

# PingFederate Integration Guide

<b>Description</b>	<b>3</b>
<b>Prerequisites</b>	<b>3</b>
<b>Required Information</b>	<b>3</b>
SAML Metadata	4
SAML Bindings	4
Name Identifier	4
Authentication Context	5
XML Signature	5
XML Encryption	5
<b>Resources and Reference Materials</b>	<b>6</b>
ID.me Button and Brand Guidelines	6
Swagger	6
<b>Steps to Integrate</b>	<b>7</b>
Step 1: Create Developer Account	7
Step 2: Download & Install of PingFederate	7
Step 3: Add an OIDC Identity Provider to PingFederate	7
Step 4: Create a PingFederate Test SP Application [optional]	12
Step 5: Configure JIT Provisioning [optional]	15
Step 6: Customize the Login Page	15
Payload Specification	17
<b>Best Practices</b>	<b>18</b>
Matching	18
Storing User Attributes	19
Using User Attributes	20
Exception Handling	20

# Description

This document will provide our partners with an overview and understanding of ID.me and the implementation with PingFederate.

## Prerequisites

- ☐ Established relationship with ID.me
- ☐ Understanding of the OIDC & SAML protocols
- ☐ Understanding PingFederate and external IdPs
- ☐ Access to the appropriate development environment and resources

## Required Information

### ID.me will provide:

#### OIDC:

- ☐ **IdP Client ID & Client Secret** – The Client ID & Client Secret is leveraged to point to your specific ID.me Organization & Application

#### SAML:

- ☐ **IdP metadata** – The metadata document describes the identity provider (IdP) to the relying party (RP) and includes the following elements
  - ☐ Refer to the SAML Metadata section below

### Your organization will provide:

#### OIDC:

- ☐ **redirect\_uri** – a custom redirect\_uri value to facilitate where ID.me returns the authorization\_code

#### SAML:

- ☐ **SP metadata** – is an XML document which contains information necessary for interaction with **SAML**-enabled identity or service providers. The document contains URLs of endpoints, information about supported bindings, identifiers and public keys.
  - ☐ Refer to the SAML Metadata section below

## SAML Metadata

Once an account is created, SAML metadata (along with keys) must be exchanged to ensure proper configuration of the endpoints.

[Sandbox IdP Metadata](#)

[Production IdP Metadata](#)

**Note: Preserving formatting and whitespace is important when importing any XML metadata.**

The metadata document describes the IdP to a SP, including the following elements:

- ☐ The endpoint addresses for communication
- ☐ The X.509 certificates being used to sign and encrypt SAML assertions
- ☐ The SAML bindings supported by the service provider

## SAML Bindings

The ID.me IdP SAML service supports HTTP POST and HTTP Redirect bindings.

## Name Identifier

The ID.me IdP SAML service supports the following NameID formats:

urn:oasis:names:tc:SAML:2.0:nameid-format:persistent

urn:oasis:names:tc:SAML:2.0:nameid-format:transient

urn:oasis:names:tc:SAML:1.1:nameid-format:unspecified

urn:oasis:names:tc:SAML:1.1:nameid-format:emailAddress

### Best Practice

ID.me recommends `nameid-format:persistent` based on UUID as the UUID within ID.me is a unique identifier which will not change and the other NameID values can vary.

## Authentication Context

The ID.me IdP SAML service supports invoking different authentication and verification policies on a per-application or per-request basis. The policy name is required to be passed along within the AuthnContext.

### Sandbox Example:

#### Note

The following is an IdP initiated SSO example. ID.me strongly recommends an SP initiated SSO where the SP generates the AuthnRequest.

`https://api.idmelabs.com/saml/SingleSignOnService?EntityID=<EntityID>&Binding=<binding>&AuthnContext=<policy-handle>`

Where <policy-handle> would be replaced with the appropriate policy name which is provided by ID.me.

For more information about available policies and support for setting these up, please contact [partnersupport@id.me](mailto:partnersupport@id.me).

SAML is a secure protocol, which supports encryption and message signing. In addition, the HTTP communication security between the SP and the IdP is ensured by using SSL (TLS v1.1 or higher).

