

# Catalogue Data

## Reference specs and guidelines

- [eInfraCentral Service Description Template, v1.12](#)
- [eduGAIN Policy Framework Metadata Profile](#) (2013) - mentions “[MAPS] Metadata Service Aggregation Practice Statement to be written by eduGAIN OT”???
- [SAML V2.0 Metadata Extensions for Login and Discovery User Interface Version 1.0](#) (MDUI)
- SAML MD? e.g., <mdui:DisplayName> vs <md:ServiceName> (MDUI describes some precedence)
- [Best Current Practice - eduGAIN - GÉANT federated confluence](#) - recommendations for upstream metadata produced by eduGAIN participants - VERY USEFUL!
- [eduGAIN metadata](#) - existing feeds
- [Basic SP Metadata Example - eduGAIN - GÉANT federated confluence](#), [Rich SP metadata example - eduGAIN](#) (2017)
- [EOSC Provider Portal - Resource Profile](#) - many fields (too many), but also many very useful code lists, taxonomies, classifications (Scientific Domain, Resource Category, Target Users, Geographical Availability, Life Cycle Status)

## Reference service catalogues

- [eduGAIN Entities Database](#)
- <https://www.aai.edu.hr/statistika-i-stanje-sustava/web-aplikacije>
- [Česká akademická federace identit eduID.cz \[eduID.cz\]](#)
- <https://dashboard.surfconext.nl/apps>
- [IDEM GARR AAI - IDEM resources](#)

## Other interesting but different catalogues

- [EOSC Marketplace](#)
- [Cloud Services – GÉANT Cloud Services](#) (OCRE)

## Brochure-style (PR) service catalogues

- [RENATER: Catalogue Services](#)
- <https://www.rediris.es/servicios/doc/rediris-catalogo-servicios.pdf>
- FCCN catalogue of uniformly designed pages abouts services grouped into 5 [Technological Areas](#): Connectivity, Computing, Collaboration, Knowledge, Security and Innovation

## UI fields

### Legend

1 - Item is present in the main list of services

1E - Item is shown upon expanding an item in the main list

2 - In the detailed service page

R - Item is present in the service registration pag, but not the detailed service page

Gray - Present/label in generic catalogues but not eduGAIN/federations related ones

Blue - Present/label in eduGAIN/federations catalogues but not in generic ones

## Fields to be provided in the app

Label	Source eduGAIN Technical (entities)	Pilot software usage and discussion
Service name	(multilingual) CSV:role_service_name: Service Provider information.Service name  (multilingual) mdui:DisplayName, CSV:r_displayname: Service Provider information.Display name	1
Description	mdui:Description, CSV:-: Description	1 links for language URLs (if 2-3 lines desc thn direct text or on hover...)  present GUI in default preferred lang. if not available for data, then en per language flags for details page is available on catalog page allow user to select supported languages as defined in config.
Registrar	mdrpi:RegistrationInfo registrationAuthority, CSV:'regauth' and 'code' Registrar (URL)	1E Registrar (with link?) ('First seen' as a separate column?)
Logo	(multilingual) mdui:Logo height width, URL as value, CSV:-: (logo shown)	(1 Logo -show scaled down?) 1E show as provided
Access URL (access) Do not call it ServiceURL in order not to mix with entityID (not URL)	md:EntityDescriptor entityID, CSV:entityid: Entity ID <b>HAVE IT WITH FAKE DATA</b>	1E entityID URL and link - could it be overridden with localised or later introduced <b>access pages?</b>  (1 Use the logo for the link?)
Service provider	(multilingual) md:OrganizationDisplayName, CSV:e_displayname: Display name  md:OrganizationName, CSV:-: Name  md:OrganizationURL, CSV:-: URL	1 with link
Status	<b>HAVE IT WITH FAKE DATA</b>	Q: How to deal with "test" etc" -- EOSC has 14, eIC 8 Controlled vocabulary, e.g. Preparation, Operation, Retired
Service category	saml:Attribute Name="http://macedir.org/entity-category" saml:AttributeValue, CSV:entity_cat: Entity categories	1? (good for sorting/filtering) use whatever we currently have in SAML  Actual categorisation should be defined with stakeholders. The SAML attribute could be used only if the preferred categorisation is not available for the service
Contacts	md:ContactPerson contactType="technical"/"administrative"/"support", values in <md:GivenName>, <md:EmailAddress>/<md:TelephoneNumber> For SIRTFI: <md:ContactPerson xmlns:remd="http://refeds.org/metadata" contactType="other" remd:contactType="http://refeds.org/metadata/contactType/security">	2 show all provided contacts  End-user "support" should be presented as the primary contact, but others should be also shown
More service info	(multilingual) mdui:InformationURL, CSV:-: (not shown!!!)	1E Information (language links)  mdui:InformationURL
Privacy policy	(multilingual) mdui:PrivacyStatementURL, CSV:-: Privacy policy	1E (not 1!) Privacy Policy (language links)
Used SAML attributes	md:RequestedAttribute (required if isRequired="true")	1E Required, Requested
License info	<b>HAVE IT WITH FAKE DATA</b>	Should be URL incurring, if set, licensing that could be used in filters  Alternatively: Commercial/Non-commercial binary selector or Restricted/Public & Subscription based/Free  License info could be also present within the InformationURL content
Since and Information updated		Useful, just like 'First seen'

