

EQUELLA[®]

LDAP Configuration Guide

Version 6.0

Document History

Document No.	Reviewed		Finalised		Published	
1	30/10/2012		30/10/2012		30/10/2012	

October 2012 edition.

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Hobart, Australia, 7000

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Table of Contents

LDAP User Management Plug-in	4
LDAP Configuration tool.....	4
Configure an LDAP connection.....	4
General page	7
LDAP Mappings page.....	8
Save the LDAP settings	12
Enable the LDAP plug-in	12
Contact Client Support	12

LDAP User Management Plug-in

Lightweight Directory Access Protocol (LDAP) is an application protocol that allows arbitrary schemas for storing system data. How these schemas are created is controlled by the LDAP administrator, with each LDAP system having a slightly different structure and naming scheme. These instructions are intended for experienced LDAP users as many of the instructions containing LDAP values use names typical of an LDAP system but the names may not be found on every system, requiring the administrator to find an analogous system object on the actual LDAP instance. The EQUELLA LDAP plug-in has been implemented to support a variety of different LDAP schemas.

The purpose of this guide is to illustrate to administrator users how to configure EQUELLA to harness the information from an LDAP server to allow users access to an EQUELLA institution.

The following tasks need to be completed before the LDAP users can access EQUELLA:

- Configure a connection to the LDAP server;
- Map the LDAP user data to EQUELLA user attributes; and
- Enable the LDAP User Management Plug-in.

The LDAP plug-in tests the connection prior to user data mapping ensuring the correct connection is created.

LDAP Configuration tool

As of EQUELLA 5, the LDAP configuration tool has changed to become more intuitive and many of the configuration fields from previous EQUELLA versions have been removed or merged into others.

Configure an LDAP connection

LDAP connections are configured using the LDAP plug-in, found in the **User Management** section of the **Administration Console**.

