

# IdP Attribute Release

## How to Test Attribute Release?

The best way to see if your IdP is releasing attributes properly to eduGAIN services is testing it with the [eduGAIN Attribute Release Check](#), which is an easy way to find out if an IdP is configured properly.



### Attribute Release Training

To get a better understanding of attribute release in general, how it affects services in eduGAIN and what to consider to properly implement it, we strongly recommend to have a look at the [GÉANT online course on "Successful Attribute Release"](#).

## Which are the most requested attributes?

According to best common practices Service Providers should publish the attributes they require or desired in metadata, either explicitly using a `<Request edAttribute>` element or implicitly, via the R&S entity category. Based on these numbers an IdP ideally **should be able** to release the following attributes:

- eduPersonPrincipalName (urn:oid:1.3.6.1.4.1.5923.1.1.1.6)
- mail (urn:oid:0.9.2342.19200300.100.1.3)
- eduPersonTargetedID (urn:oid:1.3.6.1.4.1.5923.1.1.1.10)
- givenName (urn:oid:2.5.4.42)
- sn (urn:oid:2.5.4.4)
- displayName (urn:oid:2.16.840.1.113730.3.1.241)
- cn (urn:oid:2.5.4.3)
- eduPersonScopedAffiliation (urn:oid:1.3.6.1.4.1.5923.1.1.1.9)
- eduPersonAffiliation (urn:oid:1.3.6.1.4.1.5923.1.1.1.1)
- eduPersonEntitlement (urn:oid:1.3.6.1.4.1.5923.1.1.1.7)
- schacHomeOrganization (urn:oid:1.3.6.1.4.1.25178.1.2.9)

It is easily possible to create a list of the most requested attributes of eduGAIN Service Providers. Using a script to [generate these attribute statistics](#), the complete results are as follows (data from August 21st 2018):

### Total SPs: 2135

With requested attributes/R&S: 5326

Without requested attributes/R&S: -3191

### Total Requested Attributes: 4735

- Attributes with isRequired=true: 1606 (33.9%)
- Attributes with implicit isRequired=false: 2371 (50.1%)
- Attributes with explicit isRequired=false: 0 (0%)

182 SAML attributes with their most used friendly name sorted by popularity:

- \* eduPersonPrincipalName (urn:oid:1.3.6.1.4.1.5923.1.1.1.6)  
Requested: 24.37%  
Required: 3.8%  
Desired: 8.09%
- \* mail (urn:oid:0.9.2342.19200300.100.1.3)  
Requested: 24.05%  
Required: 4.41%  
Desired: 7.16%
- \* eduPersonTargetedID (urn:oid:1.3.6.1.4.1.5923.1.1.1.10)  
Requested: 19.96%  
Required: 2.28%  
Desired: 5.2%
- \* givenName (urn:oid:2.5.4.42)  
Requested: 19.18%  
Required: 1.63%  
Desired: 5.07%
- \* sn (urn:oid:2.5.4.4)  
Requested: 18.75%  
Required: 1.67%  
Desired: 4.6%
- \* eduPersonScopedAffiliation (urn:oid:1.3.6.1.4.1.5923.1.1.1.9)  
Requested: 17.99%  
Required: 1.82%  
Desired: 3.7%
- \* displayName (urn:oid:2.16.840.1.113730.3.1.241)  
Requested: 17.04%  
Required: 1.8%  
Desired: 2.77%
- \* cn (urn:oid:2.5.4.3)  
Requested: 5.66%  
Required: 1.35%  
Desired: 4.31%
- \* eduPersonAffiliation (urn:oid:1.3.6.1.4.1.5923.1.1.1.1)  
Requested: 4.84%  
Required: 0.91%  
Desired: 3.93%
- \* eduPersonEntitlement (urn:oid:1.3.6.1.4.1.5923.1.1.1.7)  
Requested: 1.88%  
Required: 0.63%  
Desired: 1.25%
- \* schacHomeOrganization (urn:oid:1.3.6.1.4.1.25178.1.2.9)  
Requested: 1.27%  
Required: 0.82%  
Desired: 0.44%

Also an IdP should support the following name ID formats:

