

X509SubjectNameNameIdentifierMapping

Class X509SubjectNameNameIdentifierMapping

This class is an implementation of interface Shibboleth.NameIdentifierMapping:

```
package edu.internet2.middleware.shibboleth.common.provider;
public class X509SubjectNameNameIdentifierMapping extends GridShibBaseNameIdentifierMapping;
```

Class X509SubjectNameNameIdentifierMapping is an implementation of urn:oasis:names:tc:SAML:1.1:nameid-format:X509SubjectName, which is a standard Shibboleth.NameIdentifierFormat defined by SAML 1.1. The implementation produces DNSs algorithmically, and so the resulting identifiers are persistent insofar as the variable quantities (such as =%PRINCIPAL%=) used to compute the DNSs are persistent.

To configure the use of this implementation, an IdP would insert a suitably configured NameMapping element into its config file (idp.xml):

```
<!-- X509SubjectNameNameIdentifierMapping configuration -->
<NameMapping
  xmlns="urn:mace:shibboleth:namemapper:1.0"
  id="x509"
  format="urn:oasis:names:tc:SAML:1.1:nameid-format:X509SubjectName"
  regex="uid=([^\,/\]+)"
  qualifier="https://idp.example.org/shibboleth"
  internalNameContext="uid=%PRINCIPAL%"
  class="edu.internet2.middleware.shibboleth.common.provider.X509SubjectNameNameIdentifierMapping"/>
```

The default implementation of X509SubjectNameNameIdentifierMapping is [somewhat lacking](#), however. In the interim, we have provided GridShibX509SubjectNameNameIdentifierMapping:

```
<!-- GridShibX509SubjectNameNameIdentifierMapping configuration -->
<NameMapping
  xmlns="urn:mace:shibboleth:namemapper:1.0"
  id="x509"
  format="urn:oasis:names:tc:SAML:1.1:nameid-format:X509SubjectName"
  class="edu.internet2.middleware.shibboleth.common.provider.GridShibX509SubjectNameNameIdentifierMapping"/>
```

The omitted attributes default to reasonable values, otherwise GridShibX509SubjectNameNameIdentifierMapping is wholly backwards compatible with its predecessor.

TODO Deprecate attribute internalNameContext. Change attribute name to template.

TODO Register a class that enforces the X509SubjectName format specified by SAML 1.1, which mirrors the syntax of the XML Digital Signature element X509SubjectName. XML-DSig says that X509SubjectName SHOULD comply with RFC 2253, so the class MUST enforce the [XML-DSig encoding rules](#) while the implementation enforces [RFC 2253](#). (Search the [XML-DSig public archives](#) for string "X509SubjectName" to understand the issues involved.)