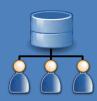
MIDAS

Active Directory Integration Documentation

https://mid.as/active-directory-integration v1.05



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Overview

The Lightweight Directory Access Protocol (or LDAP) is a method of accessing an Active Directory (AD) over an IP network. It's commonly used to authenticate users on a corporate network when they login to their computer/workstation.

Self-Hosted editions of our MIDAS room booking system (v4.06 or later) offer seamless Single Sign-On (SSO) support through LDAP integration with your Active Directory. This allows users to be automatically logged into your room booking software whenever they access MIDAS through their web browser.

The basic process is as follows...

Stage 1	Stage 2	Stage 3	Stage 4	Stage 5
User opens	The browser	MIDAS queries	User is added (or updated)	User is
their browser	sends the	your AD to	in MIDAS using	seamlessly
and navigates	logged in user's	retrieve the user's	permissions from the User	logged into
to MIDAS	username to	real name, email	Group having a	MIDAS
	MIDAS	address and	corresponding name as	
		Primary Group	the user's Primary Group	
			in the AD	

Prerequisites

In order to be able to use the LDAP integration offered by MIDAS, the following prerequisites must first be met:

Tip: Check out our <u>Integration Test Tool</u> to help verify your infrastructure meets the requirements set out below

MIDAS

You must be running MIDAS v4.06 (or later) on your own server (self-hosted), and your MIDAS must be licenced for "Unlimited" users.

Tip: If you need to upgrade your self-hosted MIDAS licence to "Unlimited" users you can do so at <u>https://mid.as/upgrade</u>

IMPORTANT: If your MIDAS is hosted by us in the "cloud" and/or your MIDAS isn't licensed for "Unlimited" users, Active Directory integration is not available



Server

It is assumed that you already have an Active Directory setup and running within your infrastructure, and that you have a working knowledge of your company's Active Directory. Setting up of an Active Directory itself is beyond the scope of this documentation.

It is also assumed that you're running either an Apache or an IIS web server.

Apache

The module "**mod_auth_sspi.so**" or "**mod_authnz_sspi.so**" is required on the server where your MIDAS resides. See <u>Configuring Apache</u>

IIS

Windows authentication needs to be enabled on the server where your MIDAS resides. See <u>Configuring IIS</u>

Perl

The Perl module **Net::LDAP** is required on the server where your MIDAS resides. This module provides LDAP support to Perl (the language MIDAS is written in) and may be freely obtained via <u>CPAN</u>.

Tip: If you're using ActiveState Perl, this module may be installed via the Perl Package Manager, where it is listed as "perl-ldap"

Y Tip: For assistance installing Perl modules, please see our KB article: <u>How to install Perl modules</u>



AD Users

All Active Directory users must have a unique email address associated with their AD entry in order for them to be able to authenticate and login to MIDAS.

Active Directory users should also be assigned a "Primary Group" within the AD. A user's "Primary Group" is subsequently used by MIDAS to determine the set of permissions to be applied to the user. If an AD user has no "Primary Group" set, MIDAS will allocate them a very basic/restrictive set of permissions instead.

End Users

End users must be logged on to their computer/workstation through your Active Directory. If they logged onto their device "locally", they may not be able to seamlessly authenticate against your Active Directory when using MIDAS, and may instead be prompted for their system credentials.

User's browsers must also be capable of determining the username of the logged in user. See <u>Configuring Browsers</u>



Configuration

Configuring Apache

Apache 2.4

In order for Apache 2.4 to authenticate against an Active Directory server, the module "mod_ authnz_sspi.so" must be present, enabled, and correctly configured.

The module mod_authnz_sspi may be obtained from

<u>https://www.apachehaus.net/modules/mod_authnz_sspi</u> - Make sure you download the right version for your Apache install (x64 or x86).

Unzip the module, and add the files from the bin location to your Apache "bin" folder, and the files from the module folder to your Apache "module" folder.