To access EQUELLA and open the Administration Console

1. Log in to EQUELLA as an administrator, select **Settings** then **Administration console**, as shown in Figure 1.

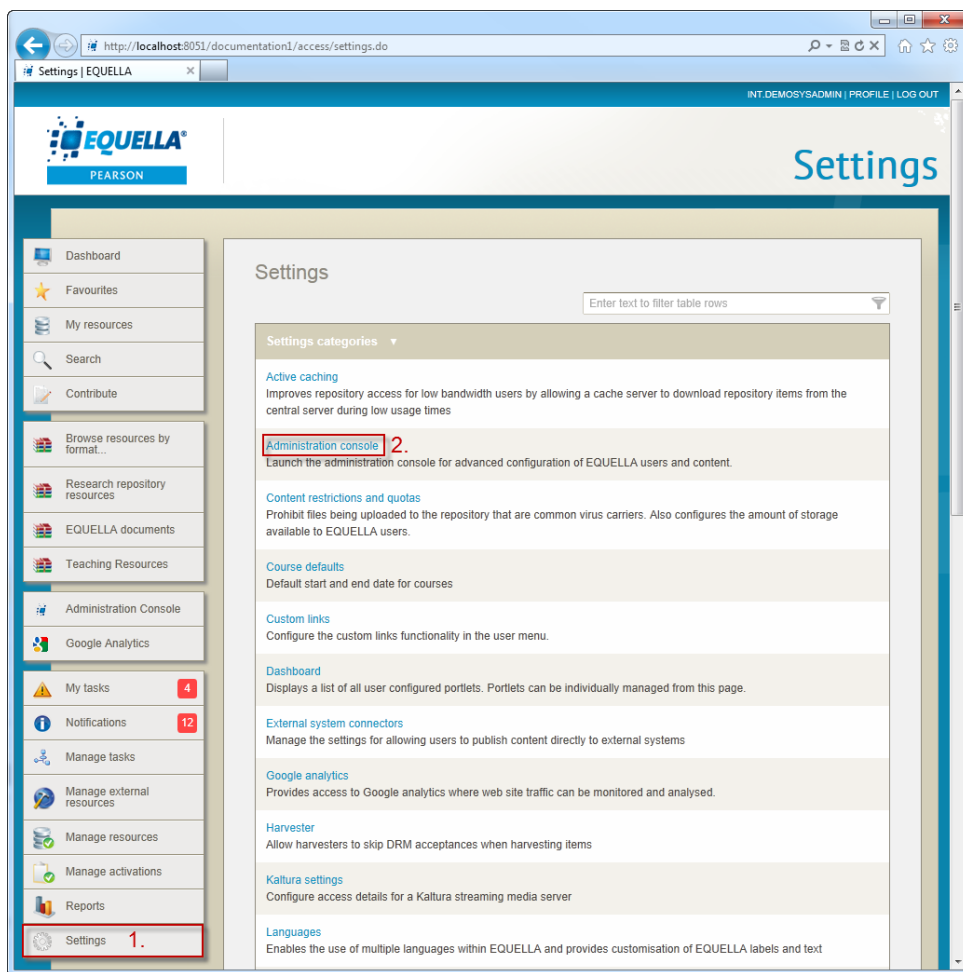


Figure 1 Open Administration console

2. The Administration console displays. Select **User Management** to display a list of the available User Management plug-ins. An example is shown in Figure 2.

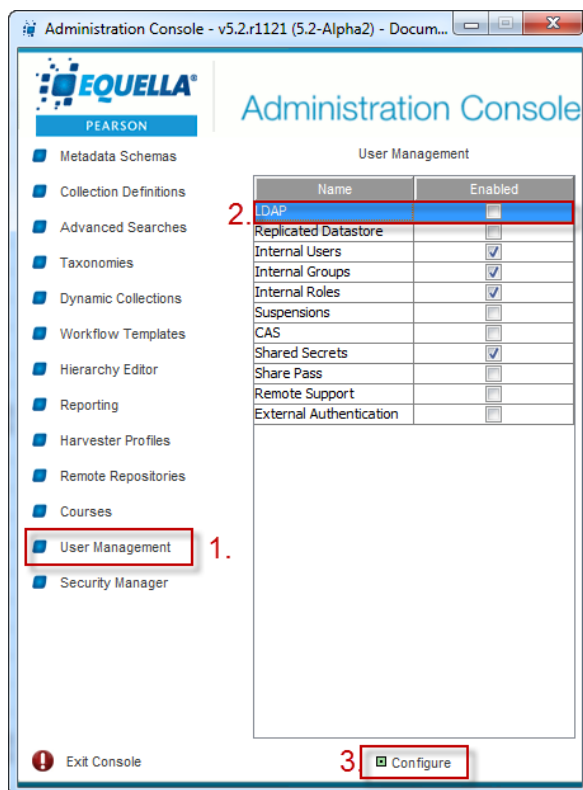



Figure 2 User Management entity—LDAP plug-in

3. Check the **Enabled** checkbox next to the **LDAP** option to enable the plug-in. (Similarly, when the plug-in is enabled, checking the checkbox will disable the plug-in.) See the [Enable the LDAP plug-in](#) section on page 12 for more information.
4. Highlight **LDAP** then click  **Configure** to display the **User Management—LDAP** configuration window. An example is shown in Figure 3.

