)

### **OID**

## **mgmanGConfGroupDomains**

### **Origin**

Netscape Messaging Server

### **Definition**

List of domains used to restrict the domain portion of a mailing list email address. For example, if this attribute has the values "jazz.com" and "funk.com", then all email listaddresses created and modified through MLM must have the form of "[list]@jazz.com" or "[list]@funk.com".

For example:

```
mgmanGConfGroupDomain: jazz.com, funk.com
```

### **Syntax**

cis (0-many)

### **OID**

## **mgmanGConfGroupTemplate**

### **Origin**

Netscape Messaging Server

### **Definition**

DN of a group to use as a template in the creation of new groups.

### **Syntax**

dn (0-many)

### **OID**

## **mgmanGConfKey**

### **Origin**

Netscape Messaging Server

### **Definition**

Contains keys allowed for sorting of groups.

### **Syntax**

cis (1-many)

### **OID**

## **mgmanGConfNewGroupParent**

### **Origin**

Netscape Messaging Server

### **Definition**

The default DN under which new mail groups should be created.

### **Syntax**

dn (0-1)

### **OID**

## **mgmanGConfRemoteUserParent**

### **Origin**

Netscape Messaging Server

### **Definition**

The default DN under which non-local members of mail groups will have their corresponding "memberOfGroup" objects created.

### **Syntax**

dn (0-1)

### **OID**

## **mgmanGConfSearchAttribute**

### **Origin**

Netscape Messaging Server

### **Definition**

Contains a list of attributes that are displayed for use in the search creation tool for MLM.

### **Syntax**

cis (1-many)

### **OID**

## **mgmanGConfSearchBase**

### **Origin**

Netscape Messaging Server

### **Definition**

The DN used as the base DN in searches when the search base is not otherwise specified by context. This is expected to be the base DN of the server or the base of a branch of the server cordoned off for mail groups.

### **Syntax**

dn (0-1)

### **OID**

## **mgmanGConfSearchGroupUser**

### **Origin**

Netscape Messaging Server

### **Definition**

DNs of users or groups of users who are allowed to modify the content of mgrpDeliverTo attributes.

### **Syntax**

dn (0-many)

### **OID**

## **mgmanGConfSearchRelationship**

### **Origin**

Netscape Messaging Server

### **Definition**

This lists the relationships that are displayed in the MLM search creation tool (e.g. =, >, ~=,...).

### **Syntax**

cis (0-many)

### **OID**

## **mgmanGConfSearchTreeNode**

### **Origin**

Netscape Messaging Server

### **Definition**

Lists the LDAP elements used in displaying tree branch nodes for the MLM search creation tool (for example, ou, o).

### **Syntax**

cis (0-many)

### **OID**

## **mgmanGConfSortAttributeDirMember**

### **Origin**

Netscape Messaging Server

### **Definition**

List of attributes by which to sort individual members of this group in the MLM CGI list members page.

For example, if this attribute had "uid" as the first value and "ou" as the second value, the MLM CGI would sort directory members by uid first, and secondly by ou.

### **Syntax**

cis (0-many)

### **OID**

## **mgmanGConfSortAttributeGroupMember**

### **Origin**

Netscape Messaging Server

### **Definition**

List of attributes by which to sort group members of this group in the MLM CGI list members page.

For example, if this attribute had "uid" as the first value and "ou" as the second value, the MLM CGI would sort directory members by uid first, and secondly by ou.

### **Syntax**

cis (0-many)

### **OID**

## **mgmanGroupKey**

### **Origin**

Netscape Messaging Server

### **Definition**

Defines keys that can be used for sorting groups -- for example, a listing of all groups in a domain could be ordered by these keys (Recreational, Server Development, Client Marketing). The entries here must be among those in mgmanGConfKey.

### **Syntax**

cis

### **OID**

## **mgmanGroupStat**

### **Origin**

Netscape Messaging Server

### **Definition**

A place in the schema to store groups stats. Since writes to LDAP are slow it would be expected that writes to this attribute would be cached and scheduled to happen during periods of low load or at specified times. As such, the information in this attribute would not be "up to the second," but more likely "up to the day" or "up to the week."

### **Syntax**

ces (0-many)

### **OID**

## **mgmanHidden**

### **Origin**

Netscape Messaging Server

### **Definition**

A boolean flag specifying whether or not the group should appear in lists that are requested people other than the group owners. A true value corresponds with a hidden group. The default is false.

### **Syntax**

boolean (0-1)

### **OID**

## **mgmanIntroText**

### **Origin**

Netscape Messaging Server

### **Definition**

The intro message sent to new group members. This attribute is a proposed replacement for the problematic `introMessageFile`.

### **Syntax**

ces (0-many)

### **OID**

## **mgmanJoinability**

### **Origin**

Netscape Messaging Server

### **Definition**

In the initial MLM prototype, this contained a keyword value of "Closed," "Local," or "World." During some subsequent discussions it was pointed out that specifying an LDAP URL might be useful, so that is now supported.

The value of this attribute is a list of LDAP URLs that specify who is allowed to join the group. The effect of these URLs is additive. An extended URL syntax as used in Netscape's LDAP ACI syntax is needed to include the concepts carried by `ldap:///all` etc. The set of "keyword" ldap URLs understood by libmlm is as follows: "`ldap:///all`" which is used to refer to all authenticated users, "`ldap:///anyone`" which refers to anyone in the universe, and "`ldap:///mlmlocal`" which refers to all users MLM considers to be native to the LDAP server. (Currently, that means that the user has "`inetOrgPerson`" as an object class. The criteria used to make this distinction will be externalized and made configurable eventually.) There is little real difference between "`ldap:///anyone`" and "`ldap:///all`" within libmlm, since remote users can be considered to be authenticated.

### **Syntax**

ces (0-many)

### **OID**

## **mgmanJoinLocalType**

### **Origin**

Netscape Messaging Server

### **Definition**

In the initial MLM prototype, the attribute contained a keyword value of "DN" or "RFC822." With the introduction of the mgmemMemberOfGroup attribute and search membership becoming a primary method of group membership, "MOG" should be added to the list of keywords allowed in this attribute. "MOG" (Member Of Group, taken from the mgmemMemberOfGroup attribute) group membership is a variation of mgrpDeliverTo membership described in the mailGroup object class spec. The mailGroupManagement and mailGroupMember object classes simply build some abstractions on top of this basic membership method.

### **Syntax**

cis (0-1)

### **OID**

## **mgmanMemberVisibility**

### **Origin**

Netscape Messaging Server

### **Definition**

Like the attribute "mgmanJoinability", this attribute had keyword values for the MLM prototype, but upon later discussion it was decided that filters would be more useful here as well. Keywords were "Closed," "Local," "Member," and "World" (with a proposed, but never implemented "LocalMember").

As with mgmanJoinability, this attribute now takes URLs for its values. URLs are additive in the visibility granted. Having no URLs specified should be taken as closed visibility.

### **Syntax**

ces (0-many)

### **OID**

## **mgmemAlternateSenderAddress**

### **Origin**

Netscape Messaging Server

### **Definition**

This attribute contains a list of addresses considered to be equivalent to the address in the "mail" attribute for purposes of processing allowed senders to a mail group. This is not the same thing as MailAlternateAddress which specifies alternate ways of addressing a local user.

### **Syntax**

ces (0-many)

### **OID**

# **mgmemGroupMemberParam**

## **Origin**

Netscape Messaging Server

## **Definition**

This attribute provides a place to store email group subscription options on a per-user, per-group basis. This attribute is intended to contain values that can be edited by the object itself (a user in most cases) such as "is the subscription a digest or full feed subscription," etc. Up to one multiline attribute value per group subscription in the mgmemMemberOfGroup attribute is permitted. The first line of any attribute value contains the value of the "mail" attribute of the group the object (user) is a member of (that is, the email address of the group as found in mgmemMemberOfGroup). Additional lines would contain group options (one per line) in the form of name = value pairs. If special character or new lines are needed in the "value" part of the pair, URL (RFC 1738) encoding should be used. A newline in this attribute is represented by an unescaped '\n' octet. Blank lines are ignored, whitespace surrounding the '=' is ignored, all other whitespace may be considered as a single space if the application so chooses, if the whitespace is significant or should have its preservation guaranteed, it should be escaped.

## **Syntax**

ces (0-many)

## **OID**

NA

## **mgmemGroupServerParam**

### **Origin**

Netscape Messaging Server

### **Definition**

This attribute has the same formatting rules as mgmemGroupMemberParam. This attribute is intended to store per-user, pre-group parameters that it is inappropriate to allow the user to exercise control over. mgmemGroupMemberParam and mgmemGroupServerParam provide a location for the storage of site and implementation specific details of a mail list management system.

### **Syntax**

ces (0-many)

### **OID**

NA

## **mgmemMailUserPassword**

### **Origin**

Netscape Messaging Server

### **Definition**

User password used for mail list functions where the password may be more vulnerable to sniffing and the use of the user's regular password is undesirable. This value of this attribute would be stored using the Secure Hash Algorithm.

### **Syntax**

binary (0-many)

### **OID**

## **mgmemMemberOfGroup**

### **Origin**

Netscape Messaging Server

### **Definition**

Contains a listing of the mail groups the object is a member of, one mail group per attribute value. Entries are single line entries that contain the full RFC822 mail address of the group the object is a member of; this is the same mail address that is contained in the "mail" attribute of the mailGroup LDAP object.

### **Syntax**

cis (0-many)

### **OID**

## **mgmemRefDN**

### **Origin**

Netscape Messaging Server

### **Definition**

The attribute contains up to one LDAP URL that specifies the "home" LDAP entry of the user for remote users. This attribute would have no meaning or would be redundant for local users, and should not be used. This attribute is provided purely for informational purposes; applications should not count on being able to contact the LDAP server referenced in this attribute for anything other than displaying additional information.

### **Syntax**

ces (0-1)

### **OID**

## **mgrpAddHeader**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Provides headers (one per server instance) to be added to mailGroup messages. These must be of the form <header-type:contents>.

For example:

```
mgrpAddHeader:Reply-To: thisgroup@here.com
```

### **Syntax**

ces (0 - many)

### **OID**

Not assigned

# **mgrpAllowedBroadcaster**

## **Origin**

Netscape Messaging Server

## **Definition**

Identifies mail users allowed to send messages to the mail group. If no instances of this attribute exist on the mailGroup entry, then there are no restrictions on who can send messages to the mail group unless the mgrpAllowedDomain attribute is used.

The Messaging Server expects this attribute to contain either a distinguished name or an rfc822address. If a distinguished name is used, it must represent a mailable entry or entries of type group or groupOfUniqueNames. The distinguished name must be represented in the form of a LDAP URL as described in *RFC1959, An LDAP URL Format*.

For example:

```
mgrpAllowedBroadcaster: ldap://uid=bjensen, o=Airius.com  
mgrpAllowedBroadcaster: mailto:sys50@airius.com
```

## **Syntax**

ces

## **OID**

2.16.840.1.113730.3.1.22

## **mgrpAllowedDomain**

### **Origin**

Netscape Messaging Server

### **Definition**

Identifies domains from which users are allowed to send messages to the mail group. This attribute is a Netscape extension used by the Messaging Server to manage mailing lists. If no instances of this attribute exist on the mailGroup entry, then there are no restrictions on who can send messages to the mail group unless the mgrpAllowedBroadcaster attribute is used.

This is set by default to a wild card value. That is, a value of “airius.com” will match any user sending from “\*.airius.com”.

For example:

mgrpAllowedDomain: airius.com

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.23

## **mgrpApprovePassword**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

If set, then any message to the list must have an “Approved:(password)” header or “Approved:(password)” on the first line of the body. This header or line is stripped before sending the message to the group.

### **Syntax**

cis

### **OID**

# **mgrpBroadcasterPolicy**

## **Origin**

Netscape Messaging Server

## **Definition**

Determines special policy defining an allowedBroadcaster. Allows for one of three selections:

- `smtp_auth_required`: requires allowedBroadcasters to be SMTP Authenticated
- `cert_required`: requires allowedBroadcasters to have signed the message with a valid Certificate [that is correct for this selection only].
- `password_required`: requires that a password be sent with each message to the group (see `mgrpApprovePassword`).

For example:

```
mgrpBroadcasterPolicy: smtp_auth_required
```

## **Syntax**

`cis`

## **OID**

## **mgrpDeliverException**

### **Origin**

Netscape Messaging Server

### **Definition**

Contains DNs that will be excluded from dynamic group delivery, allowing exceptions to dynamic groups. For example, if a recipient in Sales does not want to receive mail addressed to Sales.

For example:

mgrpDeliverException: *dn=*

### **Syntax**

*cis*

### **OID**

# **mgrpDeliverTo**

## **Origin**

Netscape Messaging Server

## **Definition**

Used as an alternative method of specifying mail group membership. This attribute is a Netscape extension used by the Messaging Server to manage mailing lists. The Messaging Server expects this attribute to contain an LDAP URL using the format described in *RFC1959, An LDAP URL format*. Any entries returned by the resulting LDAP search are members of the mailing group.

For example:

```
mgrpDeliverTo: ldap:///ou=Accounting,o=Netscape,c=US??sub?(&
(objectClass=mailRecipient)(objectClass=inetOrgPerson))
```

## **Syntax**

ces (an URL)

## **OID**

2.16.840.1.113730.3.1.25

## **mgrpErrorsTo**

### **Origin**

Netscape Messaging Server

### **Definition**

Used by the Messaging Server to manage mailing lists. Identifies a mailing address to send error messages to for notification of mail delivery problems (for example, bounced mails, mailing group members lacking a mailing address). If no instances of this attribute exists on the mailGroup entry, then error messages will return to the original (envelope) mail sender.

The Messaging Server expects this attribute to contain either a distinguished name or an rfc822address. If a distinguished name is used, it must represent a mailable entry or entries of type group or groupOfUniqueNames. The distinguished name must be represented in the form of a LDAP URL as described in RFC1959, *An LDAP URL format*.

For example:

```
mgrpErrorsTo: ldap://uid=bjensen, o=Airius.com  
mgrpErrorsTo: mailto:sys50@airius.com
```

### **Syntax**

ces

### **OID**

2.16.840.1.113730.3.1.26

# **mgrpModerator**

## **Origin**

Netscape Messaging Server

## **Definition**

Identifies a mailing address to which rejected mail from a mailing list is sent.

The Messaging Server may reject mail because it is received from an unauthorized domain (as defined by the `mgrpAllowedDomain` attribute) or is received from an email address not specified in the `mgrpAllowedBroadcaster` attribute.

The Messaging Server will only forward mail to the address(es) identified by this attribute if the `mgrpMsgRejectAction` attribute includes `toModerator`. The Messaging Server expects this attribute to contain either a distinguished name or a `rfc822address`. If a distinguished name is used, it must represent a mailable entry or entries of type `group` or `groupOfUniqueNames`. The distinguished name must be represented in the form of a LDAP URL as described in *RFC1959, An LDAP URL format*.

For example:

```
mgrpErrorsTo: ldap://uid=bjensen, o=Airius.com  
mgrpErrorsTo: mailto:sys50@airius.com
```

## **Syntax**

ces (0-many)

## **OID**

2.16.840.1.113730.3.1.33

## **mgrpMsgMaxSize**

### **Origin**

Netscape Messaging Server

### **Definition**

Identifies, in bytes, the maximum size of a message that can be sent to the mail group. The Messaging Server expects zero or one instance of this attribute to exist for every mailGroup entry (if no entry then no size limit is imposed on mail to the group).

For example:

```
mgrpMsgMaxSize: 2000
```

### **Syntax**

cis (an integer)

### **OID**

2.16.840.1.113730.3.1.32

# **mgrpMsgRejectAction**

## **Origin**

Netscape Messaging Server

## **Definition**

Identifies the action to be taken when a email sent to a mail group is rejected. The Messaging Server may reject mail for the following reasons:

- it is received from an unauthorized domain (as defined by the `mgrpAllowedDomain` attribute)
- it is received from an mail address that is not a member of the `mgrpAllowedBroadcaster` attribute
- it is larger than the size permitted on `mgrpMsgMaxSize`.

The Messaging Server expects from zero to two (0-2) instances of this attribute per `mailGroup` entry. If no instances of this attribute exist on the `mailGroup` entry, then `reply` is used by default. Valid keywords for this attribute are:

- `reply`: send a failure notice to the sender. The text of the failure notice is stored on the `mgrpMsgRejectText` attribute.
- `bounce`: return the message to the sender with the comment stored on the `mgrpMsgRejectText` attribute.
- `toModerator`: forward the message to the moderator for processing. The moderator is identified by the `mgrpModerator` attribute.

For example:

```
mgrpMsgRejectAction: bounce
```

## **Syntax**

`cis`

## **OID**

2.16.840.1.113730.3.1.28

## **mgrpMsgRejectText**

### **Origin**

Netscape Messaging Server

### **Definition**

Identifies the text to be sent by the Messaging Server when mail sent to a mail group is rejected and the `mgrpMsgRejectAction` attribute is set to either bounce or reply.

The Messaging Server expects from zero to one (0-1) instances of this attribute to exist per `mailGroup` entry. Multiline text may be delimited using `$` when represented in LDIF format. If no instances of this attribute exist on the `mailGroup` entry, then the default text set in the Messaging Server is used for rejected mail.

For example:

```
mgrpMsgRejectText: The mail you have sent to the Crazyed Bikers$
mailing list has been rejected because$you are not a recognized
member of the Crazyed Bikers group.$Please contact Big Daddy Biker at
rsweeny@airius.com for information on how to become$a
crazyed biker.
```

### **Syntax**

ces

### **OID**

2.16.840.1.113730.3.1.29

## **mgrpNoDuplicateChecks**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

A boolean expression which prevents the Messaging Server from checking for duplicate delivery of a message. Improves performance for delivery of a group, with the trade-off of possibly delivering duplicate copies of messages (for example, when a message is sent to a group and a member, or when a member is duplicated as a uniqueMember and an mgrpRFC822MailMember).

### **Syntax**

cis

### **OID**

## **mgrpPassword**

### **Origin**

Netscape Messaging Server

### **Definition**

Unused.

For example:

```
mgrpPassword: AAAAAA==
```

### **Syntax**

bin

### **OID**

2.16.840.1.113730.3.1.27

## **mgrpRemoveHeader**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Provides headers (one per instance) to be removed from header of mailGroup messages (before adding mgrpAddHeader)

For example:

```
mgrpRemoveHeader:Reply-to
```

### **Syntax**

cis

### **OID**

Not assigned

## **mgrpRFC822MailMember**

### **Origin**

Netscape Messaging Server

### **Definition**

Identifies recipients of mail sent to a mailGroup that are not members of the mixed-in groupOfUniqueNames. This attribute is used to represent mail recipients that cannot be expressed as distinguished names, or who are to be sent mail from this group but who do not have the full privileges of a unique group member.

The Messaging Server expects this attribute to contain rfc822 mail addresses using the following form:

```
mgrpRFC822MailMember: bjensen@airius.com%Babs Jensen
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.30

## **mobile**

### **Origin**

### **Definition**

Identifies the entry's mobile or cellular phone number. Abbreviation: mobile

For example:

```
mobileTelephoneNumber: 415-555-4321
```

### **Syntax**

tel

### **OID**

0.9.2342.19200300.100.1.41

## **modifiersName**

### **Origin**

LDAP

### **Definition**

Contains the DN of the user who last modified an entry. If the Track Modification Time parameter is set to on, the server adds this attribute to an entry when it is modified.

For example:

```
modifiersName: cn=jdoe, o=people, o=airius.com
```

### **Syntax**

dn

### **OID**

2.5.18.4

## **modifyTimestamp**

### **Origin**

LDAP

### **Definition**

Contains the modification date for an entry. If the TrackModification Time parameter is set to true, the Directory Server adds this attribute to an entry when it is modified.

For example:

```
modifyTimestamp:19980514064150Z
```

### **Syntax**

cis

### **OID**

2.5.18.2

## **multiLineDescription**

### **Origin**

Netscape Messaging Server

### **Definition**

Provides descriptive text for a mail user. When represented in LDIF format, each line should be separated by a dollar sign (\$). The Messaging Server expects 0 or 1 occurrences of this attribute per mail account.

For example:

```
multiLineDescription: Account Administrator and$directory manager.
```

To represent an actual dollar sign (\$) or backslash (\) within this text, use the escaped hex values \24 and \5c respectively. For example, to represent the string:

```
The dollar ($) value can be found in the c:\cost file.
```

provide the string:

```
The dollar (\24) value can be found$in the c:\5ccost file.
```

### **Syntax**

cis 0-1 (may contain multiple lines of text with \$-encoding)

### **OID**

# N

## **name**

### **Origin**

LDAP

### **Definition**

Identifies the attribute subtype from which string attribute types used for naming may be formed. It is unlikely that values of this type will occur in an entry. LDAP server implementations that do not support attribute subtyping do not need to recognize this attribute in requests. Client implementations should not assume that LDAP servers are capable of performing attribute subtyping

For example:

### **Syntax**

cis

### **OID**

2.5.4.41

## **nameForms**

### **Origin**

### **Definition**

Operational, multi-valued attribute that defines the name forms used in a subschema. Each value defines one name form.

For example:

### **Syntax**

cis (operational)

### **OID**

2.5.21.7

## **namingContexts**

### **Origin**

LDAP

### **Definition**

This attribute corresponds to a naming context the server is mastering or shadowing. When the server does not master any information (for example, it is an LDAP gateway to a public X.500 directory), this attribute will be absent. When the server believes it contains the entire directory, the attribute will have a single value, and that value will be the empty string (indicating the null DN of the root). This attribute permits a client contacting a server to choose suitable base objects for searching.

For example:

```
namingContexts:
```

### **Syntax**

dn

### **OID**

1.3.6.1.4.1.1466.101.120.5

# netscapeReplicaState

## Origin

Netscape Directory Server

## Definition

This attribute is reserved for use by the Netscape Directory Server and is not included in the slapd.at.conf file. The attribute contains a replica CN and a description of the current state of a directory replication process. The states include the following:

- Idle: The synchronization system is not performing work at this time.
- Synchronizing: The system is in the process of performing a replication.
- Populating: The synchronization system is populating the consumer's directory.
- Halted: The synchronization system has stopped.
- Unknown: The state of the replication process is unknown.

For example:

```
netscapeReplicaState: dirserver.airius.com:389/o%3Dmozilla.com idle
```

## Syntax

cis

## OID

## **netshareHomeURL**

### **Origin**

Netscape Enterprise Server 4.x

### **Definition**

For example:

### **Syntax**

ces (single)

### **OID**

## **netshareServerType**

### **Origin**

Netscape Enterprise Server 4.x

### **Definition**

For example:

### **Syntax**

cis (single)

### **OID**

## **netshareHomeTheme**

### **Origin**

Netscape Enterprise Server 4.x

### **Definition**

For example:

### **Syntax**

cis (single)

### **OID**

## **netsharePrivate**

### **Origin**

Netscape Enterprise Server 4.x

### **Definition**

For example:

### **Syntax**

cis (single)

### **OID**

## **netshareMemberOf**

### **Origin**

Netscape Enterprise Server 4.x

### **Definition**

For example:

### **Syntax**

dn

### **OID**

## **netshareUIConfig**

### **Origin**

Netscape Enterprise Server 4.x

### **Definition**

For example:

### **Syntax**

bin (single)

### **OID**

## **newRdn**

### **Origin**

Netscape Directory Server

### **Definition**

Contains the new RDN (Relative Distinguished Name) of an entry which is the target of a modRDN or modDN operation.

For example:

```
newRdn: cn=Jane Doe
```

### **Syntax**

dn

### **OID**

2.16.840.1.113730.3.1.9

## **newSuperior**

### **Origin**

Netscape Directory Server

### **Definition**

Specifies the name of the entry that will become the immediate superior of the existing entry, when processing a modDN operation.

For example:

```
newSuperior: cn=Jane Doe
```

### **Syntax**

dn

### **OID**

2.16.840.1.113730.3.1.11

## **newsComponentName**

### **Origin**

### **Definition**

This attribute contains the name of a discussion (news) group. This name may be used in the distinguished name of the discussion group.

For example:

```
newsComponentName: marketing
```

### **Syntax**

dn

### **OID**

## **ngcomponent**

### **Origin**

Netscape Collabra Server

## **ngcomponent**

### **Definition**

Used by ngInfo entries to uniquely identify news groups. The format and nature of the information placed on this attribute by the Collabra Server is subject to change without notice.

The ngcomponent attributes put in place for the comp.sys.mac newsgroup would be:

```
dn: ngcomponent=mac, ngcomponent=sys, ngcomponent=comp,  
ngcomponent=., o=Airius.com  
objectclass: top  
objectclass: ngInfo  
ngcomponent=mac  
ngcomponent=sys  
ngcomponent=comp  
ngcomponent=.
```

### **Syntax**

dn

### **OID**

2.16.840.1.113730.3.1.196

## **nisMapEntry**

### **Origin**

LDAP (RFC 2307)

### **Definition**

Used by Directory Server 4.0 to implement Network Information Service.

For example:

`nisMapEntry:`

### **Syntax**

ces (single)

### **OID**

1.3.6.1.1.1.1.27

## **nisMapName**

### **Origin**

LDAP (RFC 2307)

### **Definition**

Used by Directory Server 4.0 to implement Network Information Service.

For example:

`nisMapName:`

### **Syntax**

ces

### **OID**

1.3.6.1.1.1.1.26

# nisNetgroupTriple

## Origin

LDAP (RFC 2307)

## Definition

Used by Directory Server 4.0 to implement Network Information Service.