Once installed, this module can be enabled by adding the following line to your server's httpd.conf file:

LoadModule authnz_sspi_module modules/mod_authnz_sspi.so

Please also ensure that the following modules are uncommented in your http.conf file (by removing any leading "#"):

LoadModule authn_core_module modules/mod_authn_core.so LoadModule authz_core_module modules/mod_authz_core.so



Next, you will need to configure the directory on your server where your MIDAS resides to authenticate against your Active Directory. Again, this is done by adding the following to your httpd.conf file:

<Location "/midas/"> AuthName "Intranet" AuthType SSPI SSPIDomain xxx.xxx.xxx SSPIAuth on SSPIOfferSSPI on SSPIAuthoritative on SSPIUsernameCase lower SSPIUsernameCase lower SSPIPerRequestAuth on SSPIOmitDomain on require valid-user </Location>

Where "/midas/" is the location where MIDAS resides on your server, relative to the root (usually "htdocs" or "public_html"), and xxx.xxx.xxx is the IP address or domain name of your Active Directory server. In the above example, MIDAS resides under /public_html/midas/, and therefore the location to use is "/midas/"

Tip: You will need to restart Apache for changes you make to your httpd.conf file to take affect

Linux-based servers: "mod_authnz_sspi" may not be available on your server. An alternative Apache module is "mod_auth_kerb". Please refer to the <u>vendor's own documentation</u> for guidance installing and configuring this module.

Apache 2.2

In order for Apache 2.2 to authenticate against an Active Directory server, the module "mod_auth_sspi.so" must be present, enabled, and correctly configured.

Once installed, this module can be enabled by adding the following line to your server's httpd.conf file:

LoadModule sspi_auth_module modules/mod_auth_sspi.so



Next, you will need to configure the directory on your server where your MIDAS resides to authenticate against your Active Directory. Again, this is done by adding the following to your httpd.conf file:

<Location "/midas/"> AuthName "Intranet" AuthType SSPI SSPIDomain xxx.xxx.xxx.xxx SSPIAuth on SSPIOfferSSPI on SSPIAuthoritative on SSPIUsernameCase lower SSPIDerRequestAuth on SSPIOmitDomain on require valid-user </Location>

Where "/midas/" is the location where MIDAS resides on your server, relative to the root (usually "htdocs" or "public_html"), and xxx.xxx.xxx is the IP address or domain name of your Active Directory server. In the above example, MIDAS resides under /public_html/midas/, and therefore the location to use is "/midas/"

 \mathbb{P} Tip: You will need to restart Apache for changes you make to your httpd.conf file to take affect



Configuring IIS

In order for IIS to authenticate against an Active Directory, you must disable anonymous access and enable Integrated Windows authentication for the server (or specific directory) where your MIDAS resides.

Configuring IIS 7+ for Active Directory Integration

The default installation of IIS 7.x (and later) does not include the Windows authentication role service. To use this authentication on IIS 7.x (or later), you must do three things.

Firstly, you'll need to install the role service. Next, you'll need to disable Anonymous authentication for the server or directory where your MIDAS resides. Finally, you'll need to enable Windows authentication for the directory/site.

- 1. Open the Internet Information Services (IIS) Manager.
- 2. Navigate to the site/directory where your MIDAS resides, and click "Authentication":





3. Right-Click the "Anonymous Authentication" entry and select "Disable":

Authentication

Name	Status	Status Response Ty		ype	
Anonymous Authentication	Enabled		Distant	7	
ASP.NET Impersonation	Disabled		Disable dhy		
Basic Authentication	Disabled		Edit	je	
Forms Authentication	Disabled	(2)	Help	edirect	
Windows Authentication	Disabled		Online Help	le	

4. Right-Click the "Windows Authentication" entry and select "Enable":

Group by: No Grouping		
Name	Status	Response Type
Anonymous Authentication	Disabled	
ASP.NET Impersonation	Disabled	
Basic Authentication	Disabled	HTTP 401 Challenge
Forms Authentication	Disabled	HTTP 302 Login/Redirect
Windows Authentication	Disabled	HTTP 401 Challenge
		Enable
		Help
		Online Help

If the "Windows Authentication" option isn't present, you will first need to install the Windows authentication role services.



