Ping Identity™

PingFederate®

PeopleSoft Integration Solution v2.4.5 (OpenToken Adapter)

User Guide



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PingFederate PeopleSoft Integration Solution (OpenToken Adapter) User Guide Version 2.4.5 August 2022

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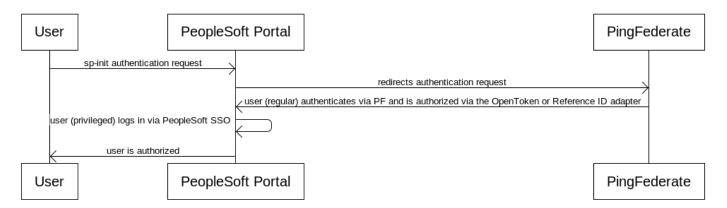
Note that Ping Identity may not provide support for any sample configurations provided in this document. The variability inherent among security environments prevents full testing and support for all possible platform configurations. If you need special assistance or would like to inquire about implementation or support programs, please contact Ping Identity Global Client Services (http://support.pingidentity.com).

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Purpose

The PeopleSoft Integration Solution provides a way to integrate PingFederate with the PeopleSoft application in order to provide Single Sign On (SSO) for users. The flow of this integration is SP-initiated, which starts with the user going to the PeopleSoft login page. If the user hasn't been authenticated yet, he/she would be redirected to PingFederate to initiate the SSO process. Once authenticated, the user will be authorized into the PeopleSoft application. If the user has already authenticated prior, and his/her session has not ended yet, the user will stay authenticated. Otherwise, the user will be redirected to log in again. This solution also allows the ability for privileged users, such as PeopleSoft administrators, to be able to bypass the general SSO process via PingFederate, and log into PeopleSoft directly.



Prerequisites

This document assumes that you already have the following installed and configured:

- A functional PingFederate environment with a compatible JDK installed
- A pre-configured IdP adapter (e.g., Kerberos, HTML Form IdP Adapter, etc.)
- A functional PeopleSoft environment with a compatible JDK installed

Installation & Configuration

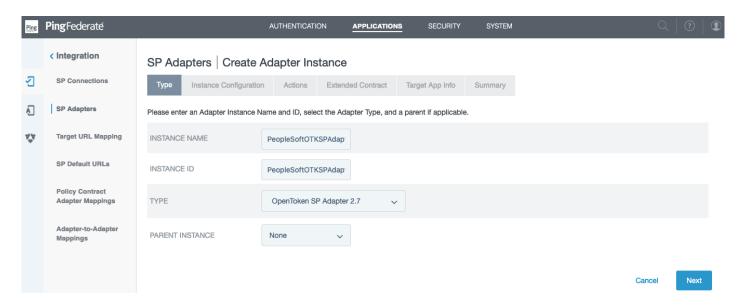
<u>Note</u>: It is recommended that a PeopleSoft environment with limited users should be used for the initial installation and configuration of the solution, as downtime is needed.

PINGFEDERATE CONFIGURATION

Configuring the OpenToken Adapter

<u>Note</u>: The *PingFederate Java Integration Kit* will need to be installed and deployed in your PingFederate environment prior to the below configuration steps.

- 1. Log into the PingFederate admin console and click on **SP Adapters** under **Applications**.
- 2. Click Create New Instance.
- 3. Enter the Instance Name, Instance ID, select OpenToken Adapter 2.X.X from the Type dropdown, and click Next.



- 4. Click the Show Advanced Fields link.
- 5. Configure the following:
 - a. Password
 - b. Confirm Password
 - c. Transport Mode = Form POST
 - d. Not Before Tolerance = 10 (leave a '0' if all PeopleSoft and PingFederate server time clocks are in sync; otherwise, set it anywhere between 5-30 seconds)
 - e. Send Extended Attributes = Query Parameters

SP Adapters | Create Adapter Instance

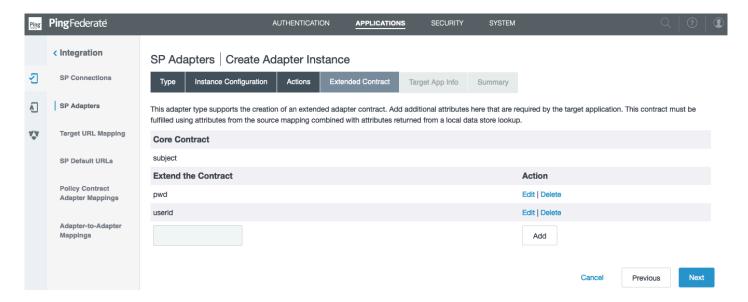
Complete the configuration necessary to set the appropriate security context for user sessions in your environment. This configuration was designed into the adapter for use at your site.