```
nisnetgrouptriple = "(" hostname "," username "," domainname ")"
```

where:

- hostname = "" / "-" / keystack
- username = "" / "-" / keystack
- domainname = "" / "-" / keystack

X.500 servers may use the following representation of the above syntax:

```
nisNetgroupTripleSyntax ::= SEQUENCE { hostname [0] IA5String OPTIONAL,  
username [1] IA5String OPTIONAL, domainname [2] IA5String OPTIONAL }
```

## Syntax

cis

## OID

1.3.6.1.1.1.1.14

## **nsaclrole**

### **Origin**

Netsape Collabra Server

### **Definition**

Identifies the access for individual news group roles (for example, manager, poster, reader, etc). Used on ngInfo entries to identify access control for individual news groups. This attribute is used only on the branch point of the ngcomponent subtree. The format and nature of the information placed on this attribute by the Collabra Server are subject to change without notice.

For example:

```
nsaclrole: admin:aprv
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.192

## **nsAccessLog**

### **Origin**

Netscape Administration Server 4.0

### **Definition**

Specifies the location of the access log.

For example:

```
nsaccesslog: admin-serv/logs/acces
```

### **Syntax**

cis

### **OID**

2.6.840.1.113730.3.1.306

# **nsAddressBookSyncURL**

## **Origin**

Netscape Communicator 4.0

## **Definition**

This attribute contains the LDAP URL of the directory that Netscape Communicator clients should contact when synchronizing local copies of the address book for offline usage.

This root DSE attribute should be set on all replicas except the replica designated as the replica from which communicator should synchronize its address book.

This attribute is only necessary in a multiple-replica configuration, where all replicas are known by a single host name (for example, DNS roundrobin).

For example:

```
nsaddressbooksyncurl: ldap://ldap.domain.com
```

## **Syntax**

ces

## **OID**

2.16.840.1.113370.3.1.330

## **nsAdminAccessAddresses**

### **Origin**

Netscape Administration Server 4.0

### **Definition**

List of IP addresses that can access the admin server.

For example:

```
nsadminaccessaddresses:
```

### **Syntax**

```
cis
```

### **OID**

```
2.6.840.1.113730.3.1.358
```

## **nsAdminAccessHosts**

### **Origin**

Netscape Administration Server 4.0

### **Definition**

Lists the hosts that can access the admin server.

For example:

```
nsaccesshosts: *.mcom.com
```

### **Syntax**

```
cis
```

### **OID**

```
2.6.840.1.113730.3.1.357
```

## **nsAdminAccountInfo**

### **Origin**

Netscape Administration Server 4.0

### **Definition**

Reserved for future use.

For example:

```
nsadminaccountinfo:
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.363

## **nsAdminCacheLifetime**

### **Origin**

Netscape Administration Server 4.0

### **Definition**

Specifies, in seconds, the lifetime for user/task information cache.

For example:

```
nsadmincachelifetime: 120
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.362

## **nsAdminCGIWaitPid**

### **Origin**

Netscape Administration Server 4.0

### **Definition**

Reserved for future use.

For example:

```
nsadmincgiwaitpid: on
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.355

## **nsAdminDomainName**

### **Origin**

Netscape Administration Server 4.0

### **Definition**

Specifies the name of the administration domain, usually a grouping of host machines that can be administered together.

For example:

```
nsAdminDomainName: mcom.com
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.284

## **nsAdminEnableDSGW**

### **Origin**

Netscape Administration Server 4.0

### **Definition**

Used to enable and disable DSGW.

For example:

```
nsadminenabledsqw: false
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.360

## **nsAdminEnableEndUser**

### **Origin**

Netscape Administration Server 4.0

### **Definition**

Used to enable and disable end user access.

For example:

```
nsadminenableenduser: false
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.361

## **nsAdminEndUserHTMLIndex**

### **Origin**

Netscape Administration Server 4.0

### **Definition**

Used to enable and disable HTML index access for the end user.

For example:

```
nsadminenableenduserhtmlindex: [--Category:general,General][--  
Option:edit.cgi?userpasswd,Password][--  
Option:edit.cgi?userpinfo,Personal Information]
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.265

## **nsAdminGroupName**

### **Origin**

Netscape Administration Server 4.0

### **Definition**

The name of the root group for the administration server.

For example:

```
nsadmingroupname: Server Group
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.288

## **nsAdminOneACLDir**

### **Origin**

Netscape Administration Server 4.0

### **Definition**

Specifies the directory that hold local acl information. Reserved for later use.

For example:

```
nsadminoneacldir: adminacl
```

### **Syntax**

cis

### **OID**

2.6.840.1.113730.3.1.35

## **nsAdminUsers**

### **Origin**

Netscape Administration Server 4.0

### **Definition**

Specifies the uid for the admin server. The admin server runs as this uid.

For example:

```
nsadminusers: root
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.356

## **nsAdminSIEDN**

### **Origin**

Netscape Administration Server 4.0

### **Definition**

Specifies the administration URL location within the admin group for a machine. Stored under the *o=netscaperoot* suffix for each admin group branch.

For example:

`nsAdminuSIEDN:`

### **Syntax**

`cis`

### **OID**

## **nsBaseDN**

### **Origin**

Netscape Administration Server 4.0

### **Definition**

The base DN of the user and group directory server.

For example:

`nsbasedn: o=mcom.com`

### **Syntax**

`nsbasedn: o=mcom.com`

### **OID**

2.16.840.1.113730.3.1.277

## **nsBindDN**

### **Origin**

Netscape Administration Server 4.0

### **Definition**

The bind DN for the user and group directory server.

For example:

```
nsbinddn: uid=jdoe, ou=People, o=mcom.com
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.278

## **nsBindPassword**

### **Origin**

Netscape Administration Server 4.0

### **Definition**

The bind password for the user and group directory server. The ginddn and bindpassword configured here should have only read search privileges.

For example:

```
nsbindpassword: <password>
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.279

## **nsBuildNumber**

### **Origin**

Netscape Administration Server 4.0

### **Definition**

The internal build version number for the product.

For example:

```
nsbuildnumber: 98.184.0025
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.294

## **nsBuildSecurity**

### **Origin**

Netscape Administration Server 4.0

### **Definition**

Security level of the build version.

For example:

```
nsbuildsecurity: domestic
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.299

## **nsCalAccess**

### **Origin**

Netscape Calendar Server

### **Definition**

Defines whether a calendar user, administrator, or resource should be allowed or denied access to the Calendar Server. This attribute is reserved for future use.

For example:

```
nsCalAccess: allow
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.112

## **nsCalAccessDomain**

### **Origin**

Netscape Calendar Server

### **Definition**

Contains the Internet domain or IP address from which the calendar user, administrator, or resource is allowed to access calendar data. This attribute is reserved for future use.

For example:

```
nsCalAccessDomain: airius.com
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.113

## **nsCalAdmd**

### **Origin**

Netscape Calendar Server

### **Definition**

The attribute contains an X.400 Administration Management Domain Name.

For example:

```
nsCalAdmd: telemail
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.114

## **nsCalDefaultNoteReminder**

### **Origin**

Netscape Calendar Server

### **Definition**

Defines the type (if any) of note reminder sent to a calendar user. The type of reminder can be none (0), visual (1), or visual and audible (2). The Length of the reminder defines the number of minutes before the note expires that the reminder should be sent to the user. The format is type:minutes.

For example:

```
nsCalDefaultNoteReminder: 1:10
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.11

## **nsCalDefaultReminder**

### **Origin**

Netscape Calendar Server

### **Definition**

Defines the type (if any) of event reminder sent to calendar event attendees. The type of reminder can be none (0), visual (1), or visual and audible (2). The Length of the reminder defines the number of minutes before the event that the reminder should be sent to event attendees.

For example:

```
nsCalDefaultReminder: 1:10
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.116

## **nsCalDefaultTaskReminder**

### **Origin**

Netscape Calendar Server

### **Definition**

Defines the type (if any) of task reminder sent to a calendar user. The type of reminder can be none (0), visual (1), or visual and audible (2). The Length of the reminder defines the number of minutes before the task is due that the reminder should be sent to the user.

For example:

nsCalDefaultTaskReminder: 1:10

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.117

# nsCalDisplayPrefs

## Origin

Netscape Calendar Server

## Description

Contains the display preferences for a calendar user or resource. The syntax of this attribute is

<Flags:StartDay:EndDay:WeekStart:TimeIncrement:ActiveDays:TimeFormat>,

where

- Flags is no longer used.
- StartDay is the time in minutes to start the day display.
- EndDay is the time in minutes to end the day display.
- WeekStart specifies the first day of the week displayed in the Calendar client, usually Sunday or Monday.
- TimeIncrement defines the time increment displayed in minutes.
- ActiveDays specifies which days to display, for example, weekdays only.
- TimeFormat specifies the time format (AM/PM or 24 hour) to display.

In the following example, 4 represents flags and is not used. The StartDay value (480) is equivalent to 8am, EndDay (1140) is 7pm, WeekStart (0) is Sunday, the TimeIncrement is 15 minutes, the ActiveDays value is set to all, and the TimeFormat is 24 hour.

For example:

nsCalDisplayPrefs: 4:480:1140:0:15:127:

## Syntax

cis

## OID

2.16.840.1.113730.3.1.118

## **nsCalFlags**

### **Origin**

Netscape Calendar Server

### **Definition**

Reserved for future use.

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.119

## **nsCalHost**

### **Origin**

Netscape Calendar Server

### **Definition**

The attribute contains the hostname or IP address of the computer hosting the Calendar Server.

For example:

```
nsCalHost: calserver.airius.com
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.120

## **nsCalLanguageId**

### **Origin**

Netscape Calendar Server

### **Definition**

The attribute defines the language in which a user, administrator, or resource prefers to receive email notification.

For example:

```
nsCalLanguageId: english
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.121

## **nsCalNodeAlias**

### **Origin**

Netscape Calendar Server

### **Definition**

The attribute contains the mnemonic name of the node on which a calendar user's information is stored.

For example:

```
nsCalNodeAlias: node10000
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.122

## **nsCalNotifMechanism**

### **Origin**

Netscape Calendar Server

### **Definition**

Specifies the mechanism used to notify calendar event attendees (usually email). Acceptable values for this attribute are 1 and 0 where 1 means that notification is enabled, and 0 means that notification is disabled.

For example:

```
nsCalNotifMechanism: 0
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.123

## **nsCalOperatingPrefs**

### **Origin**

Netscape Calendar Server

### **Definition**

The attribute defines the operating preferences for a user or resource. Reserved for future use.

For example:

```
nsCalOperationPrefs:
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.124

## **nsCalOrgUnit2**

### **Origin**

Netscape Calendar Server

### **Definition**

The attribute contains the X.400 Organization Unit 2 (OU2) for a user or administrator.

For example:

```
nsCalOrgUnit2: marketing
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.125

## **nsCalOrgUnit3**

### **Origin**

Netscape Calendar Server

### **Definition**

The attribute contains the X.400 Organization Unit 3 (OU3) for a user or administrator.

For example:

```
nsCalOrgUnit3: sales
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.126

## **nsCalOrgUnit4**

### **Origin**

Netscape Calendar Server

### **Definition**

The attribute contains the X.400 Organization Unit 4 (OU4) for a user or administrator.

For example:

```
nsCalOrgUnit4: engineering
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.127

## **nsCalPasswordRequired**

### **Origin**

Netscape Calendar Server

### **Definition**

Specifies whether a calendar user must supply a password to access calendar data. Acceptable values are 1 and 0; where 1 means a password is required, and 0 means that no password is required.

For example:

```
nsCalPasswordRequired: 1
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.128

## **nsCalPrmd**

### **Origin**

Netscape Calendar Server

### **Definition**

The attribute contains the X.400 Private Management Domain Name for a user or administrator.

For example:

```
nsCalPrmd: airius
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.129

## **nsCalRefreshPrefs**

### **Origin**

Netscape Calendar Server

### **Definition**

The attribute defines whether the user's preferences should be refreshed and how often. The syntax for this attribute is on/off:minutes. Accepted values for on/off:

- 1: preferences will be refreshed
- 0: preferences won't be refreshed.

If the on/off value is set to 1, the refresh interval is entered in minutes.

For example:

```
nsCalRefreshPrefs: 0:0
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.13

## **nsCalResourceCapacity**

### **Origin**

Netscape Calendar Server

### **Definition**

The attribute defines the capacity of a resource, for example, a conference room.

For example:

```
nsCalResourceCapacity: 65
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.131

## **nsCalResourceNumber**

### **Origin**

Netscape Calendar Server

### **Definition**

The attribute contains the resource's identification number.

For example:

```
nsCalResourceNumber: 6725
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.132

## **nsCalServerVersion**

### **Origin**

Netscape Calendar Server

### **Definition**

Contains the version number of the Calendar Server hosting the calendar user's data.

For example:

```
nsCalServerVersion: 1.0
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.13

## **nsCalSysopCanWritePassword**

### **Origin**

Netscape Calendar Server

### **Definition**

The attribute specifies whether the Calendar Server administrator can overwrite user, resource, and other administrator passwords. Accepted values:

- 1: the administrator can overwrite passwords
- 0: the administrator cannot overwrite passwords.

For example:

```
nsCalSysopCanWritePassword: 1
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.13

## **nsCalTimezone**

### **Origin**

Netscape Calendar Server

### **Definition**

The attribute contains the current timezone in which the entry is located.

For example:

```
nsCalTimezone: PST
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.135

## **nsCalXItemId**

### **Origin**

Netscape Calendar Server

### **Definition**

The attribute contains a unique identifier for an nsCalendarObject represented in the directory. This identification is composed of the identification number of the node on which the calendar user, administrator, or resource's data is stored, and the identification number of the calendar user, administrator, or resource. The format should be NodeId,ItemId.

For example:

```
nsCalXItemId: 123,6547
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.136

## **nscreator**

### **Origin**

Netscape Collabra Server

### **Definition**

This attribute is a Netscape extension to the standard LDAP schema that is used by the Collabra Server on ngInfo entries to identify a news group creator's uid.

Identifies the creator of a news group. The format and nature of the information placed on this attribute by the Collabra Server is subject to change without notice.

For example:

```
nscreator: admin
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.195

## **nsConfigRoot**

### **Origin**

Netscape Administration Server 4.0

### **Definition**

The location of the product installation.

For example:

```
nsconfigroot: C:\Netscape\Server4
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.289

## **nsCertfile**

### **Origin**

Netscape Administration Server 4.0

### **Definition**

Identifies the certificate database used by the SSL-enabled server.

For example:

```
nscertfile: /netscape/alias/sie-cert7.db
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.309

## **nsClassname**

### **Origin**

Netscape Administration Server 4.0

### **Definition**

Used by the Netscape Console to load plugin information. This value can take on of the following forms:

- `JavaClassName` (specifies loading the java class from the current classpath)
- `JavaClassName@JarName` (specifies loading the java class from the specified jar file)
- `JavaClassName@JarName@NetscapeAdminServerSIE_DN` (specifies loading the java class from the specified jar file and getting the jar file from the specified Netscape admin server if the jar file is not in the local path)
- `JavaClassName@JarName@HttpURL` (specifies loading the java class from the specified jar file and getting the jar file from the specified HTTP URL if the jar file is not in the local path)

For example:

```
nsclassname: myClass
```

```
nsclassname: myClass@myJar.jar
```

```
nsclassname: myClass@myJar.jar@cn=admin-server-machine,cn=Netscape  
Administration Server, cn=Server Group, cn=machine.mcom.com,  
ou=mcom.com, o=NetscapeRoot
```

```
nsclassname: myClass@myJar.jar@http://mymachine/myJar.jar
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.325

## **nsDefaultAcceptLanguage**

### **Origin**

Netscape Administration Server 4.0

### **Definition**

Specifies the default language to use when the client does not send language information.

For example:

```
nsdefaultacceptlanguage: en
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.307

## **nsDefaultMaxDeptSize**

### **Origin**

Netscape Delegated Administrator 4.0

### **Definition**

Specifies the default size (in number of users) of a newly created department managed by delegated administrator.

For example:

```
nsDefaultMaxDeptSize: 20
```

### **Syntax**

cis

### **OID**

## **nsDefaultObjectClass**

### **Origin**

Netscape Administration Server 4.0

### **Definition**

Used by Netscape Console to create a default object class for a newly created entry. This attribute does not affect directory server object creation.

For example:

```
nsdefaultobjectclass: person
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.272

## **nsDeleteClassName**

### **Origin**

Netscape Administration Server 4.0

### **Definition**

When a value is defined, used by the Netscape console to delete the specified object class from the directory.

For example:

```
nsdeleteclassname: com.netscape.admin.dirserv.deleteUser@ds40.jar
```

### **Syntax**

dn

### **OID**

2.16.840.1.113730.3.1.364

## **nsDirectoryInfoRef**

### **Origin**

Netscape Administration Server 4.0

### **Definition**

Identifies the DN of the shared user and group directory location.

For example:

```
nsdirectoryinfoRef: cn=Server Group, cn=shanghai.mcom.com,
ou=mcom.com, o=netscape
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.282

## **nsDirectoryURL**

### **Origin**

Netscape Administration Server 4.0

### **Definition**

Specifies the LDAP URL of the user and group directory location.

For example:

```
nsdirectoryurl: ldap://host:port/o=mcom.com
```

### **Syntax**

ces

### **OID**

2.16.840.1.113730.3.1.283

## **nsDisplayName**

### **Origin**

Netscape Administration Server 4.0

### **Definition**

Specifies the display name for the custom view.

For example:

```
nsdisplayname: My Custom View
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.274

## **nsErrorLog**

### **Origin**

Netscape Administration Server 4.0

### **Definition**

Specifies the location for the error log file.

For example:

```
nserrolog: admin-serv/logs/error
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.304

## **nses4av**

### **Origin**

Netscape Enterprise Server 4.0

### **Definition**

An opaque binary data blob (a marshalled CORBA Any). Cannot be searched or examined.

For example:

nses4av:

### **Syntax**

bin

### **OID**

## **nses4an**

### **Origin**

Netscape Enterprise Server 4.0

### **Definition**

Specifies the name of the attribute.

For example:

nses4an:

### **Syntax**

ces

### **OID**

## **nses4nn**

### **Origin**

Netscape Enterprise Server 4.0

### **Definition**

Specifies the name of the node.

For example:

```
nses4nn:
```

### **Syntax**

```
ces
```

### **OID**

## **nsExecRef**

### **Origin**

Netscape Administration Server 4.0

### **Definition**

Indicates the CGI that represents the task.

For example:

```
nsexecref: config
```

### **Syntax**

```
cis
```

### **OID**

```
2.16.840.1.113730.3.1.323
```

## **nsExpirationDate**

### **Origin**

Netscape Administration Server 4.0

### **Definition**

The expiration date for the product. May not be used by the product itself.

For example:

```
nsexpirationdate: 907201064
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.298

## **nsflags**

### **Origin**

Netscape Collabra Server

### **Definition**

Reserved for future use.

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.194

## **nsGroupRDNComponent**

### **Origin**

Netscape Administration Server 4.0

### **Definition**

Specifies the default RDN for a new group object. The default value is “cn”.

For example:

```
nsgrouprdncomponent: cn
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.269

## **nsHardwarePlatform**

### **Origin**

Netscape Administration Server 4.0

### **Definition**

The hardware platform for a host machine.

For example:

```
nshardwareplatform: intel
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.286

## **nsHelpRef**

### **Origin**

Netscape Administration Server 4.0

### **Definition**

Indicates the help URL for the task.

For example:

```
nshelpref: admin/certrequest.html
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.322

## **nsHostLocation**

### **Origin**

Netscape Administration Server 4.0

### **Definition**

Describes the physical location of the host machine.

For example:

```
nshostlocation: Nadine's cube
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.285

# nsIndexType

## Origin

Netscape Directory Server 4.0

## Definition

One of the following values can be provided:

- eq: Equality index. Used for searches that return the entries containing an attribute that is set to a specific value.
- pres: Presence index. Used for searches that return every entry that contains the indexed attribute.
- sub: Substring index. Used for searches that return entries containing a specified substring.
- approx: Approximate index. used only for string values such as commonName or givenName. Allows for phonetic, or "sounds-like," searching.
- none

For example:

```
nsIndexType: eq
```

## Syntax

```
cis
```

## OID

```
2.16.840.1.113730.3.1.327
```

## **nsInstalledLocation**

### **Origin**

Netscape Administration Server 4.0

### **Definition**

Specifies the location of the product installation.

For example:

nsinstalledlocation: C:\Netscape\Server

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.297

## **nsLdapSchemaVersion**

### **Origin**

Netscape Administration Server 4.0

### **Definition**

Specifies the schema version for an individual application. This information can be used to determine if a dynamic schema update is needed. Should match the value of nsProductVersion attribute.

For example:

nsldapschemaversion: 4.0

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.302

## **nsJarFilename**

### **Origin**

Netscape Administration Server 4.0

### **Definition**

Identifies the name of the jar file for the nsClassname Reserved for future use.

For example:

nsjarfilename:

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.324

## **nsKeyfile**

### **Origin**

Netscape Administration Server 4.0

### **Definition**

Identifies the key database used by the SSL-enabled server.

For example:

nskeyfile: netscape/alias/sie-key3.db

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.310

## **nsLicensedFor**

### **Origin**

Netscape Directory Server

Identifies the Netscape server the user is licensed to use. The Netscape Administration Server expects each nsLicenseUser entry to contain zero or more instances of this attribute. Valid keywords for this attribute are currently:

- mail: the user is a licensed client of the Messaging Server.
- new: the user is a licensed client of the Collabra Server.
- slapd: the user is a licensed client of the Directory Server.
- cal: the user is a licensed client of the Calendar Server.

For example:

```
nsLicensedFor: slapd
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.36

## **nsLicenseEndTime**

### **Origin**

Netscape Directory Server

### **Definition**

Reserved for future use.

