# Kaltura MediaSpace™ SAML Integration Guide

Version: 5.0



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# **Preface**

This preface contains the following topics:

- About this Guide
- Audience
- Document Conventions
- Related Documentation

# **About this Guide**

This guide describes how to configure the Security Assertion Markup Language (SAML) module in Kaltura MediaSpace™ (KMS) Version 4.x and 5.x.



**NOTE:** Please refer to the official and latest product release notes for last-minute updates. Technical support may be obtained directly from: Kaltura Customer Care.

### **Contact Us:**

Please send your documentation-related comments and feedback or report mistakes to knowledge@kaltura.com.

We are committed to improving our documentation and your feedback is important to us.

# **Audience**

This guide is intended for Kaltura partners, community members, and customers who want to understand and configure SAML authentication and authorization in MediaSpace.

To understand thisinformation, you need to be familiar with SAML, authentication and authorization terminology.

# **Document Conventions**

Kaltura uses the following admonitions:

- Note
- Workflow



**NOTE:** Identifies important information that contains helpful suggestions.



Workflow: Provides workflow information.

- 1. Step 1
- 2. Step 2

# **Related Documentation**

In addition to this guide, the following product documentation is available:

- Kaltura MediaSpace
- Kaltura MediaSpace Setup Guide
- Kaltura MediaSpace: Introduction to Authentication and Authorization Solutions



**NOTE:** Please remember to review all product release notes for known issues and limitations.

# **Understanding SAML Implementation in Kaltura MediaSpace**

SAML authentication in MediaSpace enables users to log into MediaSpace using their credentials from an organizational SAML based Identity Provider. A user does not require an additional set of credentials for MediaSpace.

When MediaSpace is configured to authenticate using SAML, other authentication methods are disabled.



**NOTE:** The MediaSpace SAML module supports SAML 2.0. Older Identity Providers that work with SAML 1.0 or SAML 1.1 are not supported by this module.

# **Understanding SAML Authorization in MediaSpace**

A user's *application role* determines the MediaSpace actions that the user is authorized to do. When SAML is used for authorization in MediaSpace, the user's application role is based on membership in organizational groups and specific attribute in the SAML response. The organizational groups are managed in the organization's Identity Provider.

To learn more about the MediaSpace application role, refer to Understanding Application Roles in the Kaltura MediaSpace Setup Guide.

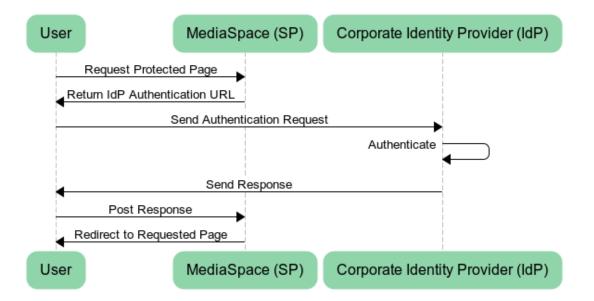
# Understanding the SAML Authentication Flow

There are two types of SAML authentication:

- Service Provider Initiated Authentication
- Identity Provider (IdP) Initiated Authentication

## Service Provider Initiated Authentication

In this workflow the user attempts to access a resource on MediaSpace that requires authentication. MediaSpace, the Service Provider ("SP") sends an authentication request to the Identity Provider ("IdP"). Both the request and the response are sent through the users' browser via HTTP Get.



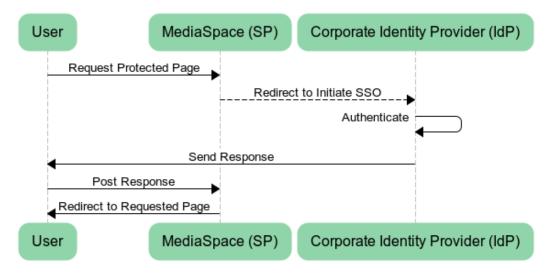


### **Processing Steps:**

- 1. The user requests access to a MediaSpace page that requires authentication.
- 2. MediaSpace builds a request and the user's browser sends it to the IdP to handle the authentication.
- 3. On a successful authentication, The IDP returns an HTML form to the browser with a SAML response. The browser automatically posts the HTML form back to MediaSpace
- 4. MediaSpace redirects the user to the requested page.

