

# Manual setup of SSO config

This doc will be useful even if doing an import using a Federation Metadata XML URL, as the field mappings are not yet importable, and they can be gleaned in the same way as in the manual setup.

The first thing we need is the Metadata XML file. If provided the URL, visit that page to find the details

We need the following from the XML contents:

- An Entity ID
- A login URL
- An x509 certificate
- Field mappings (1 unique, preferably 1 each for email, first name, last name)

An example XML file is in the code block below (from 1 of our Azure active directories), and we can find the above by searching:

- ``entityID`` - at the top, it is ``entityID="https://sts.windows.net/667d9a8d-34fd-4ea9-99a5-b740e26edaac/"``. We copy ``https://sts.windows.net/667d9a8d-34fd-4ea9-99a5-b740e26edaac/`` (the final forward-slash is important) over to the SSO config
- ``SignInService`` - at the bottom, it is ``<SingleSignInService Binding="urn:oasis:names:tc:SAML:2.0:bindings:HTTP-POST" Location="https://login.microsoftonline.com/667d9a8d-34fd-4ea9-99a5-b740e26edaac/saml2" />``. We copy over ``https://login.microsoftonline.com/667d9a8d-34fd-4ea9-99a5-b740e26edaac/saml2``
- ``X509Certificate`` - near the top, in a truncated form, it is ``<ds:X509Certificate>MIIC8DCCAdigAwIBA...</ds:X509Certificate>``. We copy over the MII... value
- ``ClaimType`` - we have a number of fields here under ClaimType, we want to map 1 that indicates it is unique to ``Unique ID`` our end, and then 1 each for whichever seems like first name, last name and email. Note that if there is no unique ID field, you could probably specify the email field as the unique ID field. In this instance, we do have a unique ID field, so we set up the field mappings:
  - Unique ID - ``http://schemas.xmlsoap.org/ws/2005/05/identity/claims/nameidentifier``
  - First name - ``http://schemas.xmlsoap.org/ws/2005/05/identity/claims/givenname``
  - Last name - ``http://schemas.xmlsoap.org/ws/2005/05/identity/claims/surname``
  - Email - ``http://schemas.xmlsoap.org/ws/2005/05/identity/claims/emailaddress``

```
<?xml version="1.0" encoding="utf-8"?>
<EntityDescriptor ID="_bdf4eff3-677d-403c-a423-f1f87b0d2e0b"
entityID="https://sts.windows.net/667d9a8d-34fd-4ea9-99a5-b740e26edaac/"
```

```
<?xmlns="urn:oasis:names:tc:SAML:2.0:metadata">
  <Signature
    ?xmlns="http://www.w3.org/2000/09/xmldsig#">
    <SignedInfo>
      <CanonicalizationMethod Algorithm="http://www.w3.org/2001/10/xml-exc-c14n#" />
      <SignatureMethod Algorithm="http://www.w3.org/2001/04/xmldsig-more#rsa-sha256" />
      <Reference URI="#_bdf4eff3-677d-403c-a423-f1f87b0d2e0b">
        <<<<Transforms>
          <<<<Transform Algorithm="http://www.w3.org/2000/09/xmldsig#enveloped-signature" />
          <<<<Transform Algorithm="http://www.w3.org/2001/10/xml-exc-c14n#" />
          <<<</Transforms>
          <<<<DigestMethod Algorithm="http://www.w3.org/2001/04/xmlenc#sha256" />
          <<<<DigestValue>qVgiVoBjIPqfd5mkAsKdIHvBesKcG/jm3AbuvzSmX6M=</DigestValue>
          <<<</Reference>
          <<<</SignedInfo>
          <<<<SignatureValue>o3HzUbjf88RoxzNEV6QNhh5jyw+vWtKRxSkqrsLORCH0w+P/DW9vG7sYnCjj66lVK7duHb07SBrI
            +hAeEXmqEkAW0bSd+dQzXhz3fG8JJ0GUaolxgz7J3K8vDkKFnboKR1XLa60YEPLuCh5ehfg3A8STeE0kp5ky+kVU0BBEkG
            ZBKCNEX0cqZh2m6Wembu2C8xS4Ea/M2R64dn03/NKYkcxElvYYjS91HJoYc0MWhl2K6xHY8CCxFgqnHsnXHCNnucKZTp8
            N4kiM4AxSWTaJw+Pwlh3vPgZNFuQuFhIvkAsLRW8kZzlan/CAYxZ5n3qoJhzjZM31u9gJgihyqSwyw==</SignatureVal
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          <<<<KeyInfo>
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                <<<<ds:X509Certificate>MIIC8DCCAdigAwIBAgIQeVvBFEMM35dJLAPSmvEdrzANBgkqhkiG9w0BAQsFADA0MTIwMA
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                  B4K0X5V0YSBxQSh8rVcQ5c9Pg/k1Yg/xf9sVgimCLCEYFAn/LhX7Un2W9x0IS/zTscfLW+X/wloaD+PPMNSkpNh0b403</
                  ds:X509Certificate>
                <<<</ds:X509Data>
                <<<</KeyInfo>
                <<<</Signature>
                <<<<RoleDescriptor xsi:type="fed:SecurityTokenServiceType"
                  protocolSupportEnumeration="http://docs.oasis-open.org/wsfed/federation/200706"
                  ?xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
```

```

<?xml:namespace prefix="fed" http://docs.oasis-open.org/ws-fed/federation/200706">
  <KeyDescriptor use="signing">
    <KeyInfo
      <?xml:namespace prefix="http://www.w3.org/2000/09/xmldsig#">
        <X509Data>
          <X509Certificate>MIIC8DCCAdigAwIBAgIQeVvBFEMM35dJLAPSmvEdrzANBgkqhkiG9w0BAQsFADA0MTIwMAYD