## XML Signature

All ID.me SAML messages are digitally signed. This includes all requests, assertions and metadata. The XML signature is contained within the element. The signature serves as proof that only the IdP could have signed the element, and also to guarantee the integrity of the assertion. ID.me signs messages using SHA256, SHA384 and SHA512 algorithms.

## XML Encryption

ID.me requires all SAML assertions to be encrypted. This ensures the privacy of any confidential data contained within the response transmission. The encrypted assertion is contained within the element.

ID.me supports using AES-128, AES-192 and AES-256 as message encryption algorithms.

# Resources and Reference Materials

## ID.me Button and Brand Guidelines

ID.me offers several styles of buttons as well as guidelines for using brand assets.

<https://developers.id.me/brand-assets>

## Swagger

On Swagger, you will find examples of ID.me code, errors and more:

<https://app.swaggerhub.com/search?owner=ID.me>

Multi-factor Authentication:

<https://app.swaggerhub.com/apis/ID.me/multifactor/1.0.0>

Digital Identity Verification:

[https://app.swaggerhub.com/apis/ID.me/digital\\_identity/1.0.0](https://app.swaggerhub.com/apis/ID.me/digital_identity/1.0.0)

# Steps to Integrate

## Step 1: Create Developer Account

Sign up for a developer account at <https://developers.id.me/>. This will enable access to additional developer documentation.

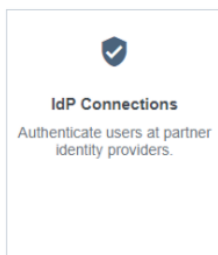
## Step 2: Download & Install of PingFederate

Please refer to the [Ping Identity documentation](#) on how to **download and install** PingFederate, including connecting to your **data store** of choice.

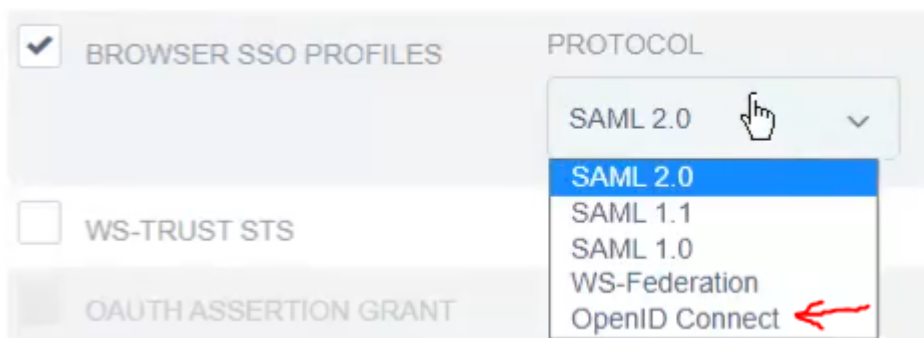
## Step 3: Add an OIDC Identity Provider to PingFederate

- ☐ Log into your PingFederate Admin Portal:  
<https://<hostname>:9999/pingfederate/app#/>
- ☐ Navigate to **Authentication -> IdP Connections**

SHORTCUTS



- ☐ Select **Creation Connection**
- ☐ Select **Browser SSO Profiles** and select **OpenID Connect**



- ☐ Select **Next**
- ☐ Deselect **JIT Provisioning** (*we will do this as a later time*)
- ☐ Select **Next**
- ☐ Enter the **ID.me Issuer**

- ☐ **Sandbox:** <https://api.idmelabs.com/oidc>
- ☐ **Production:** <https://api.id.me/oidc>
- ☐ Select the **Load Metadata** button
- ☐ Enter your desired Connection Name of choice
- ☐ Enter the **Client ID & Client Secret** provided by ID.me or find this by logging into your ID.me Developer Account
- ☐ Select **Next**
- ☐ Select **Configure Browser SSO**
- ☐ Select **IdP-initiated SSO**
- ☐ Select **Next**

- ☐ Select **Configure User-Session Creation** Configure User-Session Creation
- ☐ Select **Account Mapping**
- ☐ Select **Next**
- ☐ Under **Extend the Contract**, enter **Email** and select **Add**

Extend the Contract	Mask Values in Log	Action
email	<input type="checkbox"/>	Add

- ☐ Repeat the previous steps for the ID.me Attributes provided by your ID.me Solutions Consultant, such as: **fname, lname, zip, uuid**

