

SSO Service Provider Configuration

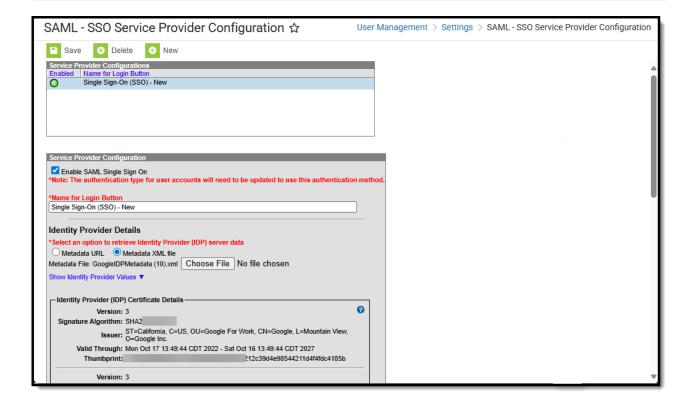
Last Modified on 07/28/2025 9:27 am CDT

Tool Search: SSO Service Provider Configuration

The SAML SSO Service Provider Configuration tool allows you to configure and enable SSO authentication(s) for Campus accounts in your district.

- Additional Things to Consider
- Enable and Configure SAML SSO Functionality
- Export the Service Provider Certificate
- Delete the Service Provider Certificate
- Certificate Expiration Warnings
- Replacing Expired Certificates
- Logging into Campus and Campus Portal Using SAML SSO
- <u>Understanding Service Provider Configuration Fields</u>
- Deleting an Existing SSO Configuration
- Configuring a Unique Entra Active Directory
- Configuring a Google IDP
- Sandbox/Staging/Non-Production Environments
- Matching Campus Fields to IDP Fields
- Troubleshooting SSO Login Issues

Campus accounts can be converted from using the Campus login authentication to SSO authentication by using the <u>User Account Type Wizard</u>.





Only users assigned a <u>Product Security Role</u> of **Student Information System (SIS)** are allowed to use this tool.

Additional Things to Consider

Please consider the following when enabling and using SAML SSO authentication within Campus:

Once SSO is enabled, the authentication type for user accounts will need to be updated to use this authentication method. This can be done on a user-by-user basis in the <u>User Account</u> tool or updated en masse via the <u>User Account Type Wizard</u>.

- When considering the configuration of user accounts, please note that <u>Cafeteria Serve</u> and <u>Service Layout</u> functionality only authenticates with a non-SSO account (LDAP account or Local Campus Authentication); therefore, please reserve a separate LDAP or Local Campus Authentication account for access to <u>Cafeteria Serve</u> and <u>Service Layout</u>
- In an effort to be as inclusive as possible to the SAML Identity Providers (IDPs) the Infinite
 Campus user base engages, we have tested the Campus SSO Service Provider against
 Microsoft Active Directory Federated Services (ADFS), Microsoft Entra Active Directory, Google
 Apps IDP, Shibboleth IDP, and OmnID. Since the Campus SSO Service Provider is part of
 the SAML specification, any IDP that is SAML compliant should connect with
 minimal intervention.
- Users may be asked to provide Campus Support with a test user to assist in troubleshooting any SSO issues they may encounter.

Admins and Authorized Contacts are expected to have a contingency plan for site access in the event your Identity Provider has an issue that makes it impossible to sign in through SSO. Admins should consider setting up a second user account under their own person record that uses an authentication type other than SSO (such as LDAP or Local Campus Authentication). We recommend securing this account with <u>Time-Based Multi-Factor Authentication</u>.

Note that some governing agencies, such as the North Carolina Department of Public Instruction, do not allow the use of Local Campus Authentication. Ensure you comply with your governing agency's security practices.

Enable and Configure SAML SSO



Functionality

The following steps will guide you in enabling and configuring SAML SSO functionality within Campus:

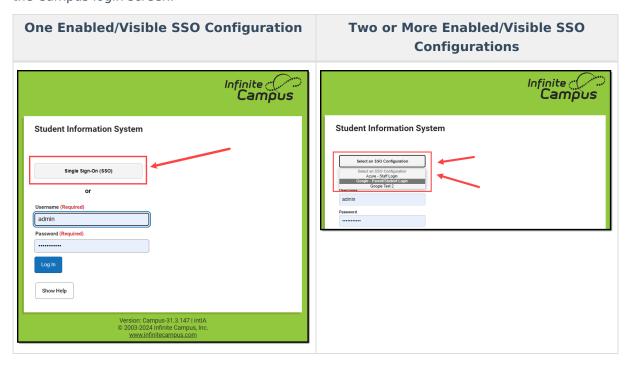
- Step 1. Enable SAML SSO and Sync IDP Server Data
- Step 2. Generate or Upload the Service Provider Certificate

Step 1. Enable SAML SSO and Sync IDP Server Data

The first step in configuring SAML SSO is to enable SAML SSO functionality, define the Login button and sync IDP server metadata.

Please see the table below for detailed information about each of these fields.

- 1. Click the **New** button. The Service Provider Configuration editor will appear below.
- 2. Mark the **Enable SAML Single Sign On** checkbox. This will enable this SAML Single Sign-On configuration within Campus.
- 3. Enter a **Name for the Login Button**. This will be the text that appears on the button for users to select when signing into Campus via SSO or if multiple IDPs are configured, enabled, and made visible, what appears in the dropdown list for selecting which SSO Login to use on the Campus login screen.





NOTE: Users are highly encouraged to give the button a name recognizable to staff and students/parents, ESPECIALLY if configuring more than one IDP. For example, one configuration is labeled as Staff Login, and another configuration is labeled as Student and Parent Login

4. Retrieve the IDP server metadata by either entering the **Metadata URL** or by uploading the **Metadata XML File**.

Campus SSO logic will first use an IDPs HTTP-POST binding if one is present and then only look for an HTTP-Redirect binding if the HTTP-POST binding is not found.

- 5. If the **Metadata URL** was entered, hit the **Sync** button. This will populate Identity Provider fields below.
- 6. If connecting Campus to Microsoft Entra (formerly Azure), leave the **Optional Attribute**Name field as nameID. This is the attribute Campus will look for as a response from Entra in order to match the username in Campus to Entra.

For more information about a unique Entra configuration, please see the <u>Configuring a Unique Entra Active Directory</u> section below.

- 7. In the **Campus SSO Preferences** area, set the **Request Timeout**. This field indicates the number of minutes that can pass before a request between Infinite Campus and the IDP produces a timeout error.
- 8. Determine the Domain Suffix Handling:
 - **No Change** This option indicates the domain name does not contain a suffix.
 - Remove a Domain Suffix This option allows you to remove the domain name from an IDP attribute value (such as an email address) to compare only the prefix of the value to the Campus username.
 - Append a Domain Suffix This option allows you to append a suffix to the domain name.
- 9. Check the **Logoff IDP when logging off Campus if logoff url exists** checkbox if you want the Logoff button in Campus to also log users out of the IDP.
 - This option only works if the Identity Provider Single Logoff URL field is populated and correct. This field is defaulted as marked.

This checkbox will automatically be unmarked and grayed out if the **Identity Provider Single Logoff URL** references Google.



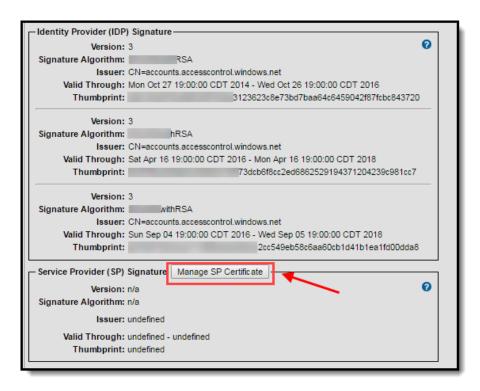
- 10. Designate which Campus Login screen(s) the SSO login button will not appear on:
 - Turn off this SSO configuration for the Main Login page Marking this checkbox means this SSO configuration will not appear as a button or option on the login screen for accessing the Infinite Campus application.
 - Turn off this SSO configuration for the Parent Portal Marking this checkbox means this SSO configuration will not appear as a button or option on the login screen for the Parent Portal.
 - Turn off this SSO configuration for the Student Portal Marking this checkbox means this SSO configuration will not appear as a button or option on the login screen for the Student Portal.

NOTE: If 2 or more IDPs are configured and enabled, to lessen confusion, users are highly encouraged to use these options to hide configurations from users who would not use them (i.e., hide the Staff-specific login from the Parent and Student Portals).

11. Move on to Step 2.

Step 2. Generate or Upload the Service Provider Certificate

You must now generate or upload the Service Provider Certificate. To do this, click the **Manage SP Certificate** button.

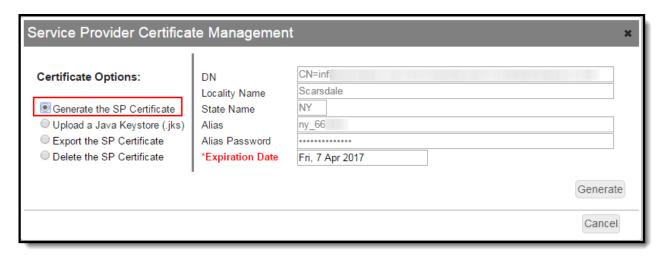


Service Provider Certificates can either be automatically generated by Campus using the Generate



the SP Certificate feature or manually uploaded via the Upload a Java Keystore (.jks) feature.

