KB11514, EFT SAML SSO USING OKTA AS THE IDP

Security Assertion Markup Language (SAML) Single Sign On (SSO) provides the end user with a seamless login, allowing access to multiple applications without having to remember multiple credentials. SSO can reduce costs by saving time on password resets and reducing the amount of time end users spend logging on to different applications.

SAML is the standard behind SSO. The current standard is SAML 2.0. This is the only version supported by EFT. SAML uses XML to standardize communications between the Identity Provider (IdP) and the service provider.

This document provides instructions for setting up Globalscape as an application in Okta. Globalscape EFT will be your SAML Service provider (SP).

TERMS TO UNDERSTAND

- SERVICE PROVIDER The end application requesting authentication WTC, SharePoint, Office 365, etc.)
- IDENTITY PROVIDER The identity provider performs the authentication and verifies the end user is who they say they are. (Okta, Active Directory, Gluu)
- ENTITY ID This is usually an URL or other identifier provided by and exchanged between the Service and Identity Providers
- ASSERTION The XML document that the Identity Provider sends to the Service Provider that contains the user authorization*

EFT REQUIREMENTS

- EFT Enterprise, v7.3.3. or later
- The Advanced Security Module
- Ensure that SAML / Web SSO is enabled in EFT.
- Ensure that you have enabled HTTPS in EFT.
- Ensure that you have already created an SSL certificate in EFT

SAML - SETTING UP A GLOBALSCAPE APPLICATION IN OKTA INITIAL CONFIGURATION

- Gather the Service Provider information from EFT
 - Entity ID
 - Reserved Path
- Create the App
 - Platform: Web
 - Sign on Method: SAML 2.0
 - Single sign on URL: <u>https://entityid/reservedpath</u>
 - o Audience URI: https://entityid
- Optional: Preview the SAML Assertion
 - Assign users to the application (Assignments)
- Provide SAML 2.0 setup instructions to EFT

Before you begin, you will need some information from EFT:

- 1. In the administration interface, connect to EFT and click the Server tab.
- 2. On the Server tab, click the Site you want to configure.
- 3. In the right pane, click the **General** tab.
- 4. Click **SAML (WebSSO)**, click **Configure**. The **Web SSO SAML Configuration** dialog box appears.

Web SSO SAML Configuration	x
Service Provider:	
Entity ID: localhost	
Reserved Path:	
/sp/samlv2/sso	

- Entity ID The default is the host name value specified for the EFT Site being configured, e.g., MySite. Any string value can be provided, up 255 characters, including UTF-8 encoded characters.
- Reserved Path The base address followed by the SSO path, e.g., [hostaddress]/sp/samlv2/sso.

To configure Globalscape as an application in Okta

- 1. Log in to your Okta organization as a user with administrative privileges.
- 2. Click Admin.

- 3. Click Add Applications.
- 4. Click Create New App. The Create a New Application dialog box appears.

Platform	Web	*
Sign on method	Secure Web Authentication (SWA)	1
	Uses credentiels to sign in. This in	tegration works with most apps.
	SAML 2.0	
	Uses the SAML protocol to log us than SWA, if the app supports it.	ers into the app. This is a better option
	O OpenID Connect	
	Uses the OpenID Connect protoco	ol to log users into an app you've built.

- 5. Leave Platform as is, and select the SAML 2.0 option, then click Create.
- 6. In the General Setting App name field, type Globalscape, then click Next. (You can also, at this screen, upload the Globalscape logo.)

pp name	Globalscape	
App logo(optional)	Â	
	₩	
		Browse
	Upload Logo	
App visibility	Do not display application icon to	users
	Do not display application icon in	the Okta Mobile app

 In Okta, type the Entity ID and Reserved path from the EFT Web SSO SAML Configuration dialog box into the Single sign on URL and Audience URI (SP Entity ID) fields.