## Fields/info to be discussed with stakeholders

Label	Source eduGAIN Technical (entities)	Pilot software usage and discussion
Access URL (access) Do not call it ServiceURL in order not to mix with entityID (not real URL)	md:EntityDescriptor entityID, CSV:entityid: Entity ID	1E entityID URL and link - could it be overridden with localised or later introduced access pages?  (1 Use the logo for the link?)
Status		Q: How to deal with "test" etc" -- EOSC has 14, eIC 8 Controlled vocabulary, e.g. Preparation, Operation, Retired
Service category	saml:Attribute Name="http://macedir.org/entity-category" saml:AttributeValue, CSV:entity_cat: Entity categories	1? (good for sorting/filtering) use whatever we currently have in SAML  Actual categorisation should be defined with stakeholders. The SAML attribute could be used only if the preferred categorisation is not available for the service
GDPR-safe		To simplify the selection among ~200 countries, could boil down to Provided at a GDPR /non-GDPR safe location  HOW DOES THIS ALIGN WITH CoCo? 2 levels are possible - claim by SP, confirmation by a verifier. Also related to mdui:PrivacyStatementURL
Target users		Audience, with very limited and controlled vocabulary Relation w/ service category? e.g. anyone, student, researcher, commercial user
License info		Should be URL incurring, if set, licensing that could be used in filters  Alternatively: Commercial/Non-commercial binary selector or Restricted/Public & Subscription based/Free  License info could be also present within the InformationURL content
Hotness		Count would be very nice to have to identify the popular ones, but would it be possible to get it from federations data? Could F-Ticks provide this? If so, provide the URL or cached (branded) numbers from <a href="https://f-ticks.edugain.org/sps.html">https://f-ticks.edugain.org/sps.html</a>
Sourced from		Sourced from (federation, SP)?

## All fields/info

	Catalogue \ Property	GN services /generic service catalogues	eduGAIN Technical (entities)	AAI@eduHr	CESNET eduid.cz	SURFconext IdP (sic) dashboard	IDEM GARR AAI	WP5T2
eInfraCentral Service Description Template (eIC) field	Catalogue location	Mashup of: Main Service Dash: <a href="https://intranet.geant.org/gn4/3/management/plm/Lists/Gent%20Service%20Status%20Dashboard/AllItems.aspx">https://intranet.geant.org/gn4/3/management/plm/Lists/Gent%20Service%20Status%20Dashboard/AllItems.aspx</a> T&I Dash, last update: Michelle Williams on Mar 30, 2020 <a href="https://wiki.geant.org/display/TI/Service+Status+Dashboard">https://wiki.geant.org/display/TI/Service+Status+Dashboard</a> WP6: <a href="https://wiki.geant.org/display/gn43wp6/Services+and+Development+Definition">https://wiki.geant.org/display/gn43wp6/Services+and+Development+Definition</a>	<a href="https://technical.edugain.org/entities">https://technical.edugain.org/entities</a>	<a href="https://www.aai.edu.hr/statistika-i-stanje-sustava/web-aplikacije">https://www.aai.edu.hr/statistika-i-stanje-sustava/web-aplikacije</a>	<a href="https://www.eduid.cz/">https://www.eduid.cz/</a>	<a href="https://dashboard.surfconext.nl/apps">https://dashboard.surfconext.nl/apps</a>	<a href="https://idem.garr.it/en/join/idem-resources">https://idem.garr.it/en/join/idem-resources</a>	<a href="https://surfnet-niels.github.io/">https://surfnet-niels.github.io/</a>