To have Campus generate the Service Provider certificate:

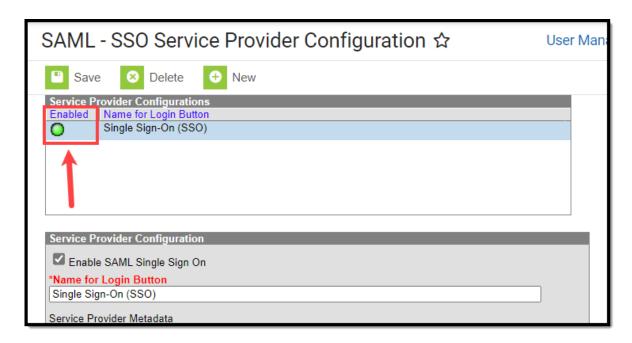


- 1. Click the **Generate the SP Certificate** radio button.
- 2. Enter an **Expiration Date**. This is the date in which the certificate will expire and will no longer be valid. This field defaults to one year from the current date.
- 3. Click the **Generate** button. Fields within the Service Provider SP (Signature) section of the SSO Service Provider Configuration editor will automatically populate with data generated from this certificate.

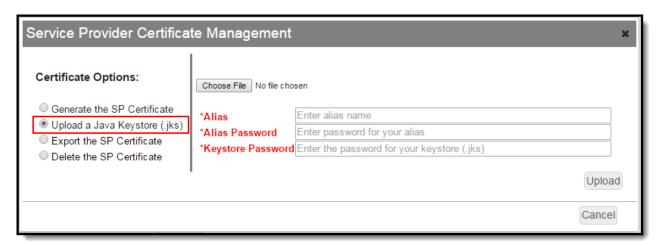
If a Service Provider certificate already exists within Campus, generating a new Service Provider certificate will automatically overwrite any existing certificate and associated data.

4. Click **Save** at the top of the editor. If the IDP was configured correctly, a green circle in the Enabled column will appear next to the IDP name in the Service Provider Configurations window. Users can now log into Infinite Campus via an SSO button on the login screen (see the <u>Logging into Campus and Campus Portal Using SAML SSO</u> section).





To upload the Service Provider certificate:



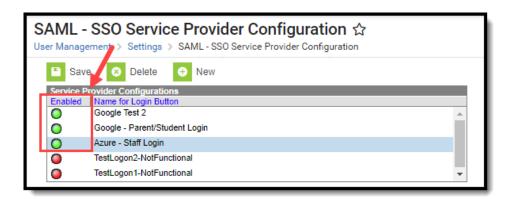
- 1. Click the **Upload a Java Keystore (.jks)** radio button.
- 2. Click the **Choose File** button and locate the .jks file from your local hard drive or network.
- 3. Once the file is selected, click the **Upload** button. Fields within the Service Provider SP (Signature) section of the SSO Service Provider Configuration editor will automatically populate with data uploaded from this certificate.

More than one certificate can be uploaded. For example, Microsoft Entra requires two certificates.

If a Service Provider certificate already exists within Campus, uploading a new Service Provider certificate will automatically overwrite any existing certificate and associated data.

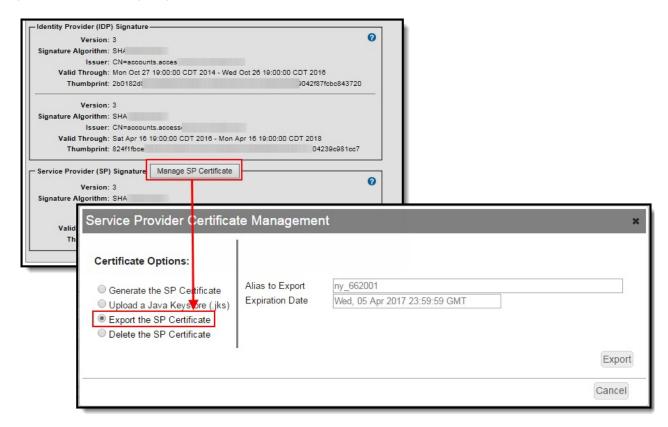


4. Click **Save** at the top of the editor. If the IDP was configured correctly, a green circle in the Enabled column will appear next to the IDP name in the Service Provider Configurations window. Users can now log into Infinite Campus via an SSO button on the login screen (see the <u>Logging into Campus and Campus Portal Using SAML SSO</u> section).



Export the Service Provider Certificate

To export the Service Provider certificate stored within Campus, select the **Export the SP Certificate** radio button and click the **Export** button. A .cer file of the certificate will appear, which you can save locally to your hard drive or network.



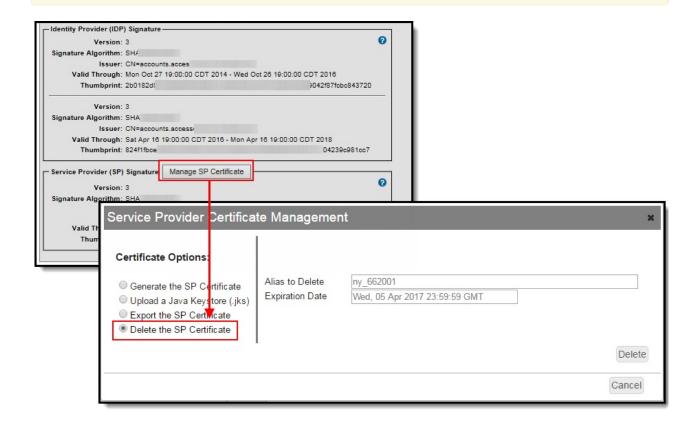
Delete the Service Provider Certificate

To delete the Service Provider certificate stored within Campus, select the **Delete the SP Certificate** radio button and click the **Delete** button.



Deleting the certificate will wipe all service provider certificate data from Campus and will remove the ability for Campus users to properly use Single Sign On functionality within Campus.

Once you have deleted the certificate, you **MUST** generate or upload a new certificate and resync with your IDP.



Certificate Expiration Warnings

Email and in-app notification functionality is built into this tool. Users who have access to this tool will receive an email and in-app notification every 3 days when a certificate will expire in less than 30 days.

When a certificate will expire in 10 or less days, this notification will increase to every day until the certificate is replaced. Users will continue to receive daily notifications until the expired certificate is replaced or removed.

You must have proper <u>Messenger Email Settings</u> established in order to receive email notifications.

You can upload a new certificate without removing the expiring or expired certificate and Infinite Campus will know to use the new valid certificate. However, until you remove the expired certificate from this tool, you will continue to receive in-app and email notifications



about the expired certificate.

Replacing Expired Certificates

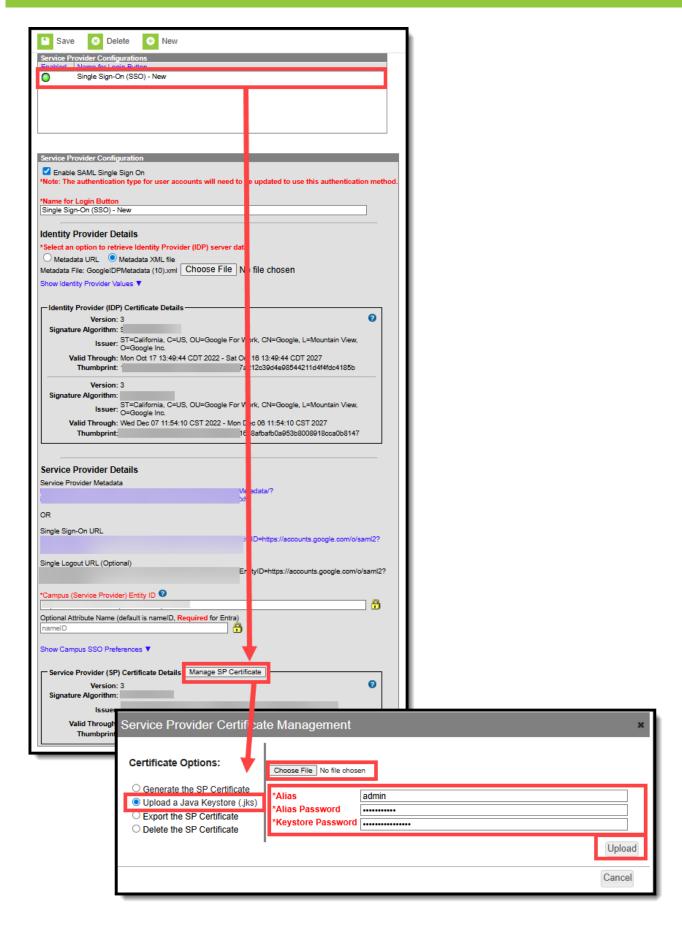
If you have received notice from Infinite Campus that your IDP certificate is set to expire or has expired, there are 3 simple ways to resolve this (depending on how you want to resolve this).

- Method 1 Upload a New Java Keystore (.jks)
- Method 2 Resync Metadata via URL
- Method 3 Resync Metadata via XML File

Method 1 - Upload a New Java Keystore (.jks)

- 1. Select the SSO configuration needing an updated certificate.
- 2. Click the **Manage SP Certificate** button. The Service Provider Certificate Management editor will appear.
- 3. If you have an updated cert key from your IDP server, select the **Upload a Java Keystore** (.jks) radio button.
- 4. Click **Choose File**, locate the Java Keystore file, and click **Ok**.
- 5. Click the **Upload** button. The **Alias**, **Alias Password**, and **Keystore Password** will populate automatically from the uploaded file.
- 6. Click **Save** at the top of the SSO Service Provider Configuration tool. Your new certificate has been uploaded, and you should no longer receive expiration warnings until this new certificate approaches its expiration date.