- \* Transient NameIDFormat (urn:oasis:names:tc:SAML:2.0:nameid-format:transient)  
Requested: 4.18%  
Required: 42.34%  
Desired: 7.05%
- \* Persistent NameIDFormat (urn:oasis:names:tc:SAML:2.0:nameid-format:persistent)  
Requested: 2.28%  
Required: 20.04%  
Desired: 3.34%

If your IdP supports the above attributes, it should be more capable of addressing most attribute request. Some less frequently attributes and NameID formats, which probably are either using non-standard names (i.e. urn:mace:dir:... names instead of urn:oid:... names) or are mostly used in a local context are:

- \* o (urn:oid:2.5.4.10)  
Requested: 1.25%  
Required: 0.32%  
Desired: 0.93%
- \* NameIdentifier NameIDFormat (urn:mace:shibboleth:1.0:nameidentifier)  
Requested: 1.1%  
Required: 12.19%  
Desired: 2.03%
- \* uid (urn:oid:0.9.2342.19200300.100.1.1)  
Requested: 0.95%  
Required: 0.38%

Desired: 0.57%

- \* eduPersonTargetedID (urn:mace:dir:attribute-def:eduPersonTargetedID)
  - Requested: 0.87%
  - Required: 0.06%
  - Desired: 0.8%
- \* eduPersonScopedAffiliation (urn:mace:dir:attribute-def:eduPersonScopedAffiliation)
  - Requested: 0.82%
  - Required: 0%
  - Desired: 0.82%
- \* eduPersonPrincipalName (urn:mace:dir:attribute-def:eduPersonPrincipalName)
  - Requested: 0.7%
  - Required: 0.04%
  - Desired: 0.65%
- \* eduPersonPrimaryAffiliation (urn:oid:1.3.6.1.4.1.5923.1.1.1.5)
  - Requested: 0.61%
  - Required: 0.36%
  - Desired: 0.25%
- \* eduPersonUniqueid (urn:oid:1.3.6.1.4.1.5923.1.1.1.13)
  - Requested: 0.53%
  - Required: 0.23%
  - Desired: 0.3%
- \* preferredLanguage (urn:oid:2.16.840.1.113730.3.1.39)
  - Requested: 0.49%
  - Required: 0.32%
  - Desired: 0.17%
- \* mail (urn:mace:dir:attribute-def:mail)
  - Requested: 0.42%
  - Required: 0.04%
  - Desired: 0.38%
- \* transientId (urn:oid:1.2.3.4.5.6.7.8.9.10)
  - Requested: 0.38%
  - Required: 0.34%
  - Desired: 0.04%
- \* schacHomeOrganizationType (urn:oid:1.3.6.1.4.1.25178.1.2.10)
  - Requested: 0.38%
  - Required: 0.23%
  - Desired: 0.15%
- \* EmailAddress NameIDFormat (urn:oasis:names:tc:SAML:1.1:nameid-format:emailAddress)
  - Requested: 0.38%
  - Required: 0.27%
  - Desired: 0.04%
- \* eduPersonAssurance (urn:oid:1.3.6.1.4.1.5923.1.1.1.11)
  - Requested: 0.32%
  - Required: 0.13%
  - Desired: 0.19%
- \* telephoneNumber (urn:oid:2.5.4.20)
  - Requested: 0.27%
  - Required: 0.08%
  - Desired: 0.19%
- \* ou (urn:oid:2.5.4.11)
  - Requested: 0.27%
  - Required: 0.08%
  - Desired: 0.19%
- \* eduPersonNickname (urn:oid:1.3.6.1.4.1.5923.1.1.1.2)
  - Requested: 0.27%
  - Required: 0.08%
  - Desired: 0.19%
- \* eduPersonOrgUnitDN (urn:oid:1.3.6.1.4.1.5923.1.1.1.4)
  - Requested: 0.27%
  - Required: 0.08%
  - Desired: 0.19%
- \* Unspecified NameIDFormat (urn:oasis:names:tc:SAML:1.1:nameid-format:unspecified)
  - Requested: 0.25%
  - Required: 0.02%
  - Desired: 0%
- \* eduPersonOrcid (urn:oid:1.3.6.1.4.1.5923.1.1.1.16)
  - Requested: 0.23%
  - Required: 0.06%
  - Desired: 0.17%
- \* eduPersonOrgDN (urn:oid:1.3.6.1.4.1.5923.1.1.1.3)
  - Requested: 0.23%
  - Required: 0.08%
  - Desired: 0.15%
- \* displayName (urn:mace:dir:attribute-def:displayName)
  - Requested: 0.21%
  - Required: 0%
  - Desired: 0.21%
- \* eduPersonPrimaryOrgUnitDN (urn:oid:1.3.6.1.4.1.5923.1.1.1.8)
  - Requested: 0.19%

