

Portal Single Sign-on (SSO)

Deployment and Configuration Guide with Azure

SSO Overview

For added security and convenience, Cloudflare Area 1 offers support for SAML based single sign-on (SSO) logins to our portal. This feature is centrally configured by your organization and compatible with all SAML based SSO providers. Organizations will be able to choose between having users access the Area 1 security data with a username and password + two-factor authentication (2FA) code, or having them use an SSO provider, such as one login or okta, to access the portal.

SAML Configuration Options:

- 1. Identity Provider SAML
- 2. SP-Initiated SAML

All Area 1 SAML Setup:

- The first step, if you don't have one already, is to select and set up an SSO provider (such as Onelogin or Okta) which will manage the user interface and settings for your organization. Any software that supports SAML will work (this is not an endorsement for any SSO provider).
- 2. You can turn on the feature in the Area 1 portal from the SSO settings page: <u>https://horizon.area1security.com/settings/single-sign-on</u>

3. SSO enforcement

None
A desi a
Admin
Non-admin Only

- a. **None** Each user can choose between SSO or Username, Password + 2FA (recommended setting while testing SSO).
- Admin This setting will force only Admin to use SSO only. The exception is that the user who enables this setting will still be able to login using Username, Password + 2FA. This is a backup so that your organization does not get locked out of the portal in emergencies.
- c. **Non-Admin Only** this option will require that all "Read only" and "Read & Write" users use SSO to access the portal. Admins will still have the option to use either SSO or Username, Password + 2FA.
- 4. **SAML SSO Domain** This is the domain that points to the SSO provider.
- METADATA XML You will need to copy and paste the SAML XML Metadata settings from your provider into Area 1. These settings (and even their exact text descriptions) are in different locations depending on your SSO provider. Please contact your SOO provider or Area 1 support for assistance with this step if you run into any issues.
- 6. **Identity Provider SAML Setup -** Area 1's service today supports only IdP-Initiated (Identity Provider) SAML 2.0. The values to be configured in the IdP setup are as follows:

Identity Provider SAML Setup:

Area 1's service today supports only IdP-Initiated (Identity Provider) SAML 2.0. The values to be configured in the IdP setup are as follows:

SAML Consumer URL: https://horizon.area1security.com/api/users/saml

A customer parameter must also be added to the SAML assertion.

Parameter: email

Value = Email of user. Should match the email the user has already had created in the Area 1 portal

Once you have the above configured and the SAML icon created download the metafile.

Copy and paste it into the box "METADATA XML"

To test - On the landing page of your SAML solution. Locate the ICON you have created

for SSO login with Area 1 Security.

*user must already have an account with Area 1's portal.

SINGLE SIGN ON		
SSO ENFORCEMENT	None 🔻	
SAML SSO DOMAIN	a1s.onelogin.com	
METADATA XML	https://app.onelogin.com/saml/metadata/12345	
		G

Azure Active Directory:

Azure Active Directory Configuration

This will walk you through the steps for configuring a Non-Gallery Enterprise Application within Azure Active Directory to establish SAML SSO with Area 1 Security Portal.

- 1. Login to Azure portal and open **Enterprise Applications**.
- 2. Click on **+ New Application** to create a new application.

🗏 Microsoft Azure 🔑 😒	earch resources, services, and docs (G+/)
Home > Enterprise applications All appl	lications
Enterprise applications	All applications
Overview	+ New application == Columns
Overview	Application Type Applications status Enterprise Applications Any
X Diagnose and solve problems	Application visibility
Manage	Any Apply Reset
All applications	

3. Select Non-gallery application.



4. Name the application and then click **Add** at the bottom of the screen.

Add your own application	
Name * ③ Area 1 Horizon Once you decide on a name for your new application, click the "Add" button below and we'll walk you through some	~
simple configuration steps to get the application working. Supports: ① SAML-based single sign-on Learn more	
Automatic User Provisioning with SCIM Learn more Password-based single sign-on Learn more	
Add	