# **Identity Provider (IdP) Initiated Authentication**

In this workflow the entries process is handled by the Identity Provider. MediaSpace will redirect the user to an external URL that handles the authentication and redirects the user back to MediaSpace.





### **Processing Steps:**

- 1. The user requests access to a MediaSpace page that requires authentication.
- 2. MediaSpace redirects the user to a URL on the IdP to handle authentication.
- 3. On a successful authentication, the IDP returns an HTML form to the browser with a SAML response. The browser automatically posts the HTML form back to MediaSpace
- 4. MediaSpace redirects the user to the requested page

# **Understanding the SAML Authorization Flow**

Depending on your MediaSpace SAML configuration, MediaSpace queries attributes in the SAML response to determine the MediaSpace application role of the authenticated user. You can define a default role for authenticated users and map specific attributes and values to a MediaSpace role in the SAML module configuration.

# **Configuring SAML in MediaSpace**

This section describes the IdP Metadata Details and provides information on how to set up setup the SAML module for SP initiated and IdP initiated configurations.

# **Identity Provider (IdP) Metadata Details**

The following information about the Identity Provider is required to be able to configure the MediaSpace SAML module:

SAML Authentication Mode	[ ] IdP Initiated
Select one	[ ] SP Initiated
If IdP Initiated is used:	
What is the query string key for the <i>RelayState</i> Parameter?	
Login URL	
Logout URL	
Host Name of IdP	
IdP Issuer Name	
IdP Name	
IdP Certificate	
Is SAML response encryption required?	
Example of SAML XML Response	
Metadata XML (Optional)	
SAML2 Attribute name where the <i>User ID</i> is taken from	
Note: A persistent and unique user ID for each authenticated user is required. This user ID is used when the user uploads media, comments on media etc. Without this, the user will not be identified properly in MediaSpace.	
SAML2 Attribute name where the <i>First Name</i> is taken from	
Note: If this information cannot be provided, the display name will be built form the User ID.	
SAML2 Attribute name where the <i>Last Name</i> is taken from	
Note: If this information cannot be provided, the display name will be built form the User ID	
SAML2 Attribute name where the <i>Email</i> is taken from	

Note: If this information cannot be provided you will not be able to use email notification	
functionality in MediaSpace.	
Default MediaSpace role for authenticated users	[ ] viewerRole – User can browse public galleries, is not authorized to upload new
Select one:	content, and does not have a My Media page.
	[ ] <b>privateOnlyRole</b> – User can upload content to My Media, cannot publish to galleries, and can add media to channels according to entitlements.
	[ ] adminRole - User can upload content and publish to all galleries.
	[ ] unmoderatedAdminRole – User can upload content and bypass moderation (when moderation is enabled for an account)
If you can map MediaSpace roles to groups /	SAML2 Attribute Name:
attributes in the IdP, provide for each group / role the following	SAML Attribute Value:
Tolo the following	MediaSpace Role:
Provide credentials that can be used to test the configuration. It is best to provide one credential per role.	
If credentials are not provided we will not be able to test the configuration and authentication.	