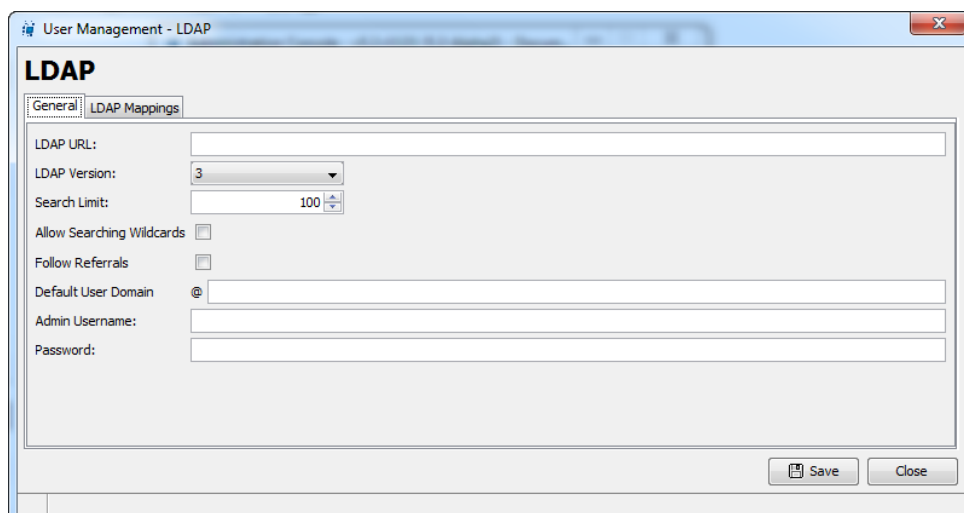


Figure 3 User Management—LDAP configuration window

General page

The **General** page displays the configuration information for connection to the LDAP server.

The configurable **General** page elements include:

- **LDAP URL**—enter the address of the LDAP server using the *ldap* protocol. For secure connections, the *ldaps* protocol should be used. An example is *ldap://myldapserver.com:389* or *ldaps://secureldapserver.com*. This field combines the LDAP Server Address and Port Number fields from previous EQUELLA versions.
- **LDAP Version**—select the appropriate LDAP version from the drop-down list.
- **Search Limit**—select the maximum number of results to return for each query. The default value is 100.
- **Allow Searching Wildcards**—select to allow wildcard searching of the LDAP server.
- **Follow Referrals**—select to follow referral trees, if required.
- **Force user and group IDs to lowercase** - User and group identifiers in EQUELLA are case sensitive, but this is not the case in many LDAP directories. To provide consistency, EQUELLA can always force identifiers to be lowercase internally so that changes to the identifier case in the directory will not orphan resources in EQUELLA. You should not select this option on an existing LDAP and EQUELLA setup as it could disassociate existing resources for those with mixed case identifiers.

NOTE: If you select this option, you should ensure that the ID attributes are set for case-insensitive searches by default in the directory.

- **Default User Domain**—the value in this field allows users to login without needing to enter the full domain (such as 'username@domain.com'). For example, where it may have previously been necessary to enter a username similar to 'bhogan@subdomain.domain.com' (or the alternative syntax of 'subdomain\bhogan') to login as an LDAP user, it is now possible to enter 'subdomain.domain.com' into the Default User Domain field, to login simply as 'bhogan'.
- **Admin Username**—enter a username that EQUELLA can use for access to the LDAP server. This user requires search rights on the LDAP server.
- **Password**—enter the password for the user EQUELLA uses for access to the LDAP server.