For example:

```
nsLicenseEndTime:
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.38

## **nsLicenseStartTime**

### **Origin**

Netscape Directory Server

### **Definition**

Reserved for future use.

For example:

`nsLicenseStartTime:`

### **Syntax**

`cis`

### **OID**

`2.16.840.1.113730.3.1.37`

## **nsLIData**

### **Origin**

Netscape Mission Control Desktop Location Independence

### **Definition**

### **Syntax**

`bin`

### **OID**

`2.16.840.1.113730.3.1.402`

## **nsLiElementType**

### **Origin**

Netscape Mission Control Desktop Location Independence

### **Definition**

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.403

## **nsLIPrefs**

### **Origin**

Netscape Mission Control Desktop Location Independence

### **Definition**

### **Syntax**

ces

### **OID**

2.16.840.1.113730.3.1.400

## **nsLIPfileName**

### **Origin**

Netscape Mission Control Desktop Location Independence

### **Definition**

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.401

## **nsLIPtrURL**

### **Origin**

Netscape Mission Control Desktop Location Independence

### **Definition**

### **Syntax**

ces

### **OID**

2.16.840.1.113730.3.1.399

## **nsLIServerType**

### **Origin**

Netscape Mission Control Desktop Location Independence

### **Definition**

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.404

## **nsLIVersion**

### **Origin**

Netscape Mission Control Desktop Location Independence

### **Definition**

### **Syntax**

int

### **OID**

2.16.840.1.113730.3.1.405

## **nsLogSuppress**

### **Origin**

Netscape Administration Server 4.0

### **Definition**

Used to suppress logging while task is being executed.

For example:

```
nslogsuppress: true
```

### **Syntax**

### **OID**

## **nsMCAddrBookLastnameFirst**

### **Origin**

Netscape Mission Control Desktop Mail Client

### **Definition**

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.

## **nsMCAAllowAtSignInUserName**

### **Origin**

Netscape Mission Control Desktop Mail Client

### **Definition**

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.

## **nsMCAItMailDll**

### **Origin**

Netscape Mission Control Desktop Mail Client

### **Definition**

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.

## **nsMCAutoCompleteEnabledServerName**

### **Origin**

Netscape Mission Control Desktop Mail Client

### **Definition**

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.

## **nsMCAutoCompleteShowDlgForMultipleMatches**

### **Origin**

Netscape Mission Control Desktop Mail Client

### **Definition**

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.

## **nsMCAutoCompleteUseAddressBooks**

### **Origin**

Netscape Mission Control Desktop Mail Client

### **Definition**

### **OID**

2.16.840.1.113730.3.1.

## **nsMCAutoCompleteUseDirectory**

### **Origin**

Netscape Mission Control Desktop Mail Client

### **Definition**

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.

## **nsMCAutoQuote**

### **Origin**

Netscape Mission Control Desktop Mail Client

### **Definition**

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.

## **nsMCCitationColor**

### **Origin**

Netscape Mission Control Desktop Mail Client

### **Definition**

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.

## **nsMCCConfirmMoveFoldersToTrash**

### **Origin**

Netscape Mission Control Desktop Mail Client

### **Definition**

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.

## **nsMCCryptoSignOutgoingMail**

### **Origin**

Netscape Mission Control Desktop Mail Client

### **Definition**

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.

## **nsMCCryptoSignOutgoingNews**

### **Origin**

Netscape Mission Control Desktop Mail Client

### **Definition**

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.

## **nsMCDefaultHTMLAction**

### **Origin**

Netscape Mission Control Desktop Mail Client

### **Definition**

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.

## **nsMCEncryptOutgoingMail**

### **Origin**

Netscape Mission Control Desktop Mail Client

### **Definition**

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.

## **nsMCFixedWidthMessages**

### **Origin**

Netscape Mission Control Desktop Mail Client

### **Definition**

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.

## **nsMCForwardMessageMode**

### **Origin**

Netscape Mission Control Desktop Mail Client

### **Definition**

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.

## **nsMCImapAutoSubscribeOnOpen**

### **Origin**

Netscape Mission Control Desktop Mail Client

### **Definition**

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.

## **nsMCImapMimePartsOnDemand**

### **Origin**

Netscape Mission Control Desktop Mail Client

### **Definition**

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.

## **nsMCImapMimePartsOnDemandThreshold**

### **Origin**

Netscape Mission Control Desktop Mail Client

### **Definition**

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.

## **nsMCImapServer**

### **Origin**

Netscape Mission Control Desktop Mail Client

### **Definition**

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.

## **nsMCImapServerProperties**

### **Origin**

Netscape Mission Control Desktop Mail Client

### **Definition**

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.

## **nsMCI IncorporateReturnReceipt**

### **Origin**

Netscape Mission Control Desktop Mail Client

### **Definition**

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.

## **nsMCLdapServer**

### **Origin**

Netscape Mission Control Desktop Mail Client

### **Definition**

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.

## **nsMCLdapServerProperties**

### **Origin**

Netscape Mission Control Desktop Mail Client

### **Definition**

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.

## **nsMCLimitMessageSize**

### **Origin**

Netscape Mission Control Desktop Mail Client

### **Definition**

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.

## **nsMCMaxMessageSize**

### **Origin**

Netscape Mission Control Desktop Mail Client

### **Definition**

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.

## **nsMCMMDNReportEnabled**

### **Origin**

Netscape Mission Control Desktop Mail Client

### **Definition**

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.

## **nsMCMDNReportNotInToCC**

### **Origin**

Netscape Mission Control Desktop Mail Client

### **Definition**

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.

## **nsMCMDNReportOther**

### **Origin**

Netscape Mission Control Desktop Mail Client

### **Definition**

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.

## **nsMCMReportOutsideDomain**

### **Origin**

Netscape Mission Control Desktop Mail Client

### **Definition**

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.

## **nsMCNavCrossesFolders**

### **Origin**

Netscape Mission Control Desktop Mail Client

### **Definition**

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.

## **nsMCNewsKeepCount**

### **Origin**

Netscape Mission Control Desktop Mail Client

### **Definition**

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.

## **nsMCNewsKeepDays**

### **Origin**

Netscape Mission Control Desktop Mail Client

### **Definition**

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.

## **nsMCNewsKeepMethod**

### **Origin**

Netscape Mission Control Desktop Mail Client

### **Definition**

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.

## **nsMCNewsKeepOnlyUnread**

### **Origin**

Netscape Mission Control Desktop Mail Client

### **Definition**

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.

## **nsMCNewsRemoveBodiesByAge**

### **Origin**

Netscape Mission Control Desktop Mail Client

### **Definition**

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.

## **nsMCNewsRemoveBodiesDays**

### **Origin**

Netscape Mission Control Desktop Mail Client

### **Definition**

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.

## **nsMCNewsTimeout**

### **Origin**

Netscape Mission Control Desktop Mail Client

### **Definition**

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.

## **nsMCPlaySound**

### **Origin**

Netscape Mission Control Desktop Mail Client

### **Definition**

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.

## **nsMCPop3GetsNewMail**

### **Origin**

Netscape Mission Control Desktop Mail Client

### **Definition**

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.

## **nsMCPopServer**

### **Origin**

Netscape Mission Control Desktop Mail Client

### **Definition**

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.

## **nsMCPopServerProperties**

### **Origin**

Netscape Mission Control Desktop Mail Client

### **Definition**

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.

## **nsMCPromptPurgeThreshold**

### **Origin**

Netscape Mission Control Desktop Mail Client

### **Definition**

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.

## **nsMCPurgeThreshold**

### **Origin**

Netscape Mission Control Desktop Mail Client

### **Definition**

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.

## **nsMCQuotedSize**

### **Origin**

Netscape Mission Control Desktop Mail Client

### **Definition**

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.

## **nsMCQuotedStyle**

### **Origin**

Netscape Mission Control Desktop Mail Client

### **Definition**

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.

## **nsMCReceiptRequestHeaderType**

### **Origin**

Netscape Mission Control Desktop Mail Client

### **Definition**

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.

## **nsMCRememberSelectedMessage**

### **Origin**

Netscape Mission Control Desktop Mail Client

### **Definition**

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.

## **nsMCReplyOnTop**

### **Origin**

Netscape Mission Control Desktop Mail Client

### **Definition**

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.

## **nsMCRequestReturnReceipt**

### **Origin**

Netscape Mission Control Desktop Mail Client

### **Definition**

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.

## **nsMCReuseMessageWindow**

### **Origin**

Netscape Mission Control Desktop Mail Client

### **Definition**

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.

## **nsMCSearchServer**

### **Origin**

Netscape Mission Control Desktop Mail Client

### **Definition**

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.

## **nsMCSearchSubFolders**

### **Origin**

Netscape Mission Control Desktop Mail Client

### **Definition**

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.

## **nsMCSkipDirectoryIfLocalMatchFound**

### **Origin**

Netscape Mission Control Desktop Mail Client

### **Definition**

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.

## **nsMCSmtpServer**

### **Origin**

Netscape Mission Control Desktop Mail Client

### **Definition**

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.

## **nsMCSmtpUserName**

### **Origin**

Netscape Mission Control Desktop Mail Client

### **Definition**

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.

## **nsMCSmtpUseSSL**

### **Origin**

Netscape Mission Control Desktop Mail Client

### **Definition**

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.

## **nsMCSpellCheckBeforeSend**

### **Origin**

Netscape Mission Control Desktop Mail Client

### **Definition**

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.

## **nsMCStrictlyMime**

### **Origin**

Netscape Mission Control Desktop Mail Client

### **Definition**

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.

## **nsMCUseAltMail**

### **Origin**

Netscape Mission Control Desktop Mail Client

### **Definition**

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.

## **nsMCUseAltMailForNews**

### **Origin**

Netscape Mission Control Desktop Mail Client

### **Definition**

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.

## **nsMCUseMapiServer**

### **Origin**

Netscape Mission Control Desktop Mail Client

### **Definition**

### **OID**

2.16.840.1.113730.3.1.

## **nsMCWarnForwardEncrypted**

### **Origin**

Netscape Mission Control Desktop Mail Client

### **Definition**

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.

## **nsMCWarnReplyUnencrypted**

### **Origin**

Netscape Mission Control Desktop Mail Client

### **Definition**

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.

## **nsMCWrapLength**

### **Origin**

Netscape Mission Control Desktop Mail Client

### **Definition**

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.

## **nsMCWrapLongLines**

### **Origin**

Netscape Mission Control Desktop Mail Client

### **Definition**

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.

## **nsMaxDepts**

### **Origin**

Netscape Delegated Administrator 4.0

### **Definition**

Specifies the maximum number of departments that may be created.

### **Syntax**

cis

### **OID**

## **nsMaxUsers**

### **Origin**

Netscape Delegated Administrator 4.0

### **Definition**

Specifies the maximum number of user accounts that may be created.

For example:

```
nsMaxUsers:1000
```

### **Syntax**

cis

### **OID**

## **nsMatchingRule**

### **Origin**

Netscape Directory Server 4.0

Provides a value for strings representing matching rule OIDs.

A matching rule index (or International index) is used for searches that return entries sorted according to a collation order for a particular locale. In the example below, the collation order OID associated with the Japanese locale (“ja” language tag) is specified.

For more information, refer to the *Directory Server 4.0 Administrator's Guide*.

For example:

```
nsMatchingRule: 2.16.840.1.113730.3.3.2.28.1
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.328

## **netscapeMDSuffix**

### **Origin**

Netscape Directory Server 4.0

### **Definition**

Describes the DN of the entry at the top of the machine data subtree for the server. Appears in the root DSE.

For example:

```
netscapeMDSuffix:
```

### **Syntax**

dn

### **OID**

2.16.840.1.113730.3.1.212



# Attributes: nsmmsgAccountURL— nsmmsgVersion

## **nsmmsgAccountURL**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Specifies the account URL, the location of the server administration resource for end users.

For example:

```
nsmmsgAccountURL: http://host:adminport/user
```

### **Syntax**

URL

### **OID**

NA

## **nsmmsgAddDeliveredTo**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Instructs the server to append the original address to the message header.

When mail is sent to a recipient in a virtual domain (for example "joebob.com" is actually a personal domain of "joe\_bob@isp.com"), the original address will be appended to the message in the "Delivered To" header.

Default setting:

No

### **Syntax**

boolean (yes/no)

### **OID**

NA

## **nsmgAddHeaders**

### **Origin**

Netscape Directory Server 4.1

### **Definition**

Describes header and other content that an administrator wishes to add to mailing list messages. You can have one header per instance of the attribute. These headers are added to any message where the header is rewritten by this MTA. That is, any message in which this is the first MTA to see the message. Headers are not added to messages forwarded by another MTA. (Use `nsmgDeleteHeaders` to remove headers.)

Note that this attribute is case-sensitive (`ces`) because the contents of the header being added might be case sensitive even though header names themselves are never case-sensitive.

For example, to add the list for all replies, and to add a new Subject:

```
nsmgAddHeader:Reply-To:mylist@here.com  
nsmgAddHeader:Subject:This is a msg from the list mylist
```

Note that in the example shown above, the specified Subject line will get added to any previously existing Subject unless the original is stripped off with `nsmgDeleteHeaders`.

### **Syntax**

`ces` (string list with `$` separator)

### **OID**

2.16.840.1.113730.3.1.

## **nsmmsgAdmins**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Contains a list of userIDs that have administration access.

For example:

`nsmmsgAdmins:`

### **Syntax**

`cis` (user ID list)

### **OID**

NA

## **nsmmsgAlias**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

For internal use only.

For example:

`logfile.logname`

### **Syntax**

`cis` (logname)

### **OID**

NA

## **nsmmsgAllowAdminProxy**

### **Origin**

Netscape Directory Server 4.1

### **Definition**

Specifies whether the admin is allowed to proxy authenticate.

Default setting:

no

### **Syntax**

boolean

### **OID**

n/a

## **nsmmsgAllowAnonymousLogin**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Used to permit anonymous login.

Default setting:

No

### **Syntax**

boolean

### **OID**

NA

## **nsmmsgAllowBareLF**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Used in 3.x., unused in 4.1.

### **Syntax**

boolean

### **OID**

NA

## **nsmmsgAllowBDAT**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Instructs the server to accept BDAT commands from an SMTP caller and to advertise this capability in the EHLO program.

Default setting:

Yes

### **Syntax**

boolean

### **OID**

NA

## **nsmmsgAllowEHLO**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Instructs the server to allow an EHLO command from an SMTP caller.

Default setting:

Yes

### **Syntax**

boolean

### **OID**

NA

## **nsmmsgAllowETRN**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Used to accept ETRN commands from an SMTP caller and to advertise this capability in the EHLO response.

Default setting

Yes

### **Syntax**

boolean

### **OID**

NA

## **nsmgAllowEXPN**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Used to accept EXPN commands from an SMTP caller and to advertise this capability in the EHLO response.

Default setting

Yes

### **Syntax**

boolean

### **OID**

NA

## **nsmgAllowHELP**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Used to accept HELP commands from an SMTP caller and to advertise this capability in the EHLO response.

Default setting:

Yes

### **Syntax**

boolean

### **OID**

NA

## **nsmmsgAllowONEX**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Used to accept ONEX commands from an SMTP caller and to advertise this capability in the EHLO response.

Default setting:

Yes

### **Syntax**

boolean

### **OID**

NA

## **nsmmsgAllowSIZE**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Used to enable the SIZE extension in the "MAIL FROM:" header, and to advertise this capability in the EHLO response.

Note that this attribute must be set to "Yes" in order for mail size restrictions to be in effect.

Default setting:

Yes

### **Syntax**

boolean

### **OID**

NA

## **nsmmsgAllowVERB**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

This attribute is no longer used with Messaging Server 4.1

Default setting:

Yes

### **Syntax**

boolean

### **OID**

NA

## **nsmmsgAllowVRFY**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Used to accept VRFY commands from an SMTP caller and to advertise this capability in the EHLO response.

Default setting:

Yes

### **Syntax**

boolean

### **OID**

NA

## **nsmmsgAltQueues**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Specifies the directory paths for alternate queue directories.

For example:

```
nsmmsgaltqueues: /var/spool/suitespot/msg_server1/altqueue
```

### **Syntax**

cis (comma-separated directory paths)

### **OID**

NA

## **nsmmsgAlwaysQueue**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Determines whether to always queue outgoing messages.

Default setting:

No

### **Syntax**

boolean

### **OID**

NA

## **nsmmsgAuthCacheSize**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Specifies, in bytes, the size of the login cache. Each entry requires approximately 60 bytes.

Default setting:

10000

### **Syntax**

+int

### **OID**

NA

## **nsmmsgAuthCacheTTL**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Specifies, in seconds, the cache entry TTL.

Default setting:

900

### **Syntax**

+int

### **OID**

NA

# **nsmgAuthMailDomain**

## **Origin**

Netscape Messaging Server 4.0

## **Definition**

Specifies domains that must have SMTP authentication in order for the server to accept mail coming from those domains.

Must be specified as an IP address. Partial addresses formed from the first one, two, or three octets are allowed (since wildcard asterisks are assumed, they should not be specified). When using partial addresses, if the last octet you specify has only one or two digits you must include the dot that ends that octet. Exceptions can be entered by preceding the IP address with an exclamation point (!). A bit mask can be entered after the restricted IP address (separated by a tab).

For example:

```
nsmgAuthMailDomain: 123.12.
```

This example requires any IP address of the pattern 123.12.x.x to AUTH before sending mail. However,

```
nsmgAuthMailDomain: !123.12.123.123
```

will allow that particular server to connect without AUTH even though it is in the domain identified by the first example.

## **Syntax**

cis (IP address)

## **OID**

NA

## **nsmsgBanner**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Provides the protocol welcome banner for each connection protocol (SMTP, POP, IMAP).

Default setting:

```
%h%p service (%P%V)
```

The string may contain any of the following variables:

- %h: the local hostname. This is ignored if hostname is NULL.
- %p: the protocol identifier (ESMTP, POP3, IMAP4, NNTP).
- %P: the product name (for example, “Netscape Messaging Server”).
- %v: the short version ID up to first space in version() function.
- %V: the full version and build date.
- %: Insert a literal. For example, %% is used to indicate a percent sign.

### **Syntax**

cis (one line)

### **OID**

NA

## **nsmmsgBinaryPath**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Specifies the directories containing binaries.

Default setting:

anyone lrs

### **Syntax**

cis

### **OID**

NA

## **nsmmsgBufferSize**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Specifies, in bytes, the size of the log buffers.

Default setting:

0

### **Syntax**

+int

### **OID**

NA

## **nsmmsgCheckDeferredQueue**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

When set to Yes, instructs the MTA to determine if there are messages in queue waiting to be sent to a particular domain. If so, new messages to the domain are also queued, awaiting the next attempt to connect.

Default setting:

Yes

### **Syntax**

boolean

### **OID**

NA

## **nsmmsgCleanUpPage**

### **Origin**

Netscape Directory Server 4.1

### **Definition**

Specifies the minimum time between expunge and clean up in number of hours.

Default setting:

nsmmsgCleanUpPages: 1

### **Syntax**

+int

### **OID**

2.16.840.1.113730.3.1.

## **nsmmsgClearControlInterval**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Unused in 4.0.

Specifies, in seconds, the control interval.

### **Default setting:**

3600

### **Syntax**

+int

### **OID**

NA

## **nsmmsgClearControlSafeTime**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Unused in 4.0.

Specifies, in seconds, the control safe time.

Default setting:

300

### **Syntax**

+int

### **OID**

NA

## **nsmmsgCollectionDeltaTime**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Specifies, in seconds, how often the SNMP server collects data.

Default setting:

10

### **Syntax**

+int

### **OID**

NA

## **nsmmsgConfigVersion**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Identifies the configuration version (major.minor).

For example:

nsmmsgConfigVersion: 4.4

### **Syntax**

int (int.int)

### **OID**

NA

## **nsmmsgContact**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Provides information describing a contact person for the Messaging server instance. This information is available via SNMP For example:

nsmmsgContact: Seamus Murphy at smurph@troubles\_r\_us.com

### **Syntax**

cis (text string)

### **OID**

NA

## **nsmmsgCounterDeltaTime**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Specifies, in seconds, the MTA internal counter collection time. This is used in conjunction with nsmmsgCollectionDeltaTime.

Default setting:

10 seconds

### **Syntax**

+int

### **OID**

NA

## **nsmmsgDBCacheSize**

### **Origin**

Netscape Directory Server 4.x

### **Definition**

Describes the mailbox list database cache size in bytes.

Default setting:

8388608

### **Syntax**

+int

### **OID**

2.16.840.1.113730.3.1.

## **nsmmsgDBTmpDir**

### **Origin**

Netscape Directory Server 4.x

### **Definition**

Specifies the temporary directory used by the mailbox list database.

For example:

`/var/tmp`

### **Syntax**

cis (full path)

### **OID**

2.16.840.1.113730.3.1.

## **nsmmsgDefaultACL**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Specifies the default ACL (access control list) for the Collabra folder. The ACL for the User folder provides users with full access.

Default setting:

```
nsmmsgDefaultACL: anyone lrs
```

### **Syntax**

cis (store acl)

### **OID**

NA

## **nsmmsgDefaultDomain**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Specifies the DNS domain name used for addresses without domains. When nothing is entered, the fully qualified server name is used.

For example:

```
nsmmsgDefaultDomain: here.com
```

### **Syntax**

cis (0-1, DNS domain name)

### **OID**

NA

## **nsmsgDefaultEcho**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Specifies a default reply for any accounts specifying `mailAutoReplyMode:` `reply` but not having any `mailAutoReplyText`.

For example:

```
nsmsgDefaultEcho: This person has their account set to echo incoming mail, but didn't add any accompanying text
```

### **Syntax**

cis

### **OID**

NA

## **nsmsgDefaultGID**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

When on, specifies the group user ID for root user program delivery (if the UNIX account is the root account, then program delivery defaults to here). Unused in NT-Delivery.

### **Syntax**

cis

### **OID**

NA

## **nsmmsgDefaultMailboxQuota**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Specifies the mailbox quota in number of bytes for all users who don't have an individual quota specified with mailQuota.

The default setting:

-1

A setting of -1 specifies infinite quotas. A positive number sets that number of bytes as the default maximum size of the mailstore.

### **Syntax**

+int

### **OID**

NA

## **nsmmsgDefaultOverQuota**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

This attribute is not used in Messaging Server 4.1. Specifies the default, system-wide message quota limit.

### **Syntax**

cis

### **OID**

NA

## **nsmmsgDefaultPartition**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Identifies the default partition. This is only applicable for the Inbox. Subfolders will be created in the partition of the parent folder.