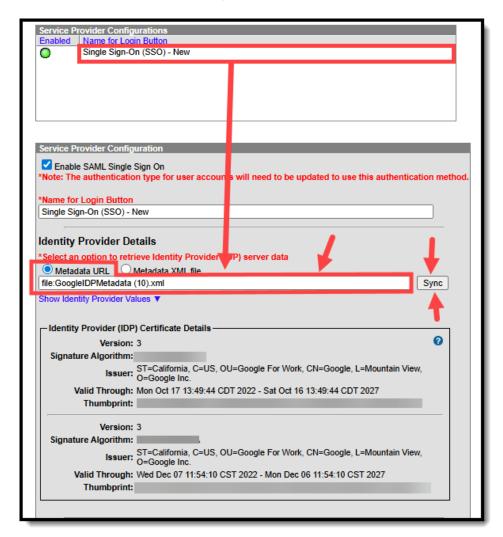




Method 2 - Resync Metadata via URL



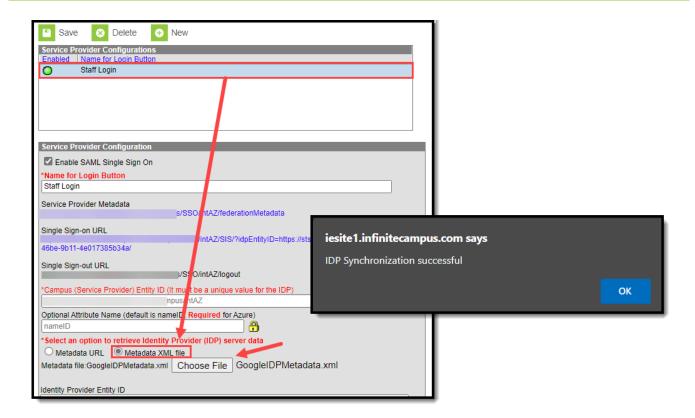
- 1. Select the SSO configuration needing an updated certificate.
- 2. Select the Metadata URL radio button.
- 3. If the Metadata URL for your IDP server has changed, enter the URL in this field and click ${f Sync}$.
 - If the Metadata URL for your IDP server has not changed, click **Sync**.
- 4. Once Sync is selected, the updated metadata should insert an updated certificate. Click **Save**. Your certificate has been updated.



Method 3 - Resync Metadata via XML File

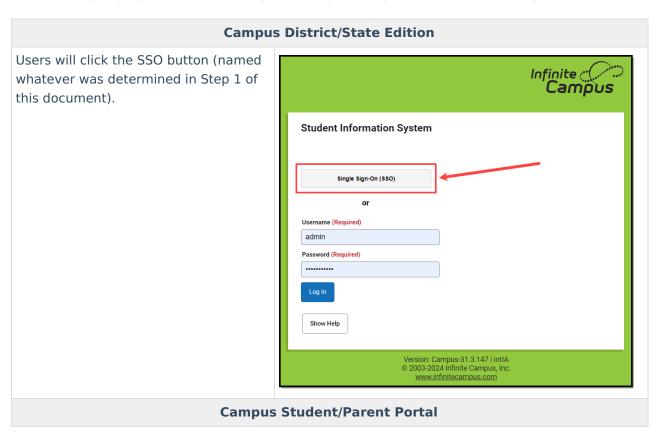
- 1. Select the SSO configuration needing an updated certificate.
- 2. Select the **Metadata XML File** radio button.
- 3. Click **Choose File**, locate your metadata XML file and click OK. The SSO Service Provider Configuration tool will automatically attempt to sync with the IDP and if successful you should get a popup message stating "IDP Synchronization successful".
- 4. Click **Save**. Your certificate has been updated.





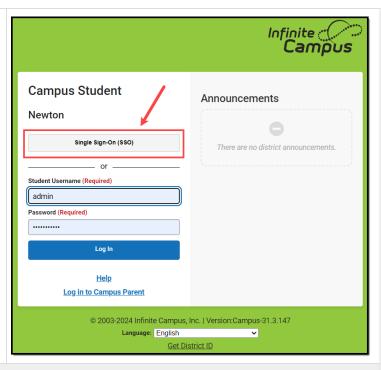
Logging into Campus and Campus Portal Using SAML SSO

The following displays how users will log into Campus using SAML SSO functionality:





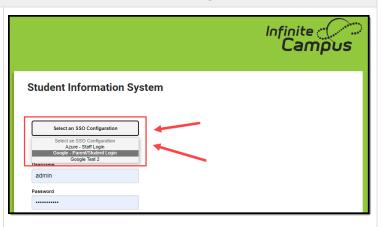
Users will click the SSO button (named whatever was determined in Step 1 of this document).



Campus Login Page (two or more Enabled SSO Configurations)

Districts with two or more configured and enabled IDPs will see a button that requires the user to select which SSO Configuration to use when logging in.

This is why it is important to have clear and recognizable Name of Button values for each IDP configuration so users do not have to guess which one they are supposed to use.



To lessen confusion, you can set each SSO configuration to be hidden for specific login screens.

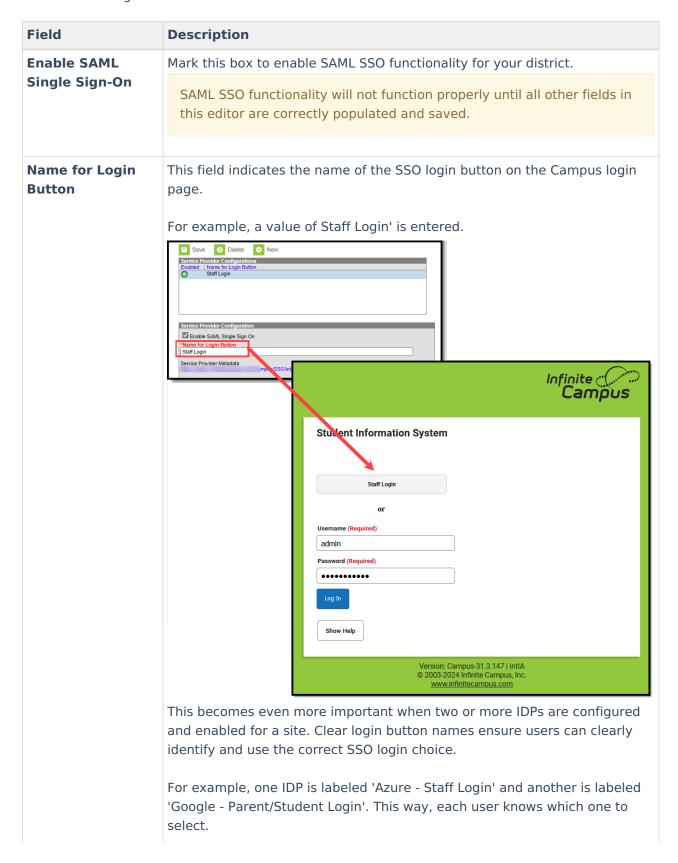
For example, if your district has a separate SSO configuration for Staff member logins, you can mark the **Turn off this SSO configuration for the Parent Portal** and **Turn off this SSO configuration for the Student Portal** checkboxes so it does not appear for students and parents logging into Infinite Campus.

If hiding this configuration limits the number of options for SSO configurations to 1 for these users, the button will change from a dropdown list to a button labeled their one SSO configuration option.

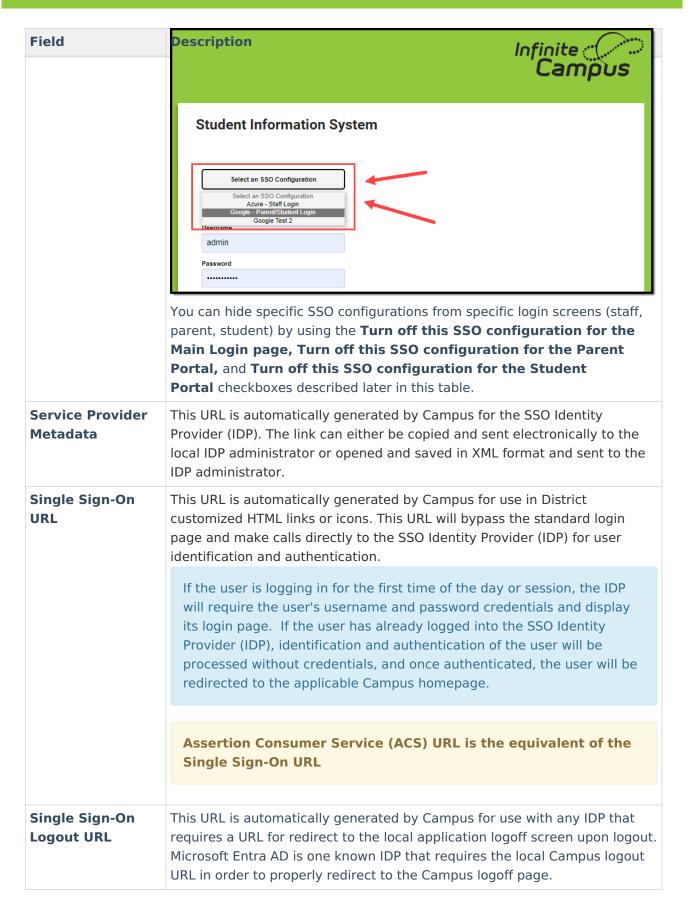


Understanding Service Provider Configuration Fields

Use the following table to understand each available field.









