

Introduction

Active Directory (AD) is a database that stores information about users and LDAP is a protocol that allows you to talk to it.

- A user profile field in your AD will have an attribute name.
- A user profile field in claromentis will have a key.
- Mapping an AD attribute to a Claromentis key ensures the information from the AD field will populate the Claromentis field upon the next sync.
- This will work for every user that you are bringing across from your AD into Claromentis.

Please note: Attribute names may not relate to the field information itself. Sometimes the attribute is named logically i.e. "surname" corresponds to a users last name but in other instances the attribute name is unrelated i.e. "init_2" corresponds to a users interests. The name is arbitrary so concern need only be about knowing what user information the attribute name represents.

We have created an LDAP tool in Claromentis for you to use to make mapping fields and the subsequent sync as painless as possible.

- This article will follow on from the the "Setting up the LDAP tool" guide.
- It is recommended to read that article first before following along with this one.

LDAP Tool In Claromentis

You will have already set up your connection using the tool when following the previous guide.

• To access the tool again head to Applications > Admin > Sysadmin > LDAP

claroment	İS	Q What are you looking for?	🗐 15:14 🛛 🕲	■ ■ ▲					
HOME COMPANY DEPARTMENT Y FORMS Y LEARNING PROJECTS LEARN MORE BOOK A PERSONALISED DEMO									
Admin / LDAP Connections]								
🕏 General	∳ LDAP Connections								
🚨 Administrators	LDAP Connections			+ New	connection				
Eicense	Connection	Domain	Status	Actions					
 Date and Time 	ldap://ad1.claromentis.net:389	AD1	Enabled	2 6					
 Background Services Localisation 	1			1					
🔀 Configuration	Your connection name will b	e here							
<u>∆</u> Labs			4						
Integrations		Click on	your connecti	on eaiting					
🖝 API keys									
🖾 Mailgun									
⊥ LDAP									

Image 1 - Landing page of the LDAP tool

Click on the pencil Icon shown in Image 1 in order to begin editing the connection

- Section 3 of the tool is where AD attributes can be mapped to Claromentis fields, as shown in Image 2.
- The attributes that are currently set up to run on the next sync will always appear in section 3.
- After the initial set up, this table will be populated by default fields that are mandatory and cannot be removed.
 - These include: first name, surname, email and telephone number.
- However at any time, you can use the LDAP tool to edit fields and configure new ones to run on the next sync that do not include the default.

In Image 2, it is shown that information relating to users interests has been set up to sync from the AD attribute "Initials" to the claromentis field "Interests" using the key {m}user_interest"

- In this way the data has been mapped (or tied) between these fields.
- It is important to realise that if there is information in your AD you wish to sync to Claromentis, you may have to create an appropriate field in Claromentis if one does not already exist.
 - For example your AD may store the extension number of users.
 - Claromentis does not have a corresponding user profile field for an extension number.
 - Therefore in order to map the AD information a field for "extension" has to be created in Claromentis first.
 - When a field is created in Claromentis it's key is generated automatically.
 - We have created a video guide on how to create a new field in Claromentis here.

claromen	tis		Q w		iii 15				.	2	0
Admin / LDAP Connections											
🏟 General	LDAP Connections										
🚨 Administrators	✓ 1. Connection										
Eicense	 2. Directory Setting 	s									
 Date and Time 	✓ 3. LDAP Attributes /	/ Claromentis	Metadata								
Background Services	Example U	ser - DN				0	Fet	tch Attrib	utes		
通 Localisation		LDAP Attribut		Claromentis Metadata							
🔀 Configuration		givenname		firstname		×					
Å Labe		sn		surname		×					
		company		company		×					
Integrations		title		job_title		×					
API keys		telephonenum	ber	[m]usr_phone		×					
🖾 Mailgun		mobile		[m]usr_mobile		×					
		initials		[m]usr_interests		×					
	Additional :	Settings 🛛	Populate Claroment	is OrgChart based on specif	fied LDAP al	tribute	give	enname	\$		
	🖌 4. User Groups										
	✓ 5. Status										
_											
UDAP Search Tool									(ancel	Save

Image 2 - Section 3 of the LDAP tool

Configuring Profile fields

To set up a new user profile field to bring across from AD, we first need to update the table of Section 3 to reflect all the fields that are currently syncing.

- To do this, we need to "fetch attributes" from a user profile in the Intranet that has been synced from AD already.
- This will generate a list of attributes that are currently being synced and allow extra fields to be mapped.

Navigate to Admin > People

- Click on a user profile that has been brought across from your AD.
- There will be a "External ID" field on their profile, as shown in Image 3.
- Copy this information as we need this to fetch attributes to populate the table and be able to tie to Claromentis fields.
- Once you have copied the data in the field return to the 3rd section of the LDAP tool.

claromer	ntis	Q What are you look	ing for?	16:20	യ		A	<u>به</u>	0
Admin / People Control	Panel / Edit user info								Q:
Letit user information	🛓 Role 🚇 Group 🛔 Org chart 😤 Other setting	gs							
User code			Le Uple	oad image					
Last time login	(Never)								
Account state	The status for this user is set in the external directory shown	below.	🗆 🖾 Email	log-in details					
Directory	AD1 \$								
External ID	CN=Benedict BS. Seaworthy,CN=Users,DC=ad1,DC=clarome	entis,DC=							
Assign user to extranet area	Primary Area 🕈								
Username	AD1\benedict.seaworthy								
First name	Benedict								
Surname	Seaworthy								

Image 3 - External ID shown in a user's profile that has been synced from AD

Paste the External ID into the "Example User - DN" field.

- Click the "fetch attributes" button.
- The table below will now update with all the fields that have been mapped together and are sending information across when a sync is run.