Extend the Contract	Mask Values in Log	Action
email	<input type="checkbox"/>	Edit   Delete
fname	<input type="checkbox"/>	Edit   Delete
lname	<input type="checkbox"/>	Edit   Delete
uuid	<input type="checkbox"/>	Edit   Delete
zip	<input type="checkbox"/>	Edit   Delete
	<input type="checkbox"/>	Add

- ☐ Select **Next**

- ☐ Select **Map New Authentication Policy** Map New Authentication Policy

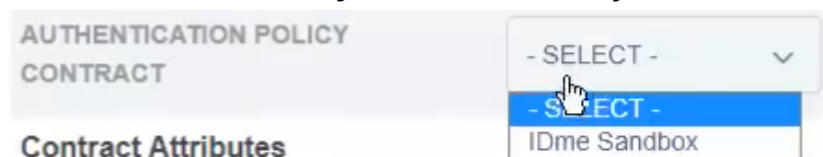
- ☐ Select **Manage Policy Contract** Manage Policy Contracts

- ☐ Select **Create New Contract** Create New Contract
- ☐ Enter your desired **Contract Name**
- ☐ Under **Extend the Contract**, add the **same attributes** entered previously



Extend the Contract	Action
email	<a href="#">Edit</a>   <a href="#">Delete</a>
fname	<a href="#">Edit</a>   <a href="#">Delete</a>
lname	<a href="#">Edit</a>   <a href="#">Delete</a>
uuid	<a href="#">Edit</a>   <a href="#">Delete</a>
zip	<a href="#">Edit</a>   <a href="#">Delete</a>
<input type="text"/>	<a href="#">Add</a>

- ☐ Select **Next**
- ☐ Select **Save**
- ☐ Select **Done**
- ☐ Under **Authentication Policy Contract**, select your new Contract



- ☐ Select **Next**
- ☐ Select **Use Only the Attributes Available in the SSO Assertion**
- ☐ Select **Next**
- ☐ Under **Source**, select **Provider Claims** for each value and map the values 1:1

Authentication Policy Contract	Source	Value ⓘ	Actions
email	<div>Provider Claims ▾</div>	<div>email ▾</div>	None available
fname	<div>Provider Claims ▾</div>	<div>fname ▾</div>	None available
lname	<div>Provider Claims ▾</div>	<div>lname ▾</div>	None available
subject	<div>Provider Claims ▾</div>	<div>sub ▾</div>	None available
uuid	<div>Provider Claims ▾</div>	<div>uuid ▾</div>	None available
zip	<div>Provider Claims ▾</div>	<div>zip ▾</div>	None available

- ☐ Select **Next**
- ☐ **Note:** The Issuance Criteria can be leveraged to create conditional logic to determine whether or not to continue the SSO transaction. In this guide, we will not be configuring an Issuance Criteria
- ☐ Select **Next**

- ☐ Select **Done**
- ☐ Select **Next**
- ☐ Select **Done**
- ☐ Select **Configure User-Session Creation**
- ☐ Select **Done**
- ☐ Select **Next**
- ☐ Select **Configure Protocol**
- ☐ Under **Scopes**, enter **openid <scope>**, replacing <scope> with your ID.me policy

