OpenLDAP
Odds & Ends

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Additional Matching Rules

• wordMatch
• keywordMatch

• RFC 3698
entryDN

• Operational attribute which provides a copy of the entry’s DN. Needed to allow component matching upon the entry’s DN.

• Implementation: should be ‘computed’ (much like hasSubordinates)

• draft-zeilenga-ldap-entrydn-xx.txt
dumpasn1

• Integrate into (old) logging

• BTW, unifdef –UNEW_LOGGING
LDAPprep

- Internationalized X.500/LDAP matching rules
  - caseIgnoreMatch / caseExactMatch / others
- A ‘stringprep’ algorithm
  - Transcode
  - Map (including case fold when necessary)
  - Normalize
  - Prohibit
  - Bidi check
  - Insignificant space removal
- Implementation Issues
  - Should be implemented in --ldap so available to both clients and servers
  - Map (case fold) before normalization not normalize than map as in slapd(8).
  - draft-ietf-ldapbis-strprep-xx.txt
SASLprep

- Internationalized "simple" usernames and passwords
  - SASL PLAIN/DIGEST-MD5 username/password/[realm]
  - LDAP "simple" Bind password
  - LDAP userPassword
  - LDAP Password Modify
- In LDAP & DIGEST-MD5, preparation is to be done by client
- In PLAIN, preparation is to be done by the server.
- OpenLDAP implementation choices:
  - Native (ucdata)
  - Reuse (Cyrus SASL?)
- draft-ietf-sasl-saslprep-xx.txt
Native SASL mechanisms

- Support SASL/EXTERNAL (possibly other mechanisms) natively (e.g., without Cyrus SASL).
Select(2) alternatives

• Should support poll(2) (eventually should become default)

• Alternatives
  – Kqueue - BSD
  – epoll(2) – Linux
  – /dev/poll
Distributed Operations

- draft-sermersheim-ldap-distproc-xx.txt
Discussion