As shown in Image 4, the last row of the table will be two drop down fields.

- This is where you select the attribute from AD and map it to the Claromentis key.
- On the left of the table is the "LDAP attribute" column, this denotes the AD field attribute.
- On the right is the "claromentis metadata" column which corresponds to the keys for Claromentis fields.

Admin / LDAP Connections									
🌣 General	LDAP Connections								
Administrators	✓ 1. Connection								
Eicense	✓ 2. Directory Settings								
 Date and Time 	✓ 3. LDAP Attributes / Claromentis Metadata								
Background Services	Example User - DN CN=Benedict BS. Seaworthy,CN=Users,DC=ad1,DC=clarom								
🕅 Localisation		LDAP Attribu	ute	Claromentis Metadata		Example User Profile (preview)			
🔀 Configuration		givenname		firstname	×	accountexpires: 9223372036854775			
Ā Labs	sn			surname	×	badpasswordtime: 0			
ataasatiaas		company		company	×	badpwdcount: 0			
ntegrations		title		job_title	×	cn: Benedict BS. Seaworthy			
API keys	1	telephonenu	ımber	[m]usr_phone ×		codepage: 0			
🛛 Mailgun		mobile [m]usr_mobile ×							
LDAP	givenname tinkedin_id								
	Additional S	ettings	Populate Claroment Continue	is OrgChart based on specified LC	DAP attribute	givenname \$			
	✓ 4. User Groups								
	✓ 5. Status								
DAP Search Tool						Cancel Save			

Image 4 - The last row of the table is where new fields can be added and mapped for the next sync

Image 5 shows both lists available to choose attributes and keys from.

- In this way, you can ensure the attribute you wish to sync has been mapped to the appropriate Claromentis field key.
- In this example the title of a user (e.g. Mr, Mrs, Ms etc) has the AD attribute of "title" as shown in the left list.
- The corresponding field in Claromentis, where we want the AD information to populate, has a key of "{m}title" as shown in the list on the right.

• Once you have selected your attribute and Claromentis key for each column, click the purple "add" button.

Please note: for a Claromentis field to appear for mapping, it must be set to appear in the 'edit my profile' area on user profiles

Admin / LDAP Connections		accountexpires			
🍫 General	LDAP Connections	badpasswordtime badpwdcount cn			
Administrators	✓ 1. Connection	codepage countrycode			
Eicense	✓ 2. Directory Settin	displayname distinguishedname dn			
 Date and Time 	✓ 3. LDAP Attributes	dscorepropagationdata givenname initiale			
Background Services	Example U	instancetype lastlogoff lastlogon	eaworthy,CN=Users,DC=ad1,DC=	claro 🚯	Fetch Attributes
🕅 Localisation		lastlogontimestamp logoncount	Claromentis Metadata		Example User Profile (preview)
X Configuration		memberof mobile name	firstname	×	accountexpires: 92233720368547
<u>Å</u> Labs		objectcategory objectclass	surname	×	badpasswordtime: 0
Integrations		objectgula objectsid primarygroupid	inkean_ja photo skills	×	cn: Benedict BS. Seaworthy
API keys		pwdlastset samaccountname	skype_id twitter_id	×	codepage: 0
🖾 Mailgun		samaccounttype sn telephonenumber	[m]address_text [m]car [m]dob	×	countrycode: 0
击 LDAP		✓ title useraccountcontrol userarianinaleame	<pre>> < [m]title [m]usr_career [m]usr_intersete</pre>	Add	displayname: Benedict BS. Seawor
	Additional	userprincipaliaame usincreated whenchanged whencreated continue	[m]usr_interests [m]usr_pref_contact ntis OrgChart based on specified I	DAP attribute	givenname \$
	✓ 4. User Groups				

Image 5 - Correctly mapping the AD attribute to the corresponding Claromentis key.

As shown in Image 6, my selection has been applied and a new row containing the information for "Title" has appeared.

- Underneath this row the drop down menus remain, so you can add multiple AD attributes and map them accordingly in one instance.
- Once you had added as many attributes as required, click "save".
- Now your changes have been applied and if you enter back into Section 3 of the tool you will see all the rows you added have remained.

When the next sync is run (whether manual or under your schedule) all information from the AD attributes in the table will populate the Claromentis fields you have mapped them to.

Admin / LDAP Connections										
& General LDAP Connections										
Administrators	✓ 1. Connection									
😇 License	 ✓ 2. Directory Settings 									
 Date and Time 	✓ 3. LDAP Attributes / Claromentis Metadata									
Background Services	Example User - DN CN=Benedict BS. Seaworthy,CN=Users,DC=ad1,DC=claro O Fetch Attributes									
🕅 Localisation		LDAP Attribute	Claromentis Metadata		Example User Profile (preview)					
🔀 Configuration		givenname	firstname	×	accountexpires: 92233720368547					
Å Labe		sn	surname	×	badpasswordtime: 0					
Labs		company	company	×	badpwdcount: 0					
Integrations		title	job_title	×	cn: Benedict BS. Seaworthy					
🖛 API keys		telephonenumber	[m]usr_phone	×	codepage: 0					
🖾 Mailgun		mobile	[m]usr_mobile	×	countrycode: 0					
T IDAD		title	[m]title	×	displayname: Benedict BS. Seawor					
m LDAP		title 🗘	[m]usr_career \$	Add						
	Additional	Settings 🛛 Populate Claromen	tis OrgChart based on specified LDA	P attribute	givenname 🗘					
		Continue								

Image 6 - AD attribute has been mapped to Claromentis field and added to the table.

Related Article

Setting up the LDAP tool

Created on 19 March 2019 by Hannah Door. Last modified on 6 December 2023 Tags: Idap, map, profile, user, mapping, attribute