OpenToken Adapter 2.7

Field Name	Field Value	Description
PASSWORD		Password to use for generating the encryption key.
CONFIRM PASSWORD	•••••	Must match password field.
TRANSPORT MODE	Query Parameter Cookie Form POST	How the token is transported to/from the application, either via a query parameter, a cookie, or as a form POST.
TOKEN NAME	opentoken	The name of the cookie or query parameter that contains the token. This name must be unique for each adapter instance.
CIPHER SUITE	Null AES-256/CBC AES-128/CBC 3DES-168/CBC	The algorithm, cipher mode, and key size that should be used for encrypting the token.
AUTHENTICATION SERVICE		The URL to which the user is redirected for an SSO event. This URL overrides the Target Resource which is sent as a parameter to the Authentication Service.
ACCOUNT LINK SERVICE		The URL to which the user is redirected for Account Linking. This URL is part of an external SP application. This external application performs user authentication and returns the local user ID inside the token.
LOGOUT SERVICE		The URL to which the user is redirected for a single-logout event. This URL is part of an external application, which terminates the user session.
SAMESITE COOKIE	Strict Lax None Nothing	The SameSite attribute for the cookie that contains the token. Selecting the option "Nothing" will not set SameSite attribute on the cookie.
COOKIE DOMAIN		The server domain should be in the format of example.com. If no domain is specified, the value is obtained from the request.
COOKIE PATH	1	The path for the cookie that contains the token.

TOKEN LIFETIME	300	The duration (in seconds) for which the token is valid. Valid range is 1 to 28800. $ \label{eq:condition} $
SESSION LIFETIME	43200	The number of seconds that a session is valid for. During this period, PingFederate can extend the lifetime of active tokens without requiring the user to authenticate again. If the token already expired or the session lifetime ended, PingFederate requires the user to authenticate again. Valid range is 1 to 259200.
NOT BEFORE TOLERANCE	10	The amount of time (in seconds) to allow for clock skew between servers. Valid range is 0 to 3600.
FORCE SUNJCE PROVIDER		If checked, the SunJCE provider will be forced for encryption/decryption.
USE VERBOSE ERROR MESSAGES		If checked, use verbose TokenException messages
OBFUSCATE PASSWORD	✓	If checked, the password will be obfuscated and password-strength validation will be applied. Clearing the checkbox allows backward compatibility with previous OpenToken agents.
SESSION COOKIE		If checked, OpenToken will be set as a session cookie (rather than a persistent cookie). Applies only if Transport Mode is set as 'Cookie'.
SECURE COOKIE	✓	If checked, the OpenToken cookie will be set only if the request is on a secure channel (https). Applies only if Transport Mode is set as 'Cookie'.
HTTP ONLY FLAG	✓	Sets a flag for the cookie that it can only be read via http requests and disallows Javascript to access the cookie. Note: not all browsers respect the HTTP Only flag.
SEND SUBJECT AS QUERY PARAMETER		Checking this box will send the Subject ID as a clear-text query parameter, if Transport Mode is set to "Query Parameter". If Transport Mode is set to "Form POST", the Subject ID is sent as POST data.
SUBJECT QUERY PARAMETER		The parameter name used for the Subject ID when the "Send Subject ID as Query Parameter" box is checked.
SEND EXTENDED ATTRIBUTES	Query Parameters ~	Extended Attributes are typically sent only within the token, but this option overrides the normal behavior and allows the attributes to be included in browser cookies or query parameters.
SKIP TRIMMING OF TRAILING BACKSLASHES		If not checked, it prevents insecure content from affecting the security of your application/agent. We recommend to update your applications with the latest version of the agent. We recommend not to change the value of this flag.
URL ENCODE COOKIE VALUES	•	If checked, the extended attribute cookie value will be URL encoded.

- 6. Click Next.
- 7. Click the **Invoke Download** link.
- 8. Click Export and save the agent-config.txt file. Then click Next.
 9. Extend the contract by adding the following attributes:
- - a. userid
 - b. pwd



- 10. Click Next.
- 11. Review the **Summary**, and click **Done**.

SP Adapters | Create Adapter Instance

Туре	Instance Configuration	Actions	Extended Contract	Target App Info	Summary	
------	------------------------	---------	-------------------	-----------------	---------	--

SP adapter instance summary information.