Field Description Campus (Service This value is automatically generated by Campus for the SSO Identity **Provider) Entity** Provider (IDP). It can be edited by selecting the lock icon. This value is ID used to identify the Infinite Campus Service Provider to the SSO Identity Provider. Changing this value is NOT recommended for non-Entra users. If the decision is made to change the value, the SSO Identity Provider must resync the Service Provider Metadata URL or reload the Service Provider metadata using the Service Provider Metadata URL. For Entra users, this value MUST equal the Entra Client ID. For Non-Production Sites: The site refresh process will revert this Campus Service Provider Entity ID value to your Production site's Campus Service Provider Entity ID value, followed by [siteType]. To avoid any disruption, ensure the value here matches the value in Production, followed by _[siteType], before providing this value to your Identity Provider. **Optional Attribute** This is the attribute Campus will look for in the IDP response from an IDP in order to match the username within Campus to the value attached to the Name specified attribute. If this field is left blank, the default attribute Campus will use for comparison is the Name ID. This field is required for use with Microsoft Entra AD (formerly Azure) as the Name ID attribute is reserved by Entra and cannot be used for comparisons. For Entra, leave this field value as nameID. To change this value, click the Lock icon. Campus (Service Provider) Entity ID (It must be a unique value for the IDP) Optional Attribute Name (default is nameID, Required for Azure) **a** namelD An incorrect Optional Attribute Name value will break the connection between Campus and the IDP.



Field	Description	
Select an option to retrieve Identity Provider (IDP) server data	Indicates how this tool will receive and insert IDP server data. • Metadata URL - IDP server data is pulled from an xml file stored on a network and accessed via a URL. Select an option to retrieve Identity Provider (IDP) server data • Metadata URL Metadata XML file https://dev sync • Metadata XML File - IDP server data is inserted from a locally stored XML file. Select an option to retrieve Identity Provider (IDP) server data Metadata URL Metadata XML file Choose File No file chosen Once a URL or XML file has been entered, click the Sync button to load the XML values into Campus.	
Identity Provider Entity ID	The Identity Provider Entity ID as indicated in the IDP server data XML file.	
Identity Provider URL	The Identity Provider URL as indicated in the IDP server data XML file.	
Identity Provider Single Logoff URL	The Identity Provider Single Logoff URL as indicated in the IDP server data XML file. This URL is required if users wish to use the Logoff IDP if Logoff URL Exists feature.	
	Campus SSO Preferences	
Request Timeout	Indicates the number of minutes that can pass before a request between Campus and the IDP produces a timeout error.	
No Change	This option indicates the domain name does not contain a suffix.	



Field	Description	
Remove a Domain Suffix	This option allows you to remove the domain name from an IDP attribute value (such as an email address) to compare only the prefix of the value to the Campus username. This option eliminates the need to store fully qualified domain addresses in the Campus User Account username value. Users can remove the domain suffix for up to 4 IDP attribute values. A Domain Suffix value is required.	
	No Domain Suffix Remove a Domain Suffix infinitecampusfoundation.cc student.infinitecampusfoundation.cc Logoff IDP if logoff url exists Turn off SSO for the Student/Parent Portal Please note, LDAP must be configured to enable SSO login through mobile app. See documentation for details.	
Append a Domain Suffix	This option allows you to append a suffix to the domain name. A Domain Suffix value is required.	
Domain Suffix	Indicates the domain suffix that will be removed or appended based on the value set in the Append a Domain Suffix or Remove a Domain Suffix radio buttons. If this text box is left blank, the SAML response will not be checked for a domain suffix.	
Logoff IDP if Logoff URL Exists	Marking this checkbox means if the Logoff button is selected in Campus, you are also logged off the IDP. This option only works if the Identity Provider Single Logoff URL field is populated and correct. This field is defaulted as marked. This checkbox will automatically be unmarked and grayed out if the Identity Provider Single Logoff URL references Google.	
Turn off this SSO configuration for the Main Login page	Marking this checkbox means this SSO configuration will not appear as a button or option on the login screen for accessing the Infinite Campus application.	



Field	Description	
Turn off this SSO configuration for the Parent Portal	Marking this checkbox means this SSO configuration will not appear as a button or option on the login screen for the Parent Portal.	
Turn off this SSO configuration for the Student Portal	Marking this checkbox means this SSO configuration will not appear as a button or option on the login screen for the Student Portal.	
	Identity Provider Signature	
Infinite Campus allows for more than one IDP certificate		
Signature Algorithm	The Identity Provider Signature Algorithm as indicated in the IDP certificate. This value is supplied by the SSO Identity Provider's (IDP) metadata.	
Issuer	The Issuer as indicated in the IDP certificate. This value is supplied by the SSO Identity Provider's (IDP) metadata.	
Certificate Valid From	The first date and time for which the certificate is considered valid. This value is supplied by the SSO Identity Provider's (IDP) metadata.	
Certificate Valid To	The final date and time for which the certificate is considered valid. All time after this value is considered invalid and the certificate will no longer work. This value is supplied by the SSO Identity Provider's (IDP) metadata.	
	Service Signature	
Manage SP Certificate	See the <u>Enable and Configure SAML SSO Functionality</u> , <u>Export the Service Provider Certificate</u> , and <u>Delete the Service Provider Certificate</u> sections for more information about functionality.	
Signature Algorithm	The Signature Algorithm as indicated in the Campus certificate.	
Issuer	The Issuer as indicated in the Campus certificate.	
Certificate Valid From	The first date and time for which the certificate is considered valid.	
Certificate Valid To	The final date and time for which the certificate is considered valid. All time after this value is considered invalid and the certificate will no longer work.	

Deleting an Existing SSO Configuration

You can delete an existing SSO configuration however, when doing so you will receive a pop-up notice indicating the number of users who will be affected by the deletion (users who are currently using this SSO configuration). If you proceed to delete the SSO configuration, impacted users will automatically be set to Local Campus Authentication to ensure their accounts are still accessible and you will need to manually convert them back to SSO authentication if another configuration is created.



Configuring a Unique Entra Active Directory

The following section will describe how to configure a unique Entra (formerly Azure) Active Directory.

This section is only relevant for Microsoft Entra customers.

Infinite Campus is now available in the Microsoft Azure Marketplace.

- Infinite Campus in the Marketplace: https://azuremarketplace.microsoft.com/en-us/marketplace/apps/aad.infinitecampus?tab=overview
- Entra Active Directory Integration with Campus Tutorial: https://learn.microsoft.com/en-us/entra/identity/saas-apps/infinitecampus-tutorial

Two main actions need to be taken to ensure Entra has an active connection between Campus and your Entra AD environment.

- 1. Utilize the Infinite Campus Azure Marketplace workflow within your Microsoft Entra environment for initial configuration.
- 2. Update the logout URL in the Entra AD manifest with the Campus logout URL.

The following sections will walk you through this process:

- Infinite Campus Azure Marketplace Workflow
- Add the Infinite Campus Logout URL to the Microsoft Entra SAML SSO Configuration
- Complete a Single Sign-On Login

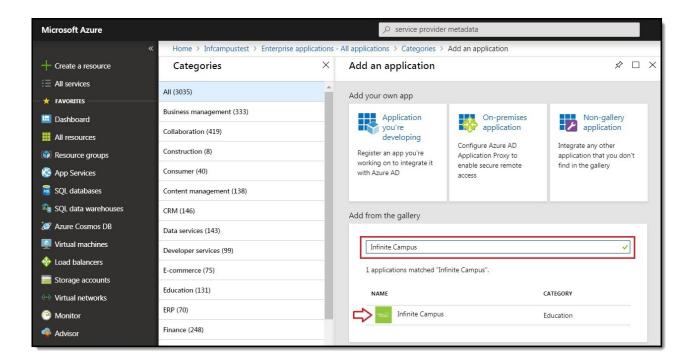
Infinite Campus Azure Marketplace Workflow

Step 1.

In your Entra AD environment, navigate to Enterprise applications > + New application registration.

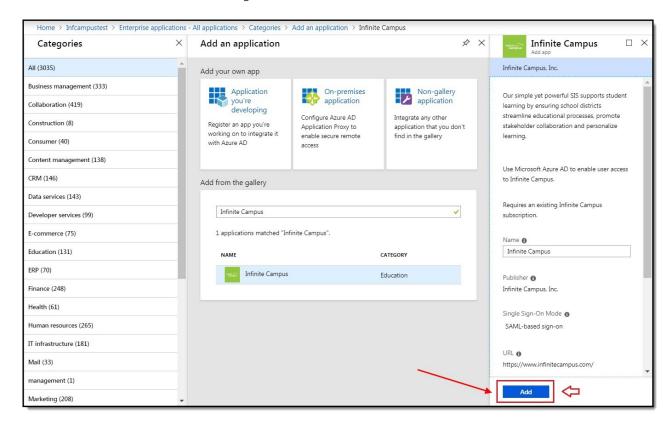
Enter "Infinite Campus" in the search box in the **Add from the gallery** section of the page and click on the Infinite Campus icon that appears.





Step 2.

Click the **Add** button in the lower right-hand corner of the screen.

