

Internet-Draft  
PKIX WG  
Intended Category: Standards Track  
Expires: 8 October 2002

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8 April 2002

LDAPv3 DN strings for use with PKIs  
<draft-ietf-pkix-dnstrings-00.txt>

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#### ABSTRACT

RFC 2253 [2] standardises a set of strings that can be used to represent attribute types in LDAP distinguished names. This list is does not cover the full set of attribute types used in the distinguished names of issuers and subjects in public key certificates. This document standardises the strings needed for these additional attribute types.

The key words "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT", "SHOULD", "SHOULD NOT", "RECOMMENDED", "MAY", and "OPTIONAL" in this document are to be interpreted as described in RFC 2119 [3].

#### 1. Introduction

RFC 2253 standardises a set of strings for a limited number of attribute types that can be used in the LDAP encoding of X.500 distinguished names. These are

	String	X.500 AttributeType
CN	commonName	-----
	L	localityName
	ST	stateOrProvinceName
	O	organizationName
	OU	organizationalUnitName
	C	countryName
	STREET	streetAddress
	DC	domainComponent
	UID	userid

The revision of RFC 2253 [5] states that additional attribute types should be represented by their object identifiers.

RFC 3039 [4] lists the following attribute types that may be used to create subject and issuer distinguished names:

```
countryName;
  commonName;
  surname;
  givenName;
  pseudonym;
  serialNumber;
  organizationName;
  organizationalUnitName;
  stateOrProvinceName
  localityName and
  postalAddress.
```

The observant reader will notice that the serialNumber, pseudonym, and postalAddress attribute types are missing from the RFC 2253 set and consequently do not have standardised strings for use in LDAP distinguished names.

Other examples are... [to be added by members of the PKIX group]

## 2. Additional LDAP String Definitions

This document defines the following additional strings that SHOULD be used to represent their respective attribute types in LDAP distinguished names, as given in the following table:

	String	X.500 AttributeType
serialNumber	serialNumber	-----
ADDR	postalAddress	
	Pseudo	pseudonym

[other strings to be added by members of PKIX group]

Note. The strings are case insensitive as far as LDAPv3 is concerned

## 3. Security Considerations

The following security considerations are specific to the handling of distinguished names. LDAP security considerations are discussed in [6] and other documents comprising the LDAP Technical Specification [7].

#### 4. Acknowledgements

None at present

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#### 6. References

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- [5] K. Zeilenga. "LDAP: String Representation of Distinguished Names". <draft-ietf-ldapbis-dn-07.txt>, 1 March 2002
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- [7] K. Zeilenga (editor), "LDAP: Technical Specification Road Map", <draft-ietf-ldapbis-roadmap-xx.txt>, a work in progress.

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