Required: 0.08%  
Desired: 0.11%

\* eduPersonAffiliation (urn:mace:dir:attribute-def:eduPersonAffiliation)  
Requested: 0.17%  
Required: 0%  
Desired: 0.17%

\* title (urn:oid:2.5.4.12)  
Requested: 0.17%  
Required: 0.04%  
Desired: 0.13%

\* schacPersonalUniqueID (urn:oid:1.3.6.1.4.1.25178.1.2.15)  
Requested: 0.17%  
Required: 0.17%  
Desired: 0%

\* givenName (urn:mace:dir:attribute-def:givenName)  
Requested: 0.15%  
Required: 0.02%  
Desired: 0.13%

\* supannEtablissement (urn:oid:1.3.6.1.4.1.7135.1.2.1.14)  
Requested: 0.15%  
Required: 0.13%  
Desired: 0.02%

\* cn (urn:mace:dir:attribute-def:cn)  
Requested: 0.15%  
Required: 0.02%  
Desired: 0.13%

\* mobile (urn:oid:0.9.2342.19200300.100.1.41)  
Requested: 0.15%  
Required: 0.08%  
Desired: 0.06%

\* sn (urn:mace:dir:attribute-def:sn)  
Requested: 0.15%  
Required: 0.02%  
Desired: 0.13%

\* employeeNumber (urn:oid:2.16.840.1.113730.3.1.3)  
Requested: 0.13%  
Required: 0.06%  
Desired: 0.06%

\* supannEtuld (urn:oid:1.3.6.1.4.1.7135.1.2.1.10)  
Requested: 0.11%  
Required: 0.02%  
Desired: 0.08%

\* eduOrgLegalName (urn:oid:1.3.6.1.4.1.5923.1.2.1.4)  
Requested: 0.11%  
Required: 0.02%  
Desired: 0.08%

\* norEduPersonLIN (urn:oid:1.3.6.1.4.1.2428.90.1.4)  
Requested: 0.11%  
Required: 0.11%  
Desired: 0%

\* postalAddress (urn:oid:2.5.4.16)  
Requested: 0.11%  
Required: 0.08%  
Desired: 0.02%

\* l (urn:oid:2.5.4.7)  
Requested: 0.11%  
Required: 0.04%  
Desired: 0.06%

\* employeeID (urn:oid:1.2.840.113556.1.4.35)  
Requested: 0.08%  
Required: 0%  
Desired: 0.08%

\* schacPersonalUniqueCode (urn:oid:1.3.6.1.4.1.25178.1.2.14)  
Requested: 0.08%  
Required: 0.04%  
Desired: 0.04%

\* schacCountryOfCitizenship (urn:oid:1.3.6.1.4.1.25178.1.2.5)  
Requested: 0.08%  
Required: 0.08%  
Desired: 0%

\* postalCode (urn:oid:2.5.4.17)  
Requested: 0.08%  
Required: 0.02%  
Desired: 0.06%

\* X509SubjectName NameIDFormat (urn:oasis:names:tc:SAML:1.1:nameid-format:X509SubjectName)  
Requested: 0.08%  
Required: 0.15%  
Desired: 0.02%

\* supannEntiteAffectation (urn:oid:1.3.6.1.4.1.7135.1.2.1.8)

Requested: 0.08%  
Required: 0.06%  
Desired: 0.02%

\* eduPersonEntitlement (urn:mace:dir:attribute-def:eduPersonEntitlement)  
Requested: 0.08%  
Required: 0%  
Desired: 0.08%

