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2. Abstract

The purpose of this document is to inform the Internet community of LDAP syntaxes available in the Windows NT Active Directory. These syntaxes provide additional functionality to the Active Directory.

3. RFC Key Words

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.

4. LDAP Syntaxes

CaseIgnoreString: 1.2.840.113556.1.4.905
   Encoded as a Printable String (OID 1.3.6.1.4.1.1466.115.121.1.44)

OR-Name: 1.2.840.113556.1.4.1221
   Encoded as:
   ORName = DN | "X400:" ORaddress "#X500:" DN | "X400:"ORaddress
   DN = normally encoded rfc 1779 name
   ORaddress = some string encoding for OR addresses.

Note that an unescaped # character must not be legal in this encoding. This is necessary to be able to identify where the #X500 starts if the middle choice of the encoding is chosen.

DNWithOctetString: 1.2.840.113556.1.4.903
   Encoded as a :
   DNWithOctetString = OctetTag ': Count ': OctetString ':' DN
   OctetTag = 'B' | 'b'
   Count = positive decimal number, counting number of encoded characters in OctetString
OctetString = [EncodedByte]*  // Note: the number of characters in the string encoding of the OctetString is Count.
EncodedByte = [0-9 | a-f | A-F] [0-9 | a-f | A-F]
DN = <normal string encoding of a DN>

As an example, the string encoding of the combination of 0x74 0x65 0x73 0x74 and DC=Microsoft,DC=Com is
B:8:74657374:DC=Microsoft,DC=Com

DNWithString: 1.2.840.113556.1.4.904
  Encoded as a :
  DNWithString = StringTag ':' Count ':' String ':' DN
  Count = positive decimal number, counting number of bytes in String
  String = <normally encoded (i.e. UTF8 for V3) string>  // Note: the number of bytes in the string encoding of the String is Count.
  DN = <normal string encoding of a DN>

As an example, the string encoding of the combination of "test" and DC=Microsoft,DC=Com is
B:4:test:DC=Microsoft,DC=Com

As an example, the string encoding of the combination of XYZ (where X, Y, and Z all have two byte UTF-8 encodings) and DC=Microsoft,DC=Com is
B:6:XYZ:DC=Microsoft,DC=Com

Note: Characters with multibyte UTF-8 encodings contribute more than one to the count

Large-Integer: 1.2.840.113556.1.4.906
  Encoded as an Integer (OID 1.3.6.1.4.1.1466.115.121.1.27), but guaranteed to support 64 bit numbers.

Object-Security-Descriptor: 1.2.840.113556.1.4.907
  Encoded as an Octet-String (OID 1.3.6.1.4.1.1466.115.121.1.40)

5. References

[RFC 2251]

[RFC 2119]
  Bradner, S., "Key words for use in RFCs to Indicate Requirement Levels,"
  RFC 2119, Harvard University, March 1997.

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