

Example of a standard attribute resolver for Shibboleth IdP - Deprecated



Not updated

This best practice is not updated for attribute release based on SWAMIDs new attribute release recommendation.

Check the comments in the XML and replace any values as needed.

attribute-resolver.xml for Shibboleth IDP 3.2.1 and newer

```
<?xml version="1.0" encoding="UTF-8"?>
<resolver:AttributeResolver xmlns:resolver="urn:mace:shibboleth:2.0:resolver" xmlns:xsi="http://www.w3.org/2001
/XMLSchema-instance"
xmlns:pc="urn:mace:shibboleth:2.0:resolver:pc" xmlns:ad="urn:mace:shibboleth:2.0:
resolver:ad"
xmlns:dc="urn:mace:shibboleth:2.0:resolver:dc" xmlns:enc="urn:mace:shibboleth:2.0:
attribute:encoder"
xmlns:sec="urn:mace:shibboleth:2.0:security"
xsi:schemaLocation="urn:mace:shibboleth:2.0:resolver classpath:/schema/shibboleth-
2.0-attribute-resolver.xsd
urn:mace:shibboleth:2.0:resolver:pc classpath:/schema/shibboleth-
2.0-attribute-resolver-pc.xsd
urn:mace:shibboleth:2.0:resolver:ad classpath:/schema/shibboleth-
2.0-attribute-resolver-ad.xsd
urn:mace:shibboleth:2.0:resolver:dc classpath:/schema/shibboleth-
2.0-attribute-resolver-dc.xsd
urn:mace:shibboleth:2.0:attribute:encoder classpath:/schema
/shibboleth-2.0-attribute-encoder.xsd
urn:mace:shibboleth:2.0:security classpath:/schema/shibboleth-
2.0-security.xsd">
  <!-- ===== -->
  <!-- Attribute Definitions -->
  <!-- ===== -->
  <!-- Schema: Core schema attributes-->
<!--
  If you have a Active Directory data source change the sourceAttributeID to sAMAccountName for the following
  attribute.
-->
  <resolver:AttributeDefinition xsi:type="ad:Simple" id="uid" sourceAttributeID="uid">
    <resolver:Dependency ref="myLDAP" />
    <resolver:AttributeEncoder xsi:type="enc:SAML1String" name="urn:mace:dir:attribute-def:uid" />
    <resolver:AttributeEncoder xsi:type="enc:SAML2String" name="urn:oid:0.9.2342.19200300.100.1.1"
friendlyName="uid" />
  </resolver:AttributeDefinition>
  <resolver:AttributeDefinition xsi:type="ad:Simple" id="email" sourceAttributeID="mail">
    <resolver:Dependency ref="myLDAP" />
    <resolver:AttributeEncoder xsi:type="enc:SAML1String" name="urn:mace:dir:attribute-def:mail" />
    <resolver:AttributeEncoder xsi:type="enc:SAML2String" name="urn:oid:0.9.2342.19200300.100.1.3"
friendlyName="mail" />
  </resolver:AttributeDefinition>
  <resolver:AttributeDefinition xsi:type="ad:Simple" id="homePhone" sourceAttributeID="homePhone">
    <resolver:Dependency ref="myLDAP" />
    <resolver:AttributeEncoder xsi:type="enc:SAML1String" name="urn:mace:dir:attribute-def:homePhone" />
    <resolver:AttributeEncoder xsi:type="enc:SAML2String" name="urn:oid:0.9.2342.19200300.100.1.20"
friendlyName="homePhone" />
  </resolver:AttributeDefinition>
  <resolver:AttributeDefinition xsi:type="ad:Simple" id="homePostalAddress" sourceAttributeID="
homePostalAddress">
    <resolver:Dependency ref="myLDAP" />
    <resolver:AttributeEncoder xsi:type="enc:SAML1String" name="urn:mace:dir:attribute-def:
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homePostalAddress" />
  <resolver:AttributeEncoder xsi:type="enc:SAML2String" name="urn:oid:0.9.2342.19200300.100.1.39"
friendlyName="homePostalAddress" />
</resolver:AttributeDefinition>

<resolver:AttributeDefinition xsi:type="ad:Simple" id="mobileNumber" sourceAttributeID="mobile">
  <resolver:Dependency ref="myLDAP" />
  <resolver:AttributeEncoder xsi:type="enc:SAML1String" name="urn:mace:dir:attribute-def:mobile" />
  <resolver:AttributeEncoder xsi:type="enc:SAML2String" name="urn:oid:0.9.2342.19200300.100.1.41"
friendlyName="mobile" />
</resolver:AttributeDefinition>

<resolver:AttributeDefinition xsi:type="ad:Simple" id="pagerNumber" sourceAttributeID="pager">
  <resolver:Dependency ref="myLDAP" />
  <resolver:AttributeEncoder xsi:type="enc:SAML1String" name="urn:mace:dir:attribute-def:pager" />