The following is an example of the metadata provided by the IdP with the information that should be used:

### SAML 2.0 IdP Metadata

```
Here is the metadata that simple SAMLphp has generated for you. You may send this metadata document to trusted partners to setup a trusted federation.
You can get the metadata xml on a dedicated URL:
https://openidp.feide.no/simplesaml/saml2/idp/metadata.php
In SAMI 2.0 Metadata XMI format:
Claim velsion 10:00
And iEntityDescriptor xmlns:md="urn:oasis:names:tc:SAML:2.0:metadata" xmlns:ds="http://www.w3.org/2000/09/xmldsig#" entityID="https://openidp.feide.no"
And IDPSSODescriptor protocolSupportEnumeration="urn:oasis:names:tc:SAML:2.0:protocol">
And IMPSSODescriptor use="signing">
       </ds:KeyInfo>
</md:KeyDescriptor>
     ~matreyDescriptor use="encryption">
<ds:KeyInfo xmlns:ds="http://www.w3.org/2000/09/xmldsig#">
         <ds:X509Data>
<ds:X509Certificate>MIICizCCAfQCCQCY8tKaMc0BMjANBgkqhkiG9w0BAQUFADCBiTELMAKGAlUEBhMCTk8xEjAQBgNVBAgTCVRyb25kaGVpbTEQMA4GAlUEChMHVU5JTkVUVDEOMAWGAlUECx
  </ds:X509Data>
</md:EntityDescriptor>
In simpleSAMLphp flat file format - use this if you are using a simpleSAMLphp entity on the other side:
$metadata['https://openidp.feide.no'] = array (
'metadata-set' => 'saml20-idp-remote',
   "metadata-set' => 'saml20-idp-remote',
'entityid' => 'https://openidp.feide.no',
'SingleSignOnService' =>
  array (
     array
       'Binding' => 'urn:oasis:names:tc:SAML:2.0:bindings:HTTP-Redirect',
'Location' => 'https://openidp.feide.no/simplesaml/saml2/idp/SSOService.php',
   /
SingleLogoutService' => 'https://openidp.feide.no/simplesaml/saml2/idp/SingleLogoutService.php',
certData' => 'MITCizCCATQCCQCY8tKaMcOBMJANBgKqhKiG9wOBAQUFADCBITELMAKGALUEBHMCTK8XEJAQBgNVBAgTCVRyb25kaGVpbTEQMA4GALUEChMHVU5JTkVUVDEOMAwGALUECxMFRmVpZGUXGT#
'MameIDFOrmatt' => 'urn-losalsinames'stc15AML2.c'.o'nameid-formatttransient',
```

### Certificates

Download the X509 certificates as PEM-encoded files.

idp.crt

# **SAML Authentication Configuration Steps**

Perform the following steps to setup the SAML module both for SP initiated and IdP initiated configurations. Parameters that are relevant or different between methods are noted as such.

Before you begin:



Before you begin:

Make sure that the *Forcehttps* is enabled and configured on the MediaSpace instance. SAML authentication will not work if MediaSpace is working over HTTP.

- 1. In the SAML module configuration, select Yes to enable the SAML module.
- 2. Enter values for the following:

Parameter	Description
loginRedirectUrl	The URL where the user will be redirected when authentication is required. For SP Initiated it would be a URL where the request is posted. For IdP initiated a URL with the entity ID as a parameter.
	SP Initiated Example: https://idp.example.com/identity

Parameter	Description
	IdP Initiated Example:     https://idp.example.com/identity/UnsolicitedSSO?entityID=mediaspace     entityID
IogoutRedirectUrl	The URL where the user will be redirected when logging out from MediaSpace.
	<b>NOTE:</b> On logout, MediaSpace will always expire the MediaSpace session and then optionally redirect the user to this URL. MediaSpace does not expire login session from the identity provider.
relayStateUrlParam	The parameter <u>name</u> that the IdP uses to pass the URL to redirect the user back after a successful login. This defines the default place to redirect the user to in case it is not passed as part of request. For example for PingFederate it would be <i>TARGET</i> . For other SAML providers it is typically <i>RelayState</i> .
enableMetadataEnd Point	Customers that require a standard XML response that exposes the metadata configured on the Service Provider side, can use this configuration. This will expose the configured parameters of the SAML module through the following URL: http://[MediaSpace Server]/saml/index/sp-metadata
useInternalLogoutP age	If set to "Yes" logout will expire the MediaSpace session and display message to user but will not redirect to IdP logout page. For example:
	You have signed out from MediaSpace. For improved security, we recommend that you close all browser windows at the end of your online session.
logoutText	If useInternalLogoutPage is set to Yes you can define a custom message to users. You can use HTML tags to display a message.