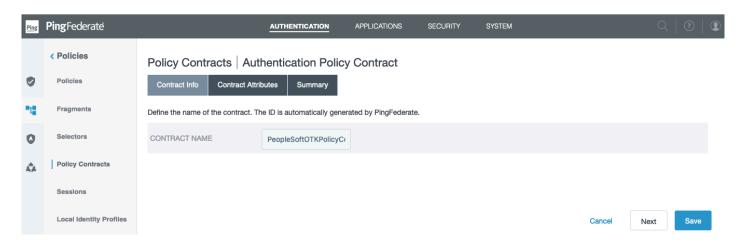
Create Adapter Instance	
Туре	
Instance Name	PeopleSoftOTKSPAdapter
Instance ID	PeopleSoftOTKSPAdapter
Туре	OpenToken SP Adapter 2.7
Class Name	com.pingidentity.adapters.opentoken.SpAuthnAdapter
Parent Instance Name	None
Instance Configuration	
Transport Mode	Form POST
Token Name	opentoken
Cipher Suite	AES-128/CBC
Authentication Service	
Account Link Service	
Logout Service	
SameSite Cookie	Nothing
Cookie Domain	
Cookie Path	1
Token Lifetime	300
Session Lifetime	43200
Not Before Tolerance	10
Force SunJCE Provider	false
Use Verbose Error Messages	false
Obfuscate Password	true

Session Cookle	false
Secure Cookie	true
HTTP Only Flag	true
Send Subject as Query Parameter	false
Subject Query Parameter	
Send Extended Attributes	Query Parameters
Skip Trimming of Trailing Backslashes	false
URL Encode Cookie Values	true
Actions	
Download	Download the configuration file for the agent.
Extended Contract	
Attribute	subject
Attribute	pwd
Attribute	userid
Target App Info	

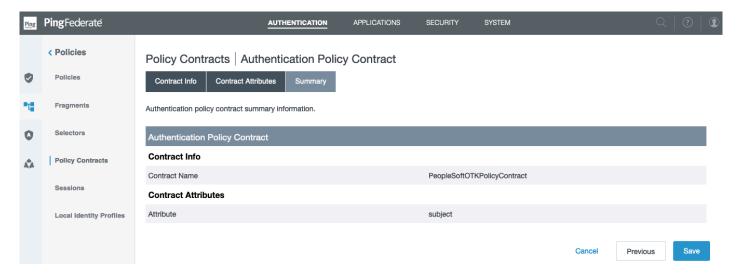
12. Click Save.

Configuring the Policy Contract

- 1. Log into the PingFederate admin console and click on **Policy Contracts** under **Authentication** >> **Policies**.
- 2. Click Create New Contract.
- 3. Enter the Contract Name and click Next.



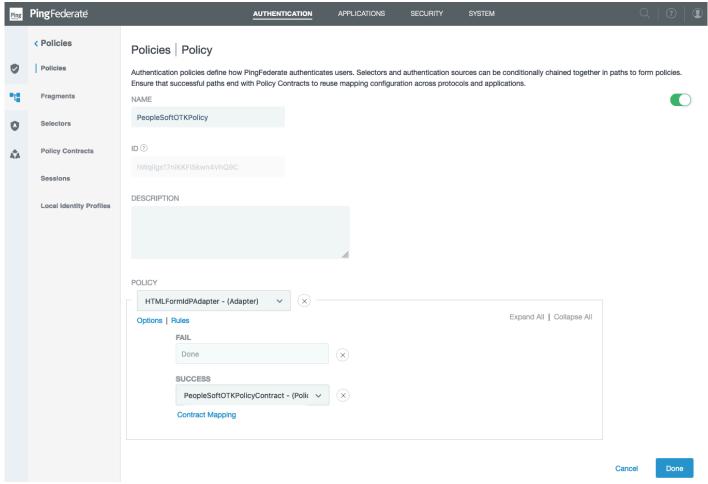
- 4. Click Next.
- 5. Review the **Summary** and click **Save**.



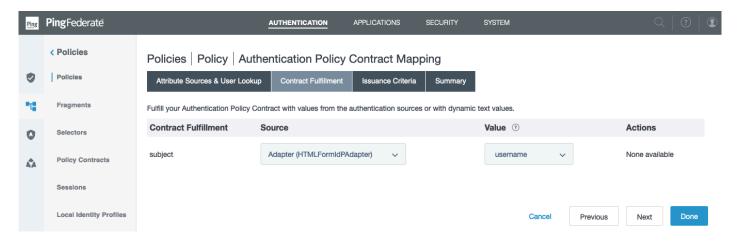
Configuring the Policy

Note: An IdP adapter, such as Kerberos or HTML Form IdP, needs to be pre-configured prior to the below steps.

