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A Structural Object Class for Arbitrary Auxiliary Object Classes
<[draft-howard-namedobject-01.txt](#)>

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Abstract

The Lightweight Directory Access Protocol (LDAP) supports auxiliary object classes for adding additional attributes to a directory entry.

This document defines a structural object class that may be used when no other structural object class is available.

1. Background

Schema for LDAP directories often define auxiliary object classes that are intended to be used with a specific structural object class.

For example, the posixGroup object class [[RFC2307bis](#)] is an auxiliary object class that may be used to overlay POSIX group identification on an existing group of distinguished names. In this case, it is suggested that the groupOfUniqueNames object class be used as a structural object class. However, this may sometimes be inappropriate: that groupOfUniqueNames requires at least one member may make it impossible to migrate existing group information. [[RFC2307bis](#)] could define a specific structural object class for this case (say, structuralPosixGroup), but this would unnecessarily add to the proliferation of redundant schema.

This document defines a structural object class, namedObject, that mandates no attributes other than a common name. Arbitrary auxiliary object classes may be thus associated with entries which have this as a structural object class.

2. Object Class Definitions

The namedObject object class defines one mandatory attribute, a common name. The OID arc is iso(1) org(3) dod(6) internet(1) private(4) enterprise(1) padl(5322) namedObjectSchema(13) objectClasses(1).

```
( 1.3.6.1.4.1.5322.13.1.1 NAME 'namedObject' SUP top
  STRUCTURAL MAY cn )
```

Other attributes allowed by auxiliary classes may be used for naming purposes.

An example entry would be:

```
dn: cn=Sample Entry,dc=padl,dc=com
objectClass: top
objectClass: namedObject
cn: Sample Entry
```

An example entry with an auxiliary class from [[RFC2307bis](#)] would be:

```
dn: cn=wheel,ou=Groups,dc=padl,dc=com
objectClass: top
objectClass: namedObject
objectClass: posixGroup
cn: wheel
gidNumber: 0
memberUid: root
```


3. Security Considerations

The introduction of this schema element does not impact the security of the Internet. See [[RFC2251](#)] for general LDAP security considerations.

4. IANA Considerations

No IANA assignments are requested.

This document uses the OID 1.3.6.1.4.1.5322.13.1.1 to identify the name-dObject schema element. This OID was assigned by PADL Software Pty Ltd under its IANA assigned private enterprise allocation for use in this specification.

5. References

[RFC2251]

M. Wahl, T. Howes, S. Kille, "Lightweight Directory Access Protocol (v3)", [RFC 2251](#), December 1997.

[RFC2252]

Wahl, M., Coulbeck, A., Howes, T., and S. Kille, "Lightweight Directory Access Protocol (v3): Attribute Syntax Definitions", [RFC 2252](#), December 1997.

[RFC2307bis]

L. Howard, M. Ansari, "An Approach for Using LDAP as a Network Information Service", [draft-howard-rfc2307bis-02.txt](#) (a work in progress).

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