  <resolver:AttributeEncoder xsi:type="enc:SAML2String" name="urn:oid:0.9.2342.19200300.100.1.42"
friendlyName="pager" />
</resolver:AttributeDefinition>

<resolver:AttributeDefinition xsi:type="ad:Simple" id="commonName" sourceAttributeID="cn">
  <resolver:Dependency ref="myLDAP" />
  <resolver:AttributeEncoder xsi:type="enc:SAML1String" name="urn:mace:dir:attribute-def:cn" />
  <resolver:AttributeEncoder xsi:type="enc:SAML2String" name="urn:oid:2.5.4.3" friendlyName="cn" />
</resolver:AttributeDefinition>

<resolver:AttributeDefinition xsi:type="ad:Simple" id="surname" sourceAttributeID="sn">
  <resolver:Dependency ref="myLDAP" />
  <resolver:AttributeEncoder xsi:type="enc:SAML1String" name="urn:mace:dir:attribute-def:sn" />
  <resolver:AttributeEncoder xsi:type="enc:SAML2String" name="urn:oid:2.5.4.4" friendlyName="sn" />
</resolver:AttributeDefinition>

<resolver:AttributeDefinition xsi:type="ad:Simple" id="locality" sourceAttributeID="l">
  <resolver:Dependency ref="myLDAP" />
  <resolver:AttributeEncoder xsi:type="enc:SAML1String" name="urn:mace:dir:attribute-def:l" />
  <resolver:AttributeEncoder xsi:type="enc:SAML2String" name="urn:oid:2.5.4.7" friendlyName="l" />
</resolver:AttributeDefinition>

<resolver:AttributeDefinition xsi:type="ad:Simple" id="stateProvince" sourceAttributeID="st">
  <resolver:Dependency ref="myLDAP" />
  <resolver:AttributeEncoder xsi:type="enc:SAML1String" name="urn:mace:dir:attribute-def:st" />
  <resolver:AttributeEncoder xsi:type="enc:SAML2String" name="urn:oid:2.5.4.8" friendlyName="st" />
</resolver:AttributeDefinition>

<resolver:AttributeDefinition xsi:type="ad:Simple" id="street" sourceAttributeID="street">
  <resolver:Dependency ref="myLDAP" />
  <resolver:AttributeEncoder xsi:type="enc:SAML1String" name="urn:mace:dir:attribute-def:street" />
  <resolver:AttributeEncoder xsi:type="enc:SAML2String" name="urn:oid:2.5.4.9" friendlyName="street" />
</resolver:AttributeDefinition>

<resolver:AttributeDefinition xsi:type="ad:Simple" id="organizationName" sourceAttributeID="o">
  <resolver:Dependency ref="staticAttributes" />
  <resolver:AttributeEncoder xsi:type="enc:SAML1String" name="urn:mace:dir:attribute-def:o" />
  <resolver:AttributeEncoder xsi:type="enc:SAML2String" name="urn:oid:2.5.4.10" friendlyName="o" />
</resolver:AttributeDefinition>

<resolver:AttributeDefinition xsi:type="ad:Simple" id="organizationalUnit" sourceAttributeID="ou">
  <resolver:Dependency ref="myLDAP" />
  <resolver:AttributeEncoder xsi:type="enc:SAML1String" name="urn:mace:dir:attribute-def:ou" />
  <resolver:AttributeEncoder xsi:type="enc:SAML2String" name="urn:oid:2.5.4.11" friendlyName="ou" />
</resolver:AttributeDefinition>

<resolver:AttributeDefinition xsi:type="ad:Simple" id="title" sourceAttributeID="title">
  <resolver:Dependency ref="myLDAP" />
  <resolver:AttributeEncoder xsi:type="enc:SAML1String" name="urn:mace:dir:attribute-def:title" />
  <resolver:AttributeEncoder xsi:type="enc:SAML2String" name="urn:oid:2.5.4.12" friendlyName="title" />
</resolver:AttributeDefinition>

<resolver:AttributeDefinition xsi:type="ad:Simple" id="postalAddress" sourceAttributeID="postalAddress">
  <resolver:Dependency ref="myLDAP" />
  <resolver:AttributeEncoder xsi:type="enc:SAML1String" name="urn:mace:dir:attribute-def:postalAddress" />
  <resolver:AttributeEncoder xsi:type="enc:SAML2String" name="urn:oid:2.5.4.16" friendlyName="
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postalAddress" />
  </resolver:AttributeDefinition>

  <resolver:AttributeDefinition xsi:type="ad:Simple" id="postalCode" sourceAttributeID="postalCode">
    <resolver:Dependency ref="myLDAP" />
    <resolver:AttributeEncoder xsi:type="enc:SAML1String" name="urn:mace:dir:attribute-def:postalCode" />
    <resolver:AttributeEncoder xsi:type="enc:SAML2String" name="urn:oid:2.5.4.17" friendlyName="postalCode"