		eG entities - SPs: <a href="https://technical.edugain.org/entities">https://technical.edugain.org/entities</a>						
<b>1 Basic Service Information</b>								
	Short name/Service element name							
1.4 Service Name	Full name		(multilingual) CSV:role_service_name: Service Provider information.Service name  (multilingual) mdui:DisplayName, CSV:r_displayname: Service Provider information.Display name	1	1	1	1	1
1.6 Service Description	Service description (description or link)		mdui:Description, CSV::- Description	2 One sentence	1	2	1 Info URL, multilingual	1 links for language URLs (if 2-3 lines desc thn direct text or on hover...)  present GUI in default preferred lang. if not available for data, then en per language flags for details page is available on catalog page allow user to select supported languages as defined in config.
	<a href="#">Related partner (or the federation)</a>		mdrpi:RegistrationInfo registrationAuthority, CSV:'regauth' and 'code' Registrar (URL) <b>First seen?</b>	R				1E Registrar (with link?) ('First seen' as a separate column?)
	Service group (name of the principal service family, brand name)			R 'Related global service to which the service belongs'				
1.5 Service Tagline 1.11 Service Symbol 1.12 Service Multimedia	Marketing collateral (description and branding; links: web site, presentations, summaries, flyers, etc.), other info		(multilingual) mdui:Logo height width, URL as value, CSV::- (logo shown)	R Logo URL		2 Logo URL <b>2 Web site URL</b> 2 Contractual Base - text 2 Supported Entity Categories - list 2 Login page (access URL?) 2 Terms & Conditions		(1 Logo -show scaled down?) 1E show as provided
1.2 Service URL (access) 1.1 Service ID (not URL)	Access address (service URL)		md:EntityDescriptor entityID, CSV:entityid: Entity ID	2 Service URL, R	1 Name as link	2 web site and entityID URL	1E entityID URL	1E entityID URL and link - could it be overridden with localised or later introduced <b>access pages?</b> (1 <b>Use the logo</b> for the link?)
1.3 Service Provider Name	Responsible institution Vendor (of solution/platform)		(multilingual) md:OrganizationDisplayName, CSV:e_displayname: Display name  md:OrganizationName, CSV::- Name	1 domain e.g. carnet.hr, 2 org. name (human 'Parent institution')		1 'Vendor', 2 (again)	1 'Fornitore' – name as link	1 with link

			md:OrganizationURL, CSV:-: URL					
1.9 User Value	Value proposition (description or link)							can/should already be part of description
<b>2 Service Classification Information</b>								
2.5 Service Life Cycle Status	Status (development, pilot, transition, operational, retired), EOSC Profile has 14: <a href="https://eosc-portal.eu/providers-documentation/eosc-provider-portal-resource-profile#Resource%20Life%20Cycle%20Status">https://eosc-portal.eu/providers-documentation/eosc-provider-portal-resource-profile#Resource%20Life%20Cycle%20Status</a>							Q: How to deal with "test" etc" -- EOSC has 14, eIC 8 Controlled vocabulary, e.g. Preparation, Operation, Retired
2.7 Service Category 2.8 Service Subcategory 5.5 Service Coverage (e.g. high energy physics (scientific community) - close to 1.8 Target Users )	Service category (area to which the service belongs) (taxonomy?)	Network Security Individuals and roles Organisational data Resource data Nomenclatures and classifications Data Cloud resources Software development and maintenance Work process support Guidelines and decision support Data analytics and statistics Other ...	saml:Attribute Name="http://macedir.org/entity-category" saml:AttributeValue, CSV:entity_cat: Entity categories	R		Security & Identity (2) Education Services (0) Digital Content (1) Digital Content (40) Beveiliging (1) SURF Service (11) Online Collaboration (2) eduGAIN Service (31) Business Processing (10) Education Services (84) Streaming Media (2) Data Storage (3) Other (810)		1? (good for sorting/filtering) use whatever we currently have in SAML  Actual categorisation should be defined with stakeholders. The SAML attribute could be used only if the preferred categorisation is not available for the service
2.9 Service Place (regions/countries availability area, not where controller or processor reside!!!) 5.5 Service Coverage (range - geographic and thematic, possible duplication of 2.9)	Location (physical) Country where the service owner resides							To simplify the selection among ~200 countries, could boil down to Provided at GDPR /non-GDPR safe location and place in group 4
	Access mechanism Supported authentication protocols			1 listed: SAML, CAS, FWS R Offered CAS, SAML, OIDC, FWS, RADIUS and their configuration parameters		Not visible, supported SAML and OIDC		2?, if present in some SAML data?
1.8 Target Users (categories) 1.10 User Base (count, demographics, geography...)	Target users (taxonomy?)							Audience, with very limited and controlled vocabulary Relation w/ service category? e.g. anyone, student, researcher, commercial user
<b>3 Service Support Information</b>								