Default setting:

`primary`

### **Syntax**

`cis` (partition name)

### **OID**

NA

## **nsmmsgDefaultReply**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Specifies the default reply text to be used for accounts where auto-reply is set with `mailAutoReplyMode: reply`, but no auto-reply text has been specified with `mailAutoReplyText mailAutoReplyText`.

For example:

`nsmmsgDefaultReply: "Not available to respond to email at this time."`

### **Syntax**

`cis`

### **OID**

NA

## **nsmsgDefaultUID**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Used to specify the user ID for root user program delivery (if the recipient's UNIX account is the root account, then program delivery defaults to here). Unused in NT- Delivery.

### **Syntax**

cis

### **OID**

NA

## **nsmsgDefaultVacation**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Specifies the default vacation message.

For example:

```
nsmsgDefaultVacation: Gone fishing. Back when the snow flies.
```

### **Syntax**

cis

### **OID**

NA

## **nsmsgDeferredPeriod**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Specifies, in seconds, the time between deferred queue checks.

Default setting:

3600

### **Syntax**

+int

### **OID**

NA

## **nsmsgDeleteHeaders**

### **Origin**

Netscape Directory Server 4.1

### **Definition**

Specifies one or more headers to be stripped from all msgs rewritten by this MTA. Multiple headers are separated by spaces. This applies to any Precedence: or Errors-To: header on a message where the header is rewritten by this MTA. That is, any message in which this is the first MTA to see the message. It does not apply to messages forwarded by another MTA. (Use nsmsgAddHeaders to add headers.)

For example:

nsmsgDeleteHeaders:Precedence: Errors-To: X-Receipt-To:

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.

## **nsmsgDescription**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Provides information about the server.

### **Syntax**

cis

### **OID**

NA

## **nsmsgDisallowAccess**

### **Origin**

Netscape Messaging Server 4.1

### **Definition**

Specifies the mail protocols not available to the user. Specified as a space separate list of one or more of the following values: pop imap smtp http.

For example:

```
nsmsgDisallowAccess: pop, imap, smtp
```

### **Syntax**

cis (One of more of the following values pop imap smtp http)

### **OID**

NA

## **nsmmsgDiskFlushInterval**

### **Origin**

### **Netscape Messaging Server 4.0**

### **Definition**

Specifies, in seconds, the interval for flushing buffers to log files.

Default setting:

15

### **Syntax**

+int

### **OID**

NA

## **nsmmsgDNSResolveClient**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Indicates whether to look up the client hostname using reverse DNS.

Default setting:

No

### **Syntax**

boolean (Yes/No)

### **OID**

NA

## **nsmmsgDoAUTH**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

This attribute is no longer used by Messaging Server 4.1.

### **Syntax**

boolean

### **OID**

NA

## **nsmmsgDoCanonicalize**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

When set to Yes, a valid domain is appended to envelope Sender addresses that do not include a valid domain.

Default setting:

No

### **Syntax**

boolean

### **OID**

NA

## **nsmmsgDoClientDNSLookup**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Determines whether to look up the hostname that is specified in the EHLO command of the calling server in DNS. (In previous versions of Messaging Server this function was performed by `nsmmsgHostOnCommandLine`.)

Default setting:

No

### **Syntax**

boolean (yes/no)

### **OID**

NA

## **nsmmsgDoDSN**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Determines whether to do delivery status notifications.

Default setting:

Yes

### **Syntax**

Yes

### **OID**

NA

## **nsmmsgDoETRN**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Reserved for future use. Causes an ETRN command to be sent by the MTA when done sending messages.

Default setting:

No

### **Syntax**

boolean

### **OID**

NA

## **nsmmsgDomainAllowed**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Specifies the list of domain and IP addresses allowed for SMTP, POP, IMAP, or HTTP (Messenger Express) access.

For example:

```
nsmmsgDomainName: airius.com
```

### **Syntax**

cis, (domain names or IP addresses)

### **OID**

NA

## **nsmmsgDomainLangTable**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Specifies the table of domain-to-language mappings in the form:

```
CC LC[ ,LC]
```

where:

- CC: identifies the Internet country code (for example, CA for Canada)
- LC: identifies the Internet language code (for example, EN for English)

Multiple languages can be specified separated by commas. They will be searched in the order specified.

For example, to specify Canada for the country and English then French for the languages:

```
nsmmsgDomainLangTable: ca en,fr
```

### **Syntax**

```
cis
```

### **OID**

```
NA
```

## **nsmmsgDomainName**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Specifies the domain name for the server.

For example:

```
nsmmsgDomainName: airius.com
```

### **Syntax**

cis

### **OID**

NA

## **nsmmsgDomainNotAllowed**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Specifies the domain and IP addresses that are not allowed for SMTP, POP, IMAP, or HTTP (Messenger Express) access.

For example:

```
nsmmsgDomainName: private.airius.com $corp.airius.com
```

### **Syntax**

cis (domain names or IP addresses)

### **OID**

NA

## **nsmmsgDoRewriteFromUsingAuth**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

When set to Yes, and an authenticated sender exists for a message, then during header rewrite the Messaging Server will rewrite the "From:" field of the header to indicate the authenticated sender of the message.

Default setting:

No

### **Syntax**

boolean (yes/no)

### **OID**

NA

## **nsmmsgDoRewriteSenderUsingAuth**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

When set to Yes, and an authenticated sender exists for a message, then during header rewrite the Messaging Server will rewrite the "Sender" field of the header to indicate the authenticated sender of the message.

Default setting:

No

### **Syntax**

boolean (yes/no)

### **OID**

NA

## **nsmmsgEnable**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Determines whether to start the server (or server subagent) automatically.

Default setting:

No

### **Syntax**

boolean

### **OID**

NA

## **nsmmsgEnableSSLPort**

### **Origin**

Netscape Directory Server 4.1

### **Definition**

Specifies whether or not the IMAP server SSL port is enabled or not. (The SSL port number is specified with nsmmsgSMTPPort.)

Default setting:

no

### **Syntax**

boolean (yes/no)

### **OID**

2.16.840.1.113730.3.1.

# **nsmmsgEnvelopeRewriteMethod**

## **Origin**

Netscape Messaging Server 4.0

## **Definition**

Specifies the actions for rewriting recipient addresses that are forwarded to another server. The numeric value you specify determines which actions are attempted starting with the action that has the highest specified numeric value.

The action values are:

- 1: Rewrite to (local)@mailHost, if mailHost exists for the recipient (local) refers to the left-hand part of the incoming recipient address.
- 2: Rewrite to uid@mailHost, if those two attributes exists for the recipient
- 4: Rewrite to value in mailRoutingAddress, if attribute exists for recipient

When none of the above actions are specified, or none are possible because the attributes don't exist for the user, the original recipient address will be used unchanged.

For example, to specify all three actions you would enter 7 because  $1+2+4=7$ . In this case, since all three are specified, the last action (4) would be tried first, if it succeeds nothing more is done. If it does not succeed, then the second action (2) is tried, and then the first. Similarly, if you specified 5, the last action (4) would be tried first and if that did not succeed then the first action (1) would be tried. In other words, actions are tried in the order you specify by the numeric value you enter until one of them succeeds.

`nsmmsgEnvelopeRewriteMethod: 7`

## **Syntax**

+int (1-7)

## **OID**

NA

## **nsmmsgExclusive**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Specifies that a mailbox aging rule is the only rule to be used for a given mailbox or mailboxes.

Default setting:

No

### **Syntax**

cis (Boolean yes/no)

### **OID**

NA

## **nsmmsgExpireStart**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

When stored, start every day for cleanup and expire.

Default setting:

23

### **Syntax**

int

### **OID**

NA

## **nsmmsgExpiryTime**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Specifies, in seconds, the time a log file will be kept before it expires (the default setting is 7 days).

Default setting:

604800

### **Syntax**

+int

### **OID**

NA

## **nsmmsgExternalMXServerIP**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Specifies the list of DNS servers to attempt to use.

For example:

nsmmsgExternalMXServerIP: dns.internet.com, dns2.internet.com

### **Syntax**

cis

### **OID**

NA

# **nsmgFallbackSearchMethod**

## **Origin**

Netscape Messaging Server 4.0

## **Definition**

Specifies the rules for alternate search methods used when attempting to look up messaging recipients in LDAP. The numeric values specified are cumulative and represent the total of rules added together. The numeric rule values are:

1: When domain or recipient is deemed local (is in `nsmgLocalMainDomain` or `nsmgDefaultDomain`), then check if local part of recipient is equal to any user ID in the directory.

2: Determine whether domain of recipient specifies this server, then try to match with server name removed. For example, if recipient=`juan@server1.airius.com` was found on `server1`, then attempt to match `mail=juan@airius.com` or `mailAlternateAddress=juan@airius.com`).

4: Check for virtual domains. For example, if `uid@acme` has a virtual domain of "`pinnacle.com`", then mail to `(anyone)@pinnacle.com` will be directed to `uid@acme`.

For example, to specify all three rules you would enter 7 because  $1+2+4=7$ :

```
nsmgFallbackSearchMethod: 7
```

## **Syntax**

+int (1-7)

## **OID**

NA

## **nsmsgFileMode**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Unused in 4.0.

Default setting:

432

### **Syntax**

NA

### **OID**

NA

## **nsmsgFilterUrl**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Specifies the URL for the incoming mail filter.

### **Syntax**

URL

### **OID**

NA

## **nsmmsgFlushInterval**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Specifies the interval, in seconds, for flushing buffers to log files.

Default setting:

60

### **Syntax**

+int

### **OID**

NA

## **nsmmsgFolderPattern**

### **Origin**

Netscape Messaging Server 4.0 (under the name nsmmsgFolders)

### **Definition**

Folders to which one or more of the following expiration rules are to be applied:

- Exclusive
- Message count
- Message days
- Message size
- Message size days

Folders may be specified as a pathname or filename. IMAP wildcards may be used as follows:

- \* Match any character
- % Match any character except a slash character

For example:

```
nsmmsgFolders: user/*/inbox
```

### **Syntax**

nis (foldername pattern)

### **OID**

NA

## **nsmmsgFolderSizeBytes**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Specifies the maximum number of bytes a folder may contain.

For example:

```
nsmmsgFolderSizeBytes: 1000000
```

### **Syntax**

+int

### **OID**

NA

## **nsmmsgFolderURL**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Specifies the URL for personal folder management.

For example:

```
nsmmsgfolderurl: http://host:adminport/bin/user/admin/bin/  
mailacl.cgi?folder=%N
```

### **Syntax**

URL

### **OID**

NA

## **nsmmsgForeignPercentAddr**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Used to accept recipient addresses in archaic format of:

```
local@domain%domain2
```

Default setting:

No

### **Syntax**

boolean (yes/no)

### **OID**

NA

## **nsmmsgFormSigKey**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Reserved for future use.

### **Syntax**

NA

### **OID**

NA

## **nsmgHideHostname**

### **Origin**

Netscape Messaging Server 4.0, no longer used in 4.1

### **Definition**

No longer used in Netscape Messaging Server 4.1

### **Syntax**

boolean

### **OID**

NA

# **nsmsgHopCountExceedActions**

## **Origin**

Netscape Messaging Server 4.0

## **Definition**

Specifies what actions to take when a message has exceeded the maximum number of server hop counts specified in nsmsgMaxMTAHops.

- 0: No action.
- 1: return (bounce message to sender).
- 2: hold (hold in deferred queue). This was not available in 4.0.
- 4: notify (send mail to postmaster).
- 8: log.

The numeric value you specify is cumulative and represents the total numeric sum of actions added together. For example to specify both return and notify, you would enter 5 because 1+4=5.

Default setting is hold, notify, and log:

```
nsmsgHopCountExceedActions 14
```

## **Syntax**

+int (0-15)

## **OID**

NA

## **nsmmsgHostOnCommandLine**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

This attribute is no longer used with Messaging Server 4.1. The function performed by `nsmmsgHostOnCommandLine` is now performed by `nsmmsgDoClientDNSLookup`

### **Syntax**

NA

### **OID**

NA

## **nsmmsgHostRewrites**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Specifies the host or domain used when forwarding messages that may contain lines with "\$" separators.

For example:

```
nsmmsgHostRewrites: *.airius.com
```

### **Syntax**

cis

### **OID**

NA

## **nsmmsgInternalMXServerIP**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Specifies the internal list of DNS servers to use before attempting to use external DNS servers specified in nsmmsgExternalMXServerIP.

For example:

```
nsmmsgInternalMXServerIP:
```

### **Syntax**

```
cis
```

### **OID**

NA

## **nsmsgIdleTimeout**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Specifies, in minutes, the idle time-out.

Default settings:

```
service.http.idletimeout:180  
service.imap.idletimeout:30  
service.pop.idletimeout:10
```

### **Syntax**

```
+int
```

### **OID**

NA

## **nsmgInstalledLanguages**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Identifies the installed languages. Use a comma separated list for multiple languages

Default setting:

```
nsmgInstalledLanguages: en
```

For example, if English, Japanese, and Spanish are installed:

```
nsmgInstalledLanguages: en, jp, sp
```

### **Syntax**

cis (using standard two-letter language designations)

### **OID**

NA

## **nsmgIPSecurity**

### **Origin**

Netscape Directory Server 4.1

### **Definition**

Specifies whether or not to restrict session access to login IP address.

Default setting:

```
yes
```

### **Syntax**

cis boolean (yes/no)

### **OID**

2.16.840.1.113730.3.1.

## **nsmmsgLDAPMemCacheSize**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Specifies the cache size, in bytes.

Default setting:

1131072

### **Syntax**

+int

### **OID**

NA

## **nsmmsgLDAPMemCacheTtl**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Specifies, in seconds, the length of time the entry may live.

Default setting:

30

### **Syntax**

+int

### **OID**

NA

## **nsmgLDAPPoolSize**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Specifies the number of LDAP connections.

### **Syntax**

int

### **OID**

NA

## **nsmgLDAPPort**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

This attribute is no longer used in Netscape Messaging Server 4.1

### **Syntax**

**+int**

### **OID**

NA

## **nsmmsgLDAPUtilConfig**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Unused.

### **Syntax**

NA

### **OID**

NA

## **nsmmsgListenAddr**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Specifies a machine IP address to listen on.

For example:

```
nsmmsgListenAddr: 123.123.123.123
```

Default setting: If `nsmmsgListenAdd` is not used to specify an address, all of the machine's IP addresses are listened to.

### **Syntax**

cis (IP address)

### **OID**

NA

## **nsmmsgListenQ**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

This attribute is no longer used with Messaging Server 4.1.

### **Syntax**

cis

### **OID**

NA

## **nsmmsgListURL**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Specifies the URL for mailing list management. (Reserved for future use.)

For example:

`nsmmsgListURL`

### **Syntax**

URL

### **OID**

NA

## **nsmmsgLocalDefaultMaxRunCount**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Obsolete, no longer used.

### **Syntax**

NA

### **OID**

NA

## **nsmmsgLocalDefaultMinRunCount**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Specifies the default number of threads to start up for any module that does not already have a a number of threads specified for it.

For example:

```
nsmmsgLocalDefaultMinRunCount 4
```

Default setting:

1

### **Syntax**

+int

### **OID**

NA

## **nsmmsgLocalMailDomains**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Specifies all domains considered local to this server. That is, if the server can't find a recipient in this domain then the recipient can be considered "unknown."

### **Syntax**

cis (0-many)

### **OID**

NA

## **nsmmsgLocation**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Identifies the location of the server.

For example:

nsmmsgLocation:

### **Syntax**

cis

### **OID**

NA

## **nsmmsgLog**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

When set to Yes, the Messaging Server will log every message handled by this module.

Default setting:

No

Note that by default both SMTP\_Accept and SMTP\_Deliver are set to true (logging enabled) during the install process.

### **Syntax**

Boolean (yes/no)

### **OID**

NA

## **nsmmsgLogDir**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Identifies the directory path for log files. Give it the form of *instancedir/logdir* to make the path relative to the instance directory.

### **Syntax**

cis, dirpath

### **OID**

NA

## **nsmmsgLogLevel**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Used to specify the level of activity to be recorded by logs. Possible values include:

- Nolog
- Emergency
- Alert
- Critical
- Error
- Warning
- Notice
- Information
- Debug

Default setting:

Notice

### **Syntax**

cis

### **OID**

NA

## **nsmmsgLogType**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Used to indicate the type of logfile. The only valid value is `NscpLog`.

### **Syntax**

`cis`

### **OID**

NA

## **nsmmsgMailDeliveryProgram**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Specifies the default program to run for UNIX-Deliver type deliveries.

Default setting:

```
nsmmsgmaildeliveryprogram:/usr/bin/mail
```

### **Syntax**

`cis`

### **OID**

NA

## **nsmgMasterHost**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Indicates the SNMP master agent hostname, in the form of a DNS name.

For example:

nsmgmasterhost:

### **Syntax**

DNS name.

### **OID**

NA

## **nsmgMasterPort**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Specifies the port number of the SNMP master agent.

Default setting:

199

### **Syntax**

+int

### **OID**

NA

## **nsmsgMaxBadCommands**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Specifies the maximum number of bad commands that will be accepted before closing the SMTP session.

Default setting:

25

### **Syntax**

int

### **OID**

NA

## **nsmsgMaxBranches**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Specifies the maximum number of branches.

### **Syntax**

+int

### **OID**

NA

## **nsmgMaxControlRecipients**

### **Origin**

Netscape Directory Server 4.1

### **Definition**

Specifies the Max number of Channel-To:'s allowed in a Control. This is primarily to keep a group process from sending one control with thousands of recipients which might degrade an MTA module

Default setting:

500:

### **Syntax**

+int

### **OID**

2.16.840.1.113730.3.1.

## **nsmgMaxCPUTime**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

This attribute is not yet in use. Specifies, in milliseconds, the maximum cpu time per execution.

Default setting:

NA

### **Syntax**

+int

### **OID**

NA

## **nsmsgMaxErrorObjectSize**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

This attribute is no longer used with Messaging Server 4.1.

### **Syntax**

+int

### **OID**

NA

## **nsmsgMaxLogFiles**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Used to specify the maximum number of log files.

Default setting:

10

### **Syntax**

+int

### **OID**

NA

## **nsmsgMaxLogFileSize**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Specifies the maximum size, in bytes, of each log file.

Default setting:

20971520

### **Syntax**

+int

### **OID**

### **NA**

## **nsmsgMaxLogSize**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Specifies, in bytes, the maximum size of all logfiles.

Default setting:

20971520

### **Syntax**

+int

### **OID**

NA

## **nsmsgMaxHeaderLines**

### **Origin**

Netscape Messaging Server 3,x

### **Definition**

Unused.

### **Syntax**

+int

### **OID**

## **nsmsgMaxMessageSize**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Specifies, in bytes, the maximum size of a message that may be contained in a folder. For use with SIZE command.

Default setting:

5242880

### **Syntax**

+int

### **OID**

NA

## **nsmsgMaxMTAHops**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Specifies the maximum number of MTA hops allowed before the messaging Server determines that the message is in a loop and is declared undeliverable (also see `nsmsgHopCountExceedActions`).

Default setting:

30

### **Syntax**

+int

### **OID**

NA

## **nsmsgMaxPostSize**

### **Origin**

Netscape Directory Server 4.1

### **Definition**

Specifies the maximum amount of data, in bytes, than can be posted to an HTTP server during a file upload or form submission.

Default setting:

5242880

### **Syntax**

+int

### **OID**

2.16.840.1.113730.3.1.

## **nsmgMaxQueueTime**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Specifies, in days, the maximum days to keep deferred mail.

Default setting:

4

### **Syntax**

int

### **OID**

NA

## **nsmgMaxRunCount**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Obsolete, no longer used.

### **Syntax**

NA

### **OID**

NA

## **nsmsgMaxRunCountDeferred**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Obsolete, no longer used.

### **Syntax**

### **OID**

## **nsmsgMaxScriptSize**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

This attribute is reserved for future use.

### **Syntax**

+int

### **OID**

NA

## **nsmMsgMaxSessions**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Specifies the maximum number of sessions per server process.

Default setting:

600 sessions

### **Syntax**

+int

### **OID**

NA

## **nsmMsgMaxStateObjectSize**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

This attribute is not yet in use, and is reserved for future use. Specifies, in bytes, the maximum state object size.

### **Syntax**

+int

### **OID**

NA

## **nsmgMaxThreads**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Specifies the maximum number of threads per server process for IMAP, POP, and HTML (Messenger Express).

Default setting:

1000

### **Syntax**

+int

### **OID**

NA

## **nsmsgMessageCount**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Specifies the maximum number of messages that can be stored in a specified folder.

Default setting:

If nothing is specified, the default is an unlimited number of messages.

For example:

```
nsmsgMessageCount : 500
```

### **Syntax**

+int

### **OID**

NA

## **nsmsgMessageDays**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Specifies the maximum number of days that a message can be stored in a folder.

Default:

If nothing is specified, the default is an unlimited number of days.

For example:

```
nsmsgMessageDays: 30
```

### **Syntax**

+int

### **OID**

NA

## **nsmmsgMessageHostName**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Specifies the official hostname for the Messaging Server. This can be different from the actual hostname of the machine the Messaging Server is running on (for example, in a fail-over situation, a Messaging Server running on the machine "dead.here.com" might advertise itself as running on "live.here.com"). This setting is used in banners, in resolving recipient addresses, and in allowing POP/IMAP login.

### **Syntax**

cis (hostname)

### **OID**

NA

## **nsmsgMessageSize**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Specifies, in bytes, the maximum size of messages that can be stored in a folder. Messages over this size are cleaned up.

Default setting:

If nothing is specified, the default is no limit on message size.

For example:

```
nsmsgMessageSize: 1000000
```

### **Syntax**

+int (number of bytes)

### **OID**

NA

## **nsmsgMessageSizeDays**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Specifies the number of days that an oversize message can stay in a folder.

Default setting:

If nothing is specified, the default is an unlimited.

For example:

```
nsmsgMessageSizeDays: 5
```

### **Syntax**

+int

### **OID**

NA

## **nsmmsgMinFreeDiskSpace**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Specifies, in bytes, the minimum amount of disk space that must remain available for logging. If available disk space falls below this threshold, no new messages are accepted until additional disk space is made available.

Default setting:

5242880

### **Syntax**

+int

### **OID**

NA

## **nsmmsgMinRunCount**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Specifies the number of threads to start for each MTA module. The defaults are different for each module.

Default settings:

1

### **Syntax**

+int

### **OID**

NA

## **nsmMsgAlarmDescription**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Provides the alarm description.

For example:

```
nsmMsgAlarmDescription:
```

### **Syntax**

cis

### **OID**

NA

## **nsmMsgAlarmNoticeHost**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Specifies the SMTP host to send warning to.

Default setting:

```
localhost
```

### **Syntax**

cis

### **OID**

NA

## **nsmMsgAlarmNoticePort**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Specifies the SMTP port to send warning to.

Default setting:

25

### **Syntax**

int

### **OID**

NA

## **nsmMsgAlarmNoticeRcpt**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Specifies the person to send the warning to.

Default setting:

Postmaster@localhost

### **Syntax**

cis

### **OID**

NA

## **nsmMsgAlarmNoticeSender**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Specifies the identity of the warning sender.

Default setting:

`Postmaster@localhost`

### **Syntax**

`cis`

### **OID**

NA



# nsmMsgAlarmNoticeTemplate

## Origin

Netscape Messaging Server 4.0

## Definition

Defines a warning notice template. The % variables in the templates are replaced with `sender`, `rcpt`, `description`, `instance`, `current`, `value` and `body` in that order.