On Windows 7 (or later) (IIS 7.5+), this can be done via Control Panel \rightarrow Programs and Features \rightarrow Turn Windows features on or off \rightarrow Internet Information Services \rightarrow World Wide Web Services \rightarrow Security \rightarrow Windows Authentication:

Windows Features	×
Turn Windows features on or off	2
To turn a feature on, select its check box. To turn a feature off, clear its check box. A filled box means that only part of the feature is turned on	
🕀 🔳 🔒 Health and Diagnostics	*
🕀 🔳 🔒 Performance Features	
🖃 🔲 🍌 Security	
Basic Authentication	
Client Certificate Mapping Authentication	=
Digest Authentication	
IS Client Certificate Mapping Authentication	
🔲 🏭 IP Security	
🔽 🍌 Request Filtering	
URL Authorization	
Windows Authentication	
🕀 🔳 🚡 Microsoft .NET Framework 3.0	Ŧ
OK Cance	



On Windows Server 2008 R2+ (or later) (IIS 7.5+), this can be done via Administrative Tools \rightarrow Server Manager \rightarrow Roles \rightarrow Web Server (IIS) \rightarrow Role Services \rightarrow Add Role Services \rightarrow Security \rightarrow Windows Authentication:

Add Role Services		X
Select Role Servic	es	
Role Services Confirmation Progress Results	Select the role services to install for Web Server (IIS): Role services:	Description: <u>Windows authentication</u> is a low cost authentication solution for internal Web sites. This authentication scheme allows administrators in a Windows domain to take advantage of the domain infrastructure for authenticating users. Do not use Windows authenticated access your Web site from behind firewalls and proxy servers.
	< <u>Previous</u>	> Install Cancel

For more information on enabling Windows Authentication under IIS, please refer to: https://learn.microsoft.com/en-us/iis/configuration/system.webServer/security/authentication/ windows Authentication/



Configuring IIS 6.0 for Active Directory Integration

- 1. Open Administrative Tools \rightarrow Internet Information Services (IIS) Manager.
- 2. Right-click on the site/directory where your MIDAS resides and select "Properties".
- 3. Switch to the "Directory Security" tab, and click the Authentication and access control "Edit" button:



4. Untick "Enable anonymous access" and tick "Integrated Windows authentication":

Use the follow	ing Windows user account for anonymous access:
<u>U</u> ser name:	IUSR_BBTSC Browse
Password:	•••••
Authenticated	access
	ing authentication methods, user name and password
For the follow are required v - anoi	ing authentication methods, user name and password
For the follow are required v - anoi - acce	ing authentication methods, user name and password when: hymous access is disabled, or
For the follow are required v - anoi - acce	ing authentication methods, user name and password when: hymous access is disabled, or ess is restricted using NTFS access control lists

5. Click "OK" then "OK" again to return to the IIS manager.



Configuring Web Browsers

By default, web browsers do not supply a user's system credentials to a web server.

In order to use MIDAS with Active Directory integration, a modification to your users' browser security settings is required in order to confirm that it is safe to exchange their currently logged in credentials with MIDAS upon request.

The settings outlined in this section will need to be applied to all user PC's/workstations within your domain.

Note: At time of writing, Opera and Safari browsers do not natively support seamless integration

If you do not apply these settings to user's PC, users will not be seamlessly logged into MIDAS. Instead, they may be prompted to enter their AD username and password logon each time they access MIDAS



Configuring Microsoft Internet Explorer

In order for Internet Explorer to supply credentials to a site, the site (domain where your MIDAS resides) must be added to IE's "Local Intranet" sites. (Internet Options \rightarrow Security \rightarrow Local Intranet \rightarrow Sites)

elect a zone to view or change	content Connections Programs Advanced	
Internet Local intrane	sites	
Security level for this zone Allowed levels for this zon Allowed levels for this zon Medium-low - Appropriate (intranet) - Most conter - Unsigned Ac - Same as Me Enable Protected Mo	Add this website to the zone: http://your_midas_domain Websites:	
	Require server verification (https:) for all sites in th	nis zone

Please Note: <u>MIDAS no longer supports Internet Explorer</u>



Configuring Mozilla Firefox

To configure Firefox, you will need to add the domain where your MIDAS resides as a "trusted" site for automatic authentication.

