

# LDAP Integration

LUCY has an LDAP API, which allows the administrator to:

- import recipients
- import users (LUCY administrators)

directly from your directory service.

## Setup

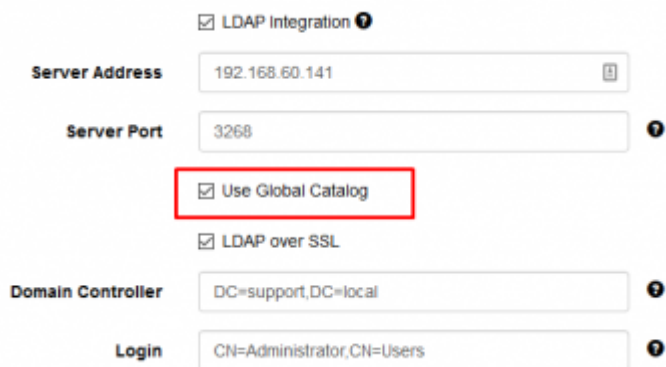
To configure the LDAP connection please go in LDAP settings (Settings → LDAP Settings) and save your server and authentication details. Within the field "Server Address" you need to enter your LDAP server IP address, within the field "Server Port" you should enter TCP/UDP port for LDAP (default port 389 or port 636 for LDAPS) and if "Use Global Catalog" and "LDAP over SSL" are enabled you should use the ports 3268 and 3269. Within the field "Domain Controller" you need to enter your LDAP Server Root RDN (example: "dc=domain,dc=com") and within the field "Login" you need to enter user RDN (example: "cn=Administrator,cn=Users").

Fields "Group Object" and "User Object" are used to filter search from the LDAP objects. Objects within "Group Object" and "User Object" fields need to be separated with a comma and one space.

You may use regular Active Directory search filters, for example:  
(!(objectClass=inetOrgPerson)(objectClass=user))

The screenshot displays the 'LDAP Settings' configuration interface. At the top, there's a breadcrumb 'Home / LDAP Settings' and a navigation bar with buttons: 'Users Control List', 'Recipients Control List', 'LDAP Update Preferences', and 'Import Users From LDAP'. The main settings area includes a checkbox for 'LDAP Integration' which is checked. Below it are input fields for 'Server Address' (192.168.25.228), 'Server Port' (636), 'Domain Controller' (DC=lucy.DC=com), and 'Login' (CN=LDAP,CN=Users). There are also checkboxes for 'Use Global Catalog' and 'LDAP over SSL', both checked. A 'Password' field is present but empty. At the bottom, there are 'Group Object' and 'User Object' fields, both empty. A blue 'Save' button is located at the bottom left of the form.

Also in the "LDAP settings" you can use Global Catalog:



LDAP Integration ?

Server Address  ?

Server Port  ?

☒ Use Global Catalog

☒ LDAP over SSL

Domain Controller  ?

Login  ?