Template example:

```
From:%s\n To:%s\n Subject:ALARM: %s of \"%s\" is %u\n\n %s\n
```

Where the last variable is the body. The body has a fixed format as follows:

- Server instance: *server instance directory*
- Alarmid: *diskavail* or *serverresponse*
- Instance: for *diskavail* instance is *partition name*; for *serverresponse* instance is one of `imap`, `pop`, `http`, or `smtp`
- Description: `percentage mail partition diskspace available` or `server response time in seconds`.
- Current measured value (*date&time*): *value*
- Lowest recorded value: *value*
- Highest recorded value: *value*
- Monitoring interval: *n seconds*
- Alarm condition is when over or below threshold of *value*
- Number of times over or below threshold: *count*
- Optional additional information specific to each alarm msg

## Syntax

cis

## **nsmMsgAlarmNoticeTemplate**

### **OID**

NA

## **nsmMsgAlarmStatInterval**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Specifies, in seconds, the alarm collection interval.

Default setting:

```
alarm.serverresponse.msgalarmstatinterval:600  
alarm.diskavail.msgalarmstatinterval:3600
```

### **Syntax**

+int

### **OID**

NA

# **nsmMsgAlarmThreshold**

## **Origin**

Netscape Messaging Server 4.0

## **Definition**

Specifies the alarm threshold,

Default setting:

```
alarm.diskavail.msgalarmthreshold:10%  
alarm.serverresponse.msgalarmthreshold:10
```

## **Syntax**

+int

## **OID**

NA

## **nsmMsgAlarmThresholdDirection**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Determines whether the alarm is over (1) or below (-1) the alarm threshold.

For example:

```
nsmMsgAlarmThresholdDirection: 1
```

Meaning that the alarm condition is when the value goes over threshold.

```
nsmMsgAlarmThresholdDirection: -1
```

Meaning that the alarm condition is when the value goes below threshold.

### **Syntax**

int

### **OID**

NA

## **nsmMsgAlarmWarningInterval**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Specifies the minimum interval, in hours, to send repeated warning.

Default setting:

24

### **Syntax**

+int

### **OID**

NA

## **nsmmsgMTAID**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Reserved for internal use to specify the ID of the MTA, when no ID is specified.

Default setting:

0

### **Syntax**

cis

### **OID**

NA

## **nsmmsgMTAName**

### **Origin**

Netscape Messaging Server 4.0

### **Description**

Reserved for internal use. Specifies the name of the MTA, when no name is specified.

For example:

MTA-41

### **Syntax**

cis

### **OID**

NA

## **nsmmsgNeedSender**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

When set to Yes, the message (envelope) sender is appended to the UNIX mail command as a parameter.

Default setting:

Yes

### **Syntax**

boolean

### **OID**

NA

## **nsmmsgNegativeHostAttr**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Specifies attributes not allowed in a server LDAP entry. This is used in Auth SMTP to identify whether the caller is a mail client or an MTA.

Note that this is not currently in Messaging Server 4.1, but is reserved for future use.

For example:

nsmmsgNegativeHostAttr: uid

### **Syntax**

cis

### **OID**

NA

## **nsmmsgNestedGroups**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Specifies whether nested dynamic mail groups are expanded. By default, if a dynamic group contains another group as a member, the nested group is not expanded.

Default setting:

No

### **Syntax**

Boolean (yes/no)

### **OID**

NA

## **nsmmsgNetworkDefaultMaxRunCount**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Obsolete, no longer used.

### **Syntax**

### **OID**

## **nsmgNetworkDefaultMinRunCount**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Specifies the minimum number of threads to start up for any local module (see `nsmgMinRunCount`).

Default setting:

20

### **Syntax**

+int

### **OID**

NA

## **nsmmsgNewUserForms**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Specifies the greeting message sent to new users. If this attribute is empty then no greeting message is distributed.

To specify a greeting message, the NewUserForms attribute should contain at least a Subject: header line, additional headers as you wish, a blank line after all headers, and the text of the message. All lines are delimited by \$. There is a 1Kilobyte limit on the number of characters you can use.

For example:

```
NewUserForms: Subject: Welcome to the Airius mail system $From:
mailadmin $ $For information on how to use the Airius mail system see
http://www.airius.com/geninfo/mail.html. For technical support call
extension 24601.
```

Syntax

cis

### **OID**

NA

## **nsmgNewsPrefix**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Unused in Messaging Server 4.x. In 3.x, specifies the NNTP (Network News Transfer Protocol) Newsgroup prefix.

For example:

```
nsmgNewsPrefix:
```

### **Syntax**

cis

### **OID**

NA

## **nsmgNewsSpool**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Unused in Messaging Server 4.x. In 3.x, specifies the NNTP (Network News Transfer Protocol) spool directory.

Default setting:

```
nsmgNewsSpool " "
```

(In other words, since the default setting is a blank string, there is no default setting.)

### **Syntax**

cis, (directory path)

### **OID**

NA

## **nsmgNTRunOptn**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Unused.

### **Syntax**

cis

### **OID**

## **nsmgNTAccount**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Unused.

### **Syntax**

cis

### **OID**

NA

## **nsmgNTPassword**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Unused.

### **Syntax**

cis

### **OID**

NA

## **nsmgNumDays**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

This attribute is no longer used with Messaging Server 4.1.

### **Syntax**

cis

### **OID**

NA

## **nsmsgNumEnvelopeQueueFiles**

### **Origin**

Netscape Directory Server 4.1

### **Definition**

Specifies the number of envelope log files in the control directory for a given queue directory. The log files reside in *queue/control*. Where *queue* is typically *msg-instance/queue*. Alternatively, *queue* could be any of the queues listed in *local.queuedir* or *service.smtp.altqueues*. Setting the *NumEnvelopeQueueFiles* reduces contention between acceptor threads while receiving messages for improved performance. In most cases, the default of 20 is ample.

Default setting:

20

### **Syntax**

+int

### **OID**

2.16.840.1.113730.3.1.

## **nsmsgNumMessages**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

This attribute is no longer used with Messaging Server 4.1.

### **Syntax**

cis

### **OID**

NA

## **nsmsgNumMsgQuota**

### **Origin**

Netscape Messaging Server 4.1

### **Definition**

Specifies a maximum number of messages in a user's mailbox. If nothing is specified, there is no limit on the number of messages.

For example:

```
nsmsgNumMsgQuota: 200
```

### **Syntax**

+int

### **OID**

NA

## **nsmsgNumProcesses**

### **Origin**

Netscape Messaging Server 4.0 (nsmsgNumSlaves), 4.1

### **Definition**

Specifies the number of slave processes. This was named nsmsgNumSlaves in previous versions.

Default setting:

0

### **Syntax**

+int

### **OID**

NA

## **nsmsgOrganization**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Identifies the name of the organization.

For example:

```
nsmsgOrganization: Topspin
```

### **Syntax**

cis

### **OID**

NA

## **nsmsgPartition**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Identifies the partition in which the folder resides.

For example:

```
nsmsgPartition:
```

### **Syntax**

cis

### **OID**

NA

## **nsmsgPath**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Identifies the partition path.

For example:

```
nsmsgPath: /suitespot/msg-server/store/partition/primary
```

### **Syntax**

cis (dirpath)

### **OID**

NA

## **nsmsgPlainTextLoginPause**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Specifies, in seconds, the duration of pause following successful clear login. (Meant to discourage user from using clear login.)

Default setting:

0

### **Syntax**

+int

### **OID**

NA

## **nsmmsgPlainTextMinCipher**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Specifies the plain text login that is allowed if connection is encrypted using X-bit cipher minimum. The default is to allow plain text login.

Possible values include:

- 0: always allow plain text login
- 40: allow plain text login with a minimum of 40 bits of SSL encryption
- 128: allow plain text login with a minimum of 128 bits of SSL encryption
- -1: never allow plain text login

Default setting:

0

### **Syntax**

int

### **OID**

NA

## **nsmmsgPort**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Specifies the service port number.

This is specified once for each service (IMAP, POP, or SMTP) running on the server.

The default settings for each service are:

- 143: IMAP
- 110: POP
- 25: SMTP

### **Syntax**

+int

### **OID**

NA

## **nsmmsgPOPMinPoll**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Specifies, in seconds, the minimum interval for client polling.

Default setting:

0

### **Syntax**

+int

### **OID**

NA

## **nsmmsgPositiveHostAttr**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Specifies the attributes required in a server LDAP entry for authenticated SMTP (see also `nsmmsgNegativeHostAttr`).

For example:

```
nsmmsgPositiveHostAttr:
```

### **Syntax**

cis

### **OID**

NA

## **nsmmsgProtocolUBEConfig**

### **Origin**

Netscape Directory Server 4.1

### **Definition**

This attribute is no longer used with Messaging Server 4.1.

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.

## **nsmgProxyDomainAllowed**

### **Origin**

Netscape Directory Server 4.1

### **Definition**

Specifies access control list of domains and IP addresses that are allowed to use proxy authentication.

These are entered in the pattern *daemon\_list* : *client\_list* where the daemon list can be one or more daemon names or wildcards, and the client list can be one or more host names, host addresses, patterns or wildcards. List elements may be separated by blank spaces or commas. The following wildcards are supported: `all`, `local`, `unknown`, `known`, `dnsspoofed`. The `except` operator is also supported. In most cases the `domain_list` wildcard `all` is normally used.

Multiple attributes can be specified by delimiting them with `$`.

For example:

```
nsmgProxyDomainAllowed: all:airius.com
```

For more detailed information, see the discussion of client access filters in the "Security and Access Control" chapter of the Messaging Server Administrator's Guide.

### **Syntax**

`cis`

### **OID**

2.16.840.1.113730.3.1.

# **nsmsgQuotaExceededActions**

## **Origin**

Netscape Messaging Server 4.0

## **Definition**

Specifies the actions to take when a message has been determined to exceed the mailQuota for a recipient (see also nsmsgHopCountExceedActions)

- 1: return
- 2: hold
- 4: notify
- 8: log

The numeric value you specify is cumulative and represents the total numeric sum of actions added together. For example to specify both return and hold, you would enter 3 because  $1+2=3$ .

Default setting:

1

## **Syntax**

int (1-15)

## **OID**

NA

## **nsmmsgQuotaExceededMsg**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Specifies the message, including headers, to be sent to the user when the quota exceeds what is specified in store. Use \$ to specify a new line and \$\$ to specify the break between header and message body. For example:

nsmmsgquotaexceededmsg: Subject: Your mailbox is full.\$\$Your mailbox is full and no new messages can be added. Please delete some of your old messages.

### **Syntax**

cis

### **OID**

NA

## **nsmmsgQuotaExceededMsgInterval**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Specifies, in days, the interval to wait before sending another quota-exceeded message.

Default setting:

7

### **Syntax**

+int

### **OID**

NA

## **nsmmsgQuotaGracePeriod**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

After a user's quota exceeds the value specified in `nsmmsgQuotaWarn`, this attribute specifies the number of hours to wait before sending the message defined by the `nsmmsgQuotaExceededMsg` attribute. (The `nsmmsgQuotaExceededMsgInterval` specifies how long to wait before sending a subsequent message.)

Default setting:

120

### **Syntax**

+int (number of hours)

### **OID**

NA

## **nsmmsgQuotaWarn**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Provides a warning to client when quota exceeds the level specified.

Default setting:

90

### **Syntax**

int

### **OID**

NA

## **nsmsgReadTimeout**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Specifies the number of seconds permitted to get the hello string when checking for server response time.

Default setting:

10

### **Syntax**

+int

### **OID**

NA

## **nsmsgRecipients**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Specifies the maximum number of "Channel-To:" allowed in a Control. Used primarily for group processing, to prevent sending one control with thousands of recipients (possibly choking an MTA module).

Default setting:

500

### **Syntax**

+int

### **OID**

NA

## **nsmmsgReserved0**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Reserved.

### **Syntax**

NA

### **OID**

NA

## **nsmmsgReserved1**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Reserved.

### **Syntax**

NA

### **OID**

NA

## **nsmmsgReserved2**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Reserved.

### **Syntax**

NA

### **OID**

NA

## **nsmmsgReserved3**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Reserved.

### **Syntax**

NA

### **OID**

NA

## **nsmmsgReserved4**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Reserved.

### **Syntax**

NA

### **OID**

NA

## **nsmmsgReserved5**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Reserved.

### **Syntax**

NA

### **OID**

NA

## **nsmmsgReserved6**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Reserved.

### **Syntax**

NA

### **OID**

NA

## **nsmmsgReserved7**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Reserved.

### **Syntax**

NA

### **OID**

NA

## **nsmmsgReserved8**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Reserved.

### **Syntax**

NA

### **OID**

NA

## **nsmmsgReserved9**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Reserved.

### **Syntax**

NA

### **OID**

NA

## **nsmgResourceTimeOut**

### **Origin**

Netscape Directory Server 4.1

### **Definition**

Specifies the Messenger Express resource reduction timeout in number of seconds idle. After the specified number of seconds without input, resources such as open mailboxes are closed to allow more concurrent users on the server.

Default setting:

900

### **Syntax**

+int

### **OID**

2.16.840.1.113730.3.1.

## **nsmgRewriteToCc**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Specifies whether or not to try to rewrite the "To" and "CC" recipients.

Possible values are True or False.

Default setting:

nsmgRewriteToCC: True

### **Syntax**

cis. Boolean (true/false)

### **OID**

NA

## **nsmmsgRollOverDelta**

### **Origin**

Netscape Directory Server 4.1

### **Definition**

Specifies the minimum number of minutes between two envelope log rollovers. Envelope log rollover is an activity new log files are created and old ones are slowly deleted as messages in them are processed. New messages are added only to the new files.

For example:

1

### **Syntax**

+int

### **OID**

2.16.840.1.113730.3.1.

## **nsmsgRollOverSize**

### **Origin**

Netscape Directory Server 4.1

### **Definition**

Specifies the maximum size the envelope files are allowed to reach before the server starts the rollover. Envelope log rollover is an activity new log files are created and old ones are slowly deleted as messages in them are processed. New messages are added only to the new files.

Default setting:

20

### **Syntax**

+int

### **OID**

2.16.840.1.113730.3.1.

## **nsmsgRolloverTime**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Specifies, in seconds, the interval between log file rollovers.

Default setting:

86400

### **Syntax**

+int

### **OID**

NA

## **nsmmsgRoutingAttribute**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Specifies the attribute to be used when nsmmsgEnvelopeRewriteMethod includes ERM\_ROUTING\_ATTR.

Default setting is the mailRoutingAddress.

### **Syntax**

cis

### **OID**

NA

## **nsmmsgRenotifyInterval**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Unused.

### **Syntax**

NA

### **OID**

NA

## **nsmmsgRequireCRLF**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Used in 3.x to accept CRLF or CR to end lines. Both are accepted in 4.0

Default setting:

No

### **Syntax**

boolean (yes/no)

### **OID**

NA

## **nsmgRoutStripIMAPFolders**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

When set to Yes, strips IMAP folder names from receipt addresses for routing purposes.

This setting should be enabled when there are email addresses or user IDs at a site that use "+". This will prevent addresses of the form `joe+salesmsg@airius.com` from being delivered to the folder `salesmsg` in joe's mailbox.

The default is no, meaning that folder names will not be stripped out and messages will be delivered to the folder.

### **Syntax**

boolean (yes/no)

### **OID**

NA

## **nsmgSessionTimeOut**

### **Origin**

Netscape Directory Server 4.1

### **Definition**

Specifies the Messenger Express client session timeout in number of seconds. If the specified number of seconds pass without any user input, the user is automatically logged off.

Default setting:

7200

### **Syntax**

+int

### **OID**

2.16.840.1.113730.3.1.

## **nsmgShellPath**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Specifies valid paths used by programs spawned by Program-Delivery. If those programs use PATH environment variable, the value of nsmgShellPath is used as the value of that variable

Mail handling programs to be automatically invoked by Messaging Server's program delivery feature must be stored in the trusted directory (*server-root/msg-instance/smtp-bin/delivery*). If those programs spawn additional processes requiring path information, those paths are specified with nsmgShellPath.

For example:

```
nsmgshellpath:/bin :/usr/bin :usr/ucb
```

### **Syntax**

dirpath (use commas to separate multiple directory paths)

### **OID**

NA

## **nsmmsgSiteLanguage**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Specifies the default language for the site.

Default setting:

en

### **Syntax**

cis

### **OID**

NA

## **nsmmsgSMTPHost**

### **Origin**

Netscape Directory Server 4.1

### **Definition**

Specifies the name of the SMTP host machine used by HTTP (Messenger Express) using a fully qualified name.

For example:

`smtpserver.airius.com`

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.

## **nsmmsgSMTPPort**

### **Origin**

Netscape Directory Server 4.1

### **Definition**

Specifies the SMTP relay port used by HTTP (Messenger Express).

For example:

25

### **Syntax**

+int

### **OID**

2.16.840.1.113730.3.1.

## **nsmmsgSMTPRewriteStyle**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Specifies the rewrite style used in Header-rewrite of "From:", "To:", and "Cc:" lines.

Possible values include:

- never: never rewrite
- none: only rewrite if address is exposed (local part with no domain)
- quoted: use form *User name <userID@domain>*
- comment: use form *userID@domain User name*

Default setting:

quoted

### **Syntax**

cis

### **OID**

## **nsmgSourceURL**

### **Origin**

Netscape Directory Server 4.1

### **Definition**

Specifies the URL of the Messenger Express server.

For example:

```
http://nsmail-1.airius.com/html
```

### **Syntax**

cis (a URL)

### **OID**

2.16.840.1.113730.3.1.

## **nsmgSpoolDir**

### **Origin**

Netscape Directory Server 4.1

### **Definition**

Specifies the spool directory for outgoing client mail.

For example:

```
/usr/local/spool
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.

## **nsmmsgSSLCacheSize**

### **Origin**

Netscape Directory Server 4.1

### **Definition**

Specifies the number of SSL sessions to be cached

Default setting:

0

### **Syntax**

+int

### **OID**

2.16.840.1.113730.3.1.

## **nsmmsgSSLPasswdFile**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Specifies the password for each key file.

### **Syntax**

sting

### **OID**

NA

## **nsmmsgSSLPort**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Specifies the SSL (Secure Socket Layer) server port number.

### **Syntax**

boolean

### **OID**

NA

## **nsmmsgSSLSourceURL**

### **Origin**

Netscape Directory Server 4.1

### **Definition**

Specifies the URL of the SSL Messenger Express server.

For example:

```
https://nsmail-1.airius.com/html
```

Note the "s" at the end of https.

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.

## **nsmmsgSSLUseSSL**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Determines whether to disable SSL. If set to yes, then when connecting to another MTA that supports STARTTLS (in their EHLO response), always attempt to do a STARTTLS operation to establish an SSL connection.

Default setting:

yes

### **Syntax**

boolean (yes/no)

### **OID**

NA

## **nsmmsgSSLUseSSLRelay**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

If set to true, then when connecting to another MTA that supports STARTTLS (in their EHLO response), Messaging Server will always attempt to do a STARTTLS to do an SSL connection.

Default setting:

nsmmsgSSLUseSSLRelay: true

### **Syntax**

cis (Boolean true/false)

### **OID**

NA

## **nsmmsgSystemMailDir**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

No longer used in 4.1

### **Syntax**

cis, dirpath

### **OID**

NA

## **nsmmsgStripCR**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

When set to Yes, end-of-line messages to be delivered (in Unix-Deliver) are converted from CR/LF to LF.

Default setting:

Yes

### **Syntax**

boolean

### **OID**

NA

## **nsmgTimeoutCommand**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Specifies the time, in seconds, to wait between commands.

Default setting:

600

### **Syntax**

+int

### **OID**

NA

## **nsmgTimeoutData**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Specifies, in seconds, the maximum time to wait for each DATA line.

Default setting:

600

### **Syntax**

+int

### **OID**

NA

## **nsmsgTimeoutDataDot**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Specifies, in seconds, the maximum time to wait for reply to final (after sending message text).

Default setting:

900

### **Syntax**

+int

### **OID**

NA

## **nsmsgTimeoutDataSend**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Specifies, in seconds, the maximum time to wait between DATA lines. Default setting:

300

### **Syntax**

+int

### **OID**

NA

## **nsmgTimeoutGreet**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Specifies, in seconds, the maximum time to wait for reply to initial greeting.

Default setting:

600

### **Syntax**

+int

### **OID**

NA

## **nsmgTimeoutHELO**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Specifies, in seconds, the maximum time to wait for reply to HELO.

Default setting:

600

### **Syntax**

+int

### **OID**

NA

## **nsmgTimeoutMail**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Specifies, in seconds, the maximum time to wait for reply to MAIL.

Default setting:

600

### **Syntax**

+int

### **OID**

NA

## **nsmgTimeoutQuit**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Specifies, in seconds, the maximum time to wait for reply to QUIT.

Default setting:

600

### **Syntax**

+int

### **OID**

NA

## **nsmgTimeoutRcpt**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Specifies, in seconds, the maximum time to wait for reply to RCPT.

Default setting:

600

### **Syntax**

+int

### **OID**

NA

## **nsmgTimeoutRset**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Specifies, in seconds, the maximum time to wait for reply to RSET.

Default setting:

600

### **Syntax**

+int

### **OID**

NA

## **nsmgUmask**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

This is not a configurable parameter.

The pre-configured setting is:

077

### **Syntax**

int

### **OID**

NA

## **nsmsgUnknownAcctsActions**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Specifies actions to take when a message recipient is been determined to be unknown.

Possible actions include:

- 1: return
- 2: hold (Note, do not specify "hold" when running Messaging Server 4.x.)
- 4: notify
- 8: log

The numeric value you specify is cumulative and represents the total numeric sum of actions added together. For example to specify both return and notify, you would enter 5 because  $1+4=5$ . See also `nsmsgHopCountExceedActions`.

Default setting:

13

The default setting of 13 specifies return, notify, and log ( $1+4+8=13$ ).

### **Syntax**

int (1-15)

### **OID**

NA

## **nsmmsgUseMX**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

When set to Yes, MX records are used when looking up an SMTP client domain in DNS. When set to No, A records are used.

Default setting:

Yes

### **Syntax**

cis

### **OID**

NA

## **nsmmsgVerifyRcpt**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Used to verify RCPTS in "Accept:" (when received in "RCTP To:" command in SMTP session).

Default setting:

No

### **Syntax**

cis

### **OID**

NA

## **nsmsgVersion**

### **Origin**

Netscape Messaging Server 4.0

### **Definition**

Reserved for internal use. Specifies the current version of the Messaging Server.

Default setting:

4.0

### **Syntax**

cis

### **OID**

NA

# Attributes: nsNewsACL— x500UniqueIdentifier

## nsnewsACL

### Origin

Netscape Collabra Server

### Definition

Used to identify the access control set for individual news groups. The format and nature of the information placed on this attribute by the Collabra Server is subject to change without notice.

For example:

```
nsnewsACL: 2:*:a:D::admin:bpolk::d:*:a:D::manager:admin::d
```

### Syntax

cis

### OID

2.16.840.1.113730.3.1.191

## **nsNickname**

### **Origin**

Netscape Administration Server 4.0

### **Definition**

The nickname for the Netscape product. For example, admin for Netscape Administration Server.

For example:

```
nsnickname:admin, slapd, msg
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.283

## **nsNumDepts**

### **Origin**

Netscape Delegated Administrator 4.0

### **Definition**

Identifies the number of departments in use in delegated administrator.