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A SAML Settings

	\searrow	
GENERAL		
Single sign on URL	https://localhost/sp/sam	lv2/sso
	Use this for Recipient UR	and Destination URL
	Allow this app to request	other SSO URLs
Audience URI (SP Entity ID)	https://localhost	
Default RelayState		
	lf no value is set, a blank Rela	yState is sent
Name ID format 🍘	Unspectfied	¥
Application username 💿	Okta username	¥
Update application username on	Create and update	v

- 8. In the Attribute Statements section, add three attribute statements:
 - "FirstName" set to "user.firstName"
 - LastName set to "user.lastName"
 - Email set to "user.email"

lame	Name format (optional)	Value	
FirstName	Unspecified •	user.firstName	•
LastName	Unspecified •	user.lastName	•
Email	Unspecified •	user.email	•
Add Apothor			

9. Click **Next** to continue.

10. In Feedback, select I'm an Okta customer adding an internal app and This is an internal app that we have created then click Finish.

3 Help Okta Support understand how you configured this application

re you a customer or partner?	I'm an Okta customer adding an internal app		
	O I'm a software vendor. I'd like to integrate my app with Okta		
The optional questions below	v assist Okta Support in understanding your app integration.		

11. The **Sign On** section of your newly created SAML Application appears.

er signs into and manages their credentials for an application on in the 3rd party application.	. Some sign-
available if this application supports dynamic configuration.	
Email	
Allow users to securely see their password (Recomme	ended)
	er signs into and manages their credentials for an application on in the 3rd party application. In the 3rd party applicatio

- 12. Right-click on the Identity Provider metadata link and click Copy and save that link for later.
- 13. Click View Setup Instructions.



14. Click View Setup Instructions.

NOTE: You will need to provide the Single Sign-On URL and Identity Provider to EFT.

The **Entity ID** and **Reserved path** need to be accessible URL from your EFT computer. For example, if you're using a specific port, make sure you are pointing SSO to that port. You also might need to connect to the FQDN to avoid a certificate error.

CONFIGURE EFT

- 1. In the administration interface, connect to EFT and click the **Server** tab.
- 2. On the **Server** tab, click the Site you want to configure.
- 3. In the right pane, click the **General** tab.
- 4. Click **SAML (WebSSO)**, click **Configure**. The **Web SSO SAML Configuration** dialog box appears.

	Web SSO SAML Configuration
ervice Provid	der:
Entity ID:	localhost
Reserved Pa	ath:
/sp/samlv2	/sso
lentity Provi	der:
Entity ID:	https://idp.example.com:4400/saml2
POST URL:	
https://idp	.example.com:4400/saml2/POST/idp
Public Key:	
Location in a	Attribute
Identifier fo	rmat:
Unspecified	۲
Parse the us	ername using the regular expression:
Extend u	sername lookup to authentication provider
Just in Ti Turn on Tra	me (JIT) provisioning (if not found) into: Default Setting v ce for SAML logger in logging.cfg

5. Under Identity Provider, proved the **Entity ID** and **POST URL** from the Okta **Setup Instructions**.

TROUBLESHOOTING

When a user clicks the SSO login button in the WTC:

- If the user is redirected to the SSO Login provider page, usually the issue isn't with EFT.
- If EFT provides an error message, you need to verify the configuration.

The verbiage used to identify fields can be different between Identity providers but the basic principles remain the same.

WHAT THE EFT LOGS PROVIDE

1. In the EFT logging.cfg file, enable trace logging:

log4cplus.logger.SAMLSSO=TRACE

 When a user clicks SSO on the WTC login page, the EFT.log can show the following entries, depending on whether it was successful:

```
EFT user was authenticated by IdP and successfully logged in
```