  />
  </resolver:AttributeDefinition>

  <resolver:AttributeDefinition xsi:type="ad:Simple" id="postOfficeBox" sourceAttributeID="postOfficeBox">
    <resolver:Dependency ref="myLDAP" />
    <resolver:AttributeEncoder xsi:type="enc:SAML1String" name="urn:mace:dir:attribute-def:postOfficeBox" />
    <resolver:AttributeEncoder xsi:type="enc:SAML2String" name="urn:oid:2.5.4.18" friendlyName="
postOfficeBox" />
  </resolver:AttributeDefinition>

  <resolver:AttributeDefinition xsi:type="ad:Simple" id="telephoneNumber" sourceAttributeID="telephoneNumber">
    <resolver:Dependency ref="myLDAP" />
    <resolver:AttributeEncoder xsi:type="enc:SAML1String" name="urn:mace:dir:attribute-def:telephoneNumber"
  />
    <resolver:AttributeEncoder xsi:type="enc:SAML2String" name="urn:oid:2.5.4.20" friendlyName="
telephoneNumber" />
  </resolver:AttributeDefinition>

  <resolver:AttributeDefinition xsi:type="ad:Simple" id="givenName" sourceAttributeID="givenName">
    <resolver:Dependency ref="myLDAP" />
    <resolver:AttributeEncoder xsi:type="enc:SAML1String" name="urn:mace:dir:attribute-def:givenName" />
    <resolver:AttributeEncoder xsi:type="enc:SAML2String" name="urn:oid:2.5.4.42" friendlyName="givenName"
  />
  </resolver:AttributeDefinition>

  <resolver:AttributeDefinition xsi:type="ad:Simple" id="initials" sourceAttributeID="initials">
    <resolver:Dependency ref="myLDAP" />
    <resolver:AttributeEncoder xsi:type="enc:SAML1String" name="urn:mace:dir:attribute-def:initials" />
    <resolver:AttributeEncoder xsi:type="enc:SAML2String" name="urn:oid:2.5.4.43" friendlyName="initials" />
  </resolver:AttributeDefinition>

  <!-- Schema: inetOrgPerson attributes-->
  <resolver:AttributeDefinition xsi:type="ad:Simple" id="departmentNumber" sourceAttributeID="
departmentNumber">
    <resolver:Dependency ref="myLDAP" />
    <resolver:AttributeEncoder xsi:type="enc:SAML1String" name="urn:mace:dir:attribute-def:
departmentNumber" />
    <resolver:AttributeEncoder xsi:type="enc:SAML2String" name="urn:oid:2.16.840.1.113730.3.1.2"
friendlyName="departmentNumber" />
  </resolver:AttributeDefinition>

  <resolver:AttributeDefinition xsi:type="ad:Simple" id="displayName" sourceAttributeID="displayName">
    <resolver:Dependency ref="myLDAP" />
    <resolver:AttributeEncoder xsi:type="enc:SAML1String" name="urn:mace:dir:attribute-def:displayName" />
    <resolver:AttributeEncoder xsi:type="enc:SAML2String" name="urn:oid:2.16.840.1.113730.3.1.241"
friendlyName="displayName" />
  </resolver:AttributeDefinition>

  <resolver:AttributeDefinition xsi:type="ad:Simple" id="employeeNumber" sourceAttributeID="employeeNumber">
    <resolver:Dependency ref="myLDAP" />
    <resolver:AttributeEncoder xsi:type="enc:SAML1String" name="urn:mace:dir:attribute-def:employeeNumber"
  />
    <resolver:AttributeEncoder xsi:type="enc:SAML2String" name="urn:oid:2.16.840.1.113730.3.1.3"
friendlyName="employeeNumber" />
  </resolver:AttributeDefinition>

  <resolver:AttributeDefinition xsi:type="ad:Simple" id="employeeType" sourceAttributeID="employeeType">
    <resolver:Dependency ref="myLDAP" />
    <resolver:AttributeEncoder xsi:type="enc:SAML1String" name="urn:mace:dir:attribute-def:employeeType" />
    <resolver:AttributeEncoder xsi:type="enc:SAML2String" name="urn:oid:2.16.840.1.113730.3.1.4"
friendlyName="employeeType" />
  </resolver:AttributeDefinition>

  <resolver:AttributeDefinition xsi:type="ad:Simple" id="jpegPhoto" sourceAttributeID="jpegPhoto">

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    <resolver:Dependency ref="myLDAP" />
    <resolver:AttributeEncoder xsi:type="enc:SAML1String" name="urn:mace:dir:attribute-def:jpegPhoto" />
    <resolver:AttributeEncoder xsi:type="enc:SAML2String" name="urn:oid:0.9.2342.19200300.100.1.60"
friendlyName="jpegPhoto" />