For example:

```
nsNumDepts:20
```

### **Syntax**

cis

### **OID**

NA

## **nsNumDomains**

### **Origin**

Netscape Delegated Administrator 4.0

### **Definition**

Specifies the number of delegated administration domains.

For example:

```
nsNumDomains:10
```

### **Syntax**

cis

### **OID**

NA

## **nsNumUsers**

### **Origin**

Netscape Delegated Administrator 4.0

### **Definition**

Identifies the number of user accounts in use in delegated administrator.

For example:

```
nsNumUsers:25
```

### **Syntax**

cis

### **OID**

NA

## **nsNYR**

### **Origin**

Netscape Administration Server 4.0

### **Definition**

Indicates whether the user has the LiveLead function in the Netscape console.

For example:

```
nsnyr:true
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.271

## **nsOSVersion**

### **Origin**

Netscape Administration Server 4.0

### **Definition**

The operating system version of the host machine.

For example:

```
nsOsVersion:Windows NT4.0 (Build 1381)
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.287

## **nsPIDLog**

### **Origin**

Netscape Administration Server 4.0

### **Definition**

Specifies the location of the PID log file.

For example:

```
nspidlog:admin-serv/logs/pid
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.305

## **nsPrettyName**

### **Origin**

Netscape Collabra Server

### **Definition**

Identifies the pretty name or display name for the news group. Used on ngroup entries to identify individual news groups. The format and nature of the information placed on this attribute by the Collabra Server is subject to change without notice.

For example:

```
nsprettyname: MKTG FOR RACHU
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.193

## **nsPreference**

### **Origin**

Netscape Administration Server 4.0

### **Definition**

Stores user preference information for the Netscape console.

For example:

```
nspreference:N/A
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.273

## **nsProductName**

### **Origin**

Netscape Administration Server 4.0

### **Definition**

Specifies the official Netscape product Name.

For example:

```
nsproductname:Netscape Administration Server
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.291

## **nsProductVersion**

### **Origin**

Netscape Administration Server 4.0

### **Definition**

The version number for the installed Netscape product.

For example:

```
nsproductversion:4.0
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.293

## **nsRevisionNumber**

### **Origin**

Netscape Administration Server 4.0

### **Definition**

The internal build revision number of the Netscape product.

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.295

## **nsSearchFilter**

### **Origin**

Netscape Delegated Administrator 4.0

### **Definition**

Not available in 4.0. Reserver for future development.

For example:

`nsSearchFilter:`

### **Syntax**

`cis`

### **OID**

NA

## **nsSerialNumber**

### **Origin**

Netscape Administration Server 4.0

### **Definition**

The serial number of the product.

For example:

`nsserialnumber:`

### **Syntax**

`cis`

### **OID**

2.16.840.1.113730.3.1.296

## **nsServerAddress**

### **Origin**

Netscape Administration Server 4.0

### **Definition**

The IP address of the server.

For example:

```
nsserveraddress:208.12.63.101
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.281

## **nsServerCreationClassname**

### **Origin**

Netscape Administration Server 4.0

### **Definition**

When a value is defined for this parameter, indicates that the installed server product supports creation of new instances. The java API is specific in the value.

For example:

```
nsservercreationclassname:com.netscape.admin.dirserv.task.MigrateCreate@ds40.jar
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.301

## **nsServerID**

### **Origin**

Netscape Administration Server 4.0

### **Definition**

Specifies the server product ID.

For example:

```
ns serverid:admin-serv, slapd-kizzame
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.276

## **nsServerMigrationClassname**

### **Origin**

Netscape Administration Server 4.0

### **Definition**

When a value is present for this parameter, indicates that the installed server product supports migration from previous versions. The value is the java API that does themigration.

For example:

```
nsservermigrationclassname:com.netscape.management.admserv.AdminServerP  
roduct@admserv40.jar
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.300

## **nsServerPort**

### **Origin**

Netscape Administration Server 4.0

### **Definition**

The port number of the server.

For example:

```
nsserverport:389
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.280

## **nsServerSecurity**

### **Origin**

Netscape Administration Server 4.0

### **Definition**

Used to enable and disable server security.

For example:

```
nssecurityserver:on
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.308

## **nsSNMPContact**

### **Origin**

Netscape Directory Server

### **Definition**

Optional contact person for the server. This information is provided to any SNMP client querying the directory SNMP agent

For example:

```
nsSNMPContact:miguel@acme.com
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.235

## **nsSNMPDescription**

### **Origin**

Netscape Directory Server

### **Definition**

Optional description of the server. This information is provided to any SNMP client querying the directory SNMP agent.

For example:

```
nsSNMPDescription:Netscape Directory Server for Human Resources
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.236

## **nsSNMPEnabled**

### **Origin**

Netscape Directory Server

### **Definition**

Set to on if SNMP statistics collection is to be enabled. Set to off to disable.

For example:

```
nsSNMPEnabled: on
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.232

## **nsSNMPLocation**

### **Origin**

Netscape Directory Server

### **Definition**

Optional name of the location of the server. This information is provided to any SNMP client querying the directory SNMP agent.

For example:

```
nsSNMPLocation:Red Bluff, CA
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.234

## **nsSNMPMasterHost**

### **Origin**

Netscape Directory Server

### **Definition**

UNIX only: Identifies the required host name for the server where the SNMP master agent is running.

For example:

```
nsSNMPMasterHost:server.acme.com
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.237

## **nsSNMPMasterPort**

### **Origin**

Netscape Directory Server

### **Definition**

UNIX only: Identifies the required port for directory SNMP subagent to use to communicate with the SNMP master agent. With DS 4.0, the port should be set to 199.

For example:

```
nsSNMPMasterPort:199
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.238

## **nsSNMPOrganization**

### **Origin**

Netscape Directory Server

### **Definition**

Optional name of the Organization managing and owning this server. This information is provided to any SNMP client querying the directory SNMP agent.

For example:

```
nsSNMPOrganization:Acme Communications, Ltd.
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.233

## **nsSSL2**

### **Origin**

Netscape Administration Server 4.0

### **Definition**

Used to enable and disableSSL2 ciphers.

For example:

```
nsssl2:on
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.311

## **nsSSL2Ciphers**

### **Origin**

Netscape Administration Server 4.0

### **Definition**

Lists SSL2-supported ciphers, with -/+(off/on) attributes.

For example:

```
nsssl2ciphers:+rc4,+rc4export,-rc2,+rc2export,-des,+desede3
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.316

## **nsSSL3**

### **Origin**

Netscape Administration Server 4.0

### **Definition**

Used to enable and disable SSL3 ciphers.

For example:

```
nsssl3:on
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.312

## nsSSL3Ciphers

### Origin

Netscape Administration Server 4.0

### Definition

Lists SSL3-supported ciphers, with -/+(off/on) attributes.

For example:

```
nsssl2ciphers:+rsa_rc4_128_md5,-rsa_3des_sha,+rsa_des_sha,-  
rsa_rc4_40_md5,+rsa_rc2_40_md5,-rsa_null_md
```

### Syntax

cis

### OID

2.16.840.1.113730.3.1.317

## nsSSL3SessionTimeout

### Origin

Netscape Administration Server 4.0

### Definition

Specifies, in seconds, the SSL v3 cipher session timeout value. Hard-coded, not configurable.

For example:

```
nsssl3sessiontimeout:
```

### Syntax

cis

### OID

2.16.840.1.113730.3.1.315

## **nsSSLActivation**

### **Origin**

Netscape Administration Server 4.0

### **Definition**

Used to enable a cipher family.

For example:

```
nssslactivation:on
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.320

## **nsSSLClientAuth**

### **Origin**

Netscape Administration Server 4.0

### **Definition**

Used by other servers to enable and disable certificate-based client authentication.

For example:`nssslclientauth:on`

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.31

## **nsSSLPersonalitySSL**

### **Origin**

Netscape Administration Server 4.0

### **Definition**

Specifies the certificate name.

For example:

```
nssslpersnalityssl:Server-Cert
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.319

## **nsSSLSessionTimeout**

### **Origin**

Netscape Administration Server 4.0

### **Definition**

Specifies, in seconds, the SSL2 cipher session timeout value. Hard-coded, not configurable.

For example:

```
nssslsessiontimeout:0
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.314

## **nsSSLToken**

### **Origin**

Netscape Administration Server 4.0

### **Definition**

Specifies the token name for the security modules. This specifies which modules should be used for encryption.

For example:

```
nsssltoken:internal(software)
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.318

## **nsslapdBackend**

### **Origin**

Netscape Directory Server 4.0

### **Definition**

cn of Database backend associated with the particular plugin.

For example:

```
nsslapd-backend: cn=ldbm
```

### **Syntax**

dn

### **OID**

2.16.840.1.113730.3.1.239

## **nsslapdPluginDescription**

### **Origin**

Netscape Directory Server 4.0

### **Definition**

Short description of the plugin.

For example:

```
nsslapd-plugindescription: "telephone attribute syntax plugin"
```

### **Syntax**

**cis**

### **OID**

2.16.840.1.113730.3.1.230

## **nsslapdPluginEnabled**

### **Origin**

Netscape Directory Server 4.0

### **Definition**

Determines whether the plugin is on or off. Set to on to enable the plug-in. Set to off to disable the plugin.

For example:

```
nsslapdpluginenabled:o
```

### **Syntax**

**cis**

### **OID**

2.16.840.1.113730.3.1.231

## **nsslapdPluginId**

### **Origin**

Netscape Directory Server 4.0

### **Definition**

Provides the string used to identify the plugin.

For example:

```
nsslapd-pluginid: "bin-syntax
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.127

## **nsslapdPluginInitFunc**

### **Origin**

Netscape Directory Server 4.0

### **Definition**

Identifies the function called by slapd to initialize the plugin when it is loaded.

For example:

```
nsslapd-pluginInitfunc:"orderingRule_init"
```

### **Syntax**

ces

### **OID**

2.16.840.1.113730.3.1.225

## **nsslapdPluginPath**

### **Origin**

Netscape Directory Server 4.0

### **Definition**

Provides the fully-qualified path to the directory plugin.

For example:

```
nsslapd-pluginpath: /export2/ds4/lib/liblcoll.so
```

### **Syntax**

ces

### **OID**

2.16.840.1.113730.3.1.224

## **nsslapdPluginType**

### **Origin**

Netscape Directory Server 4.0

### **Definition**

Identifies the type of plugin. For example, a plugin could be identified as

- database
- postoperation
- preoperation
- syntax
- matchingRule

For example:

```
nsslapd-pluginintype:"matching rule"
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.226

## **nsslapdPluginVendor**

### **Origin**

Netscape Directory Server 4.0

### **Definition**

Identifies the plugin vendor.

For example:

```
nsslapd-pluginvendor: Netscape
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.229

## **nsslapdPluginVersion**

### **Origin**

Netscape Directory Server 4.0

### **Description**

Identifies the version number of the plugin.

For example:

```
nsslapd-pluginversion:4.0b1
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.228

## **nsSuiteSpotUser**

### **Origin**

Netscape Administration Server 4.0

### **Definition**

Specifies the UNIX user account for servers installed in the server root.

For example:

```
nssuitespotuser:nobody
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.303

## **nsSystemIndex**

### **Origin**

Netscape Directory Server

### **Definition**

The server uses this attribute to distinguish system indexes from user-specified indexes.

Indexes the server always maintains and indexes required for efficient functioning of the server have the value of “true”.

User-specified indexes have the value of “false” (unless the server also maintains this index internally, in which case it may have the value of “true”).

For example:

```
nsSystemIndex:true
```

### **Syntax**

cn

### **OID**

2.16.840.1.113730.3.1.242

## **nsTaskLabel**

### **Origin**

Netscape Administration Server 4.0

### **Definition**

Specifies the label for the program to reference a task.

For example:

```
nstasklabel:configuration
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.321

## **nsUniqueAttribute**

### **Origin**

Netscape Administration Server 4.0

### **Definition**

Used with nsUserIDFormat to determine the uid format of new user objects created in the Netscape console. When the value of nsUniqueAttribute is set to “cn”, “mail” or another attribute, then the uid will be a copy of the specified attribute. When the value of nsUniqueAttribute is set to “uid”, then the Netscape console will create the uid according to nsUserIDFormat.

For example:nsUniqueAttribute:uid

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.266

## **nsUserIDFormat**

### **Origin**

Netscape Administration Server 4.0

### **Definition**

Used with nsUniqueAttribute to determine the uid format of new user objects created in the Netscape console. When the value of nsUniqueAttribute is set to "uid", then the Netscape console will create the UID according to nsUserIDFormat. Possible values include:

- firstletter\_lastname
- givenname\_firstletter
- lastname\_givenname
- givenname\_lastname

For example:

```
nsuseridformat:firstletter_lastname
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.267

## **nsUserRDNComponent**

### **Origin**

Netscape Administration Server 4.0

### **Definition**

Used to specify the default RDN for new user object. The default value is “uid”.

For example:

```
nsuserrdncomponent:uid
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.268

## **nsViewConfiguration**

### **Origin**

Netscape Administration Server 4.0

### **Definition**

Used to store the default custom view configuration information. Contains a list of object ids. The Netscape console uses this object ID to display the custom view's object.

For example:

```
nsviewconfiguration:cn=admin-server-machine,cn=Netscape Administration
Server, cn=Server Group, cn=machine.mcom.com, ou=mcom.com,
o=NetscapeRoot|cn=admin-server-machine1,cn=Netscape Administration
Server, cn=Server Group, cn=machine1.mcom.com, ou=mcom.com,
o=NetscapeRoot
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.275

## **nsWellKnownJarfiles**

### **Origin**

Netscape Administration Server 4.0

### **Definition**

Used to list all known plugin jar files reserved for later use.

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.270

## **nswmExtendedUserPrefs**

### **Origin**

Netscape Messagng Server 4.1

### **Definition**

Defines user preferences for Netscape Messenger Express.

### **Syntax**

cis

### **OID**

NA

## **nsVendor**

### **Origin**

Netscape Administration Server 4.0

### **Definition**

Identifies the product vendor.

For example:

```
nsvendor:Spong Communications Company
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.290

## **ntGroupAttributes**

### **Origin**

Netscape Directory Server (version 1.0 only)

### **Definition**

Reserved for use by the NT synchronization service to store the attributes of an NT group.

For example:

`ntGroupAttributes:`

### **Syntax**

bin (single)

### **OID**

1.2.840.113556.1.4.152

## **ntGroupCreateNewGroup**

### **Origin**

Netscape Directory Server (version 1.0 only)

### **Definition**

Reserved for use by the NT synchronization service.

For example:

`ntGroupCreateNewGroup:`

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.45

## **ntGroupDeleteGroup**

### **Origin**

Netscape Directory Server 1.0

### **Definition**

Reserved for use by the NT synchronization service.

For example:

`ntGroupDeleteGroup:`

### **Syntax**

`cis` (single)

### **OID**

2.16.840.1.113730.3.1.46

## **ntGroupDomainId**

### **Origin**

Netscape Directory Server 1.0

### **Definition**

Used by the NT synchronization service to store the NT Global Groupname/  
Domain.

### **Syntax**

`cis`

### **OID**

2.16.840.1.113730.3.1.44

## **ntGroupId**

### **Origin**

Netscape Directory Server 1.0

### **Definition**

Undefined.

### **Syntax**

bin (single)

### **OID**

2.16.840.1.113730.3.1.110

## **ntGroupType**

### **Origin**

Netscape Directory Server x.x

### **Definition**

Indicates the type of NT group. Valid values include:

- NT Localgroup
- NT Globalgroup

For example:

```
ntGroupType: NT Globalgroup
```

### **Syntax**

cis (single)

### **OID**

2.16.840.1.113730.3.1.47

## **ntUserAcctExpires**

### **Origin**

Netscape Directory Server

### **Definition**

Indicates when the entry's Windows NT account will expire. This value is stored as a string in GMT format.

For example:

```
ntUserAcctExpires: 19961015203415
```

### **Syntax**

cis (single)

### **OID**

1.2.840.113556.1.4.159

## **ntUserAuthFlags**

### **Origin**

Netscape Directory Server

### **Definition**

Identifies an unsigned long integer that contains the entry's operator privileges on the Windows network.

For example:

```
ntUserAuthFlags: AAAAAA==
```

### **Syntax**

bin (single)

### **OID**

2.16.840.1.113730.3.1.60

## **ntUserBadPwCount**

### **Origin**

Netscape Directory Server

### **Definition**

Identifies the number of attempts to log on to the Windows account using an incorrect password. A value of 0xFFFFFFFF represents that the value is unknown.

For example:

```
ntUserBadPwCount: AAAAAA==
```

### **Syntax**

cis (single)

### **OID**

1.2.840.113556.1.4.12

## **ntUserCodePage**

### **Origin**

Netscape Directory Server

### **Definition**

Code page for the user's language of choice.

For example:

```
ntUserCodePage: AAAAAA==
```

### **Syntax**

cis (single)

### **OID**

1.2.840.113556.1.4.16

## **ntUserComment**

### **Origin**

Netscape Directory Server

### **Definition**

ASCII string representing a description or comments about this entry.

For example:

```
ntUserComment: Quality control inspector for the ME2873 product line
```

### **Syntax**

cis (single)

### **OID**

1.2.840.113556.1.4.156

## **ntUserCountryCode**

### **Origin**

Netscape Directory Server

### **Definition**

Country code for the user's language of choice.

For example:

```
ntUserCountryCode: AAAAAA==
```

### **Syntax**

cis (single)

### **OID**

1.2.840.113556.1.4.25

# ntUserCreateNewAccount

## Origin

Netscape Directory Server

## Definition

Indicates whether a corresponding NT user account should be created for the new person entry in the directory server. Accept values are true and false.

If ntUserCreateNewAccount is set to True and an NT account does not exist for the specified user name, an NT account will be created. If the attribute is set to False and an NT account does not exist, an error will be logged. If an NT account exists and the attribute is set to False, the existing NT account will be updated.

ntUserCreateNewAccount can be edited from directory server.

For example:

```
ntUserCreateNewAccount: true
```

## Syntax

cis

## OID

2.16.840.1.113730.3.1.42

## **ntUserDeleteAccount**

### **Origin**

Netscape Directory Server

### **Definition**

Indicates whether the NT user account should be deleted when the entry is deleted from the directory server. Accepted values are true and false.

If the attribute is set to true, the NT user account will be deleted when the entry is deleted from the directory server. If the attribute is set to false, the NT user account will not be deleted.

ntUserDeleteAccount can be edited from directory server.

For example:

```
ntUserDeleteAccount: true
```

### **Syntax**

cis (single)

### **OID**

2.16.840.1.113730.3.1.43

## **ntUserDomainId**

### **Origin**

Netscape Directory Server

### **Definition**

Identifies the NT domain name and user name of the entry in the format <NT-domain-name>:<NT-username>.

NTUserDomainId can be edited from the directory server.

For example:

```
ntUserDomainId: workgroup:jsmith
```

### **Syntax**

cis (single)

### **OID**

2.16.840.1.113730.3.1.41

## **ntUserFlags**

### **Origin**

Netscape Directory Server

### **Definition**

Identifies values that determine several features about the user and their account.

For example:

```
ntUserFlags: AQIBAA==
```

### **Syntax**

bin (single)

### **OID**

1.2.840.113556.1.4.38

## **ntUserHomeDir**

### **Origin**

Netscape Directory Server

### **Definition**

ASCII string that represents the path of the user's home directory. The string can be null.

For example:

```
ntUserHomeDir: c:\u\d78\jsmith\
```

### **Syntax**

cis (single)

### **OID**

1.2.840.113556.1.4.44

## **ntUserHomeDirDrive**

### **Origin**

Netscape Directory Server

### **Definition**

ASCII string that represents the drive letter assigned to the user's home directory.

For example:

```
ntUserHomeDirDrive: c:
```

### **Syntax**

cis (single)

### **OID**

1.2.840.113556.1.4.45

## **ntUserLastLogoff**

### **Origin**

Netscape Directory Server

### **Definition**

Identifies the time of the last logoff. This value is stored as a string in GMT format.

Note that if security logging is turned on, then this attribute is updated on synchronization only if some other aspect of the user's entry has changed.

For example:

```
ntUserLastLogoff: 19961015203415Z
```

### **Syntax**

cis (single)

### **OID**

1.2.840.113556.1.4.51

## **ntUserLastLogon**

### **Origin**

Netscape Directory Server

## **ntUserLastLogon**

### **Definition**

Identifies the time of the last logon. This value is stored as a string in GMT format. If security logging is turned on, then this attribute is updated on synchronization only if some other aspect of the user's entry has changed.

For example:

```
ntUserLastLogon: 19961015203415Z
```

### **Example**

### **Syntax**

cis (single)

### **OID**

1.2.840.113556.1.4.52

## **ntUserLogonHours**

### **Origin**

Netscape Directory Server

### **Definition**

Identifies the times during which the user may log on. Time is represented by a one-to-one correspondence between the hour of the week and a bit within the string. If security logging is turned on, then this attribute is updated on synchronization only if some other aspect of the user's entry has changed.

bit 0 word 0 is Sunday, 0:00 to 0:59. Bit 1 word 0 is Sunday, 1:00 to 1:59

For example:

```
ntUserLogonHours: ///1000011000000101111111...
```

### **Syntax**

bin (single)

### **OID**

1.2.840.113556.1.4.64

## **ntUserLogonServer**

### **Origin**

Netscape Directory Server

### **Definition**

ASCII string that represents the name of the server to which the user's logon requests are sent. Server names should be preceded by two backslashes (\\). Server names of \\\* indicate that the logon request can be handled by any logon server. A null string represents that requests are sent to the domain controller.

For example:

```
ntUserLogonServer: \\firefly
```

### **Syntax**

cis (single)

### **OID**

2.16.840.1.113730.3.1.65

## **ntUserMaxStorage**

### **Origin**

Netscape Directory Server

### **Definition**

Maximum amount of disk space the user may use.

For example:

```
ntUserMaxStorage: //W==
```

### **Syntax**

bin (single)

### **OID**

1.2.840.113556.1.4.76

## **ntUserNumLogons**

### **Origin**

Netscape Directory Server

### **Definition**

Identifies the number of successful logons to this account. A value of 0xFFFFFFFF indicates the value is unknown.

For example:

```
ntUserNumLogons: WwAAAA==
```

### **Syntax**

bin (single)

### **OID**

2.16.840.1.113730.3.1.6

## **ntUserParms**

### **Origin**

Netscape Directory Server

### **Definition**

Unicode string reserved for use by applications.

For example:

```
ntUserParms: Temp date is today
```

### **Syntax**

cis (single)

### **OID**

2.16.840.1.113730.3.1.62

## **ntUserPasswordExpired**

### **Origin**

Netscape Directory Server

### **Definition**

Identifies if the user's NT password has expired. The value will be zero if the password has not expired, or nonzero if it has.

For example:

```
ntUserPasswordExpired: AAAAAA==
```

### **Syntax**

bin (single)

### **OID**

2.16.840.1.113730.3.1.68

## **ntUserPrimaryGroupId**

### **Origin**

Netscape Directory Server

### **Definition**

Identifies the relative ID (RID) of the Primary Global Group for the user.

For example:

```
ntUserPrimaryGroupId: AQJAAA==
```

### **Syntax**

bin (single)

### **OID**

1.2.840.113556.1.4.98

## **ntUserPriv**

### **Origin**

Netscape Directory Server

### **Definition**

Identifies the user's level of privilege on the Window's NT Network.

### **Syntax**

bin (single)

### **OID**

2.16.840.1.113730.3.1.59

## **ntUserProfile**

### **Origin**

Netscape Directory Server

### **Definition**

Identifies a path to the user's profile.

For example:

```
ntUserProfile: c:\u\d78\jsmith\profile.txt
```

### **Syntax**

cis (single)

### **OID**

2.16.840.1.113730.3.1.67

## **ntUserScriptPath**

### **Origin**

Netscape Directory Server

### **Definition**

ASCII string that represents the path to the user's logon script.

For example:

```
ntUserScriptPath: c:\u\d78\jsmith\lscript.bat
```

### **Syntax**

cis (single)

### **OID**

1.2.840.113556.1.4.62

## **ntUserUniqueId**

### **Origin**

Netscape Directory Server

### **Definition**

Identifies the unique identifier of an NT user. The identifier uniquely identifies the user to SAM within the domain for all time.

For example:

```
ntUserUniqueId: 6AMAAA==
```

### **Syntax**

bin (single)

### **OID**

2.16.840.1.113730.3.1.66

## **ntUserUnitsPerWeek**

### **Origin**

Netscape Directory Server

### **Definition**

Identifies the number of equal length time units to divide the week into in order to compute the length of ntUserLogonHours.

For example:

```
ntUserUnitsPerWeek: qAAAAA==
```

### **Syntax**

bin (single)

### **OID**

2.16.840.1.113730.3.1.6

## **ntUserUsrComment**

### **Origin**

Netscape Directory Server

### **Definition**

ASCII string representing a description or comments about this entry.

For example:

```
ntUserUsrComment: Quality control inspector for the ME2873 product line
```

### **Syntax**

cis (single)

### **OID**

2.16.840.1.113730.3.1.61

## **ntUserWorkstations**

### **Origin**

Netscape Directory Server

### **Definition**

ASCII string that represents the names of workstations from which the user may log on. Up to eight workstations may be specified by separating each with a comma. Use null to allow the user to log on from any workstation.

For example:

```
ntUserWorkstations: firefly
```

### **Syntax**

cis (single)

### **OID**

1.2.840.113556.1.4.86



## **o (organizationName)**

### **Origin**

LDAP

### **Definition**

Identifies the name of the organization.

For example:

```
organizationName: Airius, Inc.
```

or

```
o: Airius, Inc
```

### **Syntax**

cis

### **OID**

2.5.4.10

## **objectClass**

### **Origin**

LDAP

### **Definition**

Specifies the object classes of the object. Must include the object.

For example:

```
objectClass: person
```

### **Syntax**

cis, 1-many

### **OID**

2.5.4.0

## **objectClasses**

### **Origin**

LDAP

### **Definition**

Operational, multi-valued attribute that defines the object classes used in a subschema. Each value defines one object class.

### **Syntax**

operational (multiple)

### **OID**

2.5.21.6

## **obsoletedByDocument**

### **Origin**

NA

### **Definition**

Contains the distinguished name of a document that obsoletes the document entry.

### **Syntax**

dn

### **OID**

NA

## **obsoletesDocument**

### **Origin**

NA

### **Definition**

Contains the distinguished name of a document that is obsoleted by the document entry.

### **Syntax**

dn

### **OID**

NA

## **oid**

### **Origin**

Netscape Directory Server

Definition

Used by the directory server to uniquely identify a feature.

The following example is the VLV request control OID:

oid: 2.16.840.1.113730.3.4.9

### **Syntax**

cis

### **OID**

NA

## **oncRpcNumber**

### **Origin**

Netscape Directory Server 4.0

### **Definition**

NA

### **Syntax**

int

### **OID**

1.3.6.1.1.1.1.18

## **organizationalStatus**

### **Origin**

Netscape Directory Server

### **Definition**

Specifies a category by which a person is often referred to in an organization.

For example:

```
organizationalStatus: researcher
```

### **Syntax**

cis

OID

0.9.2342.19200300.100.1.45

## **otherMailbox**

### **Origin**

Netscape Directory Server

### **Definition**

Specifies values for electronic mailbox types other than X.400 and rfc822.

For example:

```
otherMailbox: internet $ jdoe@airius.com
```

### **Syntax**

cis

### **OID**

2.0.9.2342.19200300.100.1.2

## **ou (organizationUnitName)**

### **Origin**

LDAP

### **Definition**

Identifies the name of an organizational unit.

For example:

```
organizationUnitName: Marketing
```

or

```
ou: Marketing
```

### **Syntax**

cis

### **OID**

2.5.4.11

## **owner**

### **Origin**

LDAP

### **Definition**

Identifies the distinguished name (DN) of the person responsible for the entry.

For example:

```
owner: cn=John Smith, o=Netscape Communications Corp., c=US
```

### **Syntax**

dn

### **OID**

2.5.4.32

# P

## **pager**

### **Origin**

Netscape Directory Server

### **Definition**

Identifies the entry's pager phone number. Abbreviation: pager.

For example:

```
pagerTelephoneNumber: 415-555-6789
```

or

```
pager: 415-555-6789
```

### **Syntax**

tel

OID

0.9.2342.19200300.100.1.42

## **passwordAllowChangeTime**

### **Origin**

Netscape Directory Server

### **Definition**

Used by password policy to store the time when the next password change is allowed.

### **Syntax**

cis (operational)

### **OID**

2.16.840.1.113730.3.1.214

# passwordChange

## Origin

Netscape Directory Server (3.x functionality simplified for 4.0)

## Definition

Determines whether users can or cannot change passwords. Accepted values for directory server release 4.0:

- 1 -- user can change password
- 0 -- user cannot change password

This attribute's functionality was slightly different in release 3.x. Accepted values for directory server, release 3.x:

- must -- user required to change password at a designated interval
- may -- user may change password at user's discretion
- no -- user cannot change password

For example:

```
passwordChange: no
```

## Syntax

cis

## OID

2.16.840.1.113730.3.1.102

## **passwordCheckSyntax**

### **Origin**

Netscape Directory Server

### **Definition**

Determines whether password syntax checking is on or off.

Accepted values:

- 1 -- syntax checking is on
- 0 -- syntax checking is off.

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.103

## **passwordExp**

### **Origin**

Netscape Directory Server

### **Definition**

Determines whether user passwords expire.

Accepted values:

- 1 -- passwords expire
- 0 -- passwords never expire

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.98

## **passwordExpirationTime**

### **Origin**

Netscape Directory Server

### **Definition**

Defines, in YYYYMMDDHHMMSS format, the date and time when a user password expires.

For example:

```
passwordExpirationTime: 19991231235959
```

### **Syntax**

cis (operational)

### **OID**

2.16.840.1.113730.3.1.91

## **passwordExpWarned**

### **Origin**

Netscape Directory Server

### **Definition**

Indicates whether a password expiration warning has been sent to a user.  
Accepted values:

- 1 -- indicates that a warning has been sent to the user
- 0 -- indicates that no warning has been sent to the user.

### **Syntax**

cis (operational)

### **OID**

2.16.840.1.113730.3.1.9

## **passwordHistory**

### **Origin**

Netscape Directory Server

### **Definition**

Provides a history of the user's passwords in the format  
YYYYMMDDHHMMSS{encryption method}[password]

For example:

```
passwordHistory: 19990909190821{SHA}FSG7BH6Aa6LK3UVISIZMytdgtQ8
```

### **Syntax**

bin (operational)

### **OID**

2.16.840.1.113730.3.1.96

## **passwordInHistory**

### **Origin**

Netscape Directory Server

### **Definition**

Specifies how many entries should be stored in the history list (when a password history is being maintained).

For example:

```
passwordInHistory: 6
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.101

## **passwordKeepHistory**

### **Origin**

Netscape Directory Server

### **Definition**

Determines whether password histories should be kept for users.

Accepted values:

- 1 -- password histories maintained for users
- 0 -- no password histories maintained for users

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.100

## **passwordLockout**

### **Origin**

Netscape Directory Server

### **Definition**

Determines whether users can be locked out after a succession of failed attempts to bind to the directory.

Accepted values:

- 1 -- users can be locked out
- 0 -- users can't be locked out.

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.105

## **passwordLockoutDuration**

### **Origin**

Netscape Directory Server

### **Definition**

Specifies, in seconds, the period of time to lock users out of the directory. This attribute goes into effect when the user attempts the number of retries specified by the passwordMaxFailure attribute.

For example:

```
passwordLockoutDuration:600
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.109

## **passwordMaxAge**

### **Origin**

Netscape Directory Server

### **Definition**

Specifies, in seconds, the period of time passwords can be used before they expire.

For example:

```
passwordMaxAge:8640000
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.97

## **passwordMaxFailure**

### **Origin**

Netscape Directory Server

### **Definition**

Specifies the maximum number of failed attempts to bind to the directory permitted before the server locks the user out.

For example:

```
passwordMaxFailure: 3
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.106

## **passwordMinAge**

### **Origin**

Netscape Directory Server

### **Definition**

Specifies, in seconds, the period of time a password must be in effect before a user can change it.

Once password is created or changed, it cannot be modified for the period of time specified password MinAge time. A setting of “0” allows the user to change the password at any time.

For example:

```
passwordMinAge: 0
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.22

## **passwordMinLength**

### **Origin**

Netscape Directory Server

### **Definition**

Specifies the minimum number of characters required for a user's password.

For example:

```
passwordMinLength:6
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.99

## **passwordMustChange**

### **Origin**

Netscape Directory Server

### **Definition**

Specifies whether users must change their password the first time they login (or the first time following a password reset by the administrator).

If this attribute is set to on, the user will be allowed to change the password one time, even if passwordChanges attribute is set to off. Acceptable values:

- 0 -- users don't have to change passwords following initial login/password reset
- 1 -- users must change password following initial login/password reset.

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.220

## **passwordResetDuration**

### **Origin**

Netscape Directory Server

### **Definition**

Specifies, in seconds, the period of time that passes before the server resets the retry count to zero.

For example:

```
passwordresetduration:600
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.107

## **passwordResetFailureCount**

### **Origin**

Netscape Directory Server

### **Definition**

Specifies the period of time that passes before the server resets the retry count to zero. The password failure count needs to be reset to zero periodically, in order to make sure the failure count does not grow to the point where the user is logged out automatically.

For example:

```
passwordresetfailurecount:600
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.223

## **passwordRetryCount**

### **Origin**

Netscape Directory Server

### **Definition**

Records the number of times a user has tried to bind to the directory continuously using an incorrect password.

For example:

```
passwordRetryCount: 3
```

### **Syntax**

cis (operational)

### **OID**

2.16.840.1.113730.3.1.93

# passwordStorageScheme

## Origin

Netscape Directory Server

## Definition

Specifies the type of encryption method. When possible, Netscape recommends using sha as the storage scheme. A null string entered in the form of two double quotation marks indicates that passwords are to be stored in plain text. Acceptable values:

- sha (Secure Hash Algorithm)
- crypt (UNIX crypt algorithm compatible with UNIX passwords).

For example:

```
passwordStorageScheme: sha
```

## Syntax

cis

## OID

2.16.840.1.113730.3.1.221

## **passwordUnlock**

### **Origin**

Netscape Directory Server

### **Definition**

Specifies whether or not users should be locked out forever after a specified number of failed attempts to bind to the directory. Acceptable values are 1 and 0; where 1 means users shouldn't be locked out forever, and 0 means that users should be locked out forever.

For example:

```
passwordUnlock: 0
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.108

## **passwordWarning**

### **Origin**

Netscape Directory Server

### **Definition**

Defines, in seconds, when to send a warning message to users about impending password expiration. In the following example, a warning message would be sent to users one day before their password expires.

For example:

```
passwordWarning:86400
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.104

## **personalSignature**

### **Origin**

Netscape Directory Server

### **Definition**

A signature file, in binary format, for the entry

For example:

```
personalSignature: AAAAAA==
```

### **Syntax**

bin

### **OID**

0.9.2342.19200300.100.1.53

## **personalTitle**

### **Origin**

Netscape Directory Server

### **Definition**

Specifies a personal title for a person. Examples of personal titles are "Ms", "Dr", "Prof" and "Rev".

For example:

```
personalTitle: Mr
```

### **Syntax**

cis

### **OID**

0.9.2342.19200300.100.1.40

## **photo**

### **Origin**

Netscape Directory Server

### **Definition**

Contains a photo, in binary form, of the entry.

For example:

```
photo: AAAAAA==
```

### **Syntax**

bin

### **OID**

0.9.2342.19200300.100.1.7

## **physicalDeliveryOfficeName**

### **Origin**

LDAP

### **Definition**

Identifies the name of the city or village where a physical delivery office is located.

For example:

```
physicalDeliveryOfficeName: Santa Clara
```

### **Syntax**

cis

### **OID**

2.5.4.19

## **pipCompassServers**

### **Origin**

Netscape Compass Server

### **Definition**

Undefined

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.138

## **pipFormat**

### **Origin**

Netscape Compass Server

### **Definition**

Defines the format of the free text search profile update sent to the user.

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.144

## **pipFrequency**

### **Origin**

Netscape Compass Server

### **Definition**

Specifies how often a user receives My Compass newsletters.

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.142

## **pipGroup**

### **Origin**

Netscape Compass Server

### **Definition**

Undefined

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.158

## **pipHour**

### **Origin**

Netscape Compass Server

### **Definition**

**Specifies the hours during the day that a user receives free text search profile updates.**

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.145

## **pipIdStCount**

### **Origin**

Netscape Compass Server

### **Definition**

Defines the last unique ID used by the user.

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.159

## **pipIRList**

### **Origin**

Netscape Compass Server

### **Definition**

Specifies the domains and newsgroups a user wishes to monitor.

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.150

## **pipIROption**

### **Origin**

Netscape Compass Server

### **Definition**

Specifies whether entries in pipIRList will be updated or excluded from updates.

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.151

## **pipLastCount**

### **Origin**

Netscape Compass Server

### **Definition**

Contains the number of matches that occurred during the last update.

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.153

## **pipMaxHits**

### **Origin**

Netscape Compass Server

### **Definition**

Specifies the maximum number of documents returned for each free text search profile update.

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.146

## **pipMedium**

### **Origin**

Netscape Compass Server

### **Definition**

Describes the medium used to send information to the user about updates on free text search profiles.

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.143

## **pipNotify**

### **Origin**

Netscape Compass Server

### **Definition**

Undefined.

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.156

## **pipPrivilege**

### **Origin**

Netscape Compass Server

### **Definition**

Undefined.

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.157

## **pipPWP**

### **Origin**

Netscape Compass Server

### **Definition**

Contains the address of a Personal Web Page (PWP) database.

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.152

## **pipReservedCES1**

### **Origin**

Netscape Compass Server

### **Definition**

Reserved for future use.

### **Syntax**

ces

### **OID**

2.16.840.1.113730.3.1.188

## **pipReservedCES2**

### **Origin**

Netscape Compass Server

### **Definition**

Reserved for future use.

### **Syntax**

ces

### **OID**

2.16.840.1.113730.3.1.189

## **pipReservedCESs3**

### **Origin**

Netscape Compass Server

### **Definition**

Reserved for future use.

### **Syntax**

ces

### **OID**

2.16.840.1.113730.3.1.190

## **pipReservedCISI**

### **Origin**

Netscape Compass Server

### **Definition**

Reserved for future use.

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.182

## **pipReservedCIS2**

### **Origin**

Netscape Compass Server

### **Definition**

Reserved for future use.

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.183

## **pipReservedCIS3**

### **Origin**

Netscape Compass Server

### **Definition**

Reserved for future use.

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.184

## **pipReservedCIS**

### **Origin**

Netscape Compass Server

### **Definition**

Reserved for future use.

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.185

## **pipReservedCIS5**

### **Origin**

Netscape Compass Server

### **Definition**

Reserved for future use.

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.18

## **pipReservedCIS6**

### **Origin**

Netscape Compass Server

### **Definition**

Reserved for future use.

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.187

## **pipResultSet**

### **Origin**

Netscape Compass Server

### **Definition**

Contains a list of attributes about which the user wants to receive updates.

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.147

## **pipSortOrder**

### **Origin**

Netscape Compass Server

### **Definition**

Contains the sort order of the information in the summary report of the free text search profile update.

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.148

## **pipStatus**

### **Origin**

Netscape Compass Server

### **Definition**

Specifies whether a personal interest profile is enabled or disabled.

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.140

## **pipStCategory**

### **Origin**

Netscape Compass Server

### **Definition**

Contains the categories or search strings a user is interested in.

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.171

## **pipStFormat**

### **Origin**

Netscape Compass Server

### **Definition**

Specifies the format of the category search profile update sent to a user

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.174

## **pipStFrequency**

### **Origin**

Netscape Compass Server

### **Definition**

Specifies the frequency with which a user receives update alerts.

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.172

## **pipStHour**

### **Origin**

Netscape Compass Server

### **Definition**

Specifies the hours during the day that a user receives free category profile updates

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.175

## **pipStId**

### **Origin**

Netscape Compass Server

### **Definition**

Contains the unique ID of a search topic included in a personal interest profile.

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.160

## **pipStInterest**

### **Origin**

Netscape Compass Server

### **Definition**

Indicates the relative importance of an individual search topic in a user's personal interest profile.

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.164

## **pipStlrList**

### **Origin**

Netscape Compass Server

### **Definition**

Specifies the domains and newsgroups a user wishes to monitor.

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.180

## **pipStlrOption**

### **Origin**

Netscape Compass Server

### **Definition**

Specifies whether all entries in pipStlrList will be updated or excluded from updates.

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.181

## **pipStLastCount**

### **Origin**

Netscape Compass Server

### **Definition**

Contains the number of category matches during the last update of a personal interest profile.

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.168

## **pipStMaxHits**

### **Origin**

Netscape Compass Server

### **Definition**

Specifies the maximum number of documents returned for each category search profile update.

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.176

## **pipStMedium**

### **Origin**

Netscape Compass Server

### **Definition**

Describes the medium used to send information to a user about updates on category search profiles.

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.173

## **pipStName**

### **Origin**

Netscape Compass Server

### **Definition**

Specifies the name created by a user to describe a search topic.

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.161

## **pipStPrivacy**

### **Origin**

Netscape Compass Server

### **Definition**

Specifies whether queries of this entry should be allowed or disallowed.

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.166

## **pipStQuery**

### **Origin**

Netscape Compass Server

### **Definition**

Undefined.

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.162

## **pipStResultSet**

### **Origin**

Netscape Compass Server

### **Definition**

Contains a list of attributes about which a user wants to receive updates.

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.177

## **pipStSortOrder**

### **Origin**

Netscape Compass Server

### **Definition**

Specifies the sort order of the information in the summary report of a category search profile update.

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.178

## **pipStStatus**

### **Origin**

Netscape Compass Server

### **Definition**

Indicates the status of the personal interest profile

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.167

## **pipStTaxonomy**

### **Origin**

Netscape Compass Server

### **Definition**

Contains the taxonomy ID.

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.163

## **pipStTimestamp**

### **Origin**

Netscape Compass Server

### **Definition**

Indicates the date the category search profile was last updated for a user.

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.179

## **pipStTotalCount**

### **Origin**

Netscape Compass Server

### **Definition**

Indicates the number of category matches to date.

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.169

## **pipStTotalRun**

### **Origin**

Netscape Compass Server

### **Definition**

Indicates the number of category search updates performed to date

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.170

## **pipStType**

### **Origin**

Netscape Compass Server

### **Definition**

Specifies whether a search is a category search or a free text search.

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.165

## **pipTimeStamp**

### **Origin**

Netscape Compass Server

### **Definition**

Contains the date the free text search profile was last updated for this user.

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.149

## **pipTotalCount**

### **Origin**

Netscape Compass Server

### **Definition**

Specifies the number of matches that occurred during all updates to date.

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.154

## **pipTotalRun**

### **Origin**

Netscape Compass Server

### **Definition**

Contains the total number of personal interest profile updates to date.

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.155

## **pipUId**

### **Origin**

Netscape Compass Server

### **Definition**

Contains the user ID of the person to whom a personal interest profile belongs.

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.137

## **pipUniqueld**

### **Origin**

Netscape Compass Server

### **Definition**

Attribute used by the Compass Server that contains the unique ID of a compass user.

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.139

## **pipUserType**

### **Origin**

Netscape Compass Server

### **Definition**

Describes the type of compass user.

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.141

## **postalAddress**

### **Origin**

LDAP

### **Definition**

Identifies the entry's mailing address. This field is intended to include multiple lines. When represented in LDIF format, each line should be separated by a dollar sign (\$).

To represent an actual dollar sign (\$) or backslash (\) within this text, use the escaped hex values \24 and \5c respectively. For example, to represent the string:

```
The dollar ($) value can be found  
in the c:\cost file.
```

provide the string:

```
The dollar (\24) value can be found$in the c:\5ccost file.
```

### **Syntax**

cis

### **OID**

2.5.4.16

## **postalCode**

### **Origin**

LDAP

### **Definition**

Identifies the entry's zip code in the United States.

For example:

```
postalCode: 44224
```

### **Syntax**

cis

### **OID**

2.5.4.17

## **postOfficeBox**

### **Origin**

LDAP

### **Definition**

Specifies a postal mailing address.

For example:

```
postOfficeBox: P.O. Box 1234
```

### **Syntax**

cis

### **OID**

2.5.4.18

## **preferredDeliveryMethod**

### **Origin**

LDAP

### **Definition**

Identifies the entry's preferred contact or delivery method.

For example:

```
preferredDeliveryMethod: telephone
```

### **Syntax**

cis

### **OID**

2.5.4.28

## **preferredLanguage**

### **Origin**

Netscape Directory Server

### **Definition**

Defines a person's preferred written or spoken language. The value for this attribute should conform to the syntax for HTTP Accept-Language header values.

### **Syntax**

cis, 0-1

### **OID**

2.16.840.1.113730.3.1.39

## **presentationAddress**

### **Origin**

LDAP

### **Definition**

Contains an OSI presentation address for the entry. The presentation address consists of an OSI Network Address and up to three selectors, one each for use by the transport, session, and presentation entities.

For example:

presentationAddress: TELEX+00726322+RFC-1006+02+130.59.2.1

### **Syntax**

ces

### **OID**

2.5.4.29

## **protocolInformation**

### **Origin**

LDAP

### **Definition**

Used in conjunction with presentationAddress attribute to provide additional information to the OSO network service.

### **Syntax**

cis

### **OID**

2.5.4.48

Q

# R

## **reciprocalNamingLink**

### **Origin**

NA

### **Definition**

Undefined.

### **Syntax**

dn

### **OID**

NA

## **ref**

### **Origin**

Netscape Directory Server

### **Definition**

Used in LDAPv3 to support smart referrals. Contains an LDAP URL in the format:

```
ldap://<servername>:<portnumber>/<dn>
```

The portnumber is optional.

For example:

```
ref: ldap://server.acme.com:389/ou=People, o=acme.com
```

### **Syntax**

ces (an URL)

### **OID**

2.16.840.1.113730.3.1.34

## **registeredAddress**

### **Origin**

LDAP

### **Definition**

This attribute contains a postal address for receiving telegrams or expedited documents. The recipient's signature is usually required on delivery.

### **Syntax**

cis

### **OID**

2.5.4.26

## **replicaAbandonedChanges**

### **Origin**

Netscape Directory Server (version 1.0 only)

### **Definition**

Multivalued attribute containing the string representation of change numbers known to have been in transit to a replica when contact with the replica was lost.

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.218

## **replicaBeginOrc**

### **Origin**

Netscape Directory Server

### **Definition**

Defines whether or not the supplier server should erase the contents of the consumer server before replication. Two values are acceptable for this attribute; start and stop. Accepted values include:

- start: tells the supplier server to erase the contents of the consumer server.
- stop: tells the supplier server to abort the operation.

### **Syntax**

**cis**

### **OID**

2.16.840.1.113730.3.1.50

## **replicaBindDn**

### **Origin**

Netscape Directory Server

### **Definition**

Identifies the DN that the server uses when communicating with a replica server. This DN can be assigned privileges.

For example:

```
replicaBinddn: cn=replicator o=Netscape Communications Corp.,  
c=US
```

### **Syntax**

**cis**

### **OID**

2.16.840.1.113730.3.1.58

## **replicaBindMethod**

### **Origin**

Netscape Directory Server

### **Definition**

Identifies the method of replication to be used. This attribute does not need to be present. When present, the attribute must be set to simple. When not set to simple, a warning is printed and replication will proceed as if simple was specified.

For example:

```
replicaBindMethod: simple
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.53

## **replicaCFUpdated**

### **Origin**

Netscape Directory Server 4.x

### **Definition**

Indicates whether the previous synchronization run was able to update the consumer's copiedFrom attribute. 1 indicates that the supplier was successful. 0 indicates that it was not.