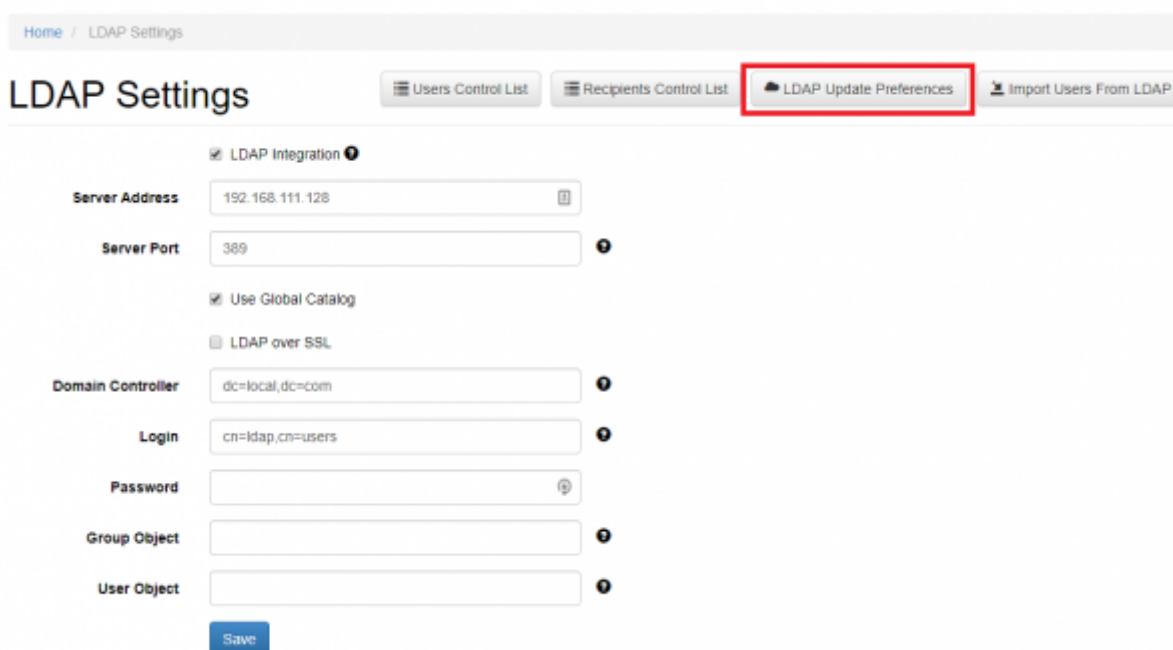
*Note:* The Global Catalogue allows the connection only via two special ports: 3268 or 3269. To use this functionality, please configure one of these ports for connection to AD.

The global catalog (GC) allows users and applications to find objects in an Active Directory domain tree, given one or more attributes of the target object. The global catalog contains a partial replica of every naming context in the directory. It contains the schema and configuration naming contexts as well. This means the GC holds a replica of every object in the directory but with only a small number of their attributes. The attributes in the GC are those most frequently used in search operations (such as a user's first and last names or login names) and those required to locate a full replica of the object.

## LDAP Update Preferences

This menu allows configuring automatic synchronization of LDAP recipients and users that were imported into LUCY. Automatic synchronization happens every 10 minutes.

*Note,* these settings are global and all of the Autoupdate LDAP preferences per a group of recipients will be ignored with the settings enabled (see [Autoupdate LDAP Recipients](#)).



Home / LDAP Settings

### LDAP Settings

[Users Control List](#) [Recipients Control List](#) **[LDAP Update Preferences](#)** [Import Users From LDAP](#)

☒ LDAP Integration ?

Server Address  ?

Server Port  ?

☒ Use Global Catalog

☐ LDAP over SSL

Domain Controller  ?

Login  ?

Password  ?

Group Object  ?

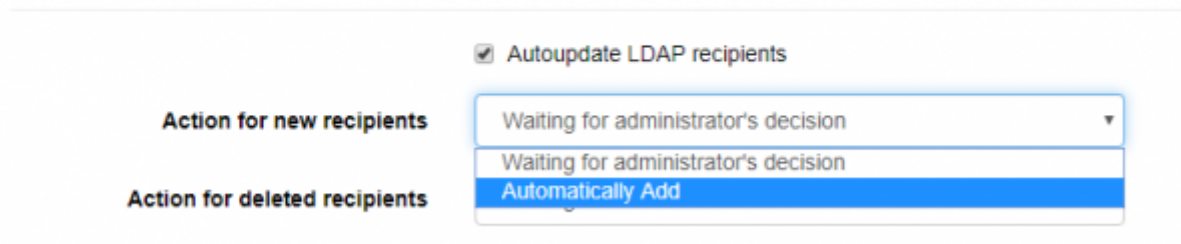
User Object  ?