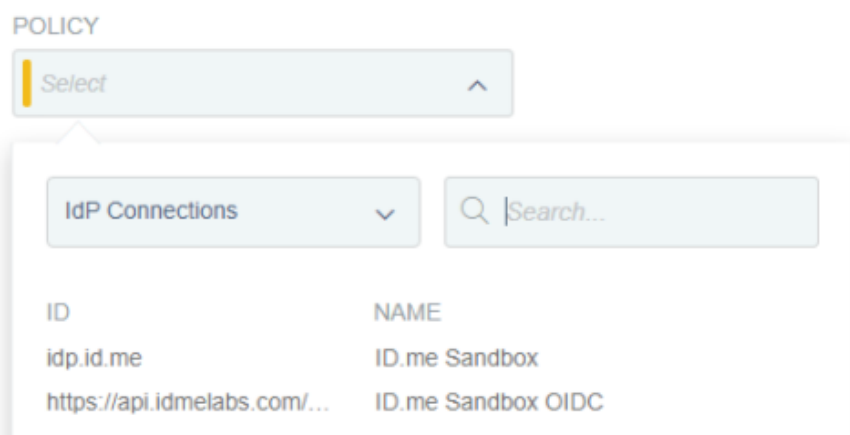
SCOPES

openid login

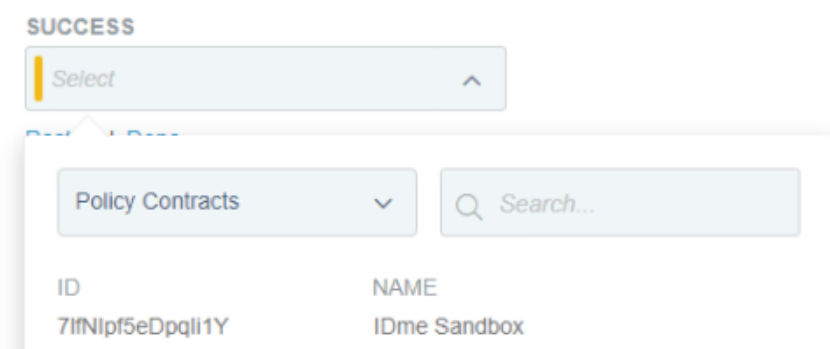
- ☐ Under **Authorization Endpoint**, enter the appropriate ID.me Authorization Endpoint
  - ☐ **Sandbox:** <https://api.idmelabs.com/oauth/authorize>
  - ☐ **Production:** <https://api.id.me/oauth/authorize>
- ☐ Select **Code** for OpenID Connect Login Type
- ☐ Select **Basic** for the Authentication Scheme
- ☐ Under **Token Endpoint**, enter the appropriate ID.me Token Endpoint
  - ☐ **Sandbox:** <https://api.idmelabs.com/oauth/token>
  - ☐ **Production:** <https://api.id.me/oauth/token>
- ☐ Leave **UserInfo Endpoint** blank (*PingFederate currently does not support a JWT OIDC integration*)
- ☐ Under **JWKS URL**, enter the appropriate ID.me Token Endpoint
  - ☐ **Sandbox:** <https://api.idmelabs.com/oidc/.well-known/jwks>
  - ☐ **Production:** <https://api.id.me/oidc/.well-known/jwks>
- ☐ Select **Next**
- ☐ Select **Next**
- ☐ Select **Done**
- ☐ Select **Next**
- ☐ Select **Done**
- ☐ Select **Next**
- ☐ Select **Save**
- ☐ Navigate to **Authentication -> Policies**



- ☐ Select **Add Policy**
- ☐ Enter a **Policy Name** of choice
- ☐ Under **Policy**, Select **IdP Connection** and Select your newly created IdP Connect



- ☐ Under **Fail**, select Done
- ☐ Under **Success**, select the dropdown for Policy Contracts and Select your Contract



- ☐ Select **Contract Mapping**
- ☐ Select **Next**
- ☐ Under **Source**, Select **IdP Connection** and map the appropriate values

Contract Fulfillment	Source	Value ?	Actions
email	IdP Connection (ID.me Sandbox OIDC) ▼	email ▼	None available
fname	IdP Connection (ID.me Sandbox OIDC) ▼	fname ▼	None available
lname	IdP Connection (ID.me Sandbox OIDC) ▼	lname ▼	None available
subject	IdP Connection (ID.me Sandbox OIDC) ▼	sub ▼	None available
uuid	IdP Connection (ID.me Sandbox OIDC) ▼	uuid ▼	None available
zip	IdP Connection (ID.me Sandbox OIDC) ▼	zip ▼	None available

- ☐ Select **Next**
- ☐ Select **Next**
- ☐ Select **Done**
- ☐ Select **Done**
- ☐ Select **Save**
- ☐ Navigate to **Authentication -> IdP Connections** and select your **OIDC Connection**
- ☐ Enter your **Redirect URI** shown here on your **ID.me Developer Account** or send the Redirect URI to your **ID.me Solutions Consultant**

Redirect URI      <https://ryan-pingfederate:9031/sp/eyJpc3MiOiJodHRwczpcL1wvYXBpLmlkbWVsYWJzLmNvbVwvb2lkYyJ9/cb.openid>

## Step 4: Create a PingFederate Test SP Application

### [optional]

This section will walk you through creating a sample SP application to test the ID.me IdP Connection.