To do this, open Firefox and enter "**about:config**" in the address bar.

Then locate the "**network.automatic-ntlm-auth.trusted-uris**" setting and add your MIDAS URL to this setting's current value:

Preference	Name	*	Status	Туре	Value
network.au	utomatic-nt	lm-auth.trusted-uris	default	string	
	Enter stri	ng value		×	1
	0	network.automatic-nt	lm-auth.truste	ed-uris	
		your_midas_url			
		ОК	Cancel	ſ	

Depending upon your network environment, you may also need to add your MIDAS domain/url to the "network.negotiate-auth.delegation-uris" setting as well



Configuring Google Chrome

Chrome inherits it's from Internet Explorer's Local Intranet Zone. Therefore, please follow the steps outlined in <u>Configuring Microsoft Internet Explorer</u>.

Alternatively, a list of authorized servers may be passed in to Chrome using a comma-separated list of URLs via the "auth-server-whitelist" command-line switch. For example, starting Chrome with the command-line switch:

--auth-server-whitelist="*yourdomain.com"

...will "white list" "yourdomain.com", allowing for seamless AD integration without prompting the user for additional credentials.

For more information, please see: <u>https://www.chromium.org/developers/design-documents/http-authentication/</u>



Integration Test

In order to help you determine whether your current infrastructure meets the <u>prerequisites</u> for integrating MIDAS with your Active Directory, we've provided an easy-to-use tool:



What does the Integration Test tool do?

This tool checks and reports on the following:

- 1. Whether MIDAS is installed and meets the pre-requisites
- 2. Whether the required Perl module Net::LDAP is available on your server
- 3. Whether your browser is configured to determine your currently logged in username

The tool also allows you to perform a connection test to your Active Directory, using credentials you supply.



How do I use the Integration Test tool?

- 1. First, please check your infrastructure meets the pre-requisites and that you've configured your server and web browser.
- 2. Next, download our Active Directory Integration Test Tool from <u>https://mid.as/active-directory-integration/integration-test</u>
- 3. Upload the tool to the location on your server where MIDAS resides, and set its permissions accordingly.

The ADtest.pl file will need to be granted the "Execute" permission (CHMOD 755). Also, if the location of Perl on your server isn't /usr/bin/perl you may need to edit the first line of the ADtest.pl file to reflect the correct location of Perl

Don't worry if you're not yet running MIDAS, you can still use this tool - just upload it to the location on your server where you propose to eventually install/run MIDAS

4. Navigate to the corresponding URL in your web browser and then follow the on-screen instructions to begin the Integration Test.



Configuring MIDAS

LDAP Integration is configured via MIDAS Admin Options \rightarrow Manage Users & Permissions \rightarrow Single Sign On (SSO).

🕑 Man	age Users & Permissions
Enable LD	Users Groups Single Sign-On (SSO) AP Authentication
Host:	192.168.56.104 Example: 10.10.10.10
Bind To:	CN=Administrator,CN=Use Example: CN=Administrator,CN=Users,DC=mydomain,DC=local
Bind Password:	[Not Shown]
Base:	DC=main1,DC=local Example: DC=mydomain,DC=local
	Update User Permissions upon each authentication
	If no matching User Group exists, block access
	Enable Debug Logging
	Test Save Changes