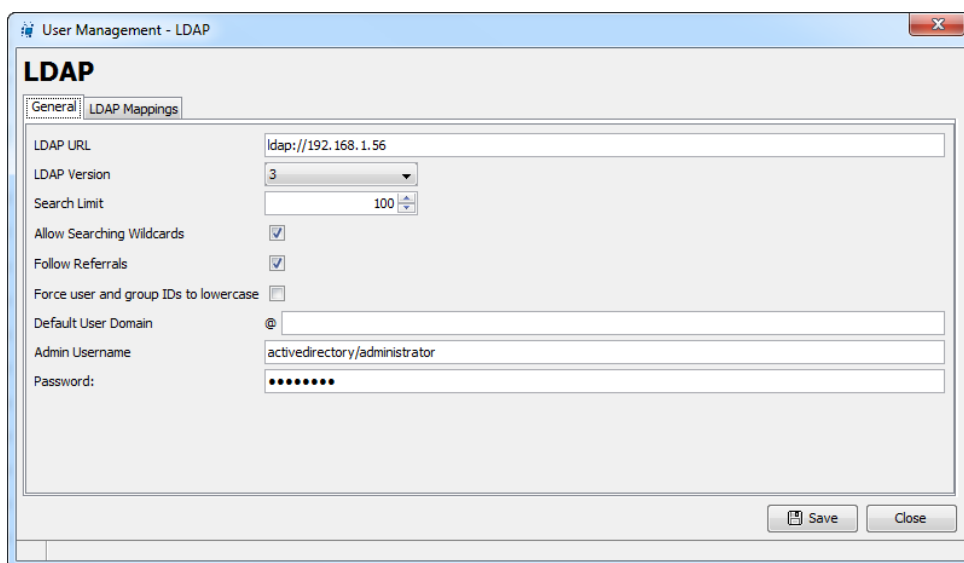


Figure 4 User Management—LDAP configuration General page

LDAP Mappings page

Mapping metadata from the LDAP system to EQUELLA is required to provide access control and user information. EQUELLA provides preset mappings for common systems minimising the mapping required for most systems.

The **LDAP Mappings** page displays all the available distinguished names associated with the entered object classes. The distinguished names are displayed in the left-hand pane and the EQUELLA values with the associated LDAP values are displayed in the right-hand pane.

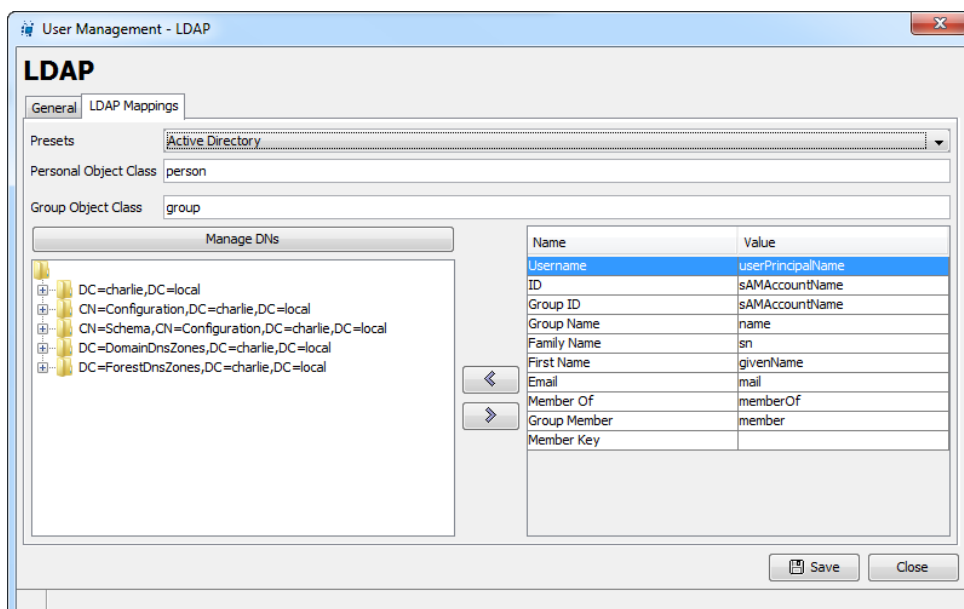
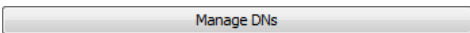


Figure 5 Default LDAP Mappings

To configure the LDAP Mappings

1. Select the type of LDAP server that will be used by EQUELLA from the **Presets** drop-down list. Selecting a preset provides default mapping values for that server. Values can also be mapped manually if the LDAP server does not have a preset value.
2. Enter the LDAP server name for the **Personal Object Class**. This value is used to match to LDAP user units. The default value is *person*.
3. Enter the LDAP server name for the **Group Object Class**. This value is used to match to LDAP group units. The default value is *group*.

Manage DN

1. Click  to open the **Manage DN** dialog, where LDAP Distinguished Names (DNs) can be configured. An example is shown in Figure 6.