or failed:

```
ERROR SAMLSSO <HTTP.ProcessRequest> - Issuer ID
http://www.okta.com/exk2dm7ah76ccEQIE357 does not match expected
 value of http://www.okta.com/exk2dm7ah76ccEQIE35
 01-02-20 16:55:43,302 [5996] DEBUG SAMLSSO <http://processRequest> - authnstatement count
  = 1
 01-02-20 16:55:43,302 [5996] DEBUG SAMLSSO <HTTP.ProcessRequest> - notBefore 1578005536
  notOnOrAfter 1578006136 (now is
  1578005743)
  01-02-20 16:55:43,302 [5996] DEBUG SAMLSSO <http://ocessRequest> - Assertion::Conditions
  Condition count 0
 01-02-20
                                          16:55:43,302
                                                                                                 [5996]
                                                                                                                                         DEBUG
                                                                                                                                                                           SAMUSSO
  (HTTP.ProcessRequest> - Assertion::Conditions OneTimeUse count
0 01-02-20 16:55:43,302 [5996] DEBUG SAMLSSC
                                                                                                                                                                          SAMUSSO
                                                                                                        ProcessAssertion
  <http://www.endowerstates.com/www.endowerstates.com/www.endowerstates.com/www.endowerstates.com/www.endowerstates.com/www.endowerstates.com/www.endowerstates.com/www.endowerstates.com/www.endowerstates.com/www.endowerstates.com/www.endowerstates.com/www.endowerstates.com/www.endowerstates.com/www.endowerstates.com/www.endowerstates.com/www.endowerstates.com/www.endowerstates.com/www.endowerstates.com/www.endowerstates.com/www.endowerstates.com/www.endowerstates.com/www.endowerstates.com/www.endowerstates.com/www.endowerstates.com/www.endowerstates.com/www.endowerstates.com/www.endowerstates.com/www.endowerstates.com/www.endowerstates.com/www.endowerstates.com/www.endowerstates.com/www.endowerstates.com/www.endowerstates.com/www.endowerstates.com/www.endowerstates.com/www.endowerstates.com/www.endowerstates.com/www.endowerstates.com/www.endowerstates.com/www.endowerstates.com/www.endowerstates.com/www.endowerstates.com/www.endowerstates.com/www.endowerstates.com/www.endowerstates.com/www.endowerstates.com/www.endowerstates.com/www.endowerstates.com/www.endowerstates.com/www.endowerstates.com/www.endowerstates.com/www.endowerstates.com/www.endowerstates.com/www.endowerstates.com/www.endowers
                                                                                                                                                                          returns
  AssertionSuccess, numSuccessfulAuthnStatements = 1
                                            16:55:43,302
                                                                                                                                         DEBUG
                                                                                                                                                                         SAMLSSO
  01-02-20
                                                                                                    [5996]
  <http://www.endowerstates.com/www.endowerstates.com/www.endowerstates.com/www.endowerstates.com/www.endowerstates.com/www.endowerstates.com/www.endowerstates.com/www.endowerstates.com/www.endowerstates.com/www.endowerstates.com/www.endowerstates.com/www.endowerstates.com/www.endowerstates.com/www.endowerstates.com/www.endowerstates.com/www.endowerstates.com/www.endowerstates.com/www.endowerstates.com/www.endowerstates.com/www.endowerstates.com/www.endowerstates.com/www.endowerstates.com/www.endowerstates.com/www.endowerstates.com/www.endowerstates.com/www.endowerstates.com/www.endowerstates.com/www.endowerstates.com/www.endowerstates.com/www.endowerstates.com/www.endowerstates.com/www.endowerstates.com/www.endowerstates.com/www.endowerstates.com/www.endowerstates.com/www.endowerstates.com/www.endowerstates.com/www.endowerstates.com/www.endowerstates.com/www.endowerstates.com/www.endowerstates.com/www.endowerstates.com/www.endowerstates.com/www.endowerstates.com/www.endowerstates.com/www.endowerstates.com/www.endowerstates.com/www.endowerstates.com/www.endowerstates.com/www.endowerstates.com/www.endowerstates.com/www.endowerstates.com/www.endowerstates.com/www.endowerstates.com/www.endowers
                                                                                                                                                                 code is
                                                                                     final
                                                                                                         check:
                                                                                                                                         Status
 'urn:oasis:names:tc:SAML:2.0:status:Success', username is
'eleenheer@globalscape.com', numSuccessfulAuthnStatements = 1
 01-02-20 16:55:43,333 [5996] DEBUG SAMLSSO <HTTP.ProcessRequest> -
  CHTTPSocket::HandleSAMLSSO - RelayState is '/'
 01-02-20 16:55:43,333 [5996] DEBUG SAMLSSO <HTTP.ProcessRequest> - CHTTPSocket::HandleSAMLSSO - RelayState is '/' and SavedPathCookie is '/'. SavedPathCookie is more specific so that takes precedence.
 01-02-20 16:55:43,333 [5996] TRACE SAMLSSO <HTTP.ProcessRequest>
CHTTPSocket::HandleSAMLSSO - looking for absolute prefix
https://test.churillo.com/
 01-02-20 16:55:43,349 [5996] DEBUG SAMLSSO <HTTP.ProcessRequest> -
  CHTTPSocket::HandleSAMLSSO -
  m bEmbeddedDownloadLinkRequest = false for /
  01-02-20 16:55:43,349 [5996] DEBUG SAMLSSO <HTTP.ProcessRequest> -
CHTTPSocket::HandleSAMLSSO - EFT user was authenticated by IdP and successfully logged
   in
```