\* eduPersonAssurance (urn:mace:dir:attribute-def:eduPersonAssurance)  
Requested: 0.08%  
Required: 0%  
Desired: 0.08%

\* homePostalAddress (urn:oid:0.9.2342.19200300.100.1.39)  
Requested: 0.08%  
Required: 0.08%  
Desired: 0%

\* employeeNumber (urn:oid:1.2.840.113556.1.2.610)  
Requested: 0.08%  
Required: 0%  
Desired: 0.08%

\* facsimileTelephoneNumber (urn:oid:2.5.4.23)  
Requested: 0.08%  
Required: 0.04%  
Desired: 0.04%

\* eduPersonPrimaryAffiliation (urn:mace:dir:attribute-def:eduPersonPrimaryAffiliation)  
Requested: 0.06%  
Required: 0%  
Desired: 0.06%

\* street (urn:oid:2.5.4.9)  
Requested: 0.06%  
Required: 0.02%  
Desired: 0.04%

\* seeAlso (urn:oid:2.5.4.34)  
Requested: 0.06%  
Required: 0.02%  
Desired: 0.04%

\* ou (urn:mace:dir:attribute-def:ou)  
Requested: 0.06%  
Required: 0%  
Desired: 0.06%

\* employeeType (urn:oid:1.2.840.113556.1.2.613)  
Requested: 0.06%  
Required: 0%  
Desired: 0.06%

\* initials (urn:oid:2.5.4.43)  
Requested: 0.06%  
Required: 0.02%  
Desired: 0.04%

\* postOfficeBox (urn:oid:2.5.4.18)  
Requested: 0.06%  
Required: 0.02%  
Desired: 0.04%

\* businessCategory (urn:oid:2.5.4.15)  
Requested: 0.06%  
Required: 0.02%  
Desired: 0.04%

\* o (urn:mace:dir:attribute-def:o)  
Requested: 0.06%  
Required: 0%  
Desired: 0.06%

\* isMemberOf (urn:oid:1.3.6.1.4.1.5923.1.5.1.1)  
Requested: 0.06%  
Required: 0.04%  
Desired: 0.02%

\* description (urn:oid:2.5.4.13)  
Requested: 0.06%  
Required: 0.02%  
Desired: 0.04%

\* homePhone (urn:oid:0.9.2342.19200300.100.1.20)  
Requested: 0.06%  
Required: 0.06%  
Desired: 0%

\* manager (urn:mace:dir:attribute-def:manager)  
Requested: 0.04%  
Required: 0%  
Desired: 0.04%

\* st (urn:oid:2.5.4.8)  
Requested: 0.04%  
Required: 0%  
Desired: 0.04%

\* facsimileTelephoneNumber (urn:mace:dir:attribute-def:facsimileTelephoneNumber)  
Requested: 0.04%  
Required: 0%  
Desired: 0.04%

\* departmentNumber (urn:mace:dir:attribute-def:departmentNumber)  
Requested: 0.04%  
Required: 0%  
Desired: 0.04%

\* eduPersonPrimaryOrgUnitDN (urn:mace:dir:attribute-def:eduPersonPrimaryOrgUnitDN)  
Requested: 0.04%  
Required: 0%  
Desired: 0.04%

\* carLicense (urn:oid:2.16.840.1.113730.3.1.1)  
Requested: 0.04%  
Required: 0%  
Desired: 0.04%

\* initials (urn:mace:dir:attribute-def:initials)  
Requested: 0.04%  
Required: 0%  
Desired: 0.04%

\* carLicense (urn:mace:dir:attribute-def:carLicense)  
Requested: 0.04%  
Required: 0%  
Desired: 0.04%

\* title (urn:mace:dir:attribute-def:title)  
Requested: 0.04%  
Required: 0%  
Desired: 0.04%

\* telephoneNumber (urn:mace:dir:attribute-def:telephoneNumber)  
Requested: 0.04%  
Required: 0%  
Desired: 0.04%

\* street (urn:mace:dir:attribute-def:street)  
Requested: 0.04%  
Required: 0%  
Desired: 0.04%

\* st (urn:mace:dir:attribute-def:st)  
Requested: 0.04%  
Required: 0%  
Desired: 0.04%