# **3.** Complete the following values in the *spMetadata* section:

Parameter	Description
name	The entity ID of the service provider (MediaSpace) as it was configured in your Identity Provider. For example: https://partner_id.mediaspace.kaltura.com
host	The host of the MediaSpace instance. For example: partner_id.mediaspace.kaltura.com.
	<b>NOTE:</b> The host may be configured only with a single URL per KMS instance. If you are using your own alias for MediaSpace (for example: video.company.com) you should use that alias.
relayState	The value for the relative URL to redirect the user after login if a relay state is not passed as part of the authentication request. The default is "TARGET".
certificate – (optional)	When encryption is required for the SAML response, enter the certificate information. Paste the content of the crt file without the comments line. See Generating a Certificate Workflow.  NOTE: You should paste the content without the 2 comment lines (BEGIN andEND)
	All text should be in a single line with no spaces, so remove all the breaklines in the generated file
	The certificate value is used to encrypt the response provided by the IdP. The following example shows how the crt file would look including the comment lines and the extra line breaks that should be removed:

Parameter	Description			
	BEGIN CERTIFICATE			
	MIICsDCCAhmgAwIBAgIJALM+uZK9gWbQMA0GCSqGSIb3DQEBBQUAMEUxCzAJBgNV			
	BAYTAkFVMRMwEQYDVQQIEwpTb211LVN0YXRlMSEwHwYDVQQKExhJbnRlcm51dCBX			
	aWRnaXRzIFB0eSBMdGQwHhcNMTMwNDI0MDgzOTU1WhcNMjMwNDI0MDgzOTU1WjBF			
	MQswCQYDVQQGEwJBVTETMBEGA1UECBMKU29tZS1TdGF0ZTEhMB8GA1UEChMYSW50			
	ZXJuZXQgV21kZ210cyBQdHkgTHRkMIGfMA0GCSqGSIb3DQEBAQUAA4GNADCBiQKB			
	gQC3Pkd3p+a9Yy0TFHuwy6trDlxhKwa0FAwrGlBnJCw4V+XgL5JaymRqICo1Vrk3			
	MEXFD1hf5GuG17Sm1CXA02XAdzJMemr8RcLjq5dqAPP+6ZZ+3JM9owjvy1LRhMMPwCUBDeCI3WNvmNDCpnoJp+mBIgyZpr87ecgaCt2626CRKQIDAQABo4GnMIGkMB0G			
	AludDgQWBBTODBaXbjmbJUJ1+gnD7CFKECmp9jB1BgNVHSMEbjBsgBTODBaXbjmb			
	JUJ1+gnD7CFKECmp9qFJpEcwRTELMAkGA1UEBhMCQVUxEzARBgNVBAgTC1NvbWUt			
	U3RhdGUxITAfBgNVBAoTGEludGVybmV0IFdpZGdpdHMgUHR5IEx0ZIIJALM+uZK9			
	gWbQMAwGA1UdEwQFMAMBAf8wDQYJKoZIhvcNAQEFBQADgYEAo6LDQVKjODxoL7N/			
	CXTDMDnZ74gXLnZfOWh4RSQZzg/N5JpHt7RH4KTKpc/uWf0cUVRhUED4Vx3K/h10			
	rr8I7ylh6hpD2T8Ecmimx8oXieGrVU5ZuIsMaFxDJFeIvzq6+KtYz+ZaIx2wc6tJ			
	RCe3NZLDKW3WvwgjKdY+YyOkaTs=			
	END CERTIFICATE			
privateKey – (optional)	Copy paste the pem file as is. The privateKey value is used to decrypt the response provided by the IdP. BEGIN RSA PRIVATE KEY MIICXQIBAAKBgQC3Pkd3p+a9Yy0TFHuwy6trDlxhKwa0FAwrGlBnJCw4V+XgL5Ja ymRqICo1Vrk3MEXFD1hf5GuG17Sm1CXA02XAdzJMemr8RcLjq5dqAPP+6ZZ+3JM9 owjvy1LRhMMPwCUBDeCI3WNvmNDCpnoJp+mBIgyZpr87ecgaCt2626CRKQIDAQAB AoGAURW1+jTJ3bQtFexSb4EwcUcBid3IMZdNayVRvtI63xPGHNXwJUy581wZUVD2			
	1Hz/4ptPt98T1a9NuSTXL+RbeXaOFI5nPXQvIV62IsOVrg1l1SkKedkWKM3EPesx			
	iACqtC3xOaV+kjDS1R7x5MNXroMHM/tOKg9xfjmlmckisyECQQDwRh0NSTNGKHEA			
	gNA6TqO3X4G9VkYWE1/KT9MQyc2k41LrKLXD9nd39kgHb7lkozq5r+KmVNo2nki3			
	mqijZOaTAkEAwzyYQik8pRkFlBH/UDYLJ96wuGrqYjvQO+94WWzWCZPXBPBlOY5g			
	KG+15WMfIpvHwsbd0iPaZeCax0INW6LCOwJATRNAuIVVxFiuvymTI1EdpXImrTTi			
	sKwwWza2DzmdFRqy+6qIfD8w3bOMMY5+WzEdYnlwbEjl4wVtcDBVjm1PrwJBALu/			
	VrAxFaeys0Gc0Qi6n+m8ZfdCoZjL6kjo1bQxTHczW4/dWYqK1v+rtj4sHvHaGrS9			
Ju2BGvHjlxRM+amIkI8CQQCHQNwIyVzMvJxnlHG00Sz04vKPs4xSVegYmOL				
	Rr7FMzBMRp46CSa6p38k4ZnAqP7LvoWWci/AvKvjz/xE			
	END RSA PRIVATE KEY			