3.2 Service Helpdesk 3.1 Service Order (how to order it) 3.5 Service Feedback 1.7 Service Options 4.1 Service Price 5.6 Service Cost	User support and help desk (address, contact) Service owner (person - name, contact) Development/maintenance/technical contact		md:ContactPerson contactType="technical"/"administrative"/"support", values in <md:GivenName>, <md:EmailAddress>/<md:TelephoneNumber> For SIRTFl: <md:ContactPerson xmlns:remd="http://refeds.org/metadata" contactType="other" remd:contactType="http://refeds.org/metadata/contactType/security">	2 R type 'User support' name, email, (opt) phone R type 'Service manager' name, email, (opt) phone R type 'Technical support' name, email, (opt) phone			1 Technical contact (email)	2 show all provided contacts  End-user "support" should be presented as the primary contact, but others should be also shown
3.3 Service User Manual 3.4 Service Training Information	User instructions		(multilingual) mdui:InformationURL, CSV::: (not shown!!!)	2 URL		2 Support pages		1E Information (language links)  mdui:Information URL
<b>4 Service Contractual Information</b>								
4.2 Service Level Agreement	SLAs, OLAs and other agreements (list of partners and services)							
4.3 Service Terms of Use (!)	Service policy (link)							
	Privacy policy/notice (GDPR)		(multilingual) mdui:PrivacyStatementURL, CSV::: Privacy policy	2 URL		2 URL 2 Privacy information – text 2 Some services also have sections with privacy details, e.g. <a href="https://dashboard.surfconext.nl/apps/8529/oidc10_rp/privacy">https://dashboard.surfconext.nl/apps/8529/oidc10_rp/privacy</a> There is a tutorial for privacy questions <a href="https://dashboard.surfconext.nl/apps/8529/oidc10_rp/privacy">https://dashboard.surfconext.nl/apps/8529/oidc10_rp/privacy</a>	1 URL, multilingual	1E (not 1!) Privacy Policy (language links)
	Deals with sensitive or protected data (No/Yes) As in medical research							
	Collects personal information (PII)							
	<a href="#">Propagated attributes</a>		md:RequestedAttribute (required if isRequired="true")	2 List of 'delivered' attributes 3 details of an attribute (Attribute name, LDAP name, Description, Allowed values, Example, Origin, Status (e.g. required (in LDAP), see <a href="https://www.aai.edu.hr/o-sustavu/imenicke-shema/she/ma/person/cn">https://www.aai.edu.hr/o-sustavu/imenicke-shema/she/ma/person/cn</a> , all here <a href="https://www.aai.edu.hr/o-sustavu/imenicke-shema/she/ma">https://www.aai.edu.hr/o-sustavu/imenicke-shema/she/ma</a> ), Frequency (i.e. Cardinality))		2 With justification, if given	1E	1E Required, Requested