\* manager (urn:oid:0.9.2342.19200300.100.1.10)  
Requested: 0.04%  
Required: 0%  
Desired: 0.04%

\* schacMotherTongue (urn:oid:1.3.6.1.4.1.25178.1.2.1)  
Requested: 0.04%  
Required: 0.02%  
Desired: 0.02%

\* l (urn:mace:dir:attribute-def:l)  
Requested: 0.04%  
Required: 0%  
Desired: 0.04%

\* supannEntiteAffectationPrincipale (urn:oid:1.3.6.1.4.1.7135.1.2.1.13)  
Requested: 0.04%  
Required: 0.02%  
Desired: 0.02%

\* supannOrganisme (urn:oid:1.3.6.1.4.1.7135.1.2.1.3)  
Requested: 0.04%  
Required: 0.02%  
Desired: 0.02%

\* seeAlso (urn:mace:dir:attribute-def:seeAlso)  
Requested: 0.04%  
Required: 0%  
Desired: 0.04%

\* preferredLanguage (urn:mace:dir:attribute-def:preferredLanguage)  
Requested: 0.04%  
Required: 0%  
Desired: 0.04%

\* postofficeBox (urn:mace:dir:attribute-def:postOfficeBox)  
Requested: 0.04%  
Required: 0%  
Desired: 0.04%

\* postalCode (urn:mace:dir:attribute-def:postalCode)  
Requested: 0.04%  
Required: 0%  
Desired: 0.04%

\* swissEduID (urn:oid:2.16.756.1.2.5.1.1.13)  
Requested: 0.04%  
Required: 0.04%

Desired: 0%  
\* userCertificate (urn:oid:2.5.4.36)  
Requested: 0.04%  
Required: 0.04%  
Desired: 0%

\* employeeNumber (urn:mace:dir:attribute-def:employeeNumber)  
Requested: 0.04%  
Required: 0%  
Desired: 0.04%

\* departmentNumber (urn:oid:2.16.840.1.113730.3.1.2)  
Requested: 0.04%  
Required: 0%  
Desired: 0.04%

\* schacDateOfBirth (urn:oid:1.3.6.1.4.1.25178.1.2.3)  
Requested: 0.04%  
Required: 0.04%  
Desired: 0%

\* eduPersonPrincipalName (eduPersonPrincipalName)  
Requested: 0.04%  
Required: 0%  
Desired: 0.04%

\* mail (mail)  
Requested: 0.04%  
Required: 0%  
Desired: 0.04%

\* givenName (givenName)  
Requested: 0.04%  
Required: 0%  
Desired: 0.04%

\* sn (sn)  
Requested: 0.04%  
Required: 0%  
Desired: 0.04%

\* auEduPersonSharedToken (urn:oid:1.3.6.1.4.1.27856.1.2.5)  
Requested: 0.04%  
Required: 0.02%  
Desired: 0.02%

\* eduPersonNickname (urn:mace:dir:attribute-def:eduPersonNickname)  
Requested: 0.04%  
Required: 0%  
Desired: 0.04%

\* eduPersonOrgDN (urn:mace:dir:attribute-def:eduPersonOrgDN)  
Requested: 0.04%  
Required: 0%  
Desired: 0.04%

\* Kerberos NameIDFormat (urn:oasis:names:tc:SAML:2.0:nameid-format:kerberos)  
Requested: 0.04%  
Required: 0.02%  
Desired: 0%

\* WindowsDomainQualifiedName NameIDFormat (urn:oasis:names:tc:SAML:1.1:nameid-format:WindowsDomainQualifiedName)  
Requested: 0.04%  
Required: 0.02%  
Desired: 0%

\* eduPersonOrgUnitDN (urn:mace:dir:attribute-def:eduPersonOrgUnitDN)  
Requested: 0.04%  
Required: 0%  
Desired: 0.04%

\* physicalDeliveryOfficeName (urn:oid:2.5.4.19)  
Requested: 0.04%  
Required: 0%  
Desired: 0.04%

\* physicalDeliveryOfficeName (urn:mace:dir:attribute-def:physicalDeliveryOfficeName)  
Requested: 0.04%  
Required: 0%  
Desired: 0.04%