  </resolver:AttributeDefinition>

  <resolver:AttributeDefinition xsi:type="ad:Simple" id="preferredLanguage" sourceAttributeID="
preferredLanguage">
    <resolver:Dependency ref="myLDAP" />
    <resolver:AttributeEncoder xsi:type="enc:SAML1String" name="urn:mace:dir:attribute-def:
preferredLanguage" />
    <resolver:AttributeEncoder xsi:type="enc:SAML2String" name="urn:oid:2.16.840.1.113730.3.1.39"
friendlyName="preferredLanguage" />
  </resolver:AttributeDefinition>

  <!-- Schema: eduPerson attributes -->
  <resolver:AttributeDefinition xsi:type="ad:Simple" id="eduPersonAffiliation" sourceAttributeID="
eduPersonAffiliation">
    <resolver:Dependency ref="myLDAP" />
    <resolver:AttributeEncoder xsi:type="enc:SAML1String" name="urn:mace:dir:attribute-def:
eduPersonAffiliation" />
    <resolver:AttributeEncoder xsi:type="enc:SAML2String" name="urn:oid:1.3.6.1.4.1.5923.1.1.1.1"
friendlyName="eduPersonAffiliation" />
  </resolver:AttributeDefinition>

  <resolver:AttributeDefinition xsi:type="ad:Simple" id="eduPersonEntitlement" sourceAttributeID="
eduPersonEntitlement">
    <resolver:Dependency ref="myLDAP" />
    <resolver:AttributeEncoder xsi:type="enc:SAML1String" name="urn:mace:dir:attribute-def:
eduPersonEntitlement" />
    <resolver:AttributeEncoder xsi:type="enc:SAML2String" name="urn:oid:1.3.6.1.4.1.5923.1.1.1.7"
friendlyName="eduPersonEntitlement" />
  </resolver:AttributeDefinition>

  <resolver:AttributeDefinition xsi:type="ad:Simple" id="eduPersonNickname" sourceAttributeID="
eduPersonNickname">
    <resolver:Dependency ref="myLDAP" />
    <resolver:AttributeEncoder xsi:type="enc:SAML1String" name="urn:mace:dir:attribute-def:
eduPersonNickname" />
    <resolver:AttributeEncoder xsi:type="enc:SAML2String" name="urn:oid:1.3.6.1.4.1.5923.1.1.1.2"
friendlyName="eduPersonNickname" />
  </resolver:AttributeDefinition>

  <resolver:AttributeDefinition xsi:type="ad:Simple" id="eduPersonOrgDN" sourceAttributeID="eduPersonOrgDN">
    <resolver:Dependency ref="myLDAP" />
    <resolver:AttributeEncoder xsi:type="enc:SAML1String" name="urn:mace:dir:attribute-def:eduPersonOrgDN"
/>
    <resolver:AttributeEncoder xsi:type="enc:SAML2String" name="urn:oid:1.3.6.1.4.1.5923.1.1.1.3"
friendlyName="eduPersonOrgDN" />
  </resolver:AttributeDefinition>

  <resolver:AttributeDefinition xsi:type="ad:Simple" id="eduPersonOrgUnitDN" sourceAttributeID="
eduPersonOrgUnitDN">
    <resolver:Dependency ref="myLDAP" />
    <resolver:AttributeEncoder xsi:type="enc:SAML1String" name="urn:mace:dir:attribute-def:
eduPersonOrgUnitDN" />
    <resolver:AttributeEncoder xsi:type="enc:SAML2String" name="urn:oid:1.3.6.1.4.1.5923.1.1.1.4"
friendlyName="eduPersonOrgUnitDN" />
  </resolver:AttributeDefinition>

  <resolver:AttributeDefinition xsi:type="ad:Simple" id="eduPersonPrimaryAffiliation" sourceAttributeID="
eduPersonPrimaryAffiliation">
    <resolver:Dependency ref="myLDAP" />
    <resolver:AttributeEncoder xsi:type="enc:SAML1String" name="urn:mace:dir:attribute-def:
eduPersonPrimaryAffiliation" />
    <resolver:AttributeEncoder xsi:type="enc:SAML2String" name="urn:oid:1.3.6.1.4.1.5923.1.1.1.5"
friendlyName="eduPersonPrimaryAffiliation" />
  </resolver:AttributeDefinition>

  <resolver:AttributeDefinition xsi:type="ad:Simple" id="eduPersonPrimaryOrgUnitDN" sourceAttributeID="
eduPersonPrimaryOrgUnitDN">

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        <resolver:Dependency ref="myLDAP" />
        <resolver:AttributeEncoder xsi:type="enc:SAML1String" name="urn:mace:dir:attribute-def:
eduPersonPrimaryOrgUnitDN" />
        <resolver:AttributeEncoder xsi:type="enc:SAML2String" name="urn:oid:1.3.6.1.4.1.5923.1.1.1.8"
friendlyName="eduPersonPrimaryOrgUnitDN" />
    </resolver:AttributeDefinition>

<!--
    Change the scope on the following two attributes to the scope of the IDP.
