

LDAP Connector

Status

Stable. Works well.

This is the **recommended** connector to connect midPoint with the LDAP servers.

Description

Connector for LDAP-based directory servers. Complete rewrite based on Apache Directory API. Apache-licensed.

The LDAP connector bundle also contains connectors for [Active Directory](#) and [eDirectory](#). These connectors are specializations of the LDAP connector and support the LDAP quirks needed to work with AD and eDirectory.



This is an LDAP connector completely rewritten from scratch in 2015. It is using Apache Directory API and it is designed and built to work with recent ConnId versions and to take all the advantages of that. This is the supported and recommended LDAP and AD connector for midPoint. The old LDAP and AD connectors are now deprecated and they are no longer supported.

Protocol	LDAP or LDAPS
Framework	ConnId 1.5.x
Bundle name	com.evolveum.polygon.connector-ldap
Connector name	com.evolveum.polygon.connector.ldap.LdapConnector

Capabilities and Features

Provisioning	YES	
Live Synchronization	YES	For LDAP servers that support Sun-style changelog (Retro ChangeLog) or modifyTimestamp. AD DirSync synchronization supported.
Password	YES	
Activation	PARTIAL	No activation for generic LDAP as there is not LDAP standard for that. This can be simulated in midPoint. Activation for AD and eDirectory is supported.
Filtering changes		currently limited
Paging support	YES	Simple Paged Results and VLV
Native attribute names	YES	Use ri:dn instead of icfs:name Use ri:entryUUID instead of icfs:uid

History

This is an LDAP connector completely rewritten from scratch during 2015. It was significantly improved in following years. Currently the LDAP connector is perfectly stable and tested in many deployments. It can be used with a variety of LDAP servers, including exotic and obsolete systems.

Versions

Version	Origin	Binary	Sources	Build Date	Framework version	Bundled with midPoint	Description
1.4.1.23	Polygon	download jar	GitHub	August 2015			Experimental version.
1.4.2.0	Polygon	download jar	GitHub	December 2015	1.4.2.0		LDAP stable, AD experimental

1.4.2.14	Polygon	download jar	GitHub	April 2016	1.4.2.14	3.3.1	Stable.
1.4.2.15	Polygon	download jar	GitHub	April 2016	1.4.2.14		Stable.
1.4.2.16	Polygon	download jar	GitHub	June 2016	1.4.2.14		Fixes timeout errors and resource leaks during AD connector resets.
1.4.2.17	Polygon	download jar	GitHub	June 2016	1.4.2.14	3.4	Minor fixes.
1.4.2.18	Polygon	download jar	GitHub	September 2016	1.4.2.14	3.4.1	Minor improvements.
1.4.2.19	Polygon	download jar	GitHub	October 2016	1.4.2.18		Minor improvements.
1.4.3	Polygon	download jar	GitHub	December 2016	1.4.2.18	3.5	Minor improvements.
1.4.4	Polygon	download jar	GitHub	April 2017	1.4.2.18	3.5.1	CredSSP and Exchange powershell support, bugfixes, minor improvements.
1.4.5	Polygon	download jar	GitHub	3rd July 2017	1.4.2.18	3.6	Powershell bugfixes, minor improvements.
1.5	Polygon	download jar	GitHub	4th October 2017	1.4.2.18	3.6.1	More powershell execution alternatives and improvements, alternative auxiliary object class detection, explicit object class filter, configurable timestamp presentation, better error messages.
1.5.1	Polygon	download jar	GitHub	11th December 2017	1.4.2.18	3.7, 3.7.1	Release coupled with AD connector.
1.6	Polygon	download jar	GitHub	4th May 2018	1.4.2.18	3.7.2, 3.8	Release coupled with AD connector.
1.6.1	Polygon	download jar	GitHub	17th April 2019	1.4.2.18	TBD	Fix of security vulnerability: missing check of certificate validity.
2.0	Polygon	download jar	GitHub	7th November 2018	1.5.0.0	3.9	Native timestamp support. Support for delta-based updates. Additional search filter support.
2.1	Polygon	download jar	GitHub	17th April 2019	1.5.0.0	TBD	OpenLDAP access log synchronization (contributed by Jonathan Gietz) Object class handling improvements (contributed by Matthias Wolf) Experimental support for "language-tagged" attributes. Fix of security vulnerability: missing check of certificate validity.

Interoperability

In theory the connector should work with any LDAPv3 compliant LDAP server. However, many servers claim LDAPv3 compliance while the reality is far from ideal. The connector supports "quirks" of several popular LDAP servers and it tolerates some violations of LDAPv3 standards.

The connector supports following servers (assuming reasonably recent versions of the servers):

- OpenLDAP
- Active Directory (in a form of [Active Directory Connector \(LDAP\)](#))

In addition to this the connector was successfully tested with the following LDAP servers:

- ForgeRock OpenDJ / wren:DS
- 389 directory server / Red Hat Directory Server / Fedora Directory Server
- Oracle Directory Server Enterprise Edition (DSEE) / Sun One / Sun Java System / iPlanet Directory Server
- eDirectory (in a form of [eDirectory Connector](#))
- ViewDS

We know that the connector works with these servers and they are supported in some midPoint deployments. However, support for these servers is **not** part of standard midPoint subscription and it has to be negotiated separately.

If you are using this connector with a different directory server please [let us know](#). We would like to know both about the positive and negative experiences.

Documentation

See [LDAP Connector Documentation](#)

Resource Examples

- [OpenLDAP](#)
- [OpenDJ](#)
- [Directory Server Enterprise Edition](#)

See Also

- [LDAP Connector Documentation](#)
- [LDAP Explanation](#)
- [LDAP Connector Migration](#)
- [Active Directory Connector \(LDAP\)](#)
- [eDirectory Connector](#)
- [Legacy LDAP Connector](#)