Setting	Description
Enable LDAP	Enables/Disables LDAP Authentication of users.
Authentication	
Host	The IP/domain of your Active Directory server. This is the server against
	which users are authenticated within your infrastructure.
	To connect via LDAPS instead of LDAP, prepend the Host with "ldaps://".
	By default, connections will be made on port 389 (LDAP) or 636 (LDAPS).
	To connect on a different port, specify the Host as "hostip:port"
Bind To	The Distinguished Name binding MIDAS should use to query your Active
	Directory.
	Example: CN=Administrator,CN=Users,DC=mydomain,DC=local
Bind Password	The password required by your AD server to bind to the above
Base	The base at which user information may be found in your Active
	Directory
	Example: DC=mydomain,DC=local
	In MIDAS v4.09+ you can also specify multiple bases by separating each
	base with a semi-colon (;) character



Update User Permissions upon each login	If selected, the user's MIDAS permissions will be updated with the latest permissions assigned to their "group" each time they access MIDAS. See <u>Managing Permissions</u>
lf no matching User Group exists, block access	If the user's Primary Group in the AD does not correspond to a matching user group name in MIDAS, this setting determines what should happen. If selected, SSO access to MIDAS will be denied and the user will see the standard login screen. If unselected, the user will be logged in with a very restrictive set of user permissions (essentially "view only")
Enable Debug Logging	 With debugging enabled, failed and successful LDAP authentications will be logged to a "/debug-ldap.dat" file in your MIDAS directory. Warning: It is recommended to only enable Debug logging whilst troubleshooting integration with your AD. Once up and running, it's strongly advised to disable this logging, otherwise the log file can become very large!

Clicking the "Save Changes" button will apply your settings.

Clicking the "Test" button will perform a basic connection test to your Active Directory server using the details you've entered, and will display the results:



In addition, when you perform an LDAP Connection Test, MIDAS will attempt to retrieve a list of User Groups from your Active Directory, and add these names to the User Group list in MIDAS.



Managing Permissions

The user permissions assigned to each MIDAS user who authenticates against your Active Directory are derived from the name of Primary Group the user is a member of within your Active Directory, and the permissions associated with the corresponding MIDAS User Group with the same name.

If an AD user has no "Primary Group" set, and MIDAS isn't <u>configured</u> to block such users, MIDAS will instead default to allocating the user a very basic/restrictive set of "view only" permissions instead.

To set a user's Primary Group in your Active Directory:

🐳 Active Directory Users and Computers				
	low <u>H</u> elp	_ Ð ×		
← → 🖻 🖬 👗 💼	Test User Properties			
Active Directory Users and C Active Directory Users and C MAIN.local MAIN.local Computers Domain Controllers ForeignSecurityPrinc Users	Address Account Profile Telephones Organization Member Of Member of:			
	Add Bemove Primary group: Techies Set Primary Group There is no need to change Primary group unless you have Macintosh clients or POSIX-compliant applications.			
	OK Cancel Apply			

In the above example, the user's Primary Group in the Active Directory is "Staff".

This user's MIDAS permissions will therefore be derived from the permissions you've specified for a User Group within MIDAS with the same name (i.e. "Staff") (You can setup MIDAS user groups via MIDAS Admin Options \rightarrow Manage Users & Permissions \rightarrow Groups)



If the "Update User Permissions upon each login" option is enabled (MIDAS Admin Options \rightarrow Manage Users & Permissions \rightarrow Single Sign On (SSO)) then each time the user opens MIDAS, their MIDAS user permissions will be updated to reflect the current permissions associated with their User Group.

If the "Update User Permissions upon each login" option is not selected, the user's MIDAS permissions will be set based upon the group permissions at the time of their first access of MIDAS via Active Directory authentication. Once set, these permissions will not be automatically updated again (i.e. subsequent changes to the user group's permissions within MIDAS will not be applied to existing users who have previously authenticated with MIDAS via Active Directory integration).

Leaving this option unselected can be useful if you wish to "tweak" specific individual user's permissions.

Please refer to the main MIDAS documentation for details of the available User Permissions

Troubleshooting

If you encounter an issue configuring MIDAS to authenticate against your Active Directory, a good place to start is the "Test" button on the MIDAS Admin Options \rightarrow Manage Users & Permissions \rightarrow Single Sign-On (SSO). This button will test whether MIDAS is able to connect to and query the Active Directory using the settings you've specified.