- ☐ Navigate to your **PingFederate Admin console**
- ☐ Navigate to **Applications -> SP Connections**



- ☐ Select **Create Connection**
- ☐ Select "Do Not Use a Template for the Connection" and click **Next**

- ☐ Select **Browser SSO Profiles -> SAML 2.0** and click Next
- ☐ For Metadata, select **URL**
- ☐ Select **Manage Partner Metadata URLs**
- ☐ Select **Add New URL** and enter the following details:
  - ☐ **Name:** IAMShowcase
  - ☐ **URL:** https://sptest.iamshowcase.com/testsp\_metadata.xml
- ☐ Select **Load Metadata**
- ☐ Click **Next**
- ☐ Click **Next**
- ☐ Click **Save**
- ☐ Under **Metadata URL**, select **IAMShowcase** and select **Load Metadata**
- ☐ Click **Next**
- ☐ Click **Next**
- ☐ Select **Configure Browser SSO**
- ☐ Check **IdP-Initiated SSO** and **SP-Initiated SSO**
- ☐ Click **Next**
- ☐ Click **Next**
- ☐ Select **Configure Assertion Creation**
- ☐ Select **Next**
- ☐ Enter the following values for **extending the contract** :

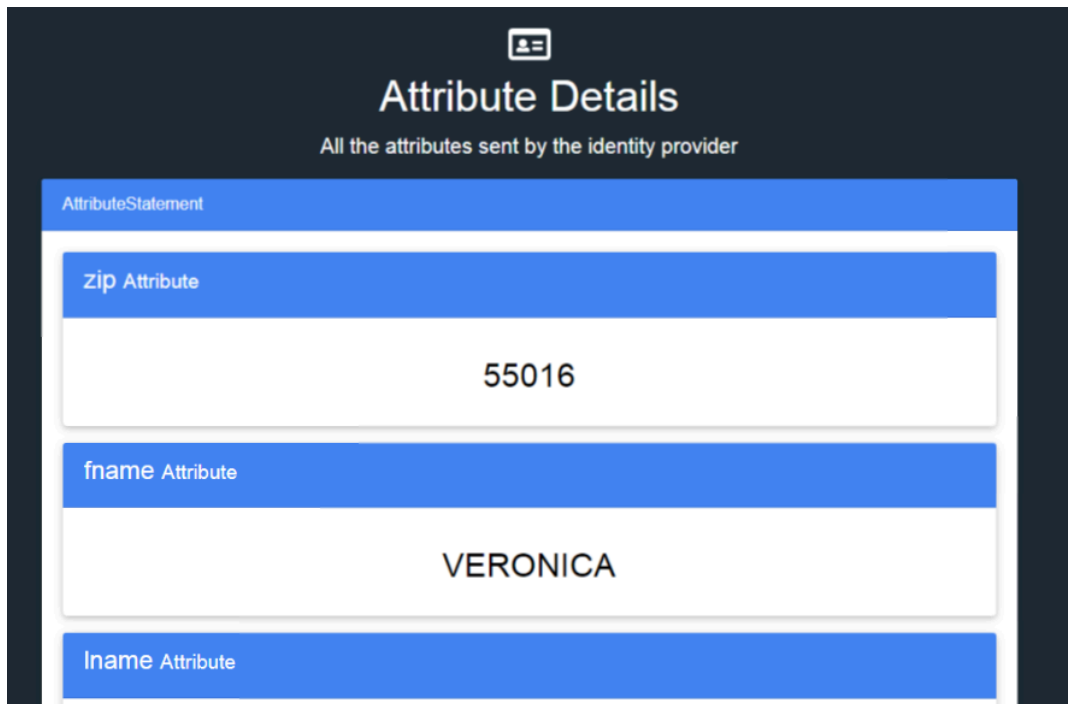
email	urn:oasis:names:tc:SAML:2.0:attrname-format:basic	<a href="#">Edit</a>   <a href="#">Delete</a>
fname	urn:oasis:names:tc:SAML:2.0:attrname-format:basic	<a href="#">Edit</a>   <a href="#">Delete</a>
lname	urn:oasis:names:tc:SAML:2.0:attrname-format:basic	<a href="#">Edit</a>   <a href="#">Delete</a>
uuid	urn:oasis:names:tc:SAML:2.0:attrname-format:basic	<a href="#">Edit</a>   <a href="#">Delete</a>
zip	urn:oasis:names:tc:SAML:2.0:attrname-format:basic	<a href="#">Edit</a>   <a href="#">Delete</a>

