

# Applying the Registered By InCommon Category

This page shows some sample Shibboleth IdP configurations that leverage the proposed [Registered By InCommon Category](#).



This document contains DRAFT material intended for discussion and comment by the InCommon participant community. Comments and questions should be sent to the [InCommon participants mailing list \(participants@incommon.org\)](mailto:participants@incommon.org).

## Releasing the Essential Attribute Bundle

A Shibboleth IdP uses type `basic:ANY` to activate a policy for **any** requester. For example, here's a [default attribute release](#) policy that releases the [Essential Attribute Bundle](#) to **all** SPs:

### A Shib IdP config that releases attributes to ALL SPs

```
<afp:AttributeFilterPolicy id="releaseEssentialAttributeBundle">

  <!-- this policy is active for ANY requester -->
  <afp:PolicyRequirementRule xsi:type="basic:ANY"/>

  <!-- the Essential Attribute Bundle -->

  <afp:AttributeRule attributeID="eduPersonPrincipalName">
    <afp:PermitValueRule xsi:type="basic:ANY"/>
  </afp:AttributeRule>
  <afp:AttributeRule attributeID="email">
    <afp:PermitValueRule xsi:type="basic:ANY"/>
  </afp:AttributeRule>
  <afp:AttributeRule attributeID="displayName">
    <afp:PermitValueRule xsi:type="basic:ANY"/>
  </afp:AttributeRule>
  <afp:AttributeRule attributeID="givenName">
    <afp:PermitValueRule xsi:type="basic:ANY"/>
  </afp:AttributeRule>
  <afp:AttributeRule attributeID="surname">
    <afp:PermitValueRule xsi:type="basic:ANY"/>
  </afp:AttributeRule>

</afp:AttributeFilterPolicy>
```

A default policy (such as the previous policy) takes on a different meaning in the presence of eduGAIN metadata. It is believed that some IdPs will want to retain the semantics of their current default policy, at least for a time. This is why the [Registered By InCommon Category](#) was created.

An instance of Shibboleth IdP V2 may leverage the `registered-by-incommon` entity attribute to retain its current default policy:

### A Shib IdP V2 rule that releases attributes to all SPs registered by InCommon

```
<!-- this policy is active for a requester with the following entity attribute -->
<afp:PolicyRequirementRule xsi:type="saml:AttributeRequesterEntityAttributeExactMatch"
  attributeName="http://macedir.org/entity-category"
  attributeValue="http://id.incommon.org/category/registered-by-incommon"/>
```

An instance of Shibboleth IdP V3 will either leverage the `registered-by-incommon` entity attribute (as above) or the `<mdrpi:RegistrationInfo>` element directly, as shown in the following example:

### A Shib IdP V3 rule that releases attributes to SPs registered by InCommon

```
<!-- this policy is active for a requester whose registrar has the given ID -->
<afp:PolicyRequirementRule xsi:type="saml:RegistrationAuthority"
  registrars="https://incommon.org"/>
```

The value of the `registrars` XML attribute above is the globally unique registrar ID for InCommon.

## Releasing the R&S Attribute Bundle

Most of the Research & Scholarship (R&S) IdPs in the InCommon Federation are configured with a policy rule that releases attributes to R&S SPs tagged with the legacy InCommon R&S entity attribute value:

### A Shib IdP V2 rule that releases attributes to legacy R&S SPs

```
<afp:PolicyRequirementRule xsi:type="saml:AttributeRequesterEntityAttributeExactMatch"
  attributeName="http://macedir.org/entity-category"
  attributeValue="http://id.incommon.org/category/research-and-scholarship" />
```

R&S IdPs should instead be configured with a policy that releases the [R&S Attribute Bundle](#) to **all** R&S SPs, including R&S SPs in other federations:

### A Shib IdP config that releases the R&S bundle to ALL R&S SPs

```
<afp:AttributeFilterPolicy id="releaseRandSAttributeBundle">

  <!-- for Shib IdP V3, use type saml:EntityAttributeExactMatch instead -->

  <afp:PolicyRequirementRule xsi:type="saml:AttributeRequesterEntityAttributeExactMatch"
    attributeName="http://macedir.org/entity-category"
    attributeValue="http://refeds.org/category/research-and-scholarship" />

  <!-- a fixed subset of the Research & Scholarship Attribute Bundle -->

  <afp:AttributeRule attributeID="eduPersonPrincipalName">
    <afp:PermitValueRule xsi:type="basic:ANY" />
  </afp:AttributeRule>

  <!-- if your deployment of ePPN is non-reassigned, release of ePTID is OPTIONAL -->
  <afp:AttributeRule attributeID="eduPersonTargetedID">
    <afp:PermitValueRule xsi:type="basic:ANY" />
  </afp:AttributeRule>

  <afp:AttributeRule attributeID="email">
    <afp:PermitValueRule xsi:type="basic:ANY" />
  </afp:AttributeRule>

  <!-- either displayName or (givenName and sn) is REQUIRED but all three are RECOMMENDED -->
  <afp:AttributeRule attributeID="displayName">
    <afp:PermitValueRule xsi:type="basic:ANY" />
  </afp:AttributeRule>
  <afp:AttributeRule attributeID="givenName">
    <afp:PermitValueRule xsi:type="basic:ANY" />
  </afp:AttributeRule>
  <afp:AttributeRule attributeID="surname">
    <afp:PermitValueRule xsi:type="basic:ANY" />
  </afp:AttributeRule>

  <!-- release of ePSA is OPTIONAL -->
  <afp:AttributeRule attributeID="eduPersonScopedAffiliation">
    <afp:PermitValueRule xsi:type="basic:ANY" />
  </afp:AttributeRule>

</afp:AttributeFilterPolicy>
```

To facilitate the migration suggested by the previous examples, all R&S SPs registered by InCommon have a [multivalued R&S entity attribute](#) in metadata.

It is believed that some R&S IdPs will want to retain their current attribute release policy for a time. An instance of Shibboleth IdP V2 may leverage the [Registered By InCommon Category](#) to retain its current attribute release policy but without relying on the legacy InCommon R&S entity attribute value:

#### A Shib IdP V2 rule that releases attributes to R&S SPs registered by InCommon

```
<afp:PolicyRequirementRule xsi:type="basic:AND">
  <basic:Rule xsi:type="saml:AttributeRequesterEntityAttributeExactMatch"
    attributeName="http://macedir.org/entity-category"
    attributeValue="http://refeds.org/category/research-and-scholarship" />
  <basic:Rule xsi:type="saml:AttributeRequesterEntityAttributeExactMatch"
    attributeName="http://macedir.org/entity-category"
    attributeValue="http://id.incommon.org/category/registered-by-incommon" />
</afp:PolicyRequirementRule>
```

An instance of Shibboleth IdP V3 will either leverage the `registered-by-incommon` entity attribute (as above) or the `<mdrpi:RegistrationInfo>` element directly, as shown in the following example:

#### A Shib IdP V3 rule that releases attributes to R&S SPs registered by InCommon

```
<afp:PolicyRequirementRule xsi:type="basic:AND">
  <basic:Rule xsi:type="saml:EntityAttributeExactMatch"
    attributeName="http://macedir.org/entity-category"
    attributeValue="http://refeds.org/category/research-and-scholarship" />
  <basic:Rule xsi:type="saml:RegistrationAuthority"
    registrars="https://incommon.org" />
</afp:PolicyRequirementRule>
```

For more information about configuring an IdP for R&S, consult the [R&S Attribute Bundle Config](#) topic in the wiki.