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01-02-20 16:55:43,349 [5996] DEBUG SAMLSSO <HTTP.ProcessRequest> -CHTTPSocket::HandleSAMLSSO - redirecting to path / 01-02-20 16:59:12,787 [3560] DEBUG SAMLSSO <http://processRequest> - assertion count = 1 01-02-20 16:59:12,787 [3560] DEBUG SAMLSSO <http://processRequest> - encrypted assertion count = 001-02-20 16:59:12,787 [3560] DEBUG SAMLSSO <http://processRequest> - SAMLAntiReplay::ConfirmResponse - confirmed ID afe50491a-e8c7- 47e9-815f-4db8aadfbc78 01-02-20 16:59:12,787 [3560] DEBUG SAMLSSO <HTTP.ProcessRequest> - SAMLResponse issuer ID is http://www.okta.com/exk2dm7ah76ccEQIE357 UI-UZ-ZU 10:39:12,/8/ [3360] EKKOK SAMLSSU <http://ocesskequest/ - issuer nulp://www.okta.com/exkzam/an/occegiess 01-02-20 16:59:12,787 [3560] DEBUG SAMLSSO <HTTP.ProcessRequest> -CHTTPSocket::HandleSAMLSSO - WebSSO user login failed. SAMLResponse error -Issuer Entity ID mismatch 01-02-20 16:59:12,944 [6960] TRACE SAMLSSO <HTTP.ProcessRequest> -CHTTPSocket::HandleSAMLSSO - GET / 01-02-20 16:59:12,944 [6960] TRACE SAMLSSO <HTTP.ProcessRequest> -CHTTPSocket::HandleSAMLSSO - request path '/' is not service provider reserved path '/sp/samlv2/sso' 01-02-20 16:59:13,006 [840] TRACE SAMLSSO <http.processRequest> -CHTTPSocket::HandleSAMLSSO - GET /EFTClient/Account/Login.htm 01-02-20 16:59:13,006 [840] TRACE SAMLSSO <HTTP.ProcessRequest> - CHTTPSocket::HandleSAMLSSO - request path '/EFTClient/Account/Login.htm' is not service provider reserved path '/sp/samlv2/sso' 01-02-20 16:59:13,006 [840] DEBUG SAMLSSO <HTTP.ProcessRequest> -CHTTPSocket::SendLoginPageWithError - HTTP SAMLSSO ERROR COOKIE NAME present ... enabling WTC SSO error message: There was a problem processing your single sign on request. Please re-type your login credentials and try again. Contact your EFT administrator if you continue to experience this error upon future login attempts. 01-02-2016:59:13,006 [840] TRACE SAMLSSO <HTTP.ProcessRequest> - CHTTPSocket::SendLoginPageWithError - Enabling WebSSO Login button