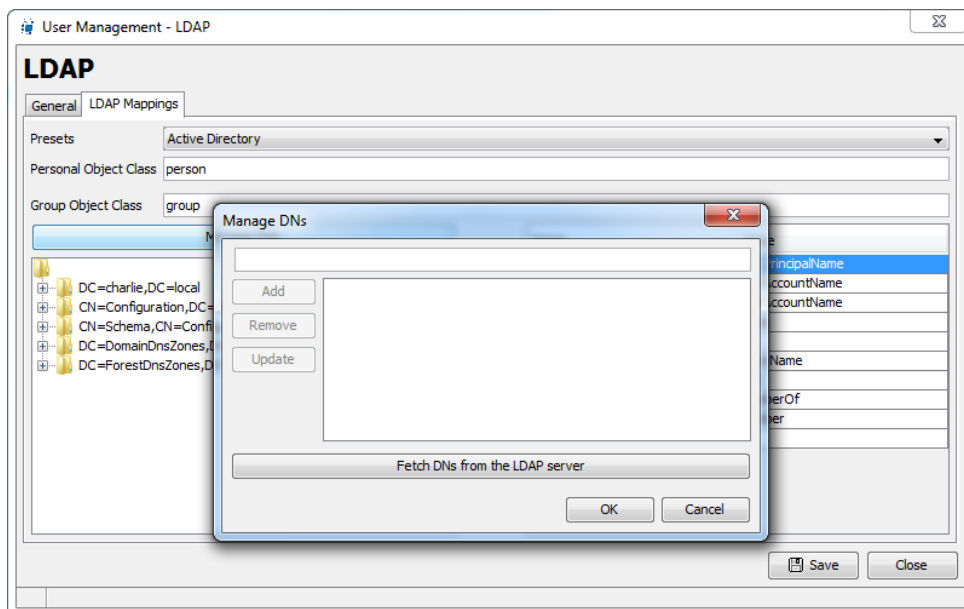
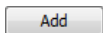
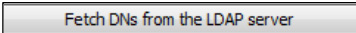


Figure 6 Manage DN's dialog

2. To add DN's manually, type the value into the text box then click , or to get DN's from the LDAP server, click . The field will populate, and a message will appear confirming the number of successfully discovered DN's. An example is shown in Figure 7.

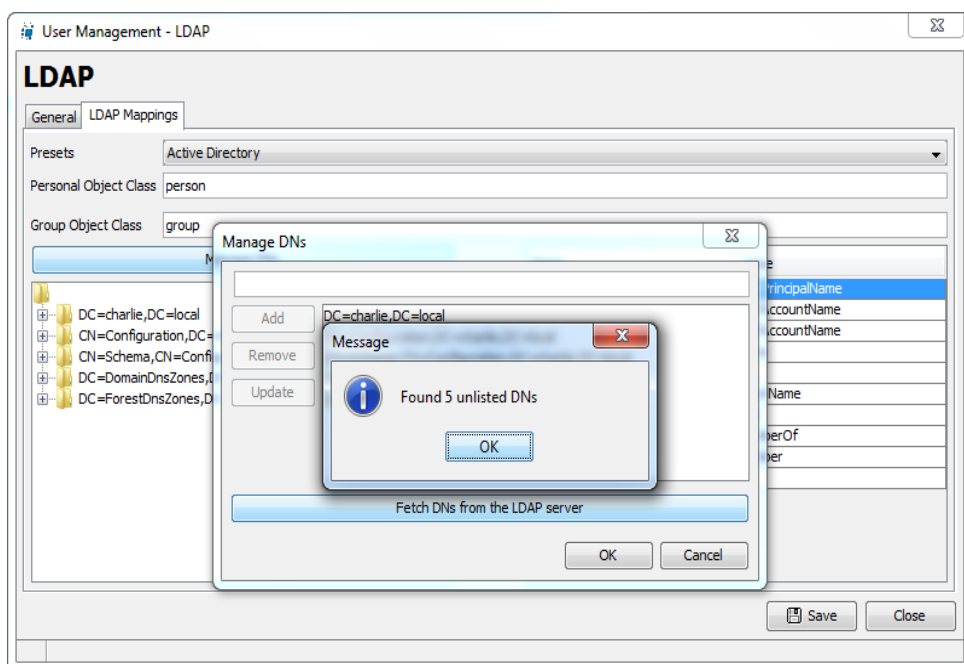


Figure 7 Successfully discovered Distinguished Names

- Click to close the Message. Listed DNs can be **Removed** and **Updated** by selecting the DN from the list, and clicking the appropriate button. Extra DNs can also be added at this time, by typing a value into the text box and clicking .
- Click to close the **Manage DNs** dialog and return to the LDAP configuration. An example is shown in Figure 8.