	License info					1 Not needed, "Yes, with service provider" (with link to 2), Unknown 2 URL		Should be URL incurring, if set, licensing that could be used in filters  Alternatively: Commercial/Non-commercial binary selector or Restricted/Public & Subscription based/Free  License info could be also present within the InformationURL content
	Originating from project/program/initiative/collaboration (credits)							
4.4 Service Funding	Funding source							
	Roadmap (description or link)							
	Obstacles							
	Open topics							
	Other remarks							
<b>5 Service Performance Information</b>								
5.1 Service Requests (total number of demands for service) 5.3 Service Usage (level/percentage of actual penetration/utilisation) 5.4 Service Capacity 5.10 Service Performance Indicator Name 5.11 Service Performance Indicator Value	KPIs and metrics (descriptions or links) (e.g., Coverage - number of actual and potential users; Frequency of requests Total number of requests, documents...; Percentage of successfully fulfilled requests; Capacity (supported and maximum potential load); Other ...)							
	Analytics / statistics(description or link)							
5.2 Service Users (count)	Used by (IdPs)					2		Count would be very nice to have to identify the popular ones, but would it be possible to get it from federations data? Could F-Ticks provide this? If so, provide the URL or cached (branded) numbers from

								<a href="https://f-ticks.edu.gain.org/sps.html">https://f-ticks.edu.gain.org/sps.html</a>
2.12 Required Services	Depends on services (list)							
2.13 Related Services	Critical for services (list)							
			Attribute Name="urn:oasis:names:tc:SAML:attribute:assurance-certification" saml:AttributeValue, CSV:sirtfi_status: SIRTfI status  CSV:coco_status: CoCo status CSV:coco_id: (not shown)  md:Extensions init:RequestInitiator Location, (idpdisc:DiscoveryResponse Location, ?) CSV:-: Request Initiator					2?
	Record modified (date)							Useful just like 'First seen'
	Modified by			R registered user name, email. Can add other admins				Sourced from (federation, SP)?

## Catalogue features

Catalogue	Tech eduGAIN	AAI@eduHr	CESNET eduid.cz	SURFconext IdP (sic!) dashboard	IDEM GARR AAI	MoSCoW
		<a href="https://www.aaiedu.hr/statistika-i-stanje-sustava/web-aplikacije">https://www.aaiedu.hr/statistika-i-stanje-sustava/web-aplikacije</a>	<a href="https://www.eduid.cz/en/members">https://www.eduid.cz/en/members</a>	<a href="https://dashboard.surfconext.nl/apps">https://dashboard.surfconext.nl/apps</a>	<a href="https://idem.garr.it/en/join/idem-resources">https://idem.garr.it/en/join/idem-resources</a>	
Show SP logo	Yes	No	1 Only IdPs	2	No	M
Sort by column	No	No	No	Yes	yes	M - if meaningful for the column
Search/filter	By all attributes, time	No		Yes, service name and 7 sets of checkboxes (OR + 1 with OR/AND)	Omnisearch	M
Expand details	No	No		No	Yes	M
API/JSON		?			Underlying JSON URL?	M just link to the existing JSON
SP registration procedure for SP customers (IdPs)				2 Registration policy	?	Possible curated data or metadata extension?  see eIC2.*
Show eduGAIN mark	Implied	No	Logo	2 In access info, along with access via SURFconext, and SP registration link; Federation source	No	Configurable (for national catalogues)
Paging		No	No	Yes	Yes	?
Tools or links external resources (e.g., to access eIC 5.7 Service Availability  5.8 Service Reliability)	Validator,CoCo,  Metadata explorer tool					C - not for the MVP
Multilingual UI	EN	HR	EN, CZ	EN, NL	IT, EN (partial)	GUI - S  Data - S (where available)  C - warn SPs  W - auto translation for some fields
Details page	No	Yes	Yes	Yes	No	? - not for the MVP
Combined with other resources	Yes - IdPs	No, but R includes IdPs	Yes - IdPs	No	No	No
Integrated login		No	No	Yes	No	No



