


# Research and Scholarship Attribute Bundle

## Research & Scholarship Attribute Bundle

Identity providers are encouraged to release the *R&S attribute bundle* to all R&S service providers:

 Configure your IdP to [release the R&S attribute bundle](#) now!

- *Identifiers*
  - eduPersonPrincipalName
  - eduPersonTargetedID
- *Mail attribute*
  - mail
- *Person name attributes*
  - displayName
  - givenName
  - sn (surname)
- *Authorization attribute*
  - eduPersonScopedAffiliation

It is easy to configure a Shibboleth IdP to [release the R&S attribute bundle](#) to all R&S SPs. If, however, you are using SAML software that does not support entity attributes, consider releasing the [Essential Attribute Bundle](#) to all SPs instead.



### Supporting the Research & Scholarship Category

An identity provider (IdP) supports the [Research & Scholarship \(R&S\) Category](#) if, for some subset of the IdP's user population, the IdP releases a minimal subset of the R&S attribute bundle to R&S service providers without administrative involvement, either automatically or subject to user consent.

## Minimal Subset of the R&S Attribute Bundle

The following attributes constitute a *minimal subset of the R&S attribute bundle*.

- eduPersonPrincipalName
- mail
- displayName OR (givenName AND sn)

For the purposes of access control, a *non-reassigned persistent identifier* is REQUIRED. If your deployment of eduPersonPrincipalName is non-reassigned, it will suffice. Otherwise you MUST release eduPersonTargetedID (which is non-reassigned by definition) in addition to eduPersonPrincipalName. In any case, release of both identifiers is RECOMMENDED.

## An Optimization

A sufficiently capable IdP deployment can optimize attribute release based on the `<md:RequestedAttribute>` elements in SP metadata:

- If a service provider lists the eduPersonPrincipalName attribute in metadata, and the IdP's deployment of eduPersonPrincipalName can be reassigned, then the IdP MUST release both eduPersonPrincipalName and eduPersonTargetedID to the SP regardless of whether eduPersonTargetedID is listed in metadata.
- If a service provider lists **any** of the person name attributes in metadata, the identity provider MUST release some form of person name, either displayName OR givenName + sn.

Beyond the two special cases noted above, *an identity provider is NOT REQUIRED to release any attribute not listed in metadata*.