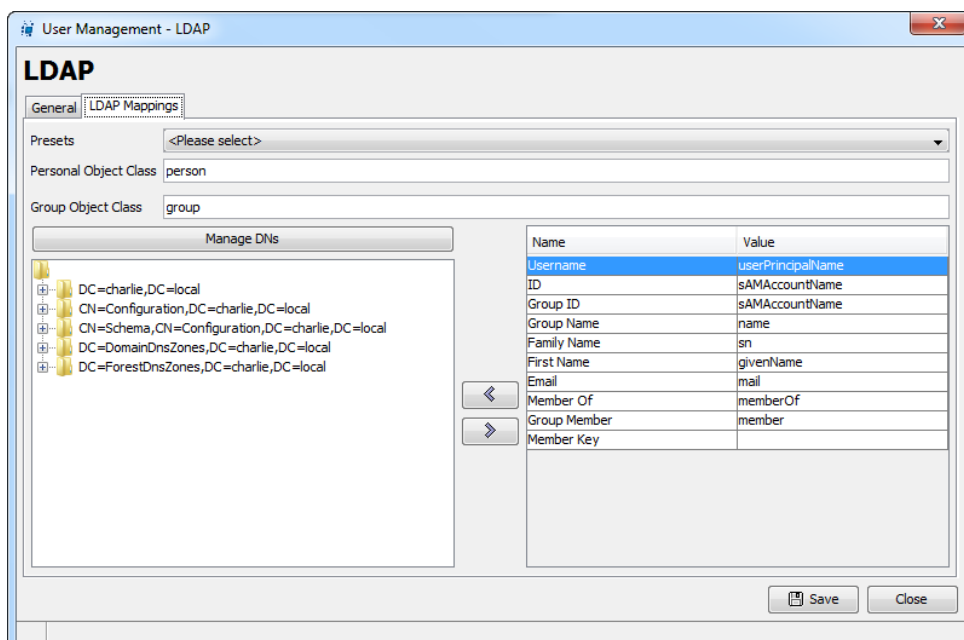


Figure 8 Sample LDAP mapping

The LDAP fields are displayed as a tree in the left-hand pane. The mapped values are displayed in the right-hand pane.

The mapped values displayed in the right-hand pane can be entered by:



- Navigating the LDAP server fields, selecting the value and adding it to the selected EQUELLA name using the arrow button. This is the recommended method as it avoids mapping non-existent values. Values can also be dragged from the LDAP fields then dropped on the EQUELLA values, or
 - Entering values directly.
5. Select the required LDAP value from the left-hand pane.
 6. Select the EQUELLA **Name** to associate this value.
 7. Select the  button to map the selected value to the selected name. (Select the  button to remove a **Value** associated with a **Name**.)

Figure 9 shows an example LDAP value selected for the *Username*. The *Username* value chosen is *userPrincipalName* for Active Directory LDAP systems.