[Save](#)

LDAP update preferences contain 2 options for automatic action. It is possible to configure LUCY to

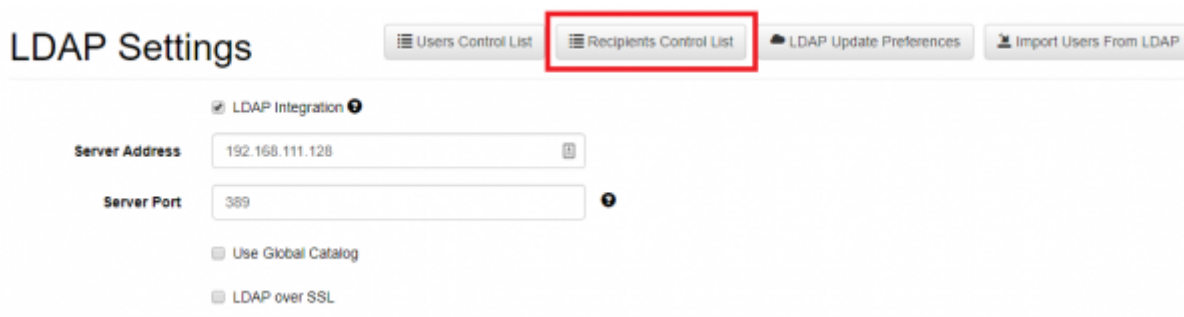
add users and recipients automatically or to wait for the Administrator's decision.

## LDAP Update Preferences



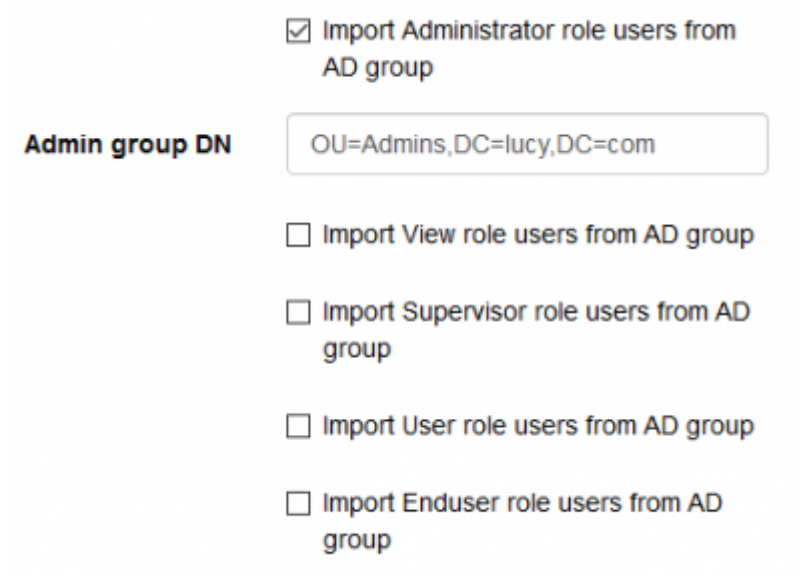
The screenshot shows the 'LDAP Update Preferences' form. At the top, there is a checked checkbox labeled 'Autoupdate LDAP recipients'. Below this, there are two labels: 'Action for new recipients' and 'Action for deleted recipients'. To the right of these labels is a dropdown menu. The dropdown menu is open, showing three options: 'Waiting for administrator's decision' (selected), 'Waiting for administrator's decision', and 'Automatically Add'.

In case if you select "Waiting for administrator's decision", an Administrator will have to go to a control list and decide whether it is necessary to delete\add a recipient\user or not.



The screenshot shows the 'LDAP Settings' form. At the top, there are four tabs: 'Users Control List', 'Recipients Control List' (highlighted with a red box), 'LDAP Update Preferences', and 'Import Users From LDAP'. Below the tabs, there is a checked checkbox labeled 'LDAP Integration'. Underneath, there are two input fields: 'Server Address' with the value '192.168.111.128' and 'Server Port' with the value '389'. Below these fields, there are two unchecked checkboxes: 'Use Global Catalog' and 'LDAP over SSL'.