-->
    <resolver:AttributeDefinition xsi:type="ad:Scoped" id="eduPersonPrincipalName" scope="SCHAC_HOME_ORG"
sourceAttributeID="LdapUserAttr">
        <resolver:Dependency ref="myLDAP" />
        <resolver:AttributeEncoder xsi:type="enc:SAML1ScopedString" name="urn:mace:dir:attribute-def:
eduPersonPrincipalName" />
        <resolver:AttributeEncoder xsi:type="enc:SAML2ScopedString" name="urn:oid:1.3.6.1.4.1.5923.1.1.1.6"
friendlyName="eduPersonPrincipalName" />
    </resolver:AttributeDefinition>

    <resolver:AttributeDefinition xsi:type="ad:Scoped" id="eduPersonScopedAffiliation" scope="SCHAC_HOME_ORG"
sourceAttributeID="eduPersonAffiliation">
        <resolver:Dependency ref="myLDAP" />
        <resolver:AttributeEncoder xsi:type="enc:SAML1ScopedString" name="urn:mace:dir:attribute-def:
eduPersonScopedAffiliation" />
        <resolver:AttributeEncoder xsi:type="enc:SAML2ScopedString" name="urn:oid:1.3.6.1.4.1.5923.1.1.1.9"
friendlyName="eduPersonScopedAffiliation" />
    </resolver:AttributeDefinition>

    <resolver:AttributeDefinition xsi:type="ad:Simple" id="eduPersonAssurance" sourceAttributeID="
eduPersonAssurance">
        <resolver:Dependency ref="myLDAP" />
        <resolver:AttributeEncoder xsi:type="enc:SAML1String" name="urn:mace:dir:attribute-def:
eduPersonAssurance" />
        <resolver:AttributeEncoder xsi:type="enc:SAML2String" name="urn:oid:1.3.6.1.4.1.5923.1.1.1.11"
friendlyName="eduPersonAssurance" />
    </resolver:AttributeDefinition>

    <resolver:AttributeDefinition xsi:type="ad:Simple" id="eduPersonUniqueId" sourceAttributeID="
eduPersonUniqueId">
        <resolver:Dependency ref="myLDAP" />
        <resolver:AttributeEncoder xsi:type="enc:SAML1String" name="urn:mace:dir:attribute-def:
eduPersonUniqueId" />
        <resolver:AttributeEncoder xsi:type="enc:SAML2String" name="urn:oid:1.3.6.1.4.1.5923.1.1.1.13"
friendlyName="eduPersonUniqueId" />
    </resolver:AttributeDefinition>

    <resolver:AttributeDefinition xsi:type="ad:Simple" id="eduPersonOrcid" sourceAttributeID="eduPersonOrcid">
        <resolver:Dependency ref="myLDAP" />
        <resolver:AttributeEncoder xsi:type="enc:SAML1String" name="urn:mace:dir:attribute-def:eduPersonOrcid"
/>
        <resolver:AttributeEncoder xsi:type="enc:SAML2String" name="urn:oid:1.3.6.1.4.1.5923.1.1.1.16"
friendlyName="eduPersonOrcid" />
    </resolver:AttributeDefinition>

<!-- The source for this attribute is from the database StoredId and no longer the classic computedID -->
    <resolver:AttributeDefinition xsi:type="ad:SAML2NameID" id="eduPersonTargetedID"
nameIdFormat="urn:oasis:names:tc:SAML:2.0:nameid-format:persistent"
sourceAttributeID="persistentId">
        <resolver:Dependency ref="StoredId" />
        <resolver:AttributeEncoder xsi:type="enc:SAML1XMLObject" name="urn:oid:1.3.6.1.4.1.5923.1.1.1.10" />
        <resolver:AttributeEncoder xsi:type="enc:SAML2XMLObject" name="urn:oid:1.3.6.1.4.1.5923.1.1.1.10"
friendlyName="eduPersonTargetedID" />
    </resolver:AttributeDefinition>

    <!-- Do NOT use the version of eduPersonTargetedID defined below unless you understand
    why it was deprecated and know that this reason does not apply to you. -->
    <!--
    <resolver:AttributeDefinition xsi:type="ad:Scoped" id="eduPersonTargetedID.old" scope="SCHAC_HOME_ORG"
sourceAttributeID="computedID">
        <resolver:Dependency ref="computedID" />
        <resolver:AttributeEncoder xsi:type="enc:SAML1ScopedString" name="urn:mace:dir:attribute-def:

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eduPersonTargetedID" />
</resolver:AttributeDefinition>
-->

<!-- Schema: norEdu* attributes -->
<resolver:AttributeDefinition id="norEduPersonLegalName" xsi:type="ad:Simple"
    xmlns="urn:mace:shibboleth:2.0:resolver:ad" sourceAttributeID="norEduPersonLegalName">
    <resolver:Dependency ref="myLDAP" />

    <resolver:AttributeEncoder xsi:type="enc:SAML1String"
        xmlns="urn:mace:shibboleth:2.0:attribute:encoder"
        name="urn:mace:dir:attribute-def:norEduPersonLegalName" />

    <resolver:AttributeEncoder xsi:type="enc:SAML2String"
        xmlns="urn:mace:shibboleth:2.0:attribute:encoder"
        name="urn:oid:1.3.6.1.4.1.2428.90.1.10" friendlyName="norEduPersonLegalName" />
</resolver:AttributeDefinition>

<resolver:AttributeDefinition id="norEduPersonNIN" xsi:type="ad:Simple"
    xmlns="urn:mace:shibboleth:2.0:resolver:ad" sourceAttributeID="NiNcRePlAcE">