\* eduCourseOffering (urn:oid:1.3.6.1.4.1.5923.1.6.1.1)  
Requested: 0.04%  
Required: 0.02%  
Desired: 0.02%

\* businessCategory (urn:mace:dir:attribute-def:businessCategory)  
Requested: 0.04%  
Required: 0%  
Desired: 0.04%

\* eduCourseMember (urn:oid:1.3.6.1.4.1.5923.1.6.1.2)  
Requested: 0.04%  
Required: 0.02%  
Desired: 0.02%

\* labeledURI (urn:oid:1.3.6.1.4.1.250.1.57)  
Requested: 0.04%

Required: 0.04%  
Desired: 0%

\* swissLibraryPersonAffiliation (urn:oid:2.16.756.1.2.5.1.1.1023)  
Requested: 0.04%  
Required: 0.04%  
Desired: 0%

\* employeeType (urn:mace:dir:attribute-def:employeeType)  
Requested: 0.04%  
Required: 0%  
Desired: 0.04%

\* swissLibraryPersonResidence (urn:oid:2.16.756.1.2.5.1.1.1025)  
Requested: 0.04%  
Required: 0.04%  
Desired: 0%

\* description (urn:mace:dir:attribute-def:description)  
Requested: 0.04%  
Required: 0%  
Desired: 0.04%

\* swissEduPersonHomeOrganization (urn:oid:2.16.756.1.2.5.1.1.4)  
Requested: 0.02%  
Required: 0%  
Desired: 0.02%

\* mailForwardingAddress (urn:oid:2.16.840.1.113730.3.1.17)  
Requested: 0.02%  
Required: 0.02%  
Desired: 0%

\* electronicIdentificationNumber (urn:oid:1.2.246.22)  
Requested: 0.02%  
Required: 0.02%  
Desired: 0%

\* supannAffectation (urn:oid:1.3.6.1.4.1.7135.1.2.1.5)  
Requested: 0.02%  
Required: 0.02%  
Desired: 0%

\* uid (urn:mace:dir:attribute-def:uid)  
Requested: 0.02%  
Required: 0%  
Desired: 0.02%

\* swissEduPersonUniqueID (urn:mace:switch.ch:attribute-def:swissEduPersonUniqueID)  
Requested: 0.02%  
Required: 0%  
Desired: 0.02%

\* shacHomeOrganization (urn:mace:terena.org:attribute-def:schacHomeOrganization)  
Requested: 0.02%  
Required: 0.02%  
Desired: 0%

\* urn:oid:1.3.6.1.4.1.1466.115.121.1.15 (urn:oid:1.3.6.1.4.1.1466.115.121.1.15)  
Requested: 0.02%  
Required: 0%  
Desired: 0.02%

\* urn:oid:0.9.2342.19200300.100.1.37 (urn:oid:0.9.2342.19200300.100.1.37)  
Requested: 0.02%  
Required: 0%  
Desired: 0.02%

\* surname (urn:oid:2.5.4.41)  
Requested: 0.02%  
Required: 0%  
Desired: 0.02%

\* supannCodeINE (urn:oid:1.3.6.1.4.1.7135.1.2.1.9)  
Requested: 0.02%  
Required: 0.02%  
Desired: 0%

\* supannEtuInscription (urn:oid:1.3.6.1.4.1.7135.1.2.1.30)  
Requested: 0.02%  
Required: 0.02%  
Desired: 0%

\* supannCivillite (urn:oid:1.3.6.1.4.1.7135.1.2.1.4)  
Requested: 0.02%  
Required: 0.02%  
Desired: 0%

\* funetEduPersonStudentUnion (urn:oid:1.3.6.1.4.1.16161.1.1.22)  
Requested: 0.02%  
Required: 0.02%  
Desired: 0%

\* unstructuredName (urn:oid:1.2.840.113549.1.9.2)  
Requested: 0.02%  
Required: 0.02%  
Desired: 0%

\* schacPlaceOfBirth (urn:oid:1.3.6.1.4.1.25178.1.2.4)



Requested: 0.02%  
Required: 0.02%  
Desired: 0%

\* schacGender (urn:oid:1.3.6.1.4.1.25178.1.2.2)  
Requested: 0.02%  
Required: 0.02%  
Desired: 0%