*Note: you may want to add additional attributes based on your testing*

- ☐ Select **Next**
- ☐ Select **Map New Adapter Instance**
- ☐ Select **SimpleForm**
- ☐ Click **Next**
- ☐ Click **Next**
- ☐ Under **Source**, select **Adapter** for each attribute contract
- ☐ Select the corresponding **attribute** to each contract, as shown below:

SAML_SUBJECT	Adapter ▾	UUID ▾	None available
email	Adapter ▾	Email ▾	None available
fname	Adapter ▾	First Name ▾	None available
lname	Adapter ▾	Last Name ▾	None available
uuid	Adapter ▾	UUID ▾	None available
zip	Adapter ▾	Zip ▾	None available

- ☐ Click **Next**
- ☐ Click **Next**
- ☐ Click **Done**
- ☐ Click **Next**
- ☐ Click **Done**
- ☐ Click **Next**
- ☐ Click **Configure Protocol Settings**
- ☐ Click **Next**
- ☐ Deselect **Artifact** and **SOAP** (POST and REDIRECT should be checked)
- ☐ Click **Next**
- ☐ Click **Next**
- ☐ Click **Done**
- ☐ Click **Next**
- ☐ Click **Done**
- ☐ Click **Next**
- ☐ Click **Next**
- ☐ Click **Save**
- ☐ Select **IAMShowcase** under **Connection Name**
- ☐ Click the SSO Application Endpoint URL
- ☐ Testing:
  - ☐ Log into ID.me successfully
  - ☐ On the success page, you should see the attributes mapped under Subject Information and Attribute Details



The screenshot shows a web interface titled 'Attribute Details' with a subtitle 'All the attributes sent by the identity provider'. It displays three attributes in a list:

AttributeStatement	
zip Attribute	55016
fname Attribute	VERONICA
lname Attribute	

## Step 5: Configure JIT Provisioning *[optional]*

PingFederate's just-in-time (JIT) provisioning allows service providers (SPs) to create user accounts on the fly during single sign-on (SSO) events, based on attributes received in SSO tokens from identity providers (IdPs).

Just-in-time provisioning is highly dependent based on the user store you configured within your PingFederate environment. As there are many iterations of JIT provisioning, please follow the guide on Ping Identity's website:

[https://docs.pingidentity.com/r/en-us/pingfederate-103/help\\_idpconnectionconfigtasklet\\_userprovisioningstate](https://docs.pingidentity.com/r/en-us/pingfederate-103/help_idpconnectionconfigtasklet_userprovisioningstate)

## Step 6: Customize the Login Page

### How to add the green ID.me Button :

- ☐ Open **File Explorer**
- ☐ Navigate to **C:\Program Files\Ping Identity\pingfederate-11.2.2\pingfederate\server\default\conf\template\assets\images**
- ☐ Save this [button](#) as "**idmebutton.svg**" and upload it to this repository

- ☐ Navigate to **C:\Program Files\Ping Identity\pingfederate-11.2.2\pingfederate\server\default\conf\template**
- ☐ Open **alt-authn-source.template** in a text editor
- ☐ Update **line 44** with the following code snippet:

- ☐ `<a onclick="$methodName('$authSource');" class="ping-button social-media $htmlSafeAuthSource" title='$authSource'></a>`

```

40      #if ($messageKeyPrefix == "html.form.login.template." || $messageKeyPrefix == "local.identity.registration.")
41      #foreach ($authSource in $altAuthSources)
42          #set( $htmlSafeAuthSource = $authSource.replaceAll("[^A-Za-z]+", "").toLowerCase() )
43          <div class="button-container" id="$htmlSafeAuthSource">div' style="display: none">
44              <a onclick="$methodName('$authSource');" class="ping-button social-media $htmlSafeAuthSource" title='$authSource'><img src=
45                  "/assets/images/idmebutton.svg" alt="idme button"></a>
46          </div>
          #end