    <resolver:Dependency ref="myLDAP" />

    <resolver:AttributeEncoder xsi:type="enc:SAML1String"
        xmlns="urn:mace:shibboleth:2.0:attribute:encoder"
        name="urn:mace:dir:attribute-def:norEduPersonNIN" />

    <resolver:AttributeEncoder xsi:type="enc:SAML2String"
        xmlns="urn:mace:shibboleth:2.0:attribute:encoder"
        name="urn:oid:1.3.6.1.4.1.2428.90.1.5" friendlyName="norEduPersonNIN" />
</resolver:AttributeDefinition>

<resolver:AttributeDefinition id="norEduPersonLIN" xsi:type="ad:Simple"
    xmlns="urn:mace:shibboleth:2.0:resolver:ad" sourceAttributeID="norEduPersonLIN">
    <resolver:Dependency ref="myLDAP" />

    <resolver:AttributeEncoder xsi:type="enc:SAML1String" xmlns="urn:mace:shibboleth:2.0:attribute:encoder"
        name="urn:mace:dir:attribute-def:norEduPersonLIN" />

    <resolver:AttributeEncoder xsi:type="enc:SAML2String" xmlns="urn:mace:shibboleth:2.0:attribute:encoder"
        name="urn:oid:1.3.6.1.4.1.2428.90.1.4" friendlyName="norEduPersonLIN" />
</resolver:AttributeDefinition>

<resolver:AttributeDefinition id="norEduOrgAcronym" xsi:type="ad:Simple"
    xmlns="urn:mace:shibboleth:2.0:resolver:ad" sourceAttributeID="norEduOrgAcronym">
    <resolver:Dependency ref="staticAttributes" />

    <resolver:AttributeEncoder xsi:type="enc:SAML1String" xmlns="urn:mace:shibboleth:2.0:attribute:encoder"
        name="urn:mace:dir:attribute-def:norEduOrgAcronym" />

    <resolver:AttributeEncoder xsi:type="enc:SAML2String" xmlns="urn:mace:shibboleth:2.0:attribute:encoder"
        name="urn:oid:1.3.6.1.4.1.2428.90.1.6" friendlyName="norEduOrgAcronym" />
</resolver:AttributeDefinition>

<resolver:AttributeDefinition id="norEduPersonBirthDate" xsi:type="ad:Simple"
    xmlns="urn:mace:shibboleth:2.0:resolver:ad" sourceAttributeID="norEduPersonBirthDate">
    <resolver:Dependency ref="myLDAP" />

    <resolver:AttributeEncoder xsi:type="enc:SAML1String" xmlns="urn:mace:shibboleth:2.0:attribute:encoder"
        name="urn:mace:dir:attribute-def:norEduPersonBirthDate" />

    <resolver:AttributeEncoder xsi:type="enc:SAML2String" xmlns="urn:mace:shibboleth:2.0:attribute:encoder"
        name="urn:oid:1.3.6.1.4.1.2428.90.1.3" friendlyName="norEduPersonBirthDate" />
</resolver:AttributeDefinition>

<resolver:AttributeDefinition id="norEduOrgUniqueIdentifier" xsi:type="ad:Simple"
    xmlns="urn:mace:shibboleth:2.0:resolver:ad" sourceAttributeID="norEduOrgUniqueIdentifier">
    <resolver:Dependency ref="myLDAP" />

    <resolver:AttributeEncoder xsi:type="enc:SAML1String" xmlns="urn:mace:shibboleth:2.0:attribute:encoder"
        name="urn:mace:dir:attribute-def:norEduOrgUniqueIdentifier" />
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        <resolver:AttributeEncoder xsi:type="enc:SAML2String" xmlns="urn:mace:shibboleth:2.0:attribute:encoder"
            name="urn:oid:1.3.6.1.4.1.2428.90.1.7" friendlyName="norEduOrgUniqueIdentifier" />
    </resolver:AttributeDefinition>

    <resolver:AttributeDefinition id="norEduOrgUnitUniqueIdentifier" xsi:type="ad:Simple"
        xmlns="urn:mace:shibboleth:2.0:resolver:ad" sourceAttributeID="
norEduOrgUnitUniqueIdentifier">
        <resolver:Dependency ref="myLDAP" />

        <resolver:AttributeEncoder xsi:type="enc:SAML1String" xmlns="urn:mace:shibboleth:2.0:attribute:encoder"
            name="urn:mace:dir:attribute-def:norEduOrgUnitUniqueIdentifier" />

        <resolver:AttributeEncoder xsi:type="enc:SAML2String" xmlns="urn:mace:shibboleth:2.0:attribute:encoder"
            name="urn:oid:1.3.6.1.4.1.2428.90.1.8" friendlyName="norEduOrgUnitUniqueIdentifier" />
    </resolver:AttributeDefinition>

    <resolver:AttributeDefinition id="norEduOrgNIN" xsi:type="ad:Simple"
        xmlns="urn:mace:shibboleth:2.0:resolver:ad" sourceAttributeID="norEduOrgNIN">
        <resolver:Dependency ref="myLDAP" />

        <resolver:AttributeEncoder xsi:type="enc:SAML1String" xmlns="urn:mace:shibboleth:2.0:attribute:encoder"
            name="urn:mace:dir:attribute-def:norEduOrgNIN" />

        <resolver:AttributeEncoder xsi:type="enc:SAML2String" xmlns="urn:mace:shibboleth:2.0:attribute:encoder"
            name="urn:oid:1.3.6.1.4.1.2428.90.1.12" friendlyName="norEduOrgNIN" />
    </resolver:AttributeDefinition>

    <resolver:AttributeDefinition id="norEduOrgUniqueNumber" xsi:type="ad:Simple"
        xmlns="urn:mace:shibboleth:2.0:resolver:ad" sourceAttributeID="norEduOrgUniqueNumber">
        <resolver:Dependency ref="myLDAP" />

