



IETF work on LDAP

NameFLOW LDAP Pilot Meeting
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Working groups on LDAP

- IDS - Integrated Directory Services
- ASID - Access, Searching and Indexing of Directories
- LSD - LDAP Service Deployment
- LDATEXT - LDAP Extension
- FIND - Common Index Protocol
- SCHEMA - Schema Registration
- SVRLOC - Service Location Protocol
- LDUP - (LDAP Duplication)



IDS - Integrated Directory Services

- White Pages Services (RFCs 2148, 2218)
 - X.500, SLAPD, Whois++, PH
- X.500 Root Naming Context (RFC 2120)
- DomainComponent in DN (RFC 2247, id ids-dirnaming-04)
- Network Services (RFC 2219)
- Internet Nomenclator (RFCs 2258, 2259)



ASID - Access, Searching and Indexing of Directories I: RFCs

- LDAP v2 (RFCs 1777-1779, 1959, 1960)
 - Protocol, attribute syntax, DN, URL, filters
- CLDAPv2 (RFC 1798)
- LDAP v3 (RFCs 2251-2255)
 - UTF-8/ISO 10646, referrals, SASL, extensions
 - no secure update!
- URI (RFC 2079)
- Schema definitions (RFCs 1804, 2247, 2256)



ASID II: Unfinished Work

- => LDAP Extensions WG
- Replication
 - LDAPv3 requirements (draft-weiser-replica-req-01) ==> LDUP
 - LDIF (draft-good-ldap-ldif-00)
 - Change logging (draft-good-ldap-changelog-00)
 - Multi master replication (id asid-ldap-mult-mast-rep-02)
- MIME Content Type (id asid-mime-direct-07)
 - Profile for vCard (id asid-mime-vcard-06)
 - Profile for LDAP schema ==> Schema WG



ASID III: What else?

- Caching (id asid-ldap-cache-01) outdated?
- Schema (draft-smith-ldap-inetorgperson-00)
- Whois++ (ids asid-whois-schema-03, asid-whois-url-02, asid-whoispp-02)



LSD - LDAP Service Deployment

- Schema
 - Minimum White Pages schema (id Isd-ldapv3-wp-00)
 - Guidelines (no id)
 - Inconsistencies and mappings (no id)
- Locating LDAP servers
- (ids Isd-client-finding-00, Isd-server-finding-00)
- Naming and interconnectivity (id Isd-nandi-00)
- TISDAG reports (no id)



LDAPEXT - LDAP Extensions I: Security

- Authentication
 - Minimum subset of LDAPv3 authentication methods (id Idapext-authmeth-01):
 - anonymous authentication, SASL-CRAM-MD5, Start TLS with SASL EXTERNAL
 - TLS (id Idapext-ldapv3-tls-00)
- Access control
 - The model: ACLs (id Idapext-acl-model-00)
 - Requirements collection (id Idapext-acl-reqts-00)
- Non-repudiation
 - Signed LDAP-operations (draft-hassler-ldapv3-secparam-00)
 - Signed Directory Information (id Idapext-sigops-00)



LDAPTEXT II: Where and what to search

- Knowledge reference
 - URI-Referral: attribute and objectclass (id ldapext-referral-00)
 - URL-Referral: LDAP control (draft-watts-orbell-ldapext-x500-referrals)
 - Server discovery: co-operation with ==> Svrloc-WG
- Search results
 - Server side sorting (id ldapext-sorting-00)
 - Simple paged results (id asid-ldapv3-simplepaged-02)
 - Persistent search (id ldapext-psearch-00)
 - Virtual list (id ldapext-ldapv3-vlv-01)



LDAPv3 C API

Application Program Interfaces

- LDAPv3 C API
 - C API definition (id ldapext-ldap-c-api-00)
 - includes LDAP extenden operations model
 - C API extensions
 - Extensions for persistant search (id ldapext-c-api-psearch-00)
 - Extensions for virtual lists (id ldapext-c-api-vlv-01)
- LDAPv3 Java API
 - Java API definition (id ldapext-ldap-java-api-01)
 - Extensions for server sorting, persistant search and virtual lists (draft-weltman-ldap-java-controls-01)



LDAPEXT IV: What else?

- Language tags (id ldapext-lang-00)
- Dynamic directories (id asid-ldapv3-dynamic-07)
- CLDAP v3 (no id)
- LDAP as Network Information Service (RFC 2307)



FIND Common Index Protocol

- The architecture (id find-cip-arch-01)
- MIME object definitions (id find-cip-mime-02)
- Transport protocol (id find-cip-trans-00)
- Tagged Index Object (id find-cip-tagged-06)

- When will CIP become RFCs?



SCHEMA - Schema Registration

- Centralized registration of MIME directory schemata
 - Definition of directory schema listing procedure (id schema-proc-list-01)
 - Requirements for a directory schema listing (id schema-rqmts-list-01)
 - MIME profile for meta data (id schema-mime-metadata-01)
 - MIME profiles for whois, whois++ and rwhois (ids schema-whois-00, schema-whoispp-00, schema-rwhois-00)
 - MIME profile for LDAP (id schema-ldap-00)



SVRLOC Service Location Protocol

- Definition of the SPL (RFC 2165)
 - Framework for the discovery and selection of network service
 - Dynamic configuration mechanism for applications in LANs
 - Not a global resolution system for the entire Internet
- Service discovery beyond SLP (id svrloc-discovery-06)
 - Aggregation of several concepts: SLP, “Sites” alias structure, DNS SRV records, “Well Known” alias, “service:” URLs
- Procedure of defining service types for the “service:” URLs (id svrloc-service-scheme-09)
- Definition of conversion LDAP schema <-> “service:” URLs (id svrloc-template-conversion)



LDUP - LDAP Duplication/Replication/Update Protocol

- WG still in status nascendi
- Based on the work started in ASID
- BOF meeting was December 1997
- Mailinglist: subscribe to *ietf-ldup-request@imc.org*