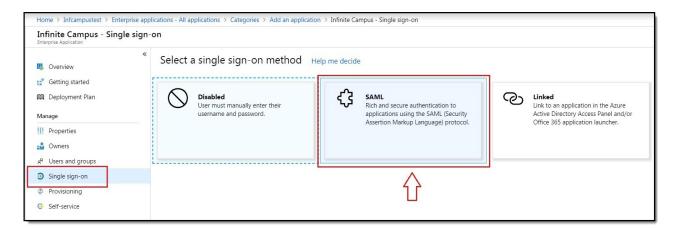


Step 3.

Once the Infinite Campus application has been added to the Entra environment, you will need to configure SAML SSO. Click on the **Single sign-on** button of the Enterprise Application index and



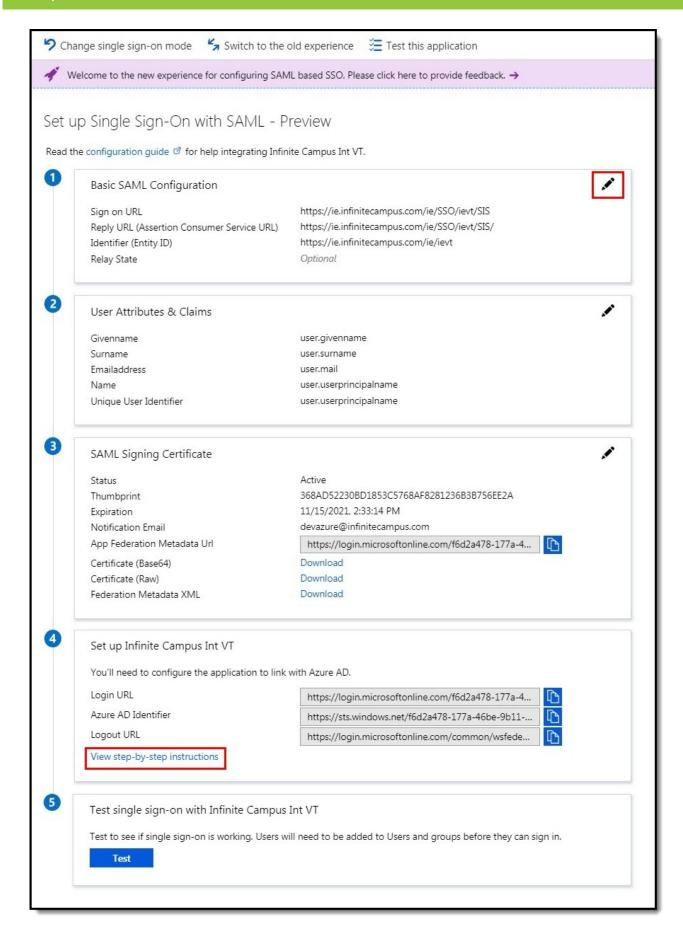
select the SAML box:



Step 4.

The Microsoft Azure Marketplace workflow will display. Follow the sequence of events laid out on the screen, and if you have any questions, click the **View step-by-step instructions** hyperlink for more information. To edit data, click the edit icons in the upper right corner of each section. Once the data on this page has been reviewed and corrected accordingly, move on to the <u>Add the Infinite Campus Logout URL to the Microsoft Entra SAML SSO Configuration</u> section of this article.





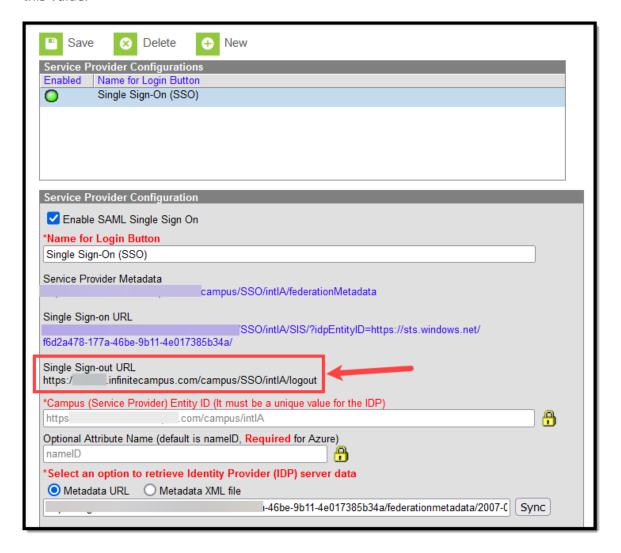


Add the Infinite Campus Logout URL to the Microsoft Entra SAML SSO Configuration

Step 1.

This step requires the SAML configuration in Campus to be enabled (check the "Enable SAML Single Sign On" checkbox), along with a metadata upload or synchronization and a subsequent Save, for the Service Provider Configuration screen to publish the applicable URLs. The Single Sign-on Logout URL will be needed for Step 2 below.

In the SSO Service Provider Configuration tool, locate the **Single Sign-on Logout URL** and copy this value.



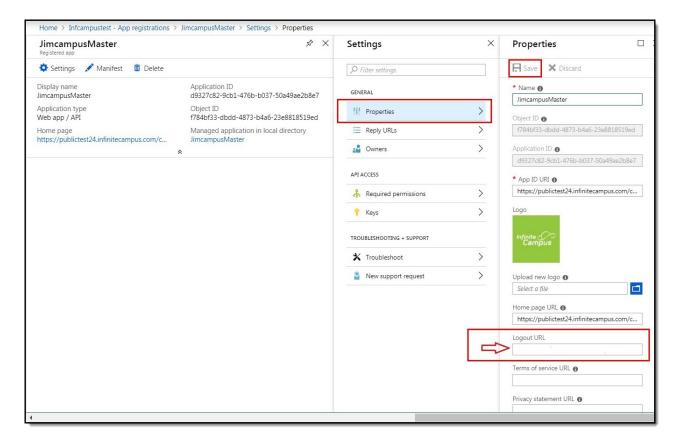
Step 2.

Next, the Entra AD app registration properties Logout URL needs to be updated so that the proper



redirect upon Campus logout can occur.

- 1. Click on the **Settings** button (gear icon)
- 2. Click on **Properties** in the Settings list that has appeared to the right.
- 3. In the **Logout URL** field, paste the Single Sign-out URL value copied from the SSO Service Provider Configuration tool.
- 4. Select the Save icon.



Complete a Single Sign-On Login

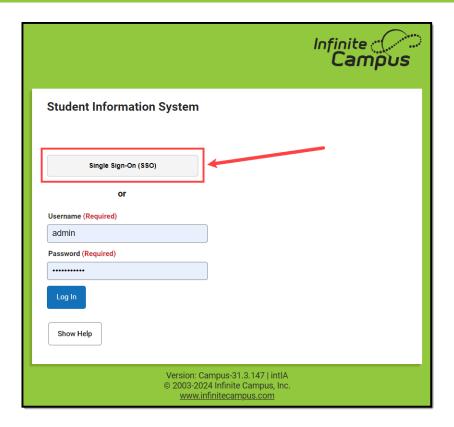
The final step is to log out of the administrative account, log into Infinite Campus, and attempt a Single Sign-On user login. Please ensure you have followed the configuration steps outlined throughout this article.

To log in, navigate to the Campus login page and click the SSO button created during the configuration process (covered in steps within this article).

This button may be named something other than Single Sign-On (SSO).

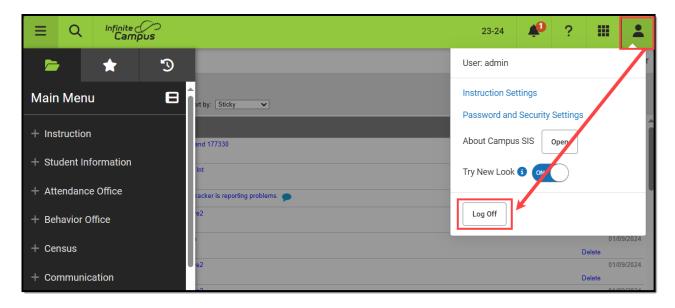
Proper first-time login behavior will be a redirect to the Microsoft Entra AD credentials page. A successful logon to Entra AD results in a successful re-direct to the Infinite Campus application.





To log out of Campus, click the **Log Off** button in the upper right corner of the page.

Proper logout behavior will be a brief re-direct to the Microsoft Entra AD homepage, then another instant re-direct to the Infinite Campus logoff page. In a later version of Microsoft Entra AD, the redirect may be simultaneous.



Please ensure to contact the Infinite Campus Support team or your CE or other internal contact(s) with any questions or concerns.



Configuring a Google IDP

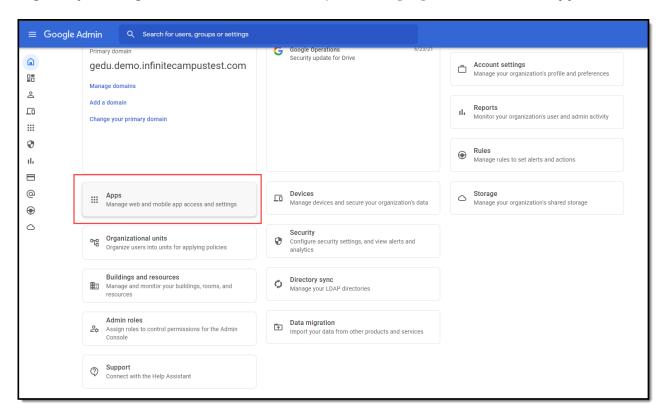
The following section will describe how to configure the Google IDP to utilize Campus SSO functionality.

Prerequisites

• You need a Google Admin account.

Step 1.