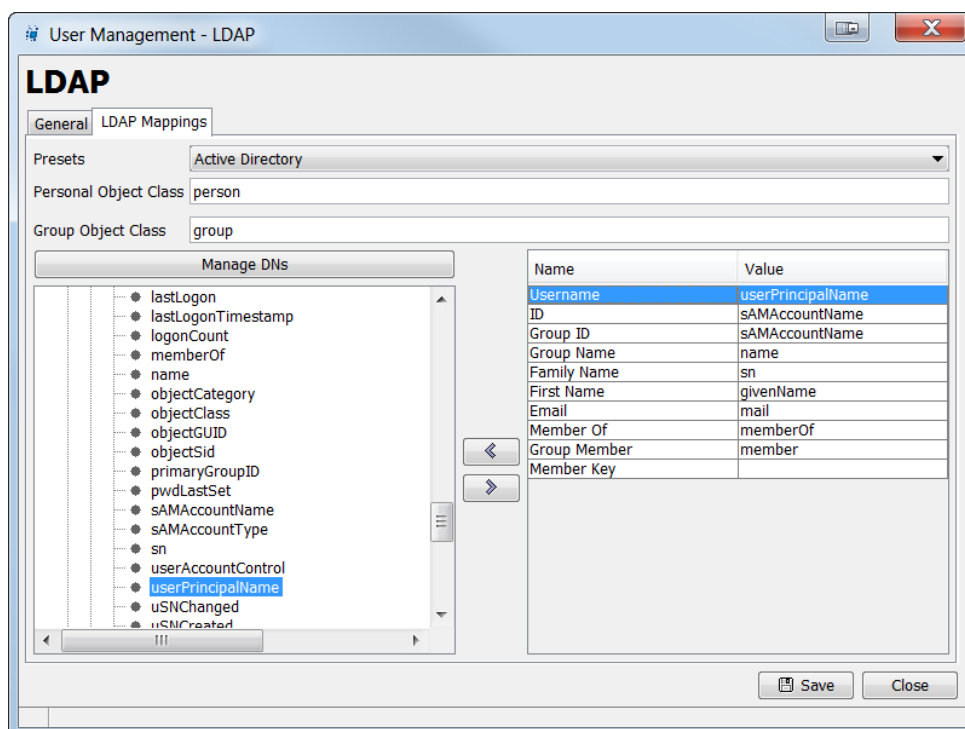


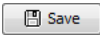
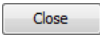
Figure 9 Selecting mapping values

EQUELLA provides names that accept mapping values.

8. Enter the values:
 - **Username** [Required]—the name a user enters to login to EQUELLA.
 - **ID** [Required]—a unique identifier that is associated with EQUELLA resources owned by the user. It is important that the LDAP field contains a fixed value as users will not be able to access resource owned by another ID.
 - **Group ID** [Optional]—a unique identifier that identifies the user's group. Only used when LDAP groups are provided for EQUELLA use. Typically this is not available and EQUELLA groups are managed using the *Internal Groups* plug-in.

- **Group Name** [Optional]—only used when LDAP groups are provided for EQUELLA use. Typically this is not available and EQUELLA groups are managed using the *Internal Groups* plug-in.
- **Family Name** [Optional]—leave blank if not used. When only one LDAP field contains a user's full name, map that field to this EQUELLA name.
- **First name** [Optional]—leave blank if not used.
- **Email** [Optional]—leave blank if not used.
- **Member Of** [Optional]—leave blank if not used. Map LDAP fields that contain membership data to this field. The mapped field must contain the full distinguished name to the group, such as *CN=The Learning Edge, CN=Groups, DC=host, DC=com, DC=au*.
- **Group Member** [Optional]—leave blank if not used. Use this field when LDAP groups contain fields (not just an organised LDAP 'folder' hierarchy of users and groups) that identify group users.
- **Member Key** [Optional]—map the LDAP field used to identify group members. For example:
 - **Group Member** value 'member' identifies group members using the *userPrincipalName*
 - **Member key** value is the *userPrincipalName*.

Save the LDAP settings

1. Click  to save the configuration details.
2. Click  to close the User Management dialog.

Enable the LDAP plug-in

To effect the changes in EQUELLA, the plug-in must be enabled.

1. Check the checkbox to toggle the plug-in **Enabled/Disabled**. A confirmation dialog displays, as shown in Figure 10.

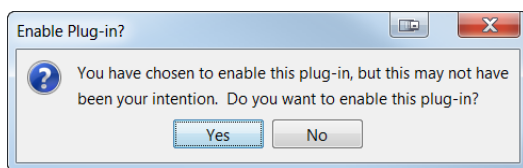


Figure 10 Enable Plug-in? confirmation dialog

2. Click  to continue, or  to return without enabling the plug-in.

Contact Client Support

We are always happy to help.

If your organisation has a support agreement with EQUELLA then help is available at <http://support.equella.com/>.