If this test fails, these settings are the first thing to check.

You can also enable debug logging by selecting the "Enable Debug Logging" option and clicking "Save Changes". With debugging enabled, failed and successful LDAP authentications will be logged to a "/debug-ldap.dat" file in your MIDAS directory.

Warning: It is recommended to only enable Debug logging whilst troubleshooting integration with your AD. Once up and running, it's strongly advised to disable this logging, otherwise the log file can become very large!

Common issues, their causes and resolutions are outlined in the following table...

Symptom	Possible Cause(s)	Resolution
Integration Test fails with "An error occurred binding to the LDAP server: [82] An error occurred in C <net::ldap>"</net::ldap>	A bug exists in some recent versions of ActivePerl (and also Strawberry Perl) which may prevent the Net::LDAP module from functioning correctly.	The workaround (other than installing an earlier version of Perl) is to rename the "INET6.pm" module within your current Perl distribution to something else. INET6.pm provides IPv6 support for Perl, and can commonly be found at C:\Perl64\site\lib\IO\Socket\INET6.pm (depending upon the location of Perl on your system). For more information on this workaround, please see <u>this post</u> . If you have other Perl applications still requiring INET6.pm, an alternative potential <u>workaround</u> also exists
Integration Test fails with "Unable to determine the currently logged in user"	This indicates that your server has not been correctly configured to support Active Directory authentication at the location from which you're running the ADtest tool	Please make sure you've followed the steps for configuring your server carefully. A common cause of this on Apache servers is not correctly configuring the <location> directive - remember, this should specify the server path of your MIDAS installation, <u>relative</u> to the server's document root (i.e. relative to "public_html" or "htdocs")</location>
Integration Test fails with "The maximum number of search results to return has been exceeded"	An LDAP_SIZELIMIT_EXCEEDED error indicates that a search query made by MIDAS to your Active Directory returned more results than the maximum number of search results your Active Directory is currently configured to return in a single query (typically more than 1,000). This may be due to a too generic "base" setting in MIDAS, or a very large number of groups within the base of your AD that MIDAS searched.	Consider narrowing down the "Base" in which MIDAS will search your Active Directory to be more specific - See <u>configuring MIDAS</u> . Alternatively, you may need to increase the maximum search results limit in your Active Directory. Please refer to the documentation for your Active Directory for guidance to increase this limit.
After configuring and enabling	If MIDAS is unable to successfully connect to and	Go to MIDAS Admin Options \rightarrow Manage Users & Permissions \rightarrow Single Sign-On (SSO) and

MIDAS



LDAP integration, when I access MIDAS, I still see a login screen	 query your Active Directory, it will fall back to the standard login screen. If there is no email address in your Active Directory for your username, the user will see the standard MIDAS login screen. If there is no User Group in MIDAS with a name matching the name of the user's Primary Group setting in your Active Directory, and the "If no matching User Group exists, block access" option in MIDAS is selected, the user will see the standard MIDAS login screen. If a user's MIDAS user account has been "suspended" in MIDAS, they 	 check your Active Directory settings are correct using the "Test" button If you've enabled debug logging, this cause will be indicated in the debug log. An email address should be entered in your Active Directory for each user who will be accessing MIDAS. If you've enabled debug logging, this cause will be indicated in the debug log. 1. Ensure that a User Group has been created in MIDAS (MIDAS Admin Options → Manage Users & Permissions → Groups) with the same name as the user's Primary Group from your Active Directory. or 2. Untick the "If no matching User Group exists, block access" option (MIDAS Admin Options → Single Sign-On (SSO)). The user will then be able to access MIDAS using a very limited set of "view only" permissions. If you've enabled debug logging, this cause will be indicated in the debug log.
	will be returned to the login screen rather than	Go to MIDAS Admin Options \rightarrow Manage Users & Permissions \rightarrow Users and check that the user account in question hasn't been suspended.
A dialog prompting for credentials is shown when accessing MIDAS	seamlessly logged in. Your browser has not been configured to present the username of the currently logged in user to the server where your MIDAS resides.	See <u>Configuring Web Browsers</u>
Unable to change user's primary group - the "Set Primary Group" button is disabled	If the "Set Primary Group" button within your Windows Active Directory, "User Properties → Member Of" dialog is disabled (greyed out), this can occur if you're trying to set a Local/built-in group as primary (such as Users, Backup Operators, etc)	Select another Global (non-built-in) user group, and the "Set Primary Group" button should become enabled. If you have not defined any other user groups, create a new global security group and you should then be able to set it as the Primary Group for individual users. Alternatively, see our "I can't change user's Primary Groups in my Active Directory, yet I need to assign different users different permissions!" FAQ entry below for a workaround.