\* businessCode (urn:oid:1.2.246.10)  
Requested: 0.02%  
Required: 0.02%  
Desired: 0%

\* CountryOfResidence (urn:oid:1.3.6.1.4.1.25178.1.2.11)  
Requested: 0.02%  
Required: 0.02%  
Desired: 0%

\* nationalIdentificationNumber (urn:oid:1.2.246.21)  
Requested: 0.02%  
Required: 0.02%  
Desired: 0%

\* jpegPhoto (urn:oid:0.9.2342.19200300.100.1.60)  
Requested: 0.02%  
Required: 0.02%  
Desired: 0%

\* funetEduPersonTargetDegree (urn:oid:1.3.6.1.4.1.16161.1.1.11)  
Requested: 0.02%  
Required: 0.02%  
Desired: 0%

\* funetEduPersonStudyToEnd (urn:oid:1.3.6.1.4.1.16161.1.1.16)  
Requested: 0.02%  
Required: 0.02%  
Desired: 0%

\* funetEduPersonStudyStart (urn:oid:1.3.6.1.4.1.16161.1.1.14)  
Requested: 0.02%  
Required: 0.02%  
Desired: 0%

\* funetEduPersonStudentStatus (urn:oid:1.3.6.1.4.1.16161.1.1.21)  
Requested: 0.02%  
Required: 0.02%  
Desired: 0%

\* userStatus (urn:oid:1.3.6.1.4.1.25178.1.2.19)  
Requested: 0.02%  
Required: 0.02%  
Desired: 0%

\* funetEduPersonStudentCategory (urn:oid:1.3.6.1.4.1.16161.1.1.20)  
Requested: 0.02%  
Required: 0.02%  
Desired: 0%

\* funetEduPersonSpecialisation (urn:oid:1.3.6.1.4.1.16161.1.1.13)  
Requested: 0.02%  
Required: 0.02%  
Desired: 0%

\* funetEduPersonProgram (urn:oid:1.3.6.1.4.1.16161.1.1.12)  
Requested: 0.02%  
Required: 0.02%  
Desired: 0%

\* funetEduPersonPrimaryStudyStart (urn:oid:1.3.6.1.4.1.16161.1.1.15)  
Requested: 0.02%  
Required: 0.02%  
Desired: 0%

\* funetEduPersonLearnerId (urn:oid:1.3.6.1.4.1.16161.1.1.27)  
Requested: 0.02%  
Required: 0.02%  
Desired: 0%

\* funetEduPersonHomeCity (urn:oid:1.3.6.1.4.1.16161.1.1.23)  
Requested: 0.02%  
Required: 0.02%  
Desired: 0%

\* funetEduPersonGivenNames (urn:oid:1.3.6.1.4.1.16161.1.1.25)  
Requested: 0.02%  
Required: 0.02%  
Desired: 0%

\* funetEduPersonFullName (urn:oid:1.3.6.1.4.1.16161.1.1.26)  
Requested: 0.02%  
Required: 0.02%  
Desired: 0%

\* funetEduPersonEPPNTimeStamp (urn:oid:1.3.6.1.4.1.16161.1.1.24)  
Requested: 0.02%  
Required: 0.02%  
Desired: 0%

\* funetEduPersonECTS (urn:oid:1.3.6.1.4.1.16161.1.1.19)  
Requested: 0.02%  
Required: 0.02%  
Desired: 0%

\* userPresenceID (urn:oid:1.3.6.1.4.1.25178.1.2.12)  
Requested: 0.02%  
Required: 0.02%  
Desired: 0%

\* eduroamUID (<http://eduroam.cz/attributes/eduroamUID>)  
Requested: 0.02%  
Required: 0%  
Desired: 0.02%

\* supannAutreMail (urn:oid:1.3.6.1.4.1.7135.1.2.1.34)  
Requested: 0.02%  
Required: 0.02%  
Desired: 0%

\* supannRoleGenerique (urn:oid:1.3.6.1.4.1.7135.1.2.1.23)  
Requested: 0.02%  
Required: 0.02%  
Desired: 0%