5. On the application Overview page, click on **2. Set up Single Sign On**.

Area 1 Horizon Overvie Integrity Application	twi	
Cverview	Properties	
Deployment Plan	Name ()	
X Diagnose and solve problems	Area 1 Horizon	
Manage	Application ID ()	
III Properties	0	
A Owners	Object ID ()	
Users and groups		
3 Single sign-on	Getting Started	
Provisioning		
Application prexy	 Assign users and groups 	2. Set up single sign on
Self-service	Provide specific users and groups access to the anticipations	Enable users to sign into their application using their Appre 40 medentials
Security	Assign users and groups	Get started
Conditional Access		
& Permissions		
Token encryption	4. Conditional Access	S. Self service
Activity	secure access to this application with a customizable access policy.	Enable users to request access to the application using their Azure AD conduction
Sign-ins	Create a policy	Get started
🔬 Usage & insights (Preview)		

6. Select **SAML** as your single sign-on method

Select a single sign-on method He Deabled Single sign-on is not enabled. The user won't be able to launch the app from My Apps.	some decide SAML Nich and secure aufhentication to applications using the SAMA. (Security Assertion Markup Language) protocol.	Passwood-based Pesswood storage and replay using a web browser extension or mobile app.
Construction in the Azure Active Directory Access Panell and/or Office 303 application launcher.		

7. Edit Basic SAML Configuration.

Set u	up Single Sign-On with S	SAML	
Read t	the configuration guide 🖉 for help	integrating Area 1 Horizon.	
0	Basic SAML Configuration		0
	Identifier (Entity ID)	Required	
	Reply URL (Assertion Consum er Service URL)	Required	
	Sign on URL	Optional	
	Relay State	Optional	
	Lonout Url	Ontional	

8. Update the **Identifier (Entity ID)** and **Reply URL (Assertion Consumer Service URL)** fields as follows, then **Save** and exit the Basic SAML Configuration screen.

Identifier (Entity ID): https://horizon.area1security.com

Reply URL (Assertion Consumer Service URL): https://horizon.area1security.com/api/users/saml

Sign-On URL: Blank

Relay State: Blank

Logout Url: Blank

Basic SAML Configuration		
ave Save		
Identifier (Entity ID) * 🛈		
The default identifier will be the audience of the SAML response for IDP-initiated SSO		
	Default	
https://horizon.area1security.com/api/users/saml	v 0	Ü
Reply URL (Assertion Consumer Service URL) * 🛞		
The default reply URL will be the destination in the SAML response for IDP-initiated SSO		
	Default	
https://horizon.arealisecurity.com/api/users/saml	0	Ē

9. Edit SAML Signing Certificate.

SAML Signing Certificate	
Status	Active
Thumbprint	CBC912H65A9C98HAF698L2E21143979 D0C858752*
Expiration	5/00/2832, 2:47:23 PM
Notification Email	LONGATINE ground.com
App Federation Metadata Url	https://login.microsoftonline
Certificate (Base64)	Download
Certificate (Raw)	Download
Federation Metadata XML	Download

10. Update **Signing Option** and **Signing Algorithm** as follows, then **Save** and exit the SAML Signing Certificate screen.

Signing Option: Sign SAML response

Signing Algorithm: SHA-1

Active Bjobjiddoll, Justice MA	CRUT LIBRARCHINAMERIZIENT ANYMOLOGINATEZ
Active N/DE/COLE, DETUE PM	CIICE LIBIT PARTICIPATION CONTRACTOR CONTRACTOR
Signing Option	
angining opposition and the real	ponse
Signing Algorithm SHA-1	
Notification Email Addresses	

11. Download the **Federation Metadata XML** as you will need it for the SSO Configuration within the Area 1 Portal.

SAML Signing Certificate		
Status Thumbprint Expiration Notification Email	Active CIRCUT DIRECTIONAL ACCOUNT AS INFORMATION SCOUNDS, 247-03, INV	
App Federation Metadata Url	https://login.microsoftenline.com/0029f7b2-97	
Certificate (Base64)	Download	
Certificate (Raw)	Download	
Federation Metadata XML	Download	