        <resolver:AttributeEncoder xsi:type="enc:SAML1String" xmlns="urn:mace:shibboleth:2.0:attribute:encoder"
            name="urn:mace:dir:attribute-def:norEduOrgUniqueNumber" />

        <resolver:AttributeEncoder xsi:type="enc:SAML2String" xmlns="urn:mace:shibboleth:2.0:attribute:encoder"
            name="urn:oid:1.3.6.1.4.1.2428.90.1.1" friendlyName="norEduOrgUniqueNumber" />
    </resolver:AttributeDefinition>

    <resolver:AttributeDefinition id="norEduOrgUnitUniqueNumber" xsi:type="ad:Simple"
        xmlns="urn:mace:shibboleth:2.0:resolver:ad" sourceAttributeID="norEduOrgUnitUniqueNumber">
        <resolver:Dependency ref="myLDAP" />

        <resolver:AttributeEncoder xsi:type="enc:SAML1String" xmlns="urn:mace:shibboleth:2.0:attribute:encoder"
            name="urn:mace:dir:attribute-def:norEduOrgUnitUniqueNumber" />

        <resolver:AttributeEncoder xsi:type="enc:SAML2String" xmlns="urn:mace:shibboleth:2.0:attribute:encoder"
            name="urn:oid:1.3.6.1.4.1.2428.90.1.2" friendlyName="norEduOrgUnitUniqueNumber" />
    </resolver:AttributeDefinition>

    <!-- Country name -->
    <resolver:AttributeDefinition id="friendlyCountryName" xsi:type="Simple"
        xmlns="urn:mace:shibboleth:2.0:resolver:ad" sourceAttributeID="co">
        <resolver:Dependency ref="staticAttributes" />
        <resolver:AttributeEncoder xsi:type="enc:SAML1String" name="urn:mace:dir:attribute-def:co" />
        <resolver:AttributeEncoder xsi:type="enc:SAML2String" name="urn:oid:0.9.2342.19200300.100.1.43"
friendlyName="co" />
    </resolver:AttributeDefinition>

    <!-- Country ISO-3166 code -->
    <resolver:AttributeDefinition id="countryName" xsi:type="Simple"
        xmlns="urn:mace:shibboleth:2.0:resolver:ad" sourceAttributeID="c">
        <resolver:Dependency ref="staticAttributes" />
        <resolver:AttributeEncoder xsi:type="SAML1String" xmlns="urn:mace:shibboleth:2.0:attribute:encoder"
            name="urn:mace:dir:attribute-def:c" />
        <resolver:AttributeEncoder xsi:type="SAML2String" xmlns="urn:mace:shibboleth:2.0:attribute:encoder"
            name="urn:oid:2.5.4.6" friendlyName="c" />
    </resolver:AttributeDefinition>

    <resolver:AttributeDefinition id="schacHomeOrganization" xsi:type="Simple"

```

```

        xmlns="urn:mace:shibboleth:2.0:resolver:ad" sourceAttributeID="schacHomeOrganization">
<resolver:Dependency ref="staticAttributes" />
<resolver:AttributeEncoder xsi:type="SAML1String" xmlns="urn:mace:shibboleth:2.0:attribute:encoder"
    name="urn:mace:dir:attribute-def:schacHomeOrganization" />
<resolver:AttributeEncoder xsi:type="SAML2String" xmlns="urn:mace:shibboleth:2.0:attribute:encoder"
    name="urn:oid:1.3.6.1.4.1.25178.1.2.9" friendlyName="schacHomeOrganization" />
</resolver:AttributeDefinition>

<resolver:AttributeDefinition id="schacHomeOrganizationType" xsi:type="Simple"
    xmlns="urn:mace:shibboleth:2.0:resolver:ad" sourceAttributeID="schacHomeOrganizationType">
<resolver:Dependency ref="staticAttributes" />
<resolver:AttributeEncoder xsi:type="SAML1String" xmlns="urn:mace:shibboleth:2.0:attribute:encoder"
    name="urn:mace:dir:attribute-def:schacHomeOrganizationType" />
<resolver:AttributeEncoder xsi:type="SAML2String" xmlns="urn:mace:shibboleth:2.0:attribute:encoder"
    name="urn:oid:1.3.6.1.4.1.25178.1.2.10" friendlyName="schacHomeOrganizationType" />
</resolver:AttributeDefinition>

<resolver:AttributeDefinition id="principal" xsi:type="PrincipalName" xmlns="urn:mace:shibboleth:2.0:
resolver:ad">
<resolver:AttributeEncoder xsi:type="enc:SAML2StringNameID" xmlns="urn:mace:shibboleth:2.0:attribute:
encoder"
    nameFormat="urn:oasis:names:tc:SAML:1.1:nameid-format:unspecified" />
</resolver:AttributeDefinition>

<!-- Name Identifier related attributes -->
<!-- As of Shibboleth 3.2.0 this is handled in saml-nameid.xml
<resolver:AttributeDefinition id="transientId" xsi:type="ad:TransientId">
<resolver:AttributeEncoder xsi:type="enc:SAML1StringNameIdentifier" nameFormat="urn:mace:shibboleth:1.0:
nameIdentifier"/>
<resolver:AttributeEncoder xsi:type="enc:SAML2StringNameID" nameFormat="urn:oasis:names:tc:SAML:2.0:
nameid-format:transient"/>
</resolver:AttributeDefinition>
-->

<!-- ===== -->
<!--      Data Connectors      -->
<!-- ===== -->

<!--
Example LDAP Connector

The connectivity details can be specified in ldap.properties to
share them with your authentication settings if desired.

