REFEDS Attribute Registry

User Identifier

FriendlyName: refedsUserID
Name: http://refeds.org/attribute/refedsUserID

An **User Identifier** is a persistent, non-reassigned identifier.

An Identity Provider (or Attribute Authority) is said to **release a User Identifier** when it releases at least one of the following attributes on the wire:

1. eduPersonTargetedID
2. eduPersonUniqueID
3. eduPersonPrincipalName (if non-reassigned)

A Service Provider is said to **request a User Identifier** when it does so directly, as shown in the following example.

**Example**

Here is an example of an abstract User Identifier requested in Service Provider metadata:

```xml
<md:RequestedAttribute FriendlyName="refedsUserID"
    Name="http://refeds.org/attribute/refedsUserID"
    NameFormat="urn:oasis:names:tc:SAML:2.0:attrname-format:uri"/>
```

Non-Private User Identifier

FriendlyName: refedsNonPrivateUserID
Name: http://refeds.org/attribute/refedsNonPrivateUserID

A **Non-Private User Identifier** is a persistent, non-reassigned, non-targeted identifier.

An Identity Provider (or Attribute Authority) is said to **release a Non-Private User Identifier** when it releases at least one of the following attributes (or attribute combinations) on the wire:

1. eduPersonUniqueID
2. eduPersonPrincipalName (if non-reassigned)

A Service Provider is said to **request a Non-Private User Identifier** when it requests the `eduPersonUniqueID` attribute in metadata or a query. Alternatively, a Service Provider may request a Non-Private User Identifier directly, as shown in the following example.

**Example**

Here is an example of an abstract Non-Private User Identifier requested in Service Provider metadata:

```xml
<md:RequestedAttribute FriendlyName="refedsNonPrivateUserID"
    Name="http://refeds.org/attribute/refedsNonPrivateUserID"
    NameFormat="urn:oasis:names:tc:SAML:2.0:attrname-format:uri"/>
```

Person Name

FriendlyName: refedsPersonName
Name: http://refeds.org/attribute/refedsPersonName
A **Person Name** is a human-readable name for the person (or subject) involved in a federated transaction.

An Identity Provider (or Attribute Authority) is said to **release a Person Name** when it releases at least one of the following attributes (or attribute combinations) on the wire:

1. `displayName`
2. `givenName + sn (surname)`

A Service Provider is said to **request a Person Name** when it requests the `displayName` attribute in metadata or a query. Alternatively, a Service Provider may request a Person Name directly, as shown in the following example.

**Example**

Here is an example of an abstract Person Name requested in Service Provider metadata:

```xml
<md:RequestedAttribute FriendlyName="refedsPersonName"
   Name="http://refeds.org/attribute/refedsPersonName"
   NameFormat="urn:oasis:names:tc:SAML:2.0:attrname-format:uri"/>
```

### Email Address

**FriendlyName:** refedsEmailAddress  
**Name:** http://refeds.org/attribute/refedsEmailAddress

An **Email Address** is an electronic mail address for the person (or subject) involved in a federated transaction. By definition, an Email Address is synonymous with the `mail` attribute.

An Identity Provider (or Attribute Authority) is said to **release an Email Address** when it releases the `mail` attribute on the wire. A Service Provider is said to **request an Email Address** when it requests the `mail` attribute in metadata or a query. Alternatively, a Service Provider may request an Email Address directly, as shown in the following example.

**Example**

Here is an example of an abstract Email Address requested in Service Provider metadata:

```xml
<md:RequestedAttribute FriendlyName="refedsEmailAddress"
   Name="http://refeds.org/attribute/refedsEmailAddress"
   NameFormat="urn:oasis:names:tc:SAML:2.0:attrname-format:uri"/>
```