Service registration procedure for SPs		<a href="https://www.aaiedu.hr/za-davatelje-usluga/za-web-aplikacije/sustav-jedinjene-stvene-autentikacije-korisnika#p3">https://www.aaiedu.hr/za-davatelje-usluga/za-web-aplikacije/sustav-jedinjene-stvene-autentikacije-korisnika#p3</a> Service entry upon SP registration	<a href="https://www.eduid.cz/en/join">https://www.eduid.cz/en/join</a>	<a href="https://wiki.surfnet.nl/display/surfconextdev/Get+Conexted">https://wiki.surfnet.nl/display/surfconextdev/Get+Conexted</a> <a href="https://wiki.surfnet.nl/display/surfconextdev/Connect+in+5+Steps">https://wiki.surfnet.nl/display/surfconextdev/Connect+in+5+Steps</a> <a href="https://wiki.surfnet.nl/display/surfconextdev/Connecting+your+service+to+eduGAIN">https://wiki.surfnet.nl/display/surfconextdev/Connecting+your+service+to+eduGAIN</a>	?	No
Download list	CSV	No	No	Yes, CSV (filtered). Also direct aggregate at <a href="https://metadata.surfconext.nl/edugain-downstream.xml">https://metadata.surfconext.nl/edugain-downstream.xml</a>	No but there is Print, Email,	CSV - not for MVP, filtering, later for sure

## Missing InfraCentral Service Description Template attributes

2.1 Service Version

2.2 Service Last Update - when the (current ) became available to user (also related to Service Status)

2.3 Service Change Log

2.4 Service Valid for - when the validity of the service (as described and under current description) ends (also related to Service Status)

2.6 Service TRL

### 2.10 Service Language

**2.11 Service Tags - potentially quite useful feature for a large catalogue - potentially very useful but hard to populate and curate**

5.7 Service Availability, 5.8 Service Reliability - could be provided by integrating **external metadata validators and monitoring tools** (CoCo, SIRTFI)

5.9 Service Serviceability or Durability

## Metadata stats

Niels' aggregate counts (automate this???) from [https://github.com/surfnet-niels/catalog\\_scripts/tree/main/output](https://github.com/surfnet-niels/catalog_scripts/tree/main/output)

Also populate from eduGAIN Technical SPs data, or are these close enough?

## Primary data from the aggregate

3217	id
1742	resourceName
3217	resourceProvider
3217	entityID
3193	resourceContacts.technical
1783	resourceContacts.support
1641	resourceContacts.administrative
1579	resourceContacts.security
978	info
1842	privacy

## resourceAttributes.requested

eduPersonPrincipalName	663
mail	603
givenName	480
eduPersonTargetedID	410
sn	394
eduPersonScopedAffiliation	329
displayName	319
cn	317
eduPersonAffiliation	299
eduPersonEntitlement	102
surname	69
o	47
uid	46
eduPersonUniqueid	30
email	29
schacHomeOrganization	29
eduPersonPrimaryAffiliation	26
preferredLanguage	25
eduPersonOrgUnitDN	20
telephoneNumber	19
ou	17
eduPersonOrgDN	16

commonName	16
eduPersonAssurance	14
eduPersonOrcid	13
schacHomeOrganizationType	12
eduPersonNickname	12
eduPersonPrimaryOrgUnitDN	11
title	11
supannEtablissement	10
employeeNumber	10
l	9
organizationName	8
mobile	7
employeeType	7
st	7
description	6
facsimileTelephoneNumber	6
initials	6
manager	6
postalCode	6
seeAlso	6
street	6
carLicense	6
departmentNumber	6
businessCategory	6
physicalDeliveryOfficeName	6
schacPersonalUniqueCode	5
supannEtuld	5
eduOrgLegalName	4
OrganizationName	4
employeeID	4
postOfficeBox	4
schacPersonalTitle	3
postofficeBox	3
Email	2
organizationalUnitName	2
rfc822Mailbox	2
DisplayName	2
organisation	2
eduroamUID	2
voPersonExternalAffiliation	2

schacUserPresenceID	2
niifPersonOrgID	2
niifEduPersonAttendedCourse	2
FirstName	2
surName	2
swissEduPersonUniqueID	2
jpegPhoto	2
LastName	2
uniqueIdentifier	2
isMemberOf	2
supannEntiteAffectation	2

... 1 -> lot of junk!!