# **4.** Complete the following values in the *idpMetadata* section:

Parameter	Description
host	The entity ID of the identity provider. For example: https://openidp.feide.no
issuer	The entity ID of the identity provider. For example: https://openidp.feide.no
name	Friendly display name for the Identity
certFilePath	Provider (only for self-hosted MediaSpace) The absolute file system path of the crt file provided by Identity Provider.
certFileContent	The content of the certification file provided by Identity Provider that is used to validate the signature of the response.

# **5.** Complete the following values in the attributes section:

MediaSpace Attribute	Recommended SAML Attribute Name	Required?
userldAttribute	SAML 2.0 Persistent NameID or urn:oid:1.3.6.1.4.1.5923.1.1.1.6	Yes
firstNameAttribute	urn:oid:2.5.4.42	No
lastNameAttribute	urn:oid:2.5.4.4	No

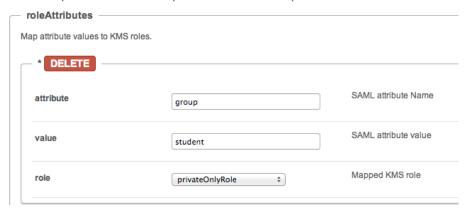
emailAttribute	urn:oid:0.9.2342.19200300.100.1.3	No

**6.** In the **defaultRole** section, select the default role that should be assigned to each user that is authenticated.



**NOTE:** You can configure the option to retrive the role of the user from the Identity Provider through the *Auth*  $\rightarrow$  *refreshRoleOnLogin* every time a user logs in. This option allows you also, to define a default role for all users and then manualy overide the role through the MediaSpace user management section.

**7.** In the **roleAttributes** section, map individual groups and values that are returned in the SAML response to a MediaSpace role. For example:



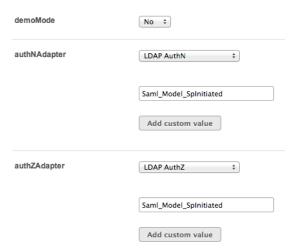
In the above example, the SAML response will be parsed to find an attribute named *group*. If the attribute is found in the assertion and its value is student, the user will get the privateOnlyRole.



