

Web Services

LDAP Configuration Guide

Web Services



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1

Overview

The FreeFlow Web -Services Lightweight Directory Access Protocol (LDAP) Adapter enables user authentication when logging in to the FreeFlow Web -Services application by way of a directory service.

The LDAP Configuration Guide is designed for Print Providers who want to connect Web Services to an LDAP server.

Integration of the LDAP system into Web Services is intended for corporate Print Buyer accounts, and supports multiple LDAP directories for different customers.

Integration of the LDAP system into Web Services enables users who are managed in an LDAP directory to work with the Web Services system. The Web Services account is a copy of the domain user account and is updated each time the user logs into Web Services. The user is synchronized with the LDAP user including account status, required user details, and properties.



- The Web Services LDAP Adapter is a separately licensed product and must be purchased in addition to the FreeFlow Web -Services license.
- Microsoft Active Directory, Novell's NDS, and FreeFlow Web -Services Print Service Provider are currently supported by LDAP.

Prerequisites

Use of the FreeFlow Web -Services LDAP Adapter requires the following:

- Appropriate Directory User Account(s) should be set up and made available
- The Web Services application should be configured to perform LDAP authentication

LDAP Workflow

The following three steps describe the LDAP workflow:

- 1 The user enters the login URL that will provide external (LDAP) authentication:
<http://localhost/iway/?IID=xxx> (where xxx is the authentication identifier as defined in the configuration file.
- 2 The user enters the domain login name and password in order to log in to the Web Services application; according to configuration parameters (refer to [Configuring LDAP for Web Services](#) on page 3), Web Services performs user authentication on the LDAP server.
- 3 If authentication is successful, the user will be logged in to the system, and one of the following events will be performed:
 - If no corresponding Web Services user account exists, the system will create an account using retrieved domain user details and properties.

Overview

- If the corresponding Web Services user account already exists, the system will update the account using retrieved domain user details and properties. If the corresponding Web Services user account was disabled, the system will enable the account.

If authentication fails, the user will not be logged in to the system and the appropriate error message will appear. In this case:



- If the domain user account has been disabled or deleted, but the corresponding Web Services user account still exists and is active, the system will disable the account.
- For all other error states (wrong password, technical error, etc.) no other manipulations on the corresponding existing Web Services user account will be performed.

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LDAP Configuration

In FreeFlow Web -Services, you configure the LDAP Adapter in the **External Systems** window.

To access the **External Systems** window:

- 1 Login to the Print Service Provider.
- 2 Navigate to **Settings -> Integrations -> External System**; the **External Systems** window appears.
- 3 In the **Systems** list, select **LDAP**.

Configuring LDAP for Web Services

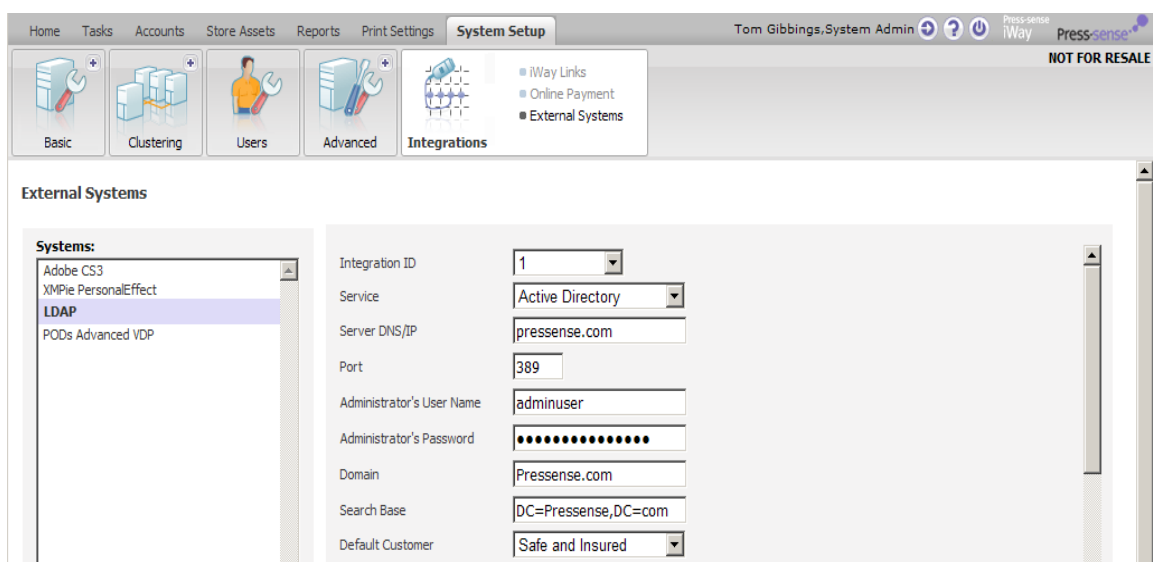
Configuration settings are divided into two sections:

- [Configuring the Connection Settings](#)
- [Mapping LDAP - Web Services Attributes](#)

Configuring the Connection Settings

Connection settings provide the parameters necessary to connect to the LDAP server.

Figure 1: Connection Settings



The screenshot shows the 'External Systems' configuration window in the FreeFlow Web Services interface. The 'Integrations' tab is active, and the 'LDAP' system is selected from the 'Systems' list. The configuration fields are as follows:

Field	Value
Integration ID	1
Service	Active Directory
Server DNS/IP	pressense.com
Port	389
Administrator's User Name	adminuser
Administrator's Password
Domain	Pressense.com
Search Base	DC=Pressense,DC=com
Default Customer	Safe and Insured

To configure connection settings, select parameters detailed in [Table 1](#).

Table 1: Connection Settings Parameters (Sheet 1 of 2)

Parameter	Description
Integration ID	If you have a number of LDAP integrations, select one for your current work session.
Service	The directory service - Active Directory (Microsoft), or Novell. Example: <serverType>AD</serverType>
Server DNS/IP	Domain server name or server IP address where the active directory is located. Example: <authURL>10.10.10.1</authURL>
Port	Port number in use by Web Services to contact the domain (default 389). This port is employed to perform the query with the LDAP. If the LDAP server is external, this port must be opened within the firewall, in order to allow it to access the server and perform the query. Example: <ldapPort>389</ldapPort>
Administrator User Name and Password	Defines Domain administrator credentials. Type in the user name and password of the administrator of the active directory. The login name and password of any user belonging to the 'Domain Admins' group can be used.
Domain	The local Domain Name System (DMS) name within the Company. This name is defined in the active directory. Example: <domain>mydomain</domain>
Search Base	Defines where to start the search inside the domain [DC=domain controller]. The LDAP syntax requires that you include the following parameters: <ul style="list-style-type: none"> ■ DC=mydomain ■ DC=com

Table 1: Connection Settings Parameters (Sheet 2 of 2)

Parameter	Description
Default Customer	<p>Defines the default Web Services account into which the authenticated LDAP user will be logged.</p> <p>Example:</p> <p><customerID>2</customerID></p>

Mapping LDAP - Web Services Attributes

The attribute settings define the parameters that Web Services extracts from the LDAP server and how they are translated by Web Services. Mapping the attributes is divided into two sections:

- [Configuring the Attributes](#)
- [Configuring Privileges Parameters](#)

Configuring the Attributes

Attributes are the set of parameters - address, phone number, etc. - defined in the LDAP directory, and retrieved and updated in the Web Services user account. [Figure 2](#) shows attribute parameters.

Figure 2: Attribute Settings

Configuring Privileges Parameters

The LDAP Adapter integration enables synchronization between members of LDAP groups and Web Services privileges. Privileges parameters are divided into two headings:

- Member of:
User group within the active directory.
- Privilege ID:
Privilege role within Web Services.

Figure 3: Privileges Parameters

Member Of	Privilege ID	
Admins	-- select privilege --	<input type="checkbox"/>
	Admin	<input type="checkbox"/>
Controller	-- select privilege --	<input type="checkbox"/>
All	Admin	<input type="checkbox"/>
Users	Supervisor	<input type="checkbox"/>
	Designer	<input type="checkbox"/>
	superuser	<input type="checkbox"/>
	User	<input type="checkbox"/>
	Guest	<input type="checkbox"/>
	Custom	<input type="checkbox"/>



When mapping LDAP attributes to Web Services attributes, you must maintain a hierarchal order. A group with the highest privileges should be defined first, with all other definitions adhering to the order hierarchy.

Testing the New Configurations

To test the new configurations, login to <http://localhost/iway/?iid=1>.



1 is the Integration ID defined by you. Refer to [Figure 1](#).

Each buyer must login using this URL in order to receive authentication by the LDAP.

When applying a skin to the customer, use the following URL:

ip/branding/DiscoverIt/?iid=1