Frequently Asked Questions

Why is Active Directory Integration only available for "self hosted" editions of MIDAS?

In order for a web server to support Active Directory integration, the server has to be specifically configured to do so. With our "cloud hosted" edition of MIDAS, we do not permit or provide you with access to change/reconfigure the web server in order to support your LDAP server.

Why must my MIDAS be licensed for "Unlimited" users in order to use Active Directory integration?

If your MIDAS is licensed to a finite number of users, then Active Directory integration would potentially exclude some of your Active Directory users from accessing access MIDAS - defeating the point of the seamless "single sign-on" ability offered by LDAP integration. For example, if your MIDAS is only licensed for 10 users, then whichever 10 users from your Active Directory login to MIDAS first, they would then be the only 10 users who could continue to access MIDAS in the future - all others would be rejected.

Therefore, to avoid this, we have restricted Active Directory integration to self-hosted customers with an "Unlimited" user MIDAS license.

Generally speaking, organizations that utilize an Active Directory tend to have dozens, if not hundreds, of users so would likely have or require an "Unlimited" user license for MIDAS anyhow.

Does MIDAS "write" anything back to or update my Active Directory?

No. MIDAS only reads data from your Active Directory. It won't write anything back or make any changes to your Active Directory.

I can't change user's Primary Groups in my Active Directory, yet I need to assign different users different permissions!

By default, MIDAS will assign permissions based upon each user's Primary Group which corresponds to a user group in MIDAS with the same name. If you are unable to change a user Primary Group in your Active Directory to allow them to inherit different permissions within MIDAS, there is a solution! https://mid.as/active-directory-integration P a g e | 24



- 1. Export a list of users from your AD (including full names and email addresses)
- 2. Open this exported data in a spreadsheet and add an additional "User Group" column
- 3. Populate this new user group column with the names of existing User Groups you've previously defined in MIDAS
- 4. Save your modified spreadsheet as a .CSV file
- 5. Import this file (MIDAS Admin Options \rightarrow Manage MIDAS \rightarrow Database \rightarrow Database Tools \rightarrow Import Data), ensuring you assign the correct fields to the correct columns

This will setup user accounts in MIDAS for all your current AD users, and assign each account the permissions from the relevant existing MIDAS User Group.

Finally, untick the "Update User Permissions upon each authentication" option (MIDAS Admin Options \rightarrow Manage Users & Permissions \rightarrow Single Sign-On) Then once you've setup & enabled LDAP authentication, users will be able to seamlessly authenticate and will have the appropriate user permissions.

Not all our users are under the same base within the Active Directory, can MIDAS handle that?

Yes. In MIDAS v4.09+ you can specify multiple Active Directory bases (MIDAS Admin Options \rightarrow Manage Users & Permissions \rightarrow Single Sign-On \rightarrow Base) by separating each base with a semi-colon (;) character.

If you're running an earlier version of MIDAS however you would need to update to v4.09+ in order to be able to configure multiple AD bases.

For the most up-to-date Active Directory Integration documentation, please visit <u>https://mid.as/active-directory-integration</u>