REFEDS Attribute Registry

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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
**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**

Friendly Name: `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"/>
```