**NOTE:** if more than one attrbiute value is found (a user belongs to multiple groups) the user will be mapped to the role that was defined in the last *roleAttribute* found.

- 8. Click on Save to apply the settings.
- **9.** From the MediaSpace Configuration Management, Go to the *Auth* module. For SP Initiated configuration enter:
  - Saml\_Model\_SpInitiated in the authNAdapter text box and click Add custom value
  - Saml\_Model\_SpInitiated in the authZAdapter text box and click Add custom value

### Auth



For IdP Initiated configuration enter:

- Saml\_Model\_IdpInitiated in the authNAdapter text box and click Add custom value
- Saml\_Model\_IdpInitiated in the authZAdapter text box and click Add custom value

10. Click on Save to save the settings.

The Identity Provider should be configured accordingly to support authentication requests from MediaSpace.

# **Example Configuration Using TestIDP (SimpleSAMLphp)**

The following example shows a configuration using TestIDP (SimpleSAMLphp) https://openidp.feide.no:

### **Metadata Editor**



The following shows the URLs that should be configured for authentication and logout:

### Metadata Editor



# **Generating a Certificate Workflow**



1. From a Linux or a Mac Terminal window execute the following command:

```
openssl req -new -x509 -days 3652 -nodes -out example.org.crt - keyout example.org.pem
```

2. From Windows, you can use OpenSSL. After downloading and extracting the package, execute the following from a command line in the extracted folder:

```
req -new -x509 -days 3652 -nodes -config
  c:\openssl\openssl.cnf -out example.org.crt -keyout
  example.org.pem
```

Both suggested options will generate two files:

- example.org.crt This is the certificate containing the public key.
- example.org.pem This is the private key. Please note that this file must be protected.

# **SAML** Response Example

```
<ds:Reference
URI="# 3ab056b68b199b976b49198cfa6b9e28b0317c4c6a">
                                                                                                    <ds:Transforms>
                                                                                                                             <ds:Transform</pre>
Algorithm="http://www.w3.org/2000/09/xmldsig#enveloped-signature"/>
                                                                                                                             <ds:Transform
Algorithm="http://www.w3.org/2001/10/xml-exc-c14n#"/>
                                                                                                    </ds:Transforms>
                                                                                                    <ds:DigestMethod
Algorithm="http://www.w3.org/2000/09/xmldsig#sha1"/>
<ds:DigestValue>pTsLnZhfAW6Zn/LRxATMmed1zag=</ds:DigestValue>
                                                                           </ds:Reference>
                                                  </ds:SignedInfo>
<ds:SignatureValue>iN+urKe/LFlwPyRCgvAY85QvDDSUb43vx8Rk7UpSKO/mGdcoJJNkc/GUBpUtEopqBDbCFE4HQX5
Gr8rMWdEqLV9oTyYLmCKrRSyIewsx8flL/w6swcCKTVWph1lnLGgqXOr7DSTpj0TvsQQPygifovbvc9rh6q72ONJPEj84g
s0=</ds:SignatureValue>
                                                  <ds:KevInfo>
                                                                           <ds:X509Data>
<ds:X509Certificate>MIICizCCAfQCCQCY8tKaMc0BMjANBgkqhkiG9w0BAQUFADCBiTELMAkGA1UEBhMCTk8xEjAQBg
{\tt ZGUubm8xKTAnBgkqhkiG9w0BCQEWGmFuZHJ1YXMuc29sYmVyZ0B1bmluZXR0Lm5vMB4XDTA4MDUw0DA5MjI00FoXDTM1MD}\\
kyMzA5MjI00FowgYkxCzAJBgNVBAYTAk5PMRIwEAYDVQQIEwlUcm9uZGhlaW0xEDA0BgNVBAoTB1VOSU5FVFQxDjAMBgNV
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### Configuring SAML in MediaSpace

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