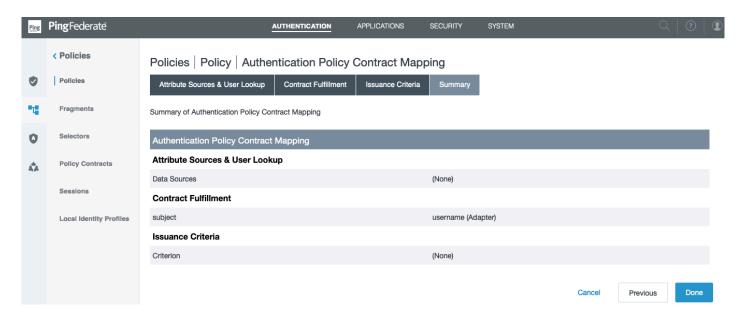
- 1. Log into the PingFederate admin console and click on **Authentication** >> **Policies**.
- 2. Click Add Policy.
- 3. Enter the **Name** and configure the policy flow. An HTML Form IdP Adapter is used for the first factor in this example.



- 4. Click Contract Mapping and click Next.
- 5. Configure the Contract Fulfillment and click Next.



- 6. Click Next.
- 7. Review the **Summary** and click **Done**.



- 8. Click Done.
- 9. Click Save.

Configuring the SP Connection

- 1. Log into the PingFederate admin console and click on **Applications** >> **SP Connections**.
- 2. Click **Create Connection** and configure the **Authentication Source Mapping** to the policy contract created above. For example:

SP Connections | SP Connection

Connection Type	Connection Options	Metadata URL	General Info	Browser SSO	Credentials	Activation & Summary
Summary information for your SP connection. Click a heading in a section to edit a particular configuration setting.						
SSO Application Ends	point ht	https://localhost:9031/idp/startSSO.ping?PartnerSpId=peoplesoftotk-sp				

Summary SP Connection **Connection Type** Connection Role SP Browser SSO Profiles true Protocol SAML 2.0 Connection Template No Template WS-Trust STS false Outbound Provisioning false **Connection Options** Browser SSO true IdP Discovery false Attribute Query false General Info Partner's Entity ID (Connection ID) peoplesoftotk-sp Connection Name peoplesoftotk-sp Default Virtual Server ID peoplesoftotk-idp Base URL https://localhost:9031

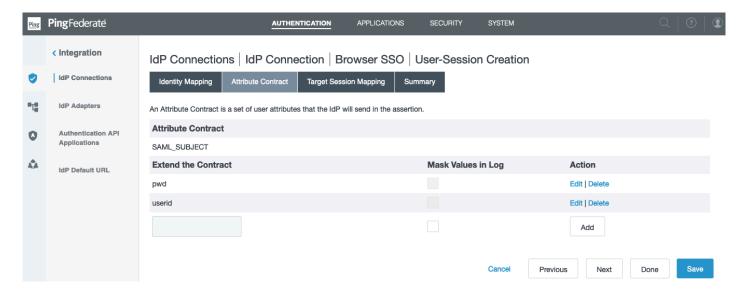
Browser SSO	
SAML Profiles	
IdP-Initiated SSO	true
IdP-Initiated SLO	false
SP-Initiated SSO	true
SP-Initiated SLO	false
Assertion Lifetime	
Valid Minutes Before	5
Valid Minutes After	5
Assertion Creation	
Identity Mapping	
Enable Standard Identifier	true
Attribute Contract	
Attribute	SAML_SUBJECT
Subject Name Format	urn:oasis:names:tc:SAML:1.1:nameid-format:unspecified
Authentication Source Mapping	
Authentication policy contract name	PeopleSoftOTKPolicyContract
Authentication Policy Contract	
Selected contract	PeopleSoftOTKPolicyContract
Virtual Server IDs	
Restricted Virtual Server ID	(none)
Mapping Method	
Authentication Policy Contract	PeopleSoftOTKPolicyContract
Mapping Method	Use only the Authentication Policy Contract values in the mapping
Attribute Contract Fulfillment	
SAML_SUBJECT	subject (Authentication Policy Contract)
Issuance Criteria	
Criterion	(None)

Protocol Settings	
Assertion Consumer Service URL	
Endpoint	URL: /sp/ACS.sami2 (POST)
Allowable SAML Bindings	
Artifact	false
POST	true
Redirect	true
SOAP	false
Signature Policy	
Require digitally signed AuthN requests	false
Always Sign Assertion	false
Sign Response As Required	true
Encryption Policy	
Status	Inactive
Credentials	
Digital Signature Settings	
Selected Certificate	01:80:04:6B:DA:C3 (CN=Config Cert, OU=PS, O=Ping Identity, L=Denver, ST=CO, C=US)
Include Certificate in KeyInfo	false
Selected Signing Algorithm	RSA SHA256