12. This completes the Enterprise application SAML configuration. The configuration should look similar to the screenshot below.

	he configuration guide 🖻 for help integrating Area1.				
Basic SAML Configuration					
Identifier (Entity ID)	https://horizon.area1security.com				
Reply URL (Assertion Consumer Service URL)	https://horizon.area1security.com/api/users/saml				
Sign on URL	Optional				
Relay State	Optional				
Logout Url	Optional				
User Attributes & Claims		🖉 Edi			
givenname	user.givenname				
surname	user.surname				
emailaddress	user.mail				
name	user.userprincipalname				

PLEASE NOTE: Now that the application configuration is complete, update **User Assignments** and **Application Properties** as needed to ensure that authorized personnel are able to access the new application from their Apps Catalog. Additionally, you may choose to update the application Logo image file or the privacy policy URL.

Area 1 Portal Configuration with Azure:

This section will provide guidance on completing the SSO configuration within the Area 1 Portal using the information from the Azure AD application created in the previous section.

- 1. Login to Area 1 Portal.
- 2. Navigate to **Settings > SSO**.

3. Update SSO settings as follows and verify the configuration looks similar to the configuration below.

Single Sign-On: Enabled

SSO Enforcement: *Configure to the desired setting based on your organization's policy*

SAML SSO Domain: login.microsoftonline.com

Metadata XML*: Paste contents of previously downloaded Metadata XML file from Azure AD

*To obtain Metadata XML file contents, open in Text Editor program and copy all of the text. Ensure there are no leading carriage returns or spaces when you copy the text. The copied text should begin with

<?xml version="1.0" encoding="utf-8"?><EntityDescriptor ID="_<*yourDescriptorID>*" entityID="https://*yourEntityID>*" xmlns="urn:oasis:names:tc:SAML:2.0:metadata">...

	All 4
SAML SSO DOMAIN	login.microsoftonline.com
METADATA XML	<pre></pre>
PROVISIONING	
BEARER TOKEN	

4. Click **Update Settings** to save configuration.

Test SSO Configuration:

After you have completed both the Azure AD Enterprise Application configuration along with Area 1's Portal SSO configuration, it is time to test your access.

Important: Verify the **User Assignments** and **Application Properties** of your new Azure AD application have been updated accordingly to ensure that authorized personnel are able to access the new application from their Office 365/Azure Apps Catalog page. Application logos and privacy policy URL can also be updated as needed.

For this example, the Area 1 Horizon application's logo has been updated.

- 1. Login to your Office 365 portal (portal.office.com).
- 2. Click on **All Apps**. Navigate to **Settings > SSO**.

3. Locate the **Area 1 Horizon** application (or whichever name you gave your application) and click on it to initiate your SSO login with Area 1's Portal.

 Office 365	✓ Search			
Office 365	All apps Tips and T	Tricks		
Admin	Area 1 Horizon	Calendar	Compliance	

4. If configured correctly, you should be signed in to the Area 1 Portal and redirected to the dashboard.

Troubleshooting:

- Verify the user exists in Area 1's Portal.
- Verify Identifier and Reply URLs in Azure AD.
- Verify SAML response is being signed (**not** SAML assertion) and algorithm set to SHA-1.
- Verify SAML SSO Domain is set correctly in Area 1 Portal SSO settings.
- Verify name ID identifier is set to Email Address

If the configuration is correct, but issues persist, please submit the ticket to Area 1 Support with the following SAML tracer logs:

- add this 'saml tracer' extension to your browser: https://chrome.google.com/webstore/detail/saml-tracer/mpdajninpobndbfcldcmbp nnbhibjmch?hl=en
- 2. Open up the extension
- 3. Try connecting to Area 1 through SSO
- 4. Copy the response you see on saml tracer (or download the json file) and send it Area 1 support.