

### LDAP definitions

entry	a collection of information about an entity
attribute	holds the data for an entry
object-Class	schema elements that specify collections of attribute types that may be related to a particular type of object, process, or other entity
dn	uniquely identifies that entry and its position in the directory information tree (DIT) hierarchy
rdn	the relative portion of a distinguished name (DN)
oid	a string that is used to uniquely identify various elements in the LDAP protocol

These are taken from the manual at <https://ldap.com/basic-ldap-concepts/>

### LDAP attribute types

cn	common name
name	name, same as cn
dn	distinguished name
dc	domain component
manager	manager
company	company
department	department
o	organization
ou	organizational unit
uid	user id
description	description
displayName	display name
givenName	first name
sn	surname
title	job title
location	location
l	location
streetAddress	first line of address
postalCode	zip code

### LDAP attribute types (cont)

c	country
st	state
homephone	home phone number
mobile	mobile phone number
telephoneNumber	office phone number

There are many more available attribute types, consult your LDAP software's manual

### Filter Structure

( )	each component of the search filter is enclosed in parenthesis
(attribute=value)	the specified attribute must match the specified value
(attribute=*)	* is a wildcard and will match anything
(attribute=va*e)	wildcards can be anywhere in the string
(attribute=*)	this verifies the attribute exists at all
(attribute>=10)	the specified attribute must be larger than 10
(attribute<=10)	the specified attribute must be less than 10
(attribute~value)	the specified attribute must be like the value, this has no formal standard and each server may implement it differently
(& (...))	must match all entries
(  (...))	must match at least one entry
(! (...))	negates the result, true becomes false and false becomes true



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### Example filters

<code>(&amp; (ou=research) (! (c=us)))</code>	entries where the organizational unit is research and the country is not the united states
<code>(  (telephoneNumbe- r=555*) (mobileNumbe- r=555*))</code>	entries where the telephone number starts with 555 or the mobile number starts with 555
<code>(&amp; (  (location=riven) (postalcode=55893)) (title=manager))</code>	entries where either the location is riven or the post code is 55893 and the job title is manager

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