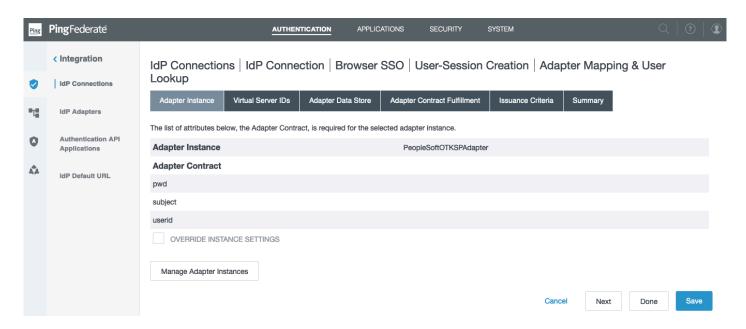
3. Click **Save** and confirm that the SP Connection is enabled.

Configuring the IdP Connection

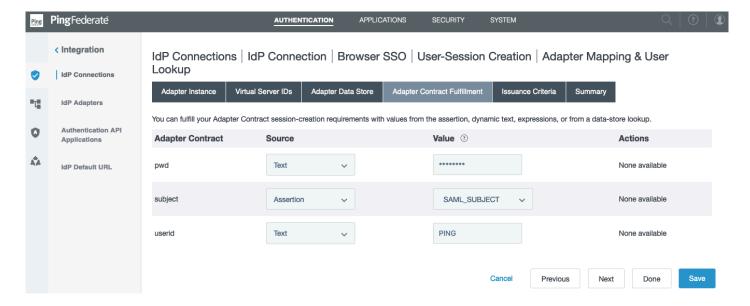
- 1. Log into the PingFederate admin console and click on **Authentication** >> **IdP Connections**.
- 2. Click Create Connection.
- 3. In the **Attribute Contract** section, extend the attributes to include 'userid' and 'pwd', and click **Next**.



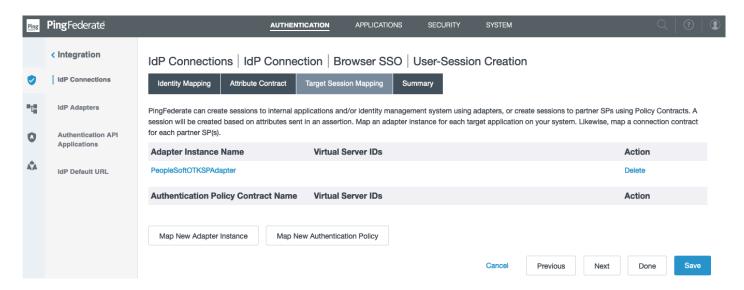
 Click Map New Adapter Instance and select the OTK SP Adapter created above and click Next.



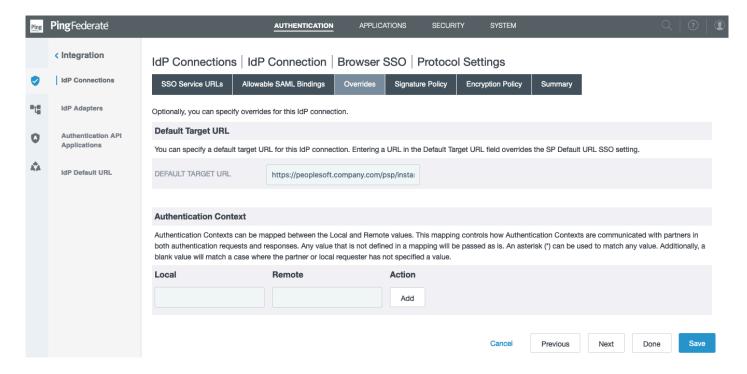
- 5. Click Next.
- 6. Click Next.
- 7. Fulfill the **Adapter Contract Fulfillment** with the following criteria:
 - a. userid = PING
 - b. pwd = ******



8. Click Done.



- 9. Continue on with configuring the IdP Connection until **Protocol Settings**.
- 10. Under **Overrides** configure the **Default Target URL** with the PeopleSoft login URL, and click **Next**. For example:
 - a. https://<YourPeopleSoftServer>/psp/<instance>/
 Please note that the signin.html does not necessarily need to be a part of the default target Url, the below screenshot is just an example.



- 11. Continue configuring the rest of the IdP Connection.
- 12. Review the **Summary** and click **Done**.

IdP Connections | IdP Connection

SP-Initiated SLO

Connection Type	Connection Options	Metadata URL	General Info	Browser SSO	Credentials	Activation & Summary	
-----------------	--------------------	--------------	--------------	-------------	-------------	----------------------	--

Summary information for your IdP connection. Click a heading in a section to edit a particular configuration setting.