```

- ☐ Save the **file**
- ☐ Restart your **PingFederate Service**
- ☐ Refresh your **Login Page**, you should see the ID.me button
- ☐ Next, you'll want to update the **dimensions** for the button
- ☐ Navigate to **C:\Program Files\Ping Identity\pingfederate-11.2.2\pingfederate\server\default\conf\template\assets\css**
- ☐ Open **main.css**
- ☐ Navigate to **line 4188: body .button-container .social-media**
- ☐ Change the width to 272px and the height to 52px

```

body .button-container .social-media {
    width: 272px;
    box-sizing: border-box;
    padding: 0 0px 0 5px;
    text-align: left;
    height: 52px;
    border-color: #ffffff;
    color: #ffffff;
    background-repeat: no-repeat;
    background-position: left 10px top 10px;
    background-size: auto 20px;
    cursor: pointer;
    overflow: hidden;
    text-overflow: ellipsis;
    -o-text-overflow: ellipsis;
    -ms-text-overflow: ellipsis;
    white-space: nowrap;
}

```

- ☐ Save the **file**
- ☐ Restart your **PingFederate Service**
- ☐ Refresh your **Login Page**, you should see the ID.me button resized

### How to update the Titles:

- ☐ Open **File Explorer**



- ☐ Navigate to **C:\Program Files\Ping Identity\pingfederate-11.2.2\pingfederate\server\default\conf\language-packs**
- ☐ Open **pingfederate-messages.properties** in a text editor
- ☐ Navigate to the comment: **# html.form.login.template.html**
- ☐ This section is where you can update the **Login Page titles**
  - ☐ The **Social Login title** is under  
html.form.login.template.loginWithButtonTitle={title}
- ☐ To test your changes, **restart the PingFederate Service** and refresh the login page

## Payload Specification

Handle	Name	Max Length	Null Possible?	Comment
email	Email	255	No	
uuid	Unique Identifier	32	No	
fname	First Name	255	<b>Yes</b>	Individuals with only 1 legal name would have that name placed in the Last Name attribute
mname	Middle Name	255	<b>Yes</b>	
lname	Last Name	255	No	
birth_date	Birth Date	10	No	Date format: YYYY-MM-DD
social	Full SSN	9	<b>Yes</b>	
itin	Full ITIN	9	<b>Yes</b>	
ssn_itin	Full SSN or ITIN	9	No	
street	Street	255	No	123 Main St Apt 1a
street1	Street1	255	<b>Yes</b>	123 Main St
street2	Street2	255	<b>Yes</b>	Apt 1a

city	City	255	No	
state	State	255	No	Abbreviation or full state
zip	Zip Code	10	No	US Zip format: 00000, 00000-0000, or 0000000000
phone	Phone	11	<b>Yes</b>	Phone format: 10000000000
identity_subgroups	Identity Subgroup	255	No	Returns ID.me identity policy

#### Note

Additional attributes may be available. Discuss your use case with your ID.me team.

## Best Practices

To efficiently and effectively integrate with ID.me it is recommended to use one of the Web Access Management Software Configurations listed above in the Resources section of this document. Those configurations will allow you to generate SP metadata and be able to ingest IdP metadata with ease vs when attempting a custom SAML implementation the above details must be used when defining and designing the integration.

## Matching

When matching attributes in the ID.me payload to user data on your side, do not rely on a single attribute. Best practice would be to match multiple attributes such as SSN/ITIN, DOB and Last Name. Matching on SSN/ITIN as the first attribute to establish uniqueness, followed by Date of Birth, Last Name, and so on will increase assurance of uniqueness. With Last Name, issues can arise for hyphenated names or legal name changes. If First Name is leveraged, consideration should be taken to allow variations such as Thomas/Tom through the use of fuzzy logic.

Upon subsequent logins from a user, the UUID from ID.me should be incorporated into the logic. Additionally, additional attributes may have been updated. For example, last names may change due to marriage status or legal name changes.

## Storing User Attributes

Storing key attributes about the user is vital to a seamless digital identity verification experience.

It is recommended to store the returned attributes in a separate table within your database with some relation to the user record. Remember, the ID.me provided UUID will remain constant for the life of that user's ID.me account.