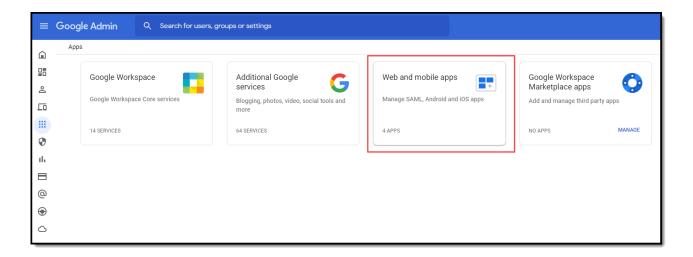
Log in to your Google Administrator account (https://admin.google.com) and select Apps.



Step 2.

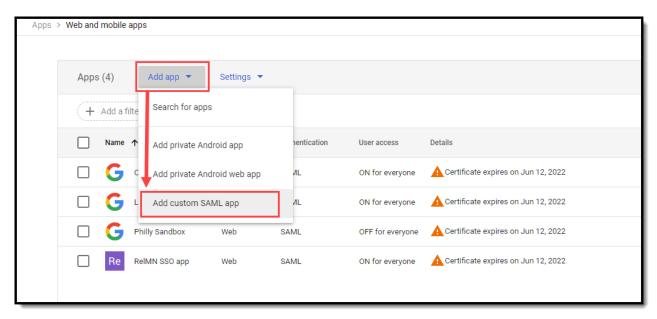
Select Web and mobile apps.





Step 3.

Click the Add app button and select Add custom SAML app.

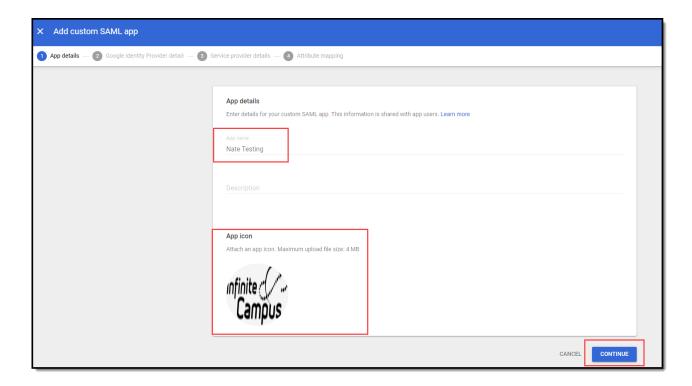


Step 4.

Enter an **App name**, **attach an app icon** (we highly suggest an Infinite Campus logo for easier identification), and click **Continue**.

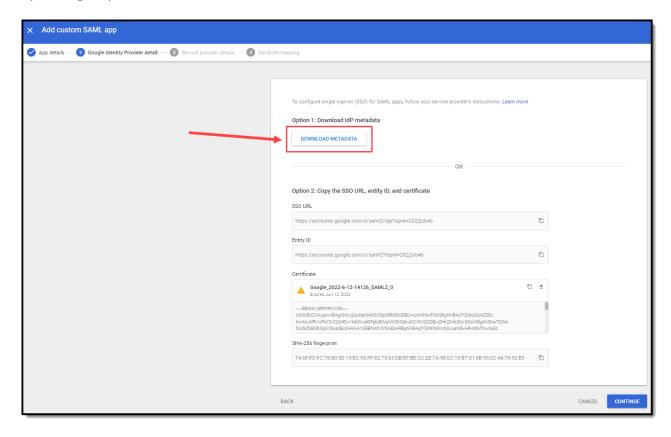






Step 5.

Click **Download Metadata** and save the XML file somewhere you can easily locate it for an upcoming step.



Step 6.



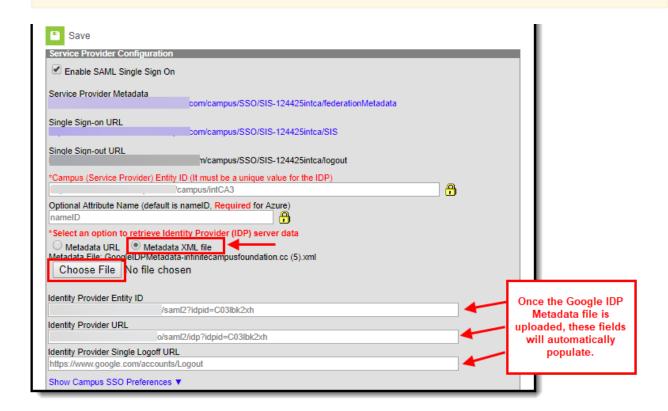
Open Infinite Campus in a different tab and navigate to the SSO Service Provider Configuration tool (System Administration > User Security > SAML Management > SSO Service Provider Configuration).

Using the Google IDP metadata file downloaded in Step 5:

- 1. Select the Metadata XML File radio button
- 2. Click Choose File.
- 3. Select the Google IDP metadata file from Step 5 and click **Open**.

The Identity Provider Entity ID, Identity Provider URL, and Identity Provider Single Logoff URL will populate.

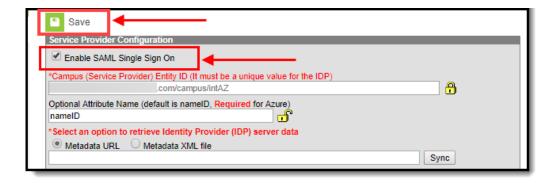
Campus does not support the use of the **Logoff IDP if Logoff URL Exists** preference when using a Google IDP setup. This checkbox will automatically be unmarked and grayed out if the Identity Provider Single Logoff URL references Google.



Step 7.

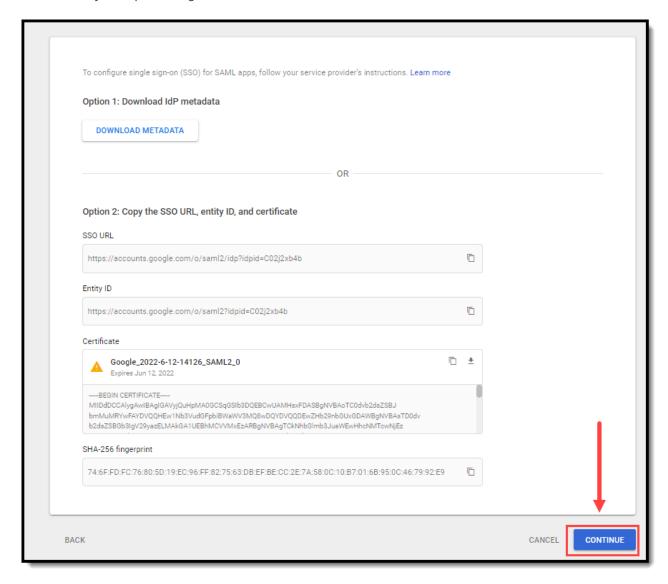
Now it's time to save and enable the Campus SSO. Mark the **Enable SAML Single-Sign On** checkbox and click **Save**.





Step 8.

Go back to your open Google Admin session. Click Continue.



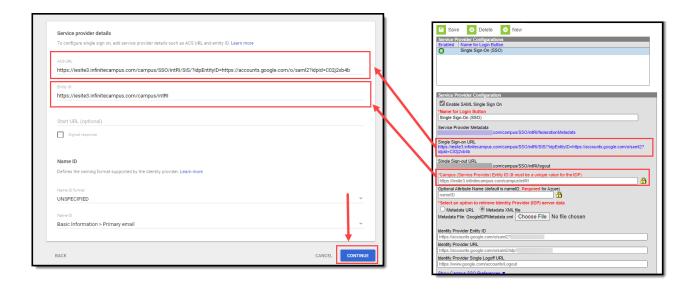
Step 9.

On the Service Provider Details screen:

1. Enter the ACS URL as the same value found in the Single Sign-On URL field.



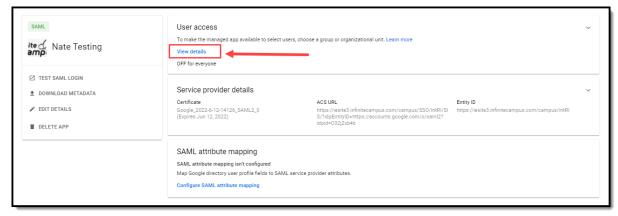
- 2. Enter the Entity ID as the same value found in the Campus (Service Provider) Entity ID (It must be a unique value for the IDP) field.
- 3. Click Continue.



Step 10.

Now we need to turn on the service within Google.

- 1. Navigate to Apps > **Web and mobile apps** and locate your Infinite Campus app.
- 2. Click on the app and then select **View details**.



3. Click the **ON for everyone** radio button and select **Save**. SSO is now configured. The last thing to do is test the connection to ensure everything is working correctly.

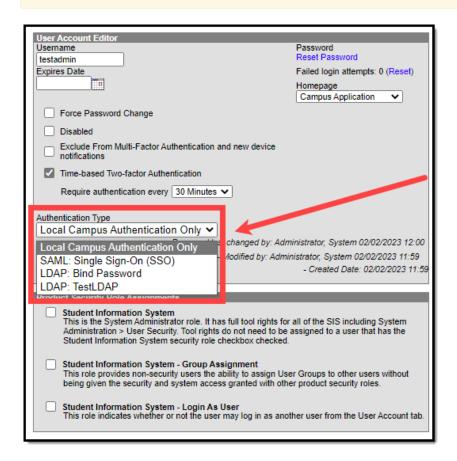
By default, Google SSO matches based on username.