Summary information for your for connection. Click a heading in a section to edit a particular configuration setting.				
SSO Application Endpoint	https://localhost:9031/sp/startSSO.ping?SpSes	ssionAuthnAdapterId=PeopleSoftOTKSPAdapter		
Summary				
IdP Connection				
Connection Type				
Connection Role		IdP		
Browser SSO Profiles		true		
Protocol		SAML 2.0		
WS-Trust STS		false		
OAuth Assertion Grant		false		
Inbound Provisioning		false		
Connection Options				
Browser SSO		true		
JIT Provisioning		false		
OAuth Attribute Mapping		false		
Attribute Query		false		
General Info				
Partner's Entity ID (Connection II	D)	peoplesoftotk-idp		
Connection Name		peoplesoftotk-idp		
Default Virtual Server ID		peoplesoftotk-sp		
Base URL		https://localhost:9031		
Browser SSO				
SAML Profiles				
IdP-Initiated SSO		true		
IdP-Initiated SLO		false		
SP-Initiated SSO		true		

false

User-Session Creation	
Identity Mapping	
Enable Account Mapping	true
Attribute Contract	
Attribute	SAML_SUBJECT
Attribute	pwd
Attribute	userid
Target Session Mapping	
Adapter instance name	PeopleSoftOTKSPAdapter
Adapter Instance	
Selected adapter	PeopleSoftOTKSPAdapter
Virtual Server IDs	
Restricted Virtual Server ID	(none)
Adapter Data Store	
Attribute location	Use only the attributes available in the SSO Assertion
Adapter Contract Fulfillment	
pwd	******** (Text)
subject	SAML_SUBJECT (Assertion)
userid	PING (Text)
Issuance Criteria	
Criterion	(None)

Protocol Settings	
SSO Service URLs	
Endpoint	URL: /ldp/SSO.saml2 (POST)
Allowable SAML Bindings	
Artifact	false
POST	true
Redirect	true
SOAP	false
Overrides	
URL	https://peoplesoft.company.com/psp/instance_01/signin.html
Signature Policy	
Sign AuthN requests over POST and Redirect	false
Require digitally signed SAML Assertion	false
Encryption Policy	
Status	Inactive
Credentials	
Signature Verification	
Trust Model	
Trust Model	Unanchored
Signature Verification Certificate	
Active Certificate 1	01:80:04:6B:DA:C3 (CN=Config Cert, OU=PS, O=Ping Identity, L=Denver, ST=CO, C=US)

13. Click **Save** and confirm that the IdP Connection is enabled.

PEOPLESOFT INSTALLATION AND CONFIGURATION

Modifying the PeopleSoft Integration Solution Files

Note: Extract the files from *pf-peoplesoft-integration-solution-2.4.5.zip* prior to the below steps.

- 1. From the /deploy/src/main/java/com/pingidentity/ps/pf/peoplesoft/ folder, open up the **PSOpenTokenConversion.java** file and modify the following:
 - a. Line 36 set *displayDebug* to either true or false to log open token transaction events:

```
private boolean displayDebug = [true or false];
```

- b. Save the file.
- 2. From the /deploy/src/main/resources/ folder, open up the log4j2.properties file and modify the following:

- a. Uncomment line 5 or 6 depending on which operating system is being used.
 - i. Adjust the path where the *peoplesoft_pf.log* will be generated on the PeopleSoft server.
- b. Line 19 the maximum file size for the log file, for example:

```
appender.rolling.policies.size.size = 500KB
```

c. Line 30 – the maximum number of days to back up the log files, for example:

```
appender.rolling.strategy.delete.ifLastModified.age = 14d
```

d. Line 34 – the log level, for example:

```
logger.rolling.level = debug
```

- e. Review the rest of the properties as needed.
- f. Save the file.
- 3. From the /conf/peoplecode folder, open up the **PeopleCode_OpenToken.txt** file and modify the following if needed:
 - a. If only returning the User ID in the attribute contract, ensure that lines 47-48 are **not** commented out and lines 51-58 are commented out:

```
&psUserId = &Agent.GetUserId([True or False], &opentoken, &URL); &logfile.WriteLine(" psUserId="| &psUserId);
```

b. If returning the User ID along with additional attributes in the attribute contract, ensure that lines 51-58 are **not** commented out, lines 47-48 are commented out, and modify accordingly to extract the additional attributes – for example:

```
&psAttrNames = "mail|displayName"; // attribute names must be separated by a pipe &psUserData = Split(&Agent.GetUserData(True, &psAttrNames, &opentoken, &URL), "|"); &psUserId = &psUserData[1]; &logfile.WriteLine(" psUserId="| &psUserId); &psMail = &psUserData[2]; &logfile.WriteLine(" psMail = "| &psMail); &psDisplayName = &psUserData[3]; &logfile.WriteLine(" psDisplayName = "| &psDisplayName);
```

c. Please note that in line 68:

```
SetAuthenticationResult( True, Upper(&psUserId), "", False);
```

The user ID (&psUserId) obtained from the open token will be converted to upper case. Please ensure that any case settings in PeopleSoft have been configured to match case comparison for the user ID. Otherwise, line 68 will need to be modified to match the case settings in PeopleSoft.

