Overview

**eduPersonPrincipalName (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 shard 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
<samlp:Response xmlns:samlp="urn:oasis:names:tc:SAML:2.0:protocol"
            xmlns:saml="urn:oasis:names:tc:SAML:2.0:assertion"
            ID="..." Version="2.0" IssueInstant="2020-07-17T01:01:48Z"
            Destination="...." InResponseTo="...">
  ...
  <saml:Assertion ...>
    ...
    <saml:Attribute xmlns:x500="urn:oasis:names:tc:SAML:2.0:profiles:attribute:X500">
      NameFormat="urn:oasis:names:tc:SAML:2.0:attrname-format:uri"
      Name="urn:oid:1.3.6.1.4.1.5923.1.1.1.6"
      FriendlyName="eduPersonPrincipalName"
      x500:Encoding="LDAP">
        <saml:AttributeValue xsi:type="xsd:string">mjc@example.edu</saml:AttributeValue>
      </saml:Attribute>
    </saml:Attribute>
  </saml:Assertion>
</samlp:Response>
```
See Also

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