          VQQDEylNaWNYb3NvZnQgQXp1cmUgRmVkZXJhdGVkIFNTTyBDZXJ0aWZpY2F0ZTAeFw0yMTA3MTYxMzQ0MjhaFw0yNDA3MT
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        </X509Data>
      </KeyInfo>
    </KeyDescriptor>
    <fed:ClaimTypesOffered>
      <auth:ClaimType Uri="http://schemas.xmlsoap.org/ws/2005/05/identity/claims/name"
        <?xml:namespace prefix="http://docs.oasis-open.org/ws-fed/authorization/200706">
          <auth:DisplayName>Name</auth:DisplayName>
          <auth:Description>The mutable display name of the user.</auth:Description>
        </auth:ClaimType>
      <auth:ClaimType Uri="http://schemas.xmlsoap.org/ws/2005/05/identity/claims/nameidentifier"
        <?xml:namespace prefix="http://docs.oasis-open.org/ws-fed/authorization/200706">
          <auth:DisplayName>Subject</auth:DisplayName>
          <auth:Description>An immutable, globally unique, non-reusable identifier of the user that is
          unique to the application for which a token is issued.</auth:Description>
        </auth:ClaimType>
      <auth:ClaimType Uri="http://schemas.xmlsoap.org/ws/2005/05/identity/claims/givenname"
        <?xml:namespace prefix="http://docs.oasis-open.org/ws-fed/authorization/200706">
          <auth:DisplayName>Given Name</auth:DisplayName>
          <auth:Description>First name of the user.</auth:Description>
        </auth:ClaimType>
      <auth:ClaimType Uri="http://schemas.xmlsoap.org/ws/2005/05/identity/claims/surname"
        <?xml:namespace prefix="http://docs.oasis-open.org/ws-fed/authorization/200706">
          <auth:DisplayName>Surname</auth:DisplayName>
          <auth:Description>Last name of the user.</auth:Description>

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</auth: ClaimType>
<auth: ClaimType Uri="http://schemas.xmlsoap.org/ws/2005/05/identity/claims/emailaddress"
  xmlns:auth="http://docs.oasis-open.org/wsfed/authorization/200706">
  <auth: DisplayName>Email</auth: DisplayName>
  <auth: Description>Email address of the user.</auth: Description>
</auth: ClaimType>
</fed: ClaimTypesOffered>
<fed: SecurityTokenServiceEndpoint>
  <wsa: EndpointReference
    xmlns:wsa="http://www.w3.org/2005/08/addressing">
    <wsa: Address>https://login.microsoftonline.com/667d9a8d-34fd-4ea9-99a5-
b740e26edaac/wsfed</wsa: Address>
  </wsa: EndpointReference>
</fed: SecurityTokenServiceEndpoint>
<fed: PassiveRequestorEndpoint>
  <wsa: EndpointReference
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b740e26edaac/wsfed</wsa: Address>
  </wsa: EndpointReference>
</fed: PassiveRequestorEndpoint>
</RoleDescriptor>
<RoleDescriptor xsi:type="fed: ApplicationServiceType"
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  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:fed="http://docs.oasis-open.org/wsfed/federation/200706">
  <KeyDescriptor use="signing">
    <KeyInfo
      xmlns="http://www.w3.org/2000/09/xmldsig#">
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</KeyDescriptor>
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</wsa: EndpointReference>
</fed: TargetScopes>
<fed: ApplicationServiceEndpoint>
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    xmlns: wsa="http://www.w3.org/2005/08/addressing">
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  </wsa: EndpointReference>
</fed: ApplicationServiceEndpoint>
<fed: PassiveRequestorEndpoint>
  <wsa: EndpointReference
    xmlns: wsa="http://www.w3.org/2005/08/addressing">
    <wsa: Address>https://login.microsoftonline.com/667d9a8d-34fd-4ea9-99a5-b740e26edaac/wsFed/</wsa: Address>
  </wsa: EndpointReference>
</fed: PassiveRequestorEndpoint>
</RoleDescriptor>
<IDPSSODescriptor protocolSupportEnumeration="urn:oasis:names:tc:SAML:2.0:protocol">
  <KeyDescriptor use="signing">
    <KeyInfo
      xmlns="http://www.w3.org/2000/09/xmldsig#">
      <X509Data>
        <X509Certificate>MIIC8DCCAdigAwIBAgIQeVvBFEMM35dJLAPSmvEdrzANBgkqhkiG9w0BAQsFADA0MTIwMAYD
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```
09Certificate>
<<<</X509Data>
<<<</KeyInfo>
<<<</KeyDescriptor>
<<<<SingleLogoutService Binding="urn:oasis:names:tc:SAML:2.0:bindings:HTTP-Redirect"
Location="https://login.microsoftonline.com/667d9a8d-34fd-4ea9-99a5-b740e26edaac/saml2" />
<<<<SingleSignOnService Binding="urn:oasis:names:tc:SAML:2.0:bindings:HTTP-Redirect"
Location="https://login.microsoftonline.com/667d9a8d-34fd-4ea9-99a5-b740e26edaac/saml2" />
<<<<SingleSignOnService Binding="urn:oasis:names:tc:SAML:2.0:bindings:HTTP-POST"
Location="https://login.microsoftonline.com/667d9a8d-34fd-4ea9-99a5-b740e26edaac/saml2" />
<<<</IDPSSODescriptor>
</EntityDescriptor>
```

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Revision #1

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