4. Modifying the *signin.html* file requires the following steps:

- a. Go to where the location of signin.html is located on your PeopleSoft web server.
- b. Make a back up copy of *signin.html* on your PeopleSoft web server (e.g., *signin.html.ORIG*).
- c. From the /deploy/html folder, open up siginin.html and do the following:
 - i. Modify the following:
 - a. Line 127 the PingFederate Adapter-2-Adapter URL:

var pingUrl =

"https://<YourPingFederateHost>/pf/adapter2adapter.ping?IdpAdapterId=<YourIdPAdapterId>&SpSessionAuthnAdapterId=<YourOpenTokenSPAdapterID>";

Note: If a SP Connection was configured instead of the Adapter-2-Adapter mapping, use the SP Connection's SSO Application Endpoint for the URL.

b. If logging should be enabled, remove the double forward slash in front of all lines of code that start with 'alert' in the PING IMPLEMENTATION JavaScript code. For example:

```
alert("queryString: " + queryString);
```

- ii. Save the file.
- iii. Copy lines 52 to 135 from the *signin.html* that was just modified— basically everything between:

```
//** BEGIN PING IMPLEMENTATION **/
...
//** END PING IMPLEMENTATION **/
```

iv. Paste lines 52 to 135 in the PeopleSoft web server *signin.html* between the <script language="JavaScript"></script> tags.

Deploying the PeopleSoft Integration Solution on the PeopleSoft Environment

<u>Note</u>: The above section, *Modifying the PeopleSoft Integration Solution Files*, must be completed prior to the below steps. In addition, a compatible Java compiler (javac) must be installed on the PeopleSoft application server.

- 1. Shut down the PeopleSoft application server.
- 2. Create the following sub-directories in <YourPeopleSoftPath>/appserv/ directory:
 - a. **conf** for example: <YourPeopleSoftPath>/appserv/conf/
 - b. logs for example: <YourPeopleSoftPath>/appserv/logs/
 - c. com/pingidentity/ps/pf/peoplesoft/ for example: <YourPeopleSoftPath>/appserv/classes/com/pingidentity/ps/pf/peoplesoft/
- 3. Copy the following files from the designated source to target location:

Source	Target
Exported from Configuring the OpenToken Adapter Step 8:	<yourpeoplesoftpath></yourpeoplesoftpath>
agent-config.txt	
/deploy/	<pre><yourpeoplesoftpath>/appserv/classes/</yourpeoplesoftpath></pre>

 commons-collections-X.X.X.jar commons-logging-X.X.jar javax.servlet-api-X.X.X.jar log4j-api-X.X.X.jar log4j-core-X.X.X.jar otk-agents/opentoken-agent-2.X.X.jar (please make sure you have the correct version that matches your OpenToken Adapter version in PingFederate) 	
/deploy/src/main/java/com/pingidentity/ps/pf/peoplesoft/ • PSOpenTokenConversion.java	<yourpeoplesoftpath>/appserv/classes/</yourpeoplesoftpath>
/deploy/src/main/resources/ • log4j2.properties	<yourpeoplesoftpath>/appserv/classes/</yourpeoplesoftpath>

- 4. Compile the PSOpenTokenConversion.java file and move the class file. For instance:
 - a. cd /<YourPeopleSoftPath>/appserv/classes/
 - b. For Linux:
 - /usr/jdkX.X/bin/javac -classpath ./opentoken-agent-2.X.X.jar:./commons-collections-X.X.X.jar:./commons-logging-X.X.jar:./javax.servlet-api-X.X.X.jar:./log4j-api-X.X.X.jar:./log4j-core-X.X.X.jar
 PSOpenTokenConversion.java
 - c. For Windows:
 - i. D:\Java\javac.exe -cp ".;./opentoken-agent-2.X.X.jar;commons-collections-X.X.X.jar;commons-logging-X.X.jar;javax.servlet-api-X.X.X.jar;log4j-api-X.X.X.jar;log4j-core-X.X.X.jar;" PSOpenTokenConversion.java
 - d. Move PSOpenTokenConversion.class that was generated in </ur>
 YourPeopleSoftPath>/appserv/classes/ to
 YourPeopleSoftPath>/appserv/classes/com/pingidentity/ps/pf/peoplesoft/
- 5. Restart the PeopleSoft application server.