When extracting User attributes from JSON it is recommended that the `handle_name` be used to read the attributes. Relying on attribute order is susceptible to errors and issues as the platform and policies evolve.

## Using User Attributes

It is recommended that the user attributes be used to pre-fill information into any additional forms requested in the workflow in the same session to improve UX. Consider locking fields that are pre-filled with attribute data, where appropriate. For example, First Name, Last Name and Social Security Number be locked. A “Preferred Name” field can be leveraged to allow for nicknames. Care should be taken to handle unexpected payload changes such as the addition or removal of an attribute, change in attribute ordering, or an attribute containing an unexpected special character.

## Exception Handling

If the user denies the access request, or if the request is invalid, the client will be informed using the parameters in the following table, appended to the AssertionConsumerService:

<https://developers.id.me/documentation/identity/saml/overview#:~:text=Mode%20to%20users,-ERRORS,-If%20the%20user>

Code	Description
urn:oasis:names:tc:SAML:2.0:status:AuthnFailed	The responding provider was unable to successfully authenticate the principal.
urn:oasis:names:tc:SAML:2.0:status:Requester	The request could not be performed due to an error on the part of the requester.
urn:oasis:names:tc:SAML:2.0:status:Responder	The request could not be performed due to an error on the part of the SAML responder or SAML authority.
urn:oasis:names:tc:SAML:2.0:status:VersionMismatch	The SAML responder could not process the request because the version of the request message was incorrect.
urn:oasis:names:tc:SAML:2.0:status:InvalidAttrNameOrValue	Unexpected or invalid content was encountered within an element.
urn:oasis:names:tc:SAML:2.0:status:InvalidNameIDPolicy	The responding provider cannot or will not support the requested name identifier policy.

urn:oasis:names:tc:SAML:2.0:status:NoAuthnContext	The specified authentication context requirements cannot be met by the responder.
urn:oasis:names:tc:SAML:2.0:status:NoAvailableIDP	Used by an intermediary to indicate that none of the supported identity provider elements in an can be resolved or that none of the supported identity providers are available.
urn:oasis:names:tc:SAML:2.0:status:NoPassive	Indicates the responding provider cannot authenticate the principal passively, as has been requested.
urn:oasis:names:tc:SAML:2.0:status:NoSupportedID	Used by an intermediary to indicate that none of the identity providers in an are supported by the intermediary.
urn:oasis:names:tc:SAML:2.0:status:PartialLogout	Used by a session authority to indicate to a session participant that it was not able to propagate logout to all other session participants.
urn:oasis:names:tc:SAML:2.0:status:ProxyCountExceeded	Indicates that a responding provider cannot authenticate the principal directly and is not permitted to proxy the request further.
urn:oasis:names:tc:SAML:2.0:status:RequestDenied	The SAML responder or SAML authority is able to process the request but has chosen not to respond. This status code MAY be used when there is concern about the security context of the request message or the sequence of request messages received from a particular requester.
urn:oasis:names:tc:SAML:2.0:status:RequestUnsupported	The SAML responder or SAML authority does not support the request.
urn:oasis:names:tc:SAML:2.0:status:RequestVersionDeprecated	The SAML responder cannot process any requests with the protocol version specified in the request.
urn:oasis:names:tc:SAML:2.0:status:RequestVersionTooHigh	The SAML responder cannot process the request because the protocol version specified in the request message is a major upgrade from the highest protocol version supported by the responder.
urn:oasis:names:tc:SAML:2.0:status:RequestVersionTooLow	The SAML responder cannot process the request because the protocol version specified in the request message is too low.

urn:oasis:names:tc:SAML:2.0:status:ResourceNotRecognized	The resource value provided in the request message is invalid or unrecognized.
urn:oasis:names:tc:SAML:2.0:status:TooManyResponses	The response message would contain more elements than the SAML responder is able to return.
urn:oasis:names:tc:SAML:2.0:status:UnknownAttrProfile	An entity that has no knowledge of a particular attribute profile has been presented with an attribute drawn from that profile.
urn:oasis:names:tc:SAML:2.0:status:UnknownPrincipal	The responding provider does not recognize the principal specified or implied by the request.
urn:oasis:names:tc:SAML:2.0:status:UnsupportedBinding	The SAML responder cannot properly fulfill the request using the protocol binding specified in the request.