\* supannEtuTypeDiplome (urn:oid:1.3.6.1.4.1.7135.1.2.1.33)  
Requested: 0.02%  
Required: 0.02%  
Desired: 0%

\* supannEtuSecteurDisciplinaire (urn:oid:1.3.6.1.4.1.7135.1.2.1.32)  
Requested: 0.02%  
Required: 0.02%  
Desired: 0%

\* supannEtuRegimeInscription (urn:oid:1.3.6.1.4.1.7135.1.2.1.31)  
Requested: 0.02%  
Required: 0.02%  
Desired: 0%

\* funetEduPersonCreditUnits (urn:oid:1.3.6.1.4.1.16161.1.1.18)  
Requested: 0.02%  
Required: 0.02%  
Desired: 0%

\* supannEtuEtape (urn:oid:1.3.6.1.4.1.7135.1.2.1.29)  
Requested: 0.02%  
Required: 0.02%  
Desired: 0%

\* supannEtuElementPedagogique (urn:oid:1.3.6.1.4.1.7135.1.2.1.28)  
Requested: 0.02%  
Required: 0.02%  
Desired: 0%

\* supannEtuDiplome (urn:oid:1.3.6.1.4.1.7135.1.2.1.27)  
Requested: 0.02%  
Required: 0.02%  
Desired: 0%

\* supannEtuCursusAnnee (urn:oid:1.3.6.1.4.1.7135.1.2.1.26)  
Requested: 0.02%  
Required: 0.02%  
Desired: 0%

\* supannEtuAnneeInscription (urn:oid:1.3.6.1.4.1.7135.1.2.1.25)  
Requested: 0.02%  
Required: 0.02%  
Desired: 0%

\* supannRoleEntite (urn:oid:1.3.6.1.4.1.7135.1.2.1.24)  
Requested: 0.02%  
Required: 0.02%  
Desired: 0%

\* supannRole (urn:oid:1.3.6.1.4.1.7135.1.2.1.21)  
Requested: 0.02%  
Required: 0.02%  
Desired: 0%

\* schacPersonalPosition (urn:oid:1.3.6.1.4.1.25178.1.2.1.13)  
Requested: 0.02%  
Required: 0%  
Desired: 0.02%

\* supannActivite (urn:oid:1.3.6.1.4.1.7135.1.2.1.2)  
Requested: 0.02%  
Required: 0.02%  
Desired: 0%

\* supannMailPerso (urn:oid:1.3.6.1.4.1.7135.1.2.1.15)  
Requested: 0.02%  
Required: 0.02%  
Desired: 0%

\* supannAutreTelephone (urn:oid:1.3.6.1.4.1.7135.1.2.1.12)  
Requested: 0.02%  
Required: 0.02%

Desired: 0%  
\* supannEmpld (urn:oid:1.3.6.1.4.1.7135.1.2.1.11)  
Requested: 0.02%  
Required: 0.02%  
Desired: 0%  
\* supannListeRouge (urn:oid:1.3.6.1.4.1.7135.1.2.1.1)  
Requested: 0.02%  
Required: 0.02%  
Desired: 0%  
\* swissEduPersonHomeOrganizationType (urn:oid:2.16.756.1.2.5.1.1.5)  
Requested: 0.02%  
Required: 0%  
Desired: 0.02%  
\* swissEduPersonUniqueID (urn:oid:2.16.756.1.2.5.1.1.1)  
Requested: 0.02%  
Required: 0%  
Desired: 0.02%  
\* schacPersonalTitle (urn:oid:1.3.6.1.4.1.25178.1.2.8)  
Requested: 0.02%  
Required: 0%  
Desired: 0.02%  
\* schacYearOfBirth (urn:oid:1.3.6.1.4.1.25178.1.0.2.3)  
Requested: 0.02%  
Required: 0.02%  
Desired: 0%  
\* norEduPersonNIN (urn:oid:1.3.6.1.4.1.2428.90.1.5)  
Requested: 0.02%  
Required: 0.02%  
Desired: 0%  
\* urn:oid:1.3.6.1.4.1.23735.100.0 (urn:oid:1.3.6.1.4.1.23735.100.0)  
Requested: 0.02%  
Required: 0%  
Desired: 0.02%