# Tagging an entity with Research and Scholarship entity attribute

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Tagging a service provider | Tagging an identity provider | Further Reading

This article describes mechanics of tagging an entity in SAML metadata. See Research and Scholarship category for an introduction.

To register your entity for Research and Scholarship (R&S) category, see:

#### For identity provider

Support Research and Scholarship category in identity provider

#### For service provider

Apply for Research and Scholarship category for service provider

The http://refeds.org/category/research-and-scholarship entity attribute expresses qualification or support for the Research & Scholarship (R&S) entity category, service providers (SP) and identity providers (IdP) in the SAML metadata. Because of the semantic differences (an IdP "supports" R&S, where as a SP "qualifies" for R&S), the entity attribute is placed in slightly different places in the metadata:

# Tagging a service provider

A service provider satisfying the requirements of the REFEDS R&S Entity category qualifies for, or is a member of the Research and Scholarship entity category. In SAML metadata, this is expressed by adding a <saml:Attribute> name value pair with the attribute name of http://macedir.org/entity-category and attribute value of http://refeds.org/category/research-and-scholarship to the SP's metadata.

The semantics of entity attribute names are specified in The Entity Category SAML Entity Metadata Attribute Type (draft-macedir-entity-attribute-00.xml).

For backwards compatibility, an R&S SP also carries the legacy InCommon-only R&S entity attribute value (http://id.incommon.org/category/research-and-scholarship). Every InCommon registered R&S SP has the following multivalued entity attribute in metadata:

### A multivalued entity attribute for R&S SPs

```
<mdattr:EntityAttributes
       xmlns:mdattr="urn:oasis:names:tc:SAML:metadata:attribute">
 <!-- multivalued entity attribute for R&amp; S SPs -->
 <saml:Attribute</pre>
        xmlns:saml="urn:oasis:names:tc:SAML:2.0:assertion"
        NameFormat="urn:oasis:names:tc:SAML:2.0:attrname-format:uri"
       Name="http://macedir.org/entity-category">
    <!-- the incommon.org R&amp; S entity attribute value -->
    <saml:AttributeValue>
       http://id.incommon.org/category/research-and-scholarship
     </saml:AttributeValue>
     <!-- the refeds.org R&amp; S entity attribute value -->
     <saml:AttributeValue>
       http://refeds.org/category/research-and-scholarship
    </saml:AttributeValue>
 </saml:Attribute>
</mdattr:EntityAttributes>
```

# **(i)**

#### Legacy InCommon-only R&S entity attribute is not exported to eduGAIN

In addition to being deprecated, the http://id.incommon.org/category/research-and-scholarship entity attribute value was only used in the InCommon Federation. It is filtered and excluded from SP metadata exported to eduGAIN. Only the REFEDS R&S entity attribute value is exported to eduGAIN.

### Related content

- Entity Categories
- InCommon-Only Research and Scholarship category (deprecated)
- REFEDS Research and Scholarship category
- Service provider apply for Research and Scholarship category
- Research and Scholarship FAQ
- Tagging an entity with Research and Scholarship entity attribute
- Registered by InCommon category
- Configure IdP to release R and S attributes
- Sirtfi category
- Hide an identity provider from discovery

## Get help

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## Managing the SP R&S entity attribute

The InCommon Federation operator is the registration authority responsible for tagging qualifying SP's with R&S entity attribute. Other than qualifying and applying for Research and Scholarship category for service provider, there is nothing an SP operator needs to do to manage this entity attribute.

## Tagging an identity provider

A identity provider (IdP) satisfying the requirements of the REFEDS R&S entity category is said to "support" Research and Scholarship entity category. In SAML metadata, this is expressed by adding a <saml:Attribute> name value pair with the attribute name of http://macedir.org/entity-category-support and attribute value of http://refeds.org/category/research-and-scholarship to the SP's metadata.

An IdP asserting the REFEDS R&R entity attribute value agrees to release the R&S attribute bundle to **all** R&S SPs, including R&S SPs in other federations.

#### An entity attribute for IdPs that support all R&S SPs globally

## Legacy InCommon-only R&S entity attribute

A deprecated, InCommon-only R&S entity attribute (http://id.incommon.org/category/research-and-scholarship) expresses similar support for R&S attribute release, but only to to R&S SPs registered by InCommon only.

#### An entity attribute for IdPs that support R&S SPs registered by InCommon only

Although it is exported to eduGAIN in an IdP's metadata, the InCommon-only R&S entity attribute value has no recognized meaning outside the InCommon Federation. Only IdPs that release attributes to **all** R&S SPs globally and tagged with the REFEDS R&S entity attribute value are recognized as R&S IdPs by the international R&E community.

# Syntax implications

The R&S entity attribute in IdP metadata is single-valued, whic means an IdP can only support one R&S entity attribute (either REFEDS or InCommon-only) at a time. This decision affects service providers.

An SP that depends on the R&S entity attribute in IdP metadata must take into account the fact that an R&S IdP will carry either the InCommon-only R&S entity attribute or the REFEDS R&S entity attribute but **not both**.

To maintain backward compatibility during transition to use the global (REFEDS) R&S entity attribute, the InCommon Federation automatically tags its registered R&S SP with both values so that InCommon Federation registered R&S SP automatically receives attributes from either type of R&S IdP.

In other words, if an SP deployment is configured to recognize the incommon.org R&S tag in IdP metadata, it should be configured to recognize the refeds.org R&S tag as well.

## Managing the IdP R&S entity attribute

The IdP owner is authoritative for the R&S entity attribute. An IdP indicates its willingness and ability to support R&S following steps outlined in Identity provider - support Research and Scholarship.

# **Further Reading**

The Entity Category SAML Entity Metadata Attribute Type (draft-macedir-entity-attribute-00.xml)

REFEDS Research and Scholarship entity category specification

Identity provider - support Research and Scholarship

Service provider - apply for Research and Scholarship category

Research and Scholarship FAQ

Comparing REFEDS and InCommon-only R and S categories