



OpenDS and DSEE Feature Comparison (as of June 4, 2007)

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OpenDS Project Architect

Quick Overview of OpenDS

- Open source pure Java LDAPv3 directory server
- Intend to provide a high performance, highly-scalable, feature-rich, embedable, extensible, user-friendly directory service (basically, better than every other server in every way)
- Virtually all information is publicly available online
 - > <https://opends.dev.java.net/> -- source repository, issue tracker, mailing lists, downloadable builds
 - > <https://www.opends.org/> -- documentation wiki, daily builds, source browser, QuickSetup installer

High-Level Comparison

- Missing Functional Areas
 - > Proxy / Distribution / Virtual Components
 - > Identity Synchronization for Windows
 - > DSRK Components
 - > Directory Editor
 - > Graphical / CLI Management Tools
 - > Chaining
- Largely Equivalent Functional Areas
 - > Access / Error / Audit / Debug Logging
 - > Access Control Functionality
 - > Idapsearch / Idapmodify / Idapcompare / Idapdelete tools

Core Server Functionality

- Missing
 - > Max threads per connection, I/O block timeout, idle timeout, frozen mode
- Enhanced
 - > Read-only config, schema/syntax checking, root DN configuration, worker thread config
- New
 - > Reject unauthenticated requests, notify abandoned operations, return all operational attributes, subordinate subtree scope, increment modify extension, true/false filters

Backend Functionality

- Missing
 - > Disk space thresholds, transaction batching, attribute encryption, matching rule indexes, VLV indexes
- Enhanced
 - > Read-only config, entry storage format, substring indexing, reject unindexed searches, DB portability, backup/restore individual backends, import/export data
- New
 - > Subtree delete, entry compression, searches below root DSE, backup backend, scheduled tasks, incremental backup, compressed/encrypted/signed backup/export, index verification

LDAP Communication

- Missing
 - > I/O block timeout
- Enhanced
 - > Allow different SSL certificates per connection handler, added support for PKCS#12 certificates
- New
 - > Multiple connection handlers, multiple request handlers per connection handler, TCP KeepAlive, TCP reuse address, stop accepting without closing existing connections, start/stop connection handlers on the fly

Group Functionality

- Missing
 - > Nested static groups, roles (deprecated)
- Enhanced
 - > Static group performance, isMemberOf virtual attribute
- New
 - > Virtual static groups (look like static groups, but membership determinations can be dynamic), extensible group implementation API

Replication Functionality

- Missing
 - > Fractional replication, authentication & security, LDAP-accessible changelog
- Enhanced
 - > Schema replication (preserve schema file structure), binary copy initialization
- New
 - > Parallel import initialization, centralized replication model

Plugin Functionality

- Missing
 - > Referential integrity, unique attribute, 7-bit check, collation, state change
- Enhanced
 - > Many new plugin points, dynamically reconfigurable, easier configuration (no more pluginarg0)
- New
 - > EntryUUID plugin, profiler plugin, request attributes by object class

Password Policy

- Missing
 - > Password history
- Enhanced
 - > Password validators, password generators, last login time tracking, new storage schemes
- New
 - > Force change on add, password policies for root users, deprecated storage schemes, authentication password syntax, max password reset age, account expiration, idle account lockout, require secure authentication, require secure password changes, require changes by a given time, account status notifications

SASL Authentication

- Missing
 - > DIGEST-MD5/GSSAPI integrity/confidentiality
- Enhanced
 - > Identity mapping API, certificate mapping API, alternate authorization ID for DIGEST-MD5 and PLAIN mechanisms
- New
 - > ANONYMOUS mechanism, CRAM-MD5 mechanism, PLAIN mechanism

Virtual Attributes

- Missing
 - > nsRole (deprecated)
- Enhanced
 - > User-defined virtual attributes (like CoS), isMemberOf
- New
 - > member virtual attribute (for virtual static groups),
extensible virtual attribute API

Supported Controls & Extensions

- Missing
 - > Backend-specific search control, chaining loop detection control
- Enhanced
 - > Server-side sort control, virtual list view control, password modify extended operation
- New
 - > Simple paged results control, LDAP assertions control, pre-read/post-read controls, no-op control, matched values control, subtree delete control, LDAP cancel extended operation

Schema Features

- Enhanced
 - > Schema replication (preserve schema file structure), enforce single structural class, syntax validation
- New
 - > Add schema file task, name forms, DIT content rules, DIT structure rules, matching rule uses, lots more syntaxes and matching rules

For More Information

- DSEE 6 Versus OpenDS Feature Comparison
 - > <https://www.opens.org/wiki/page/DSEE6VersusOpenDSFeatureComparison>
- Issue Tracker
 - > <https://opens.dev.java.net/issues/> -- Main Page
 - > <https://opens.dev.java.net/issues/buglist.cgi> -- Complete Issue List
- Mailing Lists
 - > users@opens.dev.java.net -- General user questions
 - > dev@opens.dev.java.net -- Code-specific questions



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