Step 11.

Test the connection by selecting a user account, modifying their **Authentication Type** to SAML: Single Sign-On (SSO), and selecting **Save**.

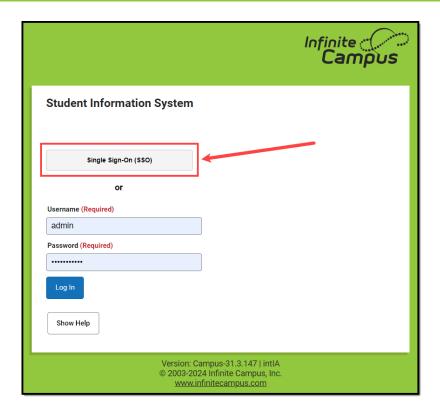


Note you will need to know the user's Username and Password in order to complete the login process so using a test account is advised.



Now, log out of Infinite Campus and log back in as this user via the SSO Login button, which is now available on the Campus Login Screen.





If you are able to log in without a problem you are all set!

If you would like to convert all existing accounts from using local Campus login authentication to SAML SSO, please use the <u>User Account Type Wizard</u>.

Sandbox/Staging/Non-Production Environments

This section indicates the process for setting up SSO in a non-production environment for the first time.

- 1. Ensure a Non-SSO User Account Exists for Administrators
- 2. Have the Non-Production Infinite Campus Environment Refreshed
- 3. In Your SSO IDP's System, Repeat Their Setup Process

1. Ensure a Non-SSO User Account Exists for Administrators

In your production environment, ensure a user account exists for yourself and is set to an Authentication Type of LDAP or Local Campus Authentication before proceeding.

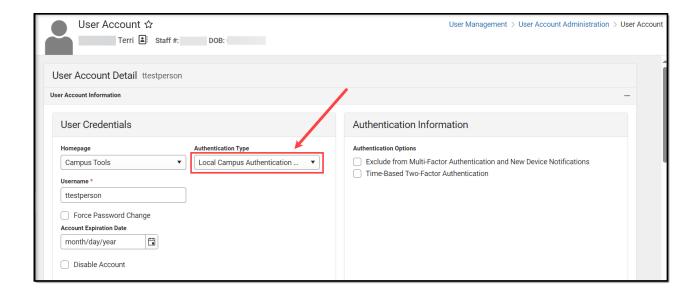
Note that some governing agencies, such as the North Carolina Department of Public Instruction, do not allow use of Local Campus Authentication. Ensure you comply



with your governing agency's security practices.

THIS IS AN IMPORTANT STEP THAT MUST BE FOLLOWED. If this step is not followed, you will not be able to access your non-production environment until you complete this step and have your non-production environment refreshed again.

For the rest of the process, if your district has more than one non-production environment (ex. sandbox and staging), these steps will need to be followed for each environment.



2. Have the Non-Production Infinite Campus Environment Refreshed

Next, follow the steps below:

- 1. Follow your district's typical processes to have your non-production Infinite Campus environment refreshed to match your production Infinite Campus site.
- 2. Use your non-SSO user account to log into the non-production Infinite Campus environment.
- 3. Navigate to the SSO Service Provider Configuration screen and select your configuration. You will need to reference this screen and its values for the next steps.

3. In Your SSO IDP's System, Repeat Their Setup Process

Most Identity Providers (ex. Google, Microsoft Entra, etc.) require you set up a fresh app that is specific to the non-production Infinite Campus environment and distinct from the app that you set up for the production Infinite Campus environment.



Refer to whichever sections of this documentation you referred to originally to configure your production app, repeating this process, but for a fresh app specific to your non-production Infinite Campus site:

- General instructions
 - Enable and Configure SAML SSO Functionality
- IDP-specific instructions
 - Configuring a Unique Entra Active Directory
 - Configuring a Google IDP

These two items are especially important as you complete the setup in the IDP system for your non-production Infinite Campus app:

Campus (Service Provider) Entity ID	In your non-production environment, you'll notice the Campus (Service Provider) Entity ID starts the same as it does in production, but ends with an underscore and site type (for example _sandbox or _staging). This is an important distinction to be aware so that when you set up a non-production Infinite Campus app in your SSO IDP's system, you use the non-production Campus (Service Provider) Entity ID. Your non-production site's Campus (Service Provider) Entity ID value may not correlate to a valid URL. This is not a concern. What is important is that it is not the same value as your production Campus (Service Provider) Entity ID.
Metadata URL/Metadata XML file	During the process of setting up your non-production Infinite Campus app in your SSO IDP's system, you will either be provided a metadata URL or metadata XML file by your IDP's system. Do not reuse the metadata originally provided for your production Infinite Campus setup. Use the metadata your SSO IDP provides for the non-production app in your non-production site. Note: You will need to repeat this step—re-uploading this file or pasting in and resyncing this URL—after each refresh of your non-production site.

Troubleshooting existing SSO config in a non-production environment

If you are encountering issues after a refresh or cutover in an environment that has already been set up and is functional, ensure the following is correct:

Ensure Your Metadata Has Been Re-Uploaded/Resynced:

After each site refresh, your non-production environment must be provided with your Identity Provider's metadata.

If you do not have the metadata for your non-production site:

1. Log in to your SSO IDP system,



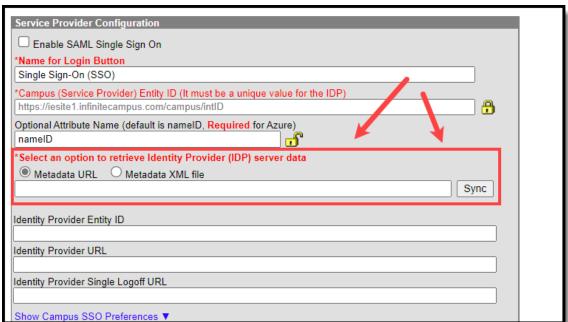
- 2. Navigate to the non-production Infinite Campus app you've set up
- 3. Copy the Metadata URL or re-download the Metadata XML file

Once you have obtained the metadata, navigate to your non-production Infinite Campus environment:

- 1. Log in to Infinite Campus using your non-SSO (LDAP or Local Campus Authentication) credentials.
- 2. Navigate to the SSO Service Provider Configuration tool (System Administration > User Security > SAML Management > SSO Service Provider Configuration)
- 3. Select the SSO configuration.
- 4. Resync the metadata by either:
 - Selecting the Metadata URL radio button, pasting in the metadata URL, and clicking Sync

OR

2. Selecting the **Metadata XML file** radio button, uploading the metadata XML file, and clicking **Sync**



5. Once the metadata has been entered and synced, click Save. Single Sign-On for your non-production Infinite Campus site should now function properly.

Campus (Service Provider) Entity ID:

In your Campus non-production environment, on the **SSO Service Provider Configuration** screen, verify that your **Campus (Service Provider) Entity ID** matches your production Campus (Service Provider) Entity ID with the important addition of an underscore and your site type at the end (ex. sandbox or staging).

In your SSO IDP system's non-production app, navigate to where you originally provided this value. Ensure that what is listed in your SSO IDP's system exactly matches the Campus (Service Provider) Entity ID listed in your Infinite Campus non-production environment. If it does not, update your SSO IDP system to match Infinite Campus.



Matching Campus Fields to IDP Fields

This section will assist you in understanding how fields within your IDP correlate to fields within Campus.

- SSO Setup Process
- Google (admin.google.com)
- Microsoft Entra Active Directory (entra.microsoft.com)
- Microsoft Active Directory Federated Services (AD FS)
- Classlink (SAML Console)
- Clever (SAML Connector)
- Duo SAML SSO
- Okta (SAML App Integration)
- OneLogin (SAML Custom Connector Advanced)
- OmnID
- RapidIdentity (SAML Integration)

SSO Setup Process

Accessed in the Identity Provider system

Find the metadata within your Identity Provider system as a URL or an XML file download. Then paste/upload it to the Campus SSO Service Provider Configuration screen.

Terms used in Identity Provider systems	Corresponding field in Infinite Campus	
"Federation Metadata URL Path" "IDP Metadata URL" "Live Metadata URL" "Metadata URL"	Select an option to retrieve Identity Provider (IDP) server data Metadata URL	
OR		
"Download Metadata" "Federation Metadata XML" "Metadata (download)" "View IDP Metadata > Save as"	Select an option to retrieve Identity Provider (IDP) server data Metadata XML	

Accessed in Infinite Campus > Provided to the Identity Provider system

Within Infinite Campus, do one of these:

- Copy out the Service Provider Metadata URL and provide it to your Identity Provider. Their system can use this URL to pull in the other values it needs (Single Sign-On URL, Campus (Service Provider) Entity ID, Single Sign-Out URL). For Identity Providers that support intaking the Service Provider Metadata URL, it's a convenient way to get them all the URLs their system needs at once.
- 2. Provide the Single Sign-On URL and Campus (Service Provider) Entity ID, and Single Sign-Out



URL manually. (Not all systems support the Single Sign-*Out* URL, so some will have nowhere to put it on their end.)

Field in Infinite Campus	Terms used for the corresponding field in Identity Provider systems
Service Provider Metadata	"Metadata" "Metadata URL" "Federation metadata address" "Load XML from file or http address"
	OR
Single Sign-On URL	"ACS URL" "Assertion Consumer Service URL" "Destination URL" "Recipient URL" "Relying party SAML 2.0 SSO Service URL" "Reply URL" "Sign on URL"
Campus (Service Provider) Entity ID	"Audience Restriction" "Audience URI (SP Entity ID)" "Entity ID" "Identifier (Entity ID)" "Relying party trust identifier" "Remote Entity Name"
Single Sign-Out URL (Optional)	"Logout Url" "SAML Logout Trusted URL" "Single Logout URL"

Terms Used in Specific Identity Provider Systems

Google (admin.google.com)

See this section for detailed steps on configuring a Google IDP.