If you have a Active Directory data source change the string "uid" in the filterTemplate to "sAMAccountName"
-->
<resolver:DataConnector id="myLDAP" xsi:type="dc:LDAPDirectory"
    ldapURL="%{idp.attribute.resolver.LDAP.ldapURL}"
    baseDN="%{idp.attribute.resolver.LDAP.baseDN}"
    principal="%{idp.attribute.resolver.LDAP.bindDN}"
    principalCredential="%{idp.attribute.resolver.LDAP.bindDNCredential}">
<dc:FilterTemplate>
    <![CDATA[
        (uid=${requestContext.principalName})
    ]]>
</dc:FilterTemplate>
<dc:StartTLSTrustCredential id="LDAPtoIdPCredential" xsi:type="sec:X509ResourceBacked">
    <sec:Certificate>%{idp.attribute.resolver.LDAP.trustCertificates}</sec:Certificate>
</dc:StartTLSTrustCredential>
</resolver:DataConnector>

<!-- Static data connector for organization -->
<!--
Update the following attributes to the correct values for your organization
-->
<resolver:DataConnector id="staticAttributes" xsi:type="dc:Static" xmlns="urn:mace:shibboleth:2.0:resolver:
dc">
<Attribute id="o">
    <Value>ORGANIZATION_NAME</Value>

```



```

</Attribute>
<Attribute id="norEduOrgAcronym">
  <Value>ORGANIZATION_ACRONYM</Value>
</Attribute>
<Attribute id="c">
  <Value>ISO_COUNTRY_CODE</Value>
</Attribute>
<Attribute id="co">
  <Value>ISO_COUNTRY_NAME</Value>
</Attribute>
<Attribute id="schacHomeOrganization">
  <Value>SCHAC_HOME_ORG_DOMAIN_NAME</Value>
</Attribute>
<Attribute id="schacHomeOrganizationType">
  <Value>urn:schac:homeOrganizationType:eu:higherEducationInstitution</Value>
<!-- This value is for EU higher education institution, other allowed values are:
  - urn:schac:homeOrganizationType:eu:educationInstitution
  - urn:schac:homeOrganizationType:int:NREN
  - urn:schac:homeOrganizationType:int:universityHospital
  - urn:schac:homeOrganizationType:int:NRENAffiliate
  - urn:schac:homeOrganizationType:int:other
-->
-->
  </Attribute>
</resolver:DataConnector>

<!-- Computed targeted ID connector -->
<!--
<resolver:DataConnector xsi:type="dc:ComputedId"
  id="computedID"
  generatedAttributeID="computedID"
  sourceAttributeID="uid"
  salt="your random string here">
  <resolver:Dependency ref="myLDAP" />
</resolver:DataConnector>
-->

<!--
This connector relies on global.xml for the Managed connection to the db.
If you have a Active Directory data source change the sourceAttributeID to sAMAccountName
-->
<resolver:DataConnector id="StoredId"
  xsi:type="StoredId"
  xmlns="urn:mace:shibboleth:2.0:resolver:dc"
  generatedAttributeID="persistentId"
  sourceAttributeID="uid"
  salt="your random string here">
  <resolver:Dependency ref="uid" />

  <dc:BeanManagedConnection>MyGlobalDataSource</dc:BeanManagedConnection>

</resolver:DataConnector>

<!-- ===== -->
<!-- Principal Connectors -->
<!-- ===== -->
<!--
Principal Connectors for shibTransient, saml1Unspec, saml2Transient are now taken care of in saml-nameid.xml
-->

</resolver:AttributeResolver>

```