It is also possible to customize the pattern of automatic import of users from an Organization Unit. Lucy will scan a Distinguished Name (RDN) of the OrganizationUnit (eg. OU=Admins, DC=domain, DC=tld) and automatically bind a role to an imported user according to the settings that can be seen on the screenshot below.



The screenshot shows the 'LDAP Settings' form, specifically the 'Admin group DN' section. There is a checked checkbox labeled 'Import Administrator role users from AD group'. Below this checkbox is an input field labeled 'Admin group DN' with the value 'OU=Admins,DC=lucy,DC=com'. Below this input field, there are four unchecked checkboxes: 'Import View role users from AD group', 'Import Supervisor role users from AD group', 'Import User role users from AD group', and 'Import Enduser role users from AD group'.

The user default role defines a role that will be assigned to users with manual import users from LDAP.

Imported User default role

User

Administrator

View

User

Supervisor

Enduser

## Importing recipients in a group for a campaign

When you create a new recipient group you will be able to use the previously configured LDAP connection to query and import all the users/groups:

Home / Recipients / OrganizationLDAPTest / Import

### OrganizationLDAPTest

Recipients

Edit Group Name

Import

Scan

LDAP Import Settings

Import From

File

File

LDAP Server

☐ Add recipients to bound campaigns.

☐ Send emails if bound campaigns are running.

☐ Add more groups

Import File

Browse...

No file selected.

Import

Home / Recipients / OrganizationLDAPTest / Import

### OrganizationLDAPTest

Recipients

Edit Group Name

Import

Scan

LDAP Import Settings

Import From

LDAP Server

☒ Update existing recipients

☐ Add recipients to bound campaigns.

☐ Send emails if bound campaigns are running.

☐ Add more groups

Search

Search by group or user name

Search

Reset


<input type="checkbox"/>	Name	Email	Phone	Location
<input type="checkbox"/>	End User1	enduser@lucysecurity.com	12	
<input type="checkbox"/>	User1	user1@lucysecurity.com	41628357764	

LUCY will automatically match the user's attributes in the LDAP directory with the available recipient attributes in LUCY.

If "Update existing recipients" option is enabled, recipient attributes will update during LDAP import if these recipients have been imported before.

## Autoupdate LDAP Recipients

It is possible to configure LUCY autoupdate recipient list of from an LDAP Server.



Note, this configuration will not be active if there are global settings for recipients import disabled.

Home / Recipients / Test Group of Recipients / LDAP Import Settings

### Test Group of Recipients

Recipients

Edit Group Name

Import

Scan

LDAP Import Settings

☒ Autoupdate LDAP Recipients

LDAP Search Filter

Base DN

Filter

Comment

Base DN

Filter

Comment

Base DN

Filter

Comment

+Add

Save

You may use regular Active Directory search filters, for example:

```
(|(objectClass=inetOrgPerson)(objectClass=user)).
```

See [Microsoft Documentation](#) for more info.

The Base DN of the query must be specified in the following format:

```
dc=MyDomain,dc=com.
```

## Importing users via LDAP

If you want to import users who can access LUCY using their AD account, you can go into the user settings menu (Settings > Users) and click the according button:

Home / Users

### Users

+ New User

Import Users From LDAP

✕ Delete

↻ Convert to LDAP-based

User	Role	
<input type="checkbox"/> Support	<div>View</div>	✕
<input type="checkbox"/> API	<div>Administrator</div>	✕

By default, the User role will be assigned for all imported users.

LUCY - <https://wiki.lucysecurity.com/>

## Which LDAP fields can be used?

LUCY will automatically match the user's attributes in the LDAP directory with the available recipient attributes in LUCY. Those are:

- 1.Email - Recipient's e-mail address
- 2.Name - Recipient's name
- 3.Location - Recipient's location
- 4.Phone - recipient phone number

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