Google

Get from Google Provide to Corresponding Field in Campus	
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Get from Google	Provide to Corresponding Field in Campus	
Download Metadata	Select an option to retrieve Identity Provider (IDP) server data Metadata XML	

Infinite Campus

Get from Campus	Provide to Corresponding Field in admin.google.com	
Service Provider Metadata	N/A - Google does not support intaking Infinite Campus Service Provider Metadata via a Metadata URL	
Single Sign-On URL	ACS URL	
Campus (Service Provider) Entity ID	Entity ID	
Single Sign-Out URL	N/A - Google does not support Single Sign Out	
NameID: The default nameID value from Google is the full Google account email		

Microsoft Entra Active Directory (entra.microsoft.com)

<u>See this section</u> for detailed steps on configuring a unique Entra (formerly Azure) Active Directory.

Not to be confused with AD FS (Microsoft Active Directory Federated Service), which is a different Identity Provider service from Microsoft.

Entra

Get from Entra	Provide to the Corresponding Field in Campus
IDP Metadata URL	Select an option to retrieve Identity Provider (IDP) server data Metadata URL
OR	
Federation Metadata XML Select an option to retrieve Identity Provider (IDP) server data Metadata XML	
There is a "Relay State" field on Entra Active Directory's SAML Configuration screen that you will not fill in	

Infinite Campus



Get from Campus	Provide to the Corresponding Field in Entra
Service Provider Metadata	N/A - Entra Active Directory does not seem to support intaking Infinite Campus Service Provider Metadata via a Metadata URL
Single Sign-On URL	Reply URL (Assertion Consumer Service URL) and Sign on URL
Campus (Service Provider) Entity ID	Identifier (Entity ID)
Single Sign-Out URL	Logout Url (Optional)
No. of the state of	name ID value from Entry Active Directory is the full Microsoft account amail

NameID: The default nameID value from Entra Active Directory is the full Microsoft account email

Microsoft Active Directory Federated Services (AD FS)

This is not to be confused with Microsoft Entra Active Directory, which is a different Identity Provider service from Microsoft.

AD FS

Get from AD FS	Provide the Corresponding field in Campus	
AD FS > Service > Endpoints URL Path (the one with a type of Federation Metadata, which should end in .xml)	Select an option to retrieve Identity Provider (IDP) server data Metadata URL	
OR		
AD FS > Service > Endpoints	Select an option to retrieve Identity Provider (IDP) server data	
URL Path (the one with a type of Federation		
Metadata, which should end in .xml)	Metadata XML	
Navigate to the path in a browser to download the file.		

Infinite Campus



Get from Campus	Provide to Corresponding Field in AD FS
Service Provider Metadata	Select Data Source > Import data about the relying party published online or on a local network
	Federation metadata address (host name or URL)
It is not necessary	to enter this info manually if you provide ASFS the Infinite Campus Service Provider Metadata, but if you choose manual setup:
Single Sign-On URL	Select Data Source > Enter data about the relying party manually > Choose Profile: AD FS Profile > Configure URL Relying party SAML 2.0 SSO Service URL
Campus (Service Provider) Entity ID	Select Data Source > Enter data about the relying party manually > Choose Profile: AD FS Profile > Configure Identifiers Relying party trust identifier
Single Sign-Out URL	Relying Party Trusts > Properties > Add/Edit > Endpoint Type: SAML Logout > Binding: POST
	Trusted URL

Classlink (SAML Console)

Classlink

Get from Classlink	Provide to Corresponding Field in Campus
IDP Metadata URL	Select an option to retrieve Identity Provider (IDP) server data Metadata URL

Infinite Campus

Get from Campus	Provide to Corresponding Field in Classlink SSO
Service Provider Metadata	Metadata URL
Single Sign-On URL	N/A - It seems like ClassLink obtains this directly from Infinite Campus' Service Provider Metadata URL
Campus (Service Provider) Entity ID	N/A - It seems like ClassLink obtains this directly from Infinite Campus' Service Provider Metadata URL
Single Sign-Out URL	N/A - It seems like ClassLink obtains this directly from Infinite Campus' Service Provider Metadata URL

Clever (SAML Connector)



Clever

Get from Clever	Provide to Corresponding Field in Campus
Metadata URL	Select an option to retrieve Identity Provider (IDP) server data
	Metadata URL

Infinite Campus

Get from Campus	Provide to Corresponding Field in Clever
Service Provider Metadata	N/A - It doesn't seem like Clever supports intaking Infinite Campus Service Provider Metadata via a Metadata URL
Single Sign-On URL	Assertion Consumer Service URL
Campus (Service Provider) Entity ID	Entity ID
Single Sign-Out URL	N/A - It doesn't seem like Clever supports Single Sign Out

Duo SAML SSO

Duo

Get from Duo	Provide to Corresponding Field in Campus	
Metadata URL	Select an option to retrieve Identity Provider (IDP) server data Metadata URL	
OR		
SAML Metadata	Select an option to retrieve Identity Provider (IDP) server data Metadata XML	

Infinite Campus

Get from Campus	Provide to Corresponding Field in Duo	
Service Provider Metadata	Metadata XML URL	
It is not necessary to enter this info manually if you provide OmnID the Service Provider Metadata, but if you decide to enter it manually:		
Single Sign-On URL	Assertion Consumer Service (ACS) URL	
Campus (Service Provider) Entity ID	Entity ID	
Single Sign-Out URL	Single Logout URL	



Get from Campus	Provide to Corresponding Field in Duo
NameID: Default nameID value from Duo is full email	

Okta (SAML App Integration)

Okta

Get from Okta	Provide to Corresponding Field in Campus
View IDP Metadata > Save as	Select an option to retrieve Identity Provider (IDP) server data
	Metadata XML

Additional details: Default RelayState can be left blank. To be able to enter a Single Logout URL, you must upload a Signature Certificate (see <u>Generate the Service Provider Certificate</u>) and mark Enable Single Logout within Okta.

Infinite Campus

Get from Campus	Provide to Corresponding Field in Okta
Service Provider Metadata	N/A - Okta does not support intaking Infinite Campus Service Provider Metadata via a Metadata URL
Single Sign-On URL	Single Sign On URL (Recipient URL and Destination URL are the same as the Single Sign On URL)
Campus (Service Provider) Entity ID	Audience URI (SP Entity ID) Audience Restriction
Single Sign-Out URL	Single Logout URL
NameID: Default nameID value from Okta is full email	

OneLogin (SAML Custom Connector Advanced)

OneLogin

Get from OneLogin	Provide to Corresponding Field in Campus
SSO > Issuer URL	Select an option to retrieve Identity Provider (IDP) server data Metadata URL

Infinite Campus



Get from Campus	Provide to Corresponding Field in OneLogin
Service Provider Metadata	N/A - OneLogin does not seem to support intaking Infinite Campus Service Provider Metadata via a Metadata URL
Single Sign-On URL	Login URL and ACS (Consumer) URL • (Do not make the mistake of entering it into the ACS (Consumer) URL Validator field, which is for something else.)
Campus (Service Provider) Entity ID	Audience (EntityID)
Single Sign-Out URL	Single Logout URL
NameID: Default nameID value from OneLogin is full email	

OmnID

OmnID

Get from OmnID	Provide to Corresponding Field in Campus
OmnID Console > Configure > User Managed SAML Settings	Select an option to retrieve Identity Provider (IDP) server data
IDP Metadata URL	Metadata URL

Additional details: Infinite Campus does not support encrypted assertions. Within OmnID (OmnID Console > SP Provided Metadata Settings), Encrypt Assertion must not be marked.

Infinite Campus

Get from Campus	Provide to Corresponding Field in OmnID	
Service Provider Metadata	Load XML from file or http address	
It is not necessary to enter this info manually if you provide OmnID the Service Provider Metadata, but if you decide to enter it manually:		
Single Sign-On URL	ACS URL	
Campus (Service Provider) Entity ID	Remote Entity Name	
Single Sign-Out URL	Single Logout URL	

RapidIdentity (SAML Integration)

RapidIdentity



Get from RapidIdentity	Provide to Corresponding Field in Campus	
Live Metadata URL	Select an option to retrieve Identity Provider (IDP) server data Metadata URL	
OR		
Metadata (download)	Select an option to retrieve Identity Provider (IDP) server data Metadata XML	

Infinite Campus

Get from Campus	Provide to Corresponding Field in RapidIdentity
Service Provider Metadata Navigate to the Service Provider Metadata URL in a browser to view and copy its contents	Metadata > Paste contents of Service Provider Metadata URL into this textbox
Single Sign-On URL	N/A - RapidIdentity obtains this directly from the contents of Infinite Campus' Service Provider Metadata URL
Campus (Service Provider) Entity ID	N/A - RapidIdentity obtains this directly from the contents of Infinite Campus' Service Provider Metadata URL
Single Sign-Out URL	N/A - RapidIdentity obtains this directly from the contents of Infinite Campus' Service Provider Metadata URL

Troubleshooting SSO Login Issues

<u>See this article</u> for assistance in troubleshooting SSO login issues.