Creating the Underprivileged PeopleSoft Account

The purpose of the PING account is to intentionally fail authentication in the PeopleSoft application, so that the Ping Authentication PeopleCode (see next section) will be kicked off.

Note: These steps can be done in parallel with the above sections.

- Log into the PeopleSoft application, and create an underprivileged account with the username of PING. Note that the username must match the userid entered in Configuring the Adapter-to-Adapter Mapping Step 5. The passwords should be different between the PING account in the PeopleSoft application and PingFederate.
- 2. Put **PING** into an underprivileged role that will allow the account:
 - a. To have a password that never expires
 - b. From becoming inactive or disabled
- 3. Create a URL named **AGENT** with the path of where the agent-config.txt is located on the PeopleSoft application server, for example (do not forget the end forward slash):
 - a. D:/psoft/<instance>/
- 4. Disable password controls in the PeopleSoft application (if applicable to your PeopleSoft version).
- 5. Disable anonymous authentication in the PeopleSoft application (if applicable to your PeopleSoft version).

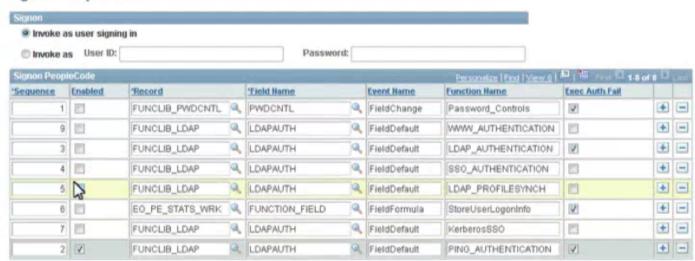
Deploying the Ping Authentication PeopleCode

Note: These steps can be done in parallel with the above sections.

- Log into the PeopleSoft application, and go to PeopleTools >> Security >> Security Objects >> Signon PeopleCode
- 2. Create a new PeopleCode record with the following properties:
 - a. Sequence = 1 or 2
 - b. Record = FUNCLIB LDAP
 - c. Field Name = LDAPAUTH
 - d. Event Name = FieldDefault
 - e. Function Name = PING AUTHENTICATION
 - f. Exec Auth Fail = checked

For example:

Signon PeopleCode



- 3. From the /conf/peoplecode/ folder in the *pf-peoplesoft-integration-solution-2.4.5.zip* solution, copy the contents from *PeopleCode_OpenToken.txt* and place it in the newly created PING_AUTHENTICATION PeopleCode record.
- 4. Reorder the PeopleCode records by making the PING_AUTHENTICATION PeopleCode record one of the initial ones (i.e., 1 or 2).
- 5. Disable the old PeopleSoft authentication PeopleCode records.
- 6. Enable the PING AUTHENTICATION PeopleCode record (Enabled = checked).

Testing

<u>Please note</u>: For all test cases below unless otherwise stated, please make sure to test with a new session (e.g., clear browser data, close and re-open the browser).

Test Case 1: Log into the PeopleSoft application as a regular user.

1. Open a browser and go to the PeopleSoft login page.

2. Log in as a regular user.

Results:

- The user should have been redirected to PingFederate for authentication.
- Upon successful authentication, the user should then be successfully authorized into the PeopleSoft application.
- A cookie named PS_TOKEN should have been created and set in the web browser.

<u>Test Case 2</u>: Log into the PeopleSoft application as a privileged user.

- 1. Open a browser and go to this PeopleSoft login link:
 - a. <a href="https://<YourPeopleSoftPortalURL>/instance/?cmd=login&languageCd=ENG&locallogin=true">https://<YourPeopleSoftPortalURL>/instance/?cmd=login&languageCd=ENG&locallogin=true
- 2. Log in as a privileged user.

Results:

- The user should not have been redirected to PingFederate for authentication.
- The user should have authenticated directly through the PeopleSoft login.
- Upon successful authentication, the user should then be successfully authorized into the PeopleSoft application.

<u>Test Case 3</u>: Re-log into the PeopleSoft application as a regular user.

- 1. Go through Test Case 1 steps.
- 2. In the same browser session, go to a different website and click around.
- 3. Go back to the PeopleSoft application.

Results:

- Should have the same results as Test Case 1.
- When the user returns to the PeopleSoft application after browsing another website in the same browser session, the user's session should have been preserved.

Logging

To enable/disable logging in *PSOpenTokenConversion.java*, follow Steps 1 and 2 in *Modifying the PeopleSoft Integration Solution Files*.

To enable/disable logging in the PeopleSoft login page, follow Step 4.c.i.b in *Modifying the PeopleSoft Integration Solution Files*.