Overview

**eduPerson Principal Name (eppn)** is a user identifier attribute defined in the `eduPerson` LDAP object class. It is a scoped identifier for a person. As this identifier is often used by humans to identify the person it represents, ePPN values are often, but not required to be, human-friendly, and may change as a result of various business processes.

<table>
<thead>
<tr>
<th>OID</th>
<th>1.3.6.1.4.1.5923.1.1.1.6</th>
</tr>
</thead>
<tbody>
<tr>
<td>LDAP Syntax</td>
<td>Directory String</td>
</tr>
<tr>
<td># of Values</td>
<td>multi-valued</td>
</tr>
<tr>
<td>References</td>
<td>eduPerson</td>
</tr>
</tbody>
</table>

Use in the InCommon Federation

**eppn** is supported in the InCommon Federation. It is widely used in InCommon as well as in global R&E federations.

**eppn** satisfies the REFEDS Research & Scholarship (R&S) entity category’s requirement for a shared user identifier if it is non-assigned. If an eppn can be re-assigned, it must be sent along with **eduPerson TargetedID** to satisfy R&S’s requirement for shared user identifier.

**IMPORTANT:** an eppn is not an email address.

While an eppn's format appears similar to that of an email address, implementors MUST NOT assume that an eppn is a routable email address. If a service requires a user’s email address, it MUST request it via a separate `mail` attribute.

### SAML Response Example

```xml
<xs:samlp:Response xmlns:xsamlp="urn:oasis:names:tc:SAML:2.0:protocol"
    xmlns:xsaml="urn:oasis:names:tc:SAML:2.0:assertion"
    ID="..." Version="2.0" IssueInstant="2020-07-17T01:01:48Z"
    Destination="...." InResponseTo="...">
    ...
    <xs:samlp:Assertion ...
    ...
    <xs:samlp:AttributeStatement>
        <xs:samlp:Attribute>
            Name="urn:oasis:names:tc:SAML:2.0:profiles:X500"
            NameFormat="urn:oasis:names:tc:SAML:2.0:attrname-format:uri"
            FriendlyName="eduPersonPrincipalName"
            x500:Encoding="LDAP">
                <xs:samlp:AttributeValue xsi:type="xsd:string">mjc@example.edu</xs:samlp:AttributeValue>
            </xs:samlp:Attribute>
        ...
    </xs:samlp:AttributeStatement>
</xs:samlp:Assertion>
</xs:samlp:Response>
```
See Also

- eduPersonTargetedID
- user-attr-eppn
- SAML General Purpose Subject Identifier (subject-id)
- SAML Pairwise Subject Identifier (pairwise-id)
- Understanding Federated User Identifiers