When the copiedFrom attribute cannot be updated on the consumer, falls back to using a locally-stored copy of the last changenumber known to have been replayed to the consumer.

This attribute should not be modified. Not available in version 3.x.

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.217

# replicaCredentials

## Origin

Netscape Directory Server

## Definition

Identifies the password to be used with the replicaBinddn sent to the consumer server. It is highly recommended that this attribute be specified with strict access controls.

For example:

```
replicaCredentials: bogusPassword
```

## Syntax

ces

## OID

2.16.840.1.113730.3.1.202

# replicaEntryFilter

## Origin

Netscape Directory Server

## Definition

Specifies which entries should be replicated or omitted. The entry should be constructed as follows:

```
LDAP filter $ keyword(include/exclude) $ attribute_name(s)
```

Multiple attributes can be specified by separating them with white space. In the following example, only the cn, sn, and mail attributes will be replicated.

Although the directory server allows any LDAP filter, only (objectClass=\*) is currently supported.

For example:

```
replicaEntryFilter: replicaEntryFilter: (objectClass=*) $ include $ cn  
sn mail
```

## Syntax

cis

## OID

2.16.840.1.113730.3.1.203

## **replicaHost**

### **Origin**

Netscape Directory Server

### **Definition**

Identifies the hostname of the consumer server.

For example:

```
replicaHost: slave.netscape.com
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.197

## **replicaLastRelevantChange**

### **Origin**

Netscape Directory Server

### **Definition**

Number of the last change in the changelog relevant to that particular replica. This is not always the last number in the log.

### **Syntax**

int

### **OID**

2.16.840.1.113730.3.1.408

## **replicaNickName**

### **Origin**

Netscape Directory Server

### **Definition**

Contains a freeform name that describes a particular set of replication rules between a single supplier and a single consumer server.

For example:

```
replicaNickName: currentset
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.204

## **replicaPort**

### **Origin**

Netscape Directory Server

### **Definition**

Identifies the port number of the consumer server.

For example:

```
replicaPort: 9872
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.48

## **replicaRoot**

### **Origin**

Netscape Directory Server

### **Definition**

Identifies the DN for the subtree that is being replicated to the consumer machine.

For example:

```
replicaRoot: o=Netscape Communications Corp., c=US
```

### **Syntax**

dn

### **OID**

2.16.840.1.113730.3.1.57

## **replicatedAttributeList**

### **Origin**

Netscape Directory Server

### **Definition**

Specifies which attributes should be replicated. The filter in the attribute's syntax selects the entries to which the attribute selection applies.

The entry should be constructed as follows:

```
LDAP filter $ keyword(include/exclude) $ attribute_name(s)
```

Multiple attributes can be specified by separating them with white space. For example:

```
replicatedAttributeList: (objectClass=*) $ include $ cn sn mail
```

In this example, only the cn, sn, and mail attributes would be replicated. Although the directory server allows any LDAP filter, only (objectClass=\*) is currently supported.

### **Syntax**

ces

### **OID**

2.16.840.1.113730.3.1.205

## **replicaUpdateFailedAt**

### **Origin**

Netscape Directory Server

### **Definition**

Identifies the day and time in zulu format when an update failed to complete successfully. If all updates have been successful, replicaUpdateFailedAt is blank.

For example:

```
replicaUpdateFailedAt: 199603261300z
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.49

## **replicaUpdateReplayed**

### **Origin**

Netscape Directory Server

### **Definition**

Identifies the change number of the last change propagated to the consumer server. This value is used internally between servers only.

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.51

## **replicaUpdateSchedule**

### **Origin**

Netscape Directory Server

### **Definition**

Specifies the update schedule for the consumer server. When this attribute is not present, the consumer will be updated immediately.

For example:

```
replicaUpdateSchedule: 0100-0400
```

specifies 1:00 AM - 4:00 AM, daily

```
replicaUpdateSchedule: * 06
```

specifies all day Saturday and Sunday

```
replicaUpdateSchedule: 1145-1300 24
```

specifies 11:45 AM -1:00 PM, Tuesday and Thursday

### **Syntax**

cis

OID

2.16.840.1.113730.3.1.52

## **replicaUseSSL**

### **Origin**

Netscape Directory Server

### **Definition**

Identifies whether SSL will be used to communicate with the consumer server. A non-zero value will cause SSL to be used.

For example:

```
replicaUseSSL: 0
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.54

## **retryCountResetTime**

### **Origin**

Netscape Directory Server

### **Definition**

Defines, in seconds, how much time should pass before the passwordRetryCount attribute should be reset to zero (0).

For example:

```
retryCountResetTime: 600
```

### **Syntax**

cis (operational)

### **OID**

2.16.840.1.113730.3.1.94

## **roleOccupant**

### **Origin**

LDAP

### **Definition**

Contains the distinguished name of the person acting in the role defined in the organizationalRole entry.

For example:

```
roleOccupant: cn=jdoe, o=airius.com
```

### **Syntax**

dn

### **OID**

2.5.4.33

## **roomNumber**

### **Origin**

Netscape Directory Server

### **Definition**

Specifies the room number of an object. Note that the commonName attribute should be used for naming room objects.

For example:

```
roomNumber: 230
```

### **Syntax**

cis

### **OID**

0.9.2342.19200300.100.1.6

# S

## **searchGuide**

### **Origin**

LDAP

### **Definition**

Specifies information for a suggested search criteria when using the entry as the base object in the directory tree for a search operation. When constructing search filters, use `enhancedSearchGuide` instead.

### **Syntax**

`cn`

### **OID**

2.5.4.14

## **secretary**

### **Origin**

Netscape Directory Server

### **Definition**

Identifies the entry's secretary or administrative assistant.

For example:

```
secretary: cn=John Doe, o=Airius.com
```

### **Syntax**

`dn`

### **OID**

0.9.2342.19200300.100.1.21

## **seeAlso**

### **Origin**

LDAP

### **Definition**

**Identifies another directory server entry that may contain information related to this entry.**

For example:

```
seeAlso: cn=Quality Control Inspectors, ou=manufacturing,  
o=Airius,  
c=US
```

### **Syntax**

dn

### **OID**

2.5.4.34

## **serialNumber**

### **Origin**

LDAP

### **Definition**

Specifies the serial number of a device.

For example:

```
serialNumber: 555-1234-AZ
```

### **Syntax**

cis

### **OID**

2.5.4.5

## **serverHostName**

### **Origin**

Netscape Directory Server

### **Definition**

Identifies the name of the host on which the Netscape server is installed. Normally this attribute and this attribute value are written to the directory when a Netscape server is initially installed.

For example:

```
serverHostname: twain.airius.com
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.76

## **serverProductName**

### **Origin**

Netscape Directory Server

### **Definition**

Identifies the type of the installed Netscape server. This attribute is a Netscape extension used by the netscapeServer object class. Normally this attribute and this attribute value are written to the directory when a Netscape server is initially installed.

For example:

```
serverProductName: Netscape Enterprise Server
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.71

## **serverRoot**

### **Origin**

Netscape Directory Server

### **Definition**

Identifies the fully qualified path to the installation directory for a Netscape server. This attribute is a Netscape extension used by the netscapeServer object class. Normally this attribute and this attribute value are written to the directory when a Netscape server is initially installed.

For example:

```
serverRoot: /usr/ns-home
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.70

## **serverVersionNumber**

### **Origin**

Netscape Directory Server

### **Definition**

Identifies the version number of the installed Netscape server. This attribute is a Netscape extension used by the `netscapeServer` object class. Normally this attribute and this attribute value are written to the directory when a Netscape server is initially installed.

For example:

```
serverVersionNumber: 3.0
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.72

## **shadowExpire**

### **Origin**

Netscape Directory Server 4.0

### **Definition**

NA

### **Syntax**

int

### **OID**

1.3.6.1.1.1.1.10

## **shadowFlag**

### **Origin**

Netscape Directory Server 4.0

### **Definition**

NA

### **Syntax**

int

### **OID**

1.3.6.1.1.1.1.11

## **shadowInactive**

### **Origin**

Netscape Directory Server 4.0

### **Definition**

NA

### **Syntax**

int

### **OID**

1.3.6.1.1.1.1.9

## **shadowLastChange**

### **Origin**

Netscape Directory Server 4.0

### **Definition**

NA

### **Syntax**

int

### **OID**

1.3.6.1.1.1.1.5

## **shadowMax**

### **Origin**

Netscape Directory Server 4.0

### **Definition**

NA

### **Syntax**

int

### **OID**

1.3.6.1.1.1.1.7

## **shadowMin**

### **Origin**

Netscape Directory Server 4.0

### **Definition**

NA

### **Syntax**

int

### **OID**

1.3.6.1.1.1.1.6

## **shadowWarning**

### **Origin**

Netscape Directory Server 4.0

### **Definition**

NA

### **Syntax**

int

### **OID**

1.3.6.1.1.1.1.8

## **singleLevelQuality**

### **Origin**

X.500

### **Definition**

Not relevant to LDAP.

### **Syntax**

cis (single)

### **OID**

0.9.2342.19200300.100.1.50

## **sn (surName)**

### **Origin**

LDAP

### **Definition**

Identifies the entry's surname, also referred to as last name or family name.

For example:

```
surname: Anderson
```

or

```
sn: Anderson
```

### **Syntax**

cis

### **OID**

2.5.4.4

## **st**

### **Origin**

LDAP

### **Definition**

Identifies the state or province in which the entry resides. Abbreviation: st.

For example:

```
stateOrProvinceName: California
```

or

```
st: California
```

### **Syntax**

cis

### **OID**

2.5.4.8

## **street**

### **Origin**

LDAP

### **Definition**

Identifies the entry's house number and street name.

For example:

```
streetAddress: 1234 Ridgeway Drive
```

or

```
street: 1234 Ridgeway Drive
```

### **Syntax**

cis

### **OID**

2.5.4.9

## **subject**

### **Origin**

NA

### **Definition**

Contains information about the subject matter of the document entry.

For example:

```
subject: employee option grants
```

### **Syntax**

cis

### **OID**

NA

## **subschemaSubentry**

### **Origin**

LDAP

### **Definition**

DN of an entry that contains schema information.

For example:

```
subschemaSubentry: cn=schema
```

### **Syntax**

cn

### **OID**

2.5.18.10

## **subtreeaci**

### **Origin**

Netscape Directory Server

### **Definition**

Obsoleted by aci in directory server release 3.0.

For example:

```
subtreeACI:
```

### **Syntax**

cn

### **OID**

2.16.840.1.113730.3.1.69

## **subtreeMaximumQuality**

### **Origin**

X.500

### **Definition**

Not relevant to LDAP.

### **Syntax**

cis (single)

### **OID**

0.9.2342.19200300.100.1.52

## **subtreeMinimumQuality**

### **Origin**

X.500

Definition

Not relevant to LDAP.

### **Syntax**

cis (single)

### **OID**

0.9.2342.19200300.100.1.51

## **supportedAlgorithms**

### **Origin**

LDAP

### **Definition**

This attribute to be stored and requested in the binary form, as supportedAlgorithm;binary.

For example:

```
supportedAlgorithms: AAAAAA==
```

### **Syntax**

bin

### **OID**

2.5.4.52

## **supportedApplicationContext**

### **Origin**

LDAP

### **Definition**

This attribute contains the identifiers of OSI application contexts.

### **Syntax**

cis

### **OID**

2.5.4.30

## **supportedControl**

### **Origin**

NA

### **Definition**

Used to extend LDAPv3 operations. Values are IOs.

For example:

```
supportedControl: 2.16.840.1.113370.3.4.2
```

### **Syntax**

cis

### **OID**

1.3.6.1.4.1.1466.101.120.13

## **supportedExtension**

### **Origin**

LDAP

### **Definition**

The values of this attribute are the object identifiers (OIDs) that identify the controls supported by the server. When the server does not support controls, this attribute is absent.

### **Syntax**

cis

### **OID**

1.3.6.1.4.1.1466.101.120.7

## **supportedLDAPVersion**

### **Origin**

LDAP

### **Definition**

Identifies the versions of the LDAP protocol implemented by the server.

Accepted values:

- 2: LDAPv2
- 3: LDAPv3

### **Syntax**

int

### **OID**

1.3.6.1.4.1.1466.101.120.15

## **supportedSASLMechanisms**

### **Origin**

LDAP

### **Definition**

Identifies the names of supported SASL mechanisms supported by the server. When the server does not support SASL mechanisms, this attribute is absent.

### **Syntax**

cis

### **OID**

1.3.6.1.4.1.1466.101.120.14

# T

## **targetDn**

### **Origin**

Netscape Directory Server

### **Definition**

Defines the distinguished name of an entry that was added, modified, or deleted on a supplier server. In the case of a `modrdn` operation, the `targetDn` contains the distinguished name of the entry before it was modified.

For example:

```
targetDn: cn=Jane Doe, ou=Quality Control, o=Airius.com
```

### **Syntax**

`dn`

### **OID**

2.16.840.1.113730.3.1.6

## **telephoneNumber**

### **Origin**

LDAP

### **Definition**

Identifies the entry's phone number.

For example:

```
telephoneNumber: 415-555-2233
```

### **Syntax**

`tel`

### **OID**

2.5.4.20

# teletexTerminalIdentifier

## Origin

LDAP

## Definition

Identifies the entry's teletex terminal identifier. The format of the attribute is as follows:

```
teletex-id = ttx-term 0*("$" ttx-param)
ttx-term   = printablestring
ttx-param  = ttx-key ":" ttx-value
ttx-key    = "graphic" / "control" / "misc" / "page" / "private"
ttx-value  = octetstring
```

In the above, the first printable string is the encoding of the first portion of the teletex terminal identifier to be encoded, and the subsequent 0 or more octetstrings are subsequent portions of the teletex terminal identifier.

## Syntax

cis

## OID

2.5.4.22

## **telexNumber**

### **Origin**

LDAP

### **Definition**

Defines the telex number of the entry. The format of the telex number is as follows:

```
actual-number "$" country "$" answerback
```

where:

- actual-number: the syntactic representation of the number portion of the TELEX number being encoded,
- country: the TELEX country code
- answerback: the answerback code of aTELEX terminal.

### **Syntax**

cis

### **OID**

2.5.4.21

## **textEncodedORAddress**

### **Origin**

LDAPv3

### **Definition**

Defines the text-encoded Originator/Recipient (X.400) address of the entry as defined in RFC987.

For example:

```
textEncodedORAddress: /S=doe/OU=eng/O=airius/ADMD=telemail/C=us/
```

### **Syntax**

cis

### **OID**

0.9.2342.19200300.100.1.2

## **title**

### **Origin**

LDAP

### **Definition**

Identifies the title of a person in the organization.

For example:

```
title: Senior QC Inspector
```

### **Syntax**

cis

### **OID**

2.5.4.12

## **ttl (timeToLive)**

### **Origin**

NA

### **Definition**

Contains the time, in seconds, that cached information about an entry should be considered valid. Once the specified time has elapsed, the information is considered out of date. A value of zero (0) indicates that the entry should not be cached. Abbreviation: ttl.

For example:

```
timeToLive: 120
```

or

```
ttl: 120
```

### **Syntax**

cis

### **OID**

1.3.6.1.4.1.250.1.60

# U

## **uid (userID)**

### **Origin**

LDAP

### **Definition**

Identifies the entry's userid (usually the logon ID). Abbreviation: uid.

For example:

```
userid: banderson
```

or

```
uid: banderson
```

### **Syntax**

cis, 1

### **OID**

0.9.2342.19200300.100.1.1

## **uidNumber**

### **Origin**

Netscape Directory Server 4.0

### **Definition**

An integer uniquely identifying a user in an administrative domain.

### **Syntax**

int

### **OID**

1.3.6.1.1.1.1.0

## **uniqueIdentifier**

### **Origin**

NA

### **Definition**

Identifies a specific item used to distinguish between two entries when a distinguished name has been reused. This attribute is intended to detect instance of a reference to a distinguished name that has been deleted. This attribute is assigned by the server.

For example:

```
uniqueIdentifier: AAAAAA==
```

### **Syntax**

cis

### **OID**

0.9.2342.19200300.100.1.44

## **uniqueMember**

### **Origin**

LDAP

### **Definition**

Identifies a group of names associated with an entry where each name was given a uniqueIdentifier to ensure its uniqueness. A value for the uniqueMember attribute is a DN followed by the uniqueIdentifier.

For example:

```
uniquemember:
```

### **Syntax**

dn

### **OID**

2.5.4.50

## **updatedByDocument**

### **Origin**

NA

### **Definition**

Contains the distinguished name of a document that is an updated version of the document entry.

### **Syntax**

dn

### **OID**

NA

## **updatesDocument**

### **Origin**

NA

### **Definition**

Contains the distinguished name of a document for which this document is an updated version.

### **Syntax**

dn

### **OID**

NA

## **url**

### **Origin**

Netscape Administration Server 4.0

### **Definition**

The URL for the legacy Netscape server.

For example:

```
url: http://admin
```

### **Syntax**

cis

### **OID**

2.16.840.1.113730.3.1.326

## **userCertificate**

### **Origin**

LDAP

### **Definition**

Store this attribute with the binary subtype: userCertificate;binary

For example:

```
userCertificate;binary: AAAAAA==
```

### **Syntax**

bin

### **OID**

2.5.4.36

## **userClass**

### **Origin**

NA

### **Definition**

**Specifies a category of computer user. The semantics of this attribute are arbitrary. The organizationalStatus attribute makes no distinction between computer users and others users and may be more applicable.**

For example:

```
userClass: intern
```

### **Syntax**

cis

### **OID**

0.9.2342.19200300.100.1.8

## **userPassword**

### **Origin**

LDAP

### **Definition**

This attribute identifies the entry's password and encryption method in the following format:

```
{encryption method}encrypted password
```

Transfer of cleartext passwords is strongly discouraged where the underlying transport service cannot guarantee confidentiality. Transfer of cleartext may result in disclosure of the password to unauthorized parties.

For example:

```
userPassword: {sha}FTSLQhxXpA05
```

### **Syntax**

bin, 1

### **OID**

2.5.4.35

## **userPKCS12;binary**

### **Origin**

Netscape Certificate Server

### **Definition**

Identifies the PKCS-12 PFX PDU used to store a user's key and certificate. This is generated by the certificate server and consumed by Netscape Communicator.

### **Syntax**

int

### **OID**

2.16.840.1.113730.3.1.216

## **userSMIMECertificate**

### **Origin**

Netscape Directory Server

### **Definition**

Used by Netscape Communicator for S/MIME. Should only be used with the binary subtype, userSMIMECertificate;binary.

For example:

```
userSMIMECertificate;binary: AAAAAA==
```

### **Syntax**

bin

### **OID**

2.16.840.1.113730.3.1.40

# V

## **vacationEndDate**

### **Origin**

Netscape Messaging Server 4.1

### **Definition**

Defines timed vacation messages, to end at the given date and time.

### **Syntax**

cis

### **OID**

NA

## **vacationStartDate**

### **Origin**

Netscape Messaging Server 4.1

### **Definition**

Defines timed vacation messages, to start at the given date and time.

### **Syntax**

cis

### **OID**

NA

## **vlvBase**

### **Origin**

Netscape Directory Server 4.0

### **Definition**

Defines the base dn of a Virtual List View search.

For example:

```
vlvBase:o=Airius.com
```

### **Syntax**

dn

### **OID**

2.16.840.1.113730.3.1.207

## **vlvEnabled**

### **Origin**

Netscape Directory Server 4.0

### **Definition**

**Used by the server to signal whether the index is available or unavailable. When VLV indexes are created offline, new vlvSearch entries are enabled when the indexes are rebuilt. VLV indexes can also be created while the server is running in read-only mode. This attribute is read-only and single-valued.**

For example:

```
vlvEnabled: 0
```

### **Syntax**

int

### **OID**

2.16.840.1.113730.3.1.213

## **vlvFilter**

### **Origin**

Netscape Directory Server 4.0

### **Definition**

#### **Defines the filter for a Virtual List View search**

For example:

```
vlvFilter:(uid>=r)
```

### **Syntax**

dn

### **OID**

2.16.840.1.113730.3.1.209

## **vlvScope**

### **Origin**

Netscape Directory Server 4.0

### **Definition**

Defines the scope of a Virtual List View search.

Possible values include:

- 0 = base search
- 1 = one level search
- 2 = subtree search

### **Syntax**

int

### **OID**

2.16.840.1.113730.3.1.208

## **vlvSort**

### **Origin**

Netscape Directory Server 4.0

### **Definition**

Defines the sort specification for a Virtual List View search. Consists of a list of comma-delimited attribute names. A minus sign is used to denote a reverse sort.

The example below will result in a sort by uid, then by reverse common name.

For more information, see RFC for *LDAP Control Extensions for Server Side Sorting of Search Results*.

For example:

```
vlvSort:uid, -cn
```

### **Syntax**

cn

### **OID**

2.16.840.1.113730.3.1.210

## **vlvUses**

### **Origin**

Netscape Directory Server 4.0

### **Definition**

The number displaced is incremented by the server each time a Virtual List View index has been used. Can be useful in providing debugging feedback.

For example:

```
vlvUses:7
```

### **Syntax**

int

### **OID**

2.16.840.1.113730.3.1.219

**W**

# X

## **x121Address**

### **Origin**

LDAP

### **Definition**

Defines the X.121 address of a person.

### **Syntax**

ces

### **OID**

2.5.4.24

## **x500UniqueIdentifier**

### **Origin**

LDAP

### **Definition**

Reserved for future use. A binary method of identification useful for differentiating objects when a distinguished name has been reused.

For example:

```
x500UniqueIdentifier: AAAAAA==
```

### **Syntax**

bin

### **OID**

2.5.4.45