### resourceAttributes.required

eduPersonPrincipalName	531
mail	420
givenName	309
sn	263
eduPersonTargetedID	203
eduPersonScopedAffiliation	197
displayName	158
email	147
eduPersonAffiliation	73
cn	70
surname	69
schacHomeOrganization	59
eduPersonEntitlement	51
uid	29
eduPersonUniqueid	28
transientId	27
eduPersonPrimaryAffiliation	26
commonName	24
eduPersonAssurance	20
preferredLanguage	19
eduPersonOrcid	18
schacHomeOrganizationType	17
gn	15
o	13
schacPersonalUniqueID	10
schacPersonalUniqueCode	10

eppn	9
organizationName	9
eduPersonOrgDN	9
mobile	8
telephoneNumber	8
homePostalAddress	7
eduPersonOrgUnitDN	7
supannEtablissement	7
postalAddress	6
employeeNumber	5
homePhone	5
isMemberOf	5
ou	5
norEduPersonLIN	5
schacDateOfBirth	5
schacCountryOfCitizenship	5
voPersonExternalAffiliation	4
street	4
eduPersonPrimaryOrgUnitDN	4
postalCode	4
jpegPhoto	3
schacMotherTongue	3
businessCategory	3
persistentId	3
schacGender	3
facsimileTelephoneNumber	3
initials	3
l	3
postOfficeBox	3
seeAlso	3
description	3
title	3
userCertificate	3
eduPersonTargetedId	2
studentId	2
businessCode	2
unstructuredName	2
swissLibraryPersonAffiliation	2
voPersonVerifiedEmail	2
swissLibraryPersonResidence	2

swissEduID	2
electronicIdentificationNumber	2
supannEntiteAffectation	2
supannEtuld	2
eduPersonNickname	2
labeledURI	2
CountryOfResidence	2
nationalIdentificationNumber	2
Nickname	2
schacPlaceOfBirth	2
userPresenceID	2
userStatus	2
eduCourseMember	2
eduCourseOffering	2

... 1 -> lot of junk!!

<https://technical.edugain.org/entities> UI, XML, CSV stats and match

Unmatched				2	roles	3229	
				SPSSODescriptor	roledesc	3229	
					r_description	0	
				0	eccs_status	3219	deviation of data between entities
				0	clash	3219	
					scopes	2	
Entity information	Entity information			279065	id	3229	

Entity ID:	<a href="https://inacademia.org/metadata/inacademia-simple-validation.xml">https://inacademia.org/metadata/inacademia-simple-validation.xml</a>	Entity ID:	<a href="https://indico.uu.se/shibboleth">https://indico.uu.se/shibboleth</a>	<a href="https://indico.uu.se/shibboleth">https://indico.uu.se/shibboleth</a>	entityid	3229	
Entity categories:	GÉANT EU/EEA Data Protection Code of Conduct	Entity categories:	GÉANT EU/EEA Data Protection Code of Conduct	1;5;14;21;76	entity_cat	1929	4 vs 5? (1; is SP?)
			REFEDS Research and Scholarship				
			<a href="http://www.swamid.se/category/research-and-education">http://www.swamid.se/category/research-and-education</a>				
			<a href="http://www.swamid.se/category/hei-service">http://www.swamid.se/category/hei-service</a>				
SIRTFI:	asserted	SIRTFI:	asserted	1	sirtfi_status	3219	
				SWAMID	code	3219	
Registrar:	<a href="#">SWAMID</a>	Registrar:	<a href="#">SWAMID</a>	<a href="http://www.swamid.se/">http://www.swamid.se/</a>	regauth	3229	
First seen:	before 2017-04-14	First seen:	30/05/2017				
Language: en		Language: en					
Display Name:	InAcademia	Display Name:	Uppsala University	en;Uppsala University==sv;Uppsala universitet	e_displayname	3228	
Name:	InAcademia operated by GÉANT	Name:	Uppsala University				
URL:	<a href="https://inacademia.org/about">https://inacademia.org/about</a>	URL:	<a href="http://www.uu.se/en/">http://www.uu.se/en/</a>				
		Language: sv					
		Display Name:	Uppsala universitet				

		Name:	Uppsala universitet				
		URL:	<a href="http://www.uu.se">http://www.uu.se</a>				
Contact details		Contact details					
technical	InAcademia Technical Support; mail: tech@inacademia.org	technical	mail: indico-datordrift@its.uu.se				
support	InAcademia Enduser Support; mail: support@inacademia.org						
administrative	InAcademia Administrative Support; mail: admin@inacademia.org	administrative	mail: indico-datordrift@its.uu.se				
REFEDS security	<a href="#">InAcademia security Support; mail: support@inacademia.org</a>	REFEDS security	Uppsala University Computer Security Incident Response Team; mail: security@uu.se; tel.: +46-18-4717560				
CoCo status		CoCo status		2	coco_status	3216	
All attributes present, privacy statement has a link to CoCo		All attributes present, privacy statement has a link to CoCo		2184	coco_id	3216	
Service Provider information		Service Provider information					
Language: en		Language: en					
Service Name:	InAcademia Affiliation Validation Service	Service Name:	Indico	en;Indico	role_service_name	1751	
		Display Name:	Indico	en;Indico==sv;Indico	r_displaynam	2695	



					e		
		Description:	Indico is an event management system for meetings, conferences and lectures.				
		Privacy policy:	<a href="https://indico.uu.se/static/custom/privacy-policy-en">https://indico.uu.se/static/custom/privacy-policy-en</a>				
		Language: sv					
Display Name:	InAcademia Affiliation Validation Service	Display Name:	Indico				
Description:	InAcademia validates affiliation assigned by your home institution. This data is provided in anonymized form to services. While your Institution assists in validation your affiliation, it has no relation with the Service requesting the validation.	Description:	Indico är ett evenemangshanteringssystem för möten, konferenser och föreläsningar.				
Privacy policy:	<a href="https://inacademia.org/privacy-statement/">https://inacademia.org/privacy-statement/</a>	Privacy policy:	<a href="https://indico.uu.se/static/custom/privacy-policy-sv">https://indico.uu.se/static/custom/privacy-policy-sv</a>				
		Request Initiator					
		<a href="https://indico.uu.se/Shibboleth.sso/Login">https://indico.uu.se/Shibboleth.sso/Login</a>					
Protocols		Protocols					
urn:oasis:names:tc:SAML:2.0:protocol		urn:oasis:names:tc:SAML:1.0:protocol; urn:oasis:names:tc:SAML:1.1:protocol; urn:oasis:names:tc:SAML:2.0:protocol					

Requested attributes		Requested attributes					
eduPersonScopedAffiliation (SAML:2.0)	urn:oid:1.3.6.1.4.1.5923.1.1.1.9 (required)	eduPersonPrincipalName (SAML:2.0)	urn:oid:1.3.6.1.4.1.5923.1.1.1.6 (required)				
eduPersonTargetedID (SAML:2.0)	urn:oid:1.3.6.1.4.1.5923.1.1.1.10 (required)	mail (SAML:2.0)	urn:oid:0.9.2342.19200300.100.1.3 (required)				
eduPersonPrincipalName (SAML:2.0)	urn:oid:1.3.6.1.4.1.5923.1.1.1.6						
NameID Format							
urn:oasis:names:tc:SAML:2.0:nameid-format:transient							

## Data example

### List view

SP **ACDH-ÖAW Services for Digital Humanities**

Entity ID: <https://acdh.oeaw.ac.at/shibboleth>

Entity categories: GÉANT EU/EEA Data Protection Code of Conduct; REFEDS Research and Scholarship; <http://clarin.eu/category/clarin-member>

CoCo monitor status: **All attributes present, privacy statement has a link to CoCo [more info ...](#)**

Registrar: **DFN-AAI**

Org: **CLARIN ERIC**

[Entity details](#)

### Expanded list view

### Detailed level view

#### Entity information

**Entity ID:** <https://attribute-viewer.aai.switch.ch/interfederation-test/shibboleth>

**Entity categories:** GÉANT EU/EEA Data Protection Code of Conduct

**Registrar:** [SWITCHaai](#)

**First seen:** before 2017-04-14

Language: en

**Display Name:** SWITCH

**Name:** switch.ch

**URL:** <http://www.switch.ch/>

Language: it

**Display Name:** SWITCH

**URL:** <http://www.switch.ch/>

Language: fr

**Display Name:** SWITCH

**URL:** <http://www.switch.ch/>

Language: de

**Display Name:** SWITCH

**URL:** <http://www.switch.ch/>

Contact details

**technical** SWITCHaai Team; mail: [aai@switch.ch](mailto:aai@switch.ch)

**support** SWITCHaai Team; mail: [aai@switch.ch](mailto:aai@switch.ch)

CoCo status

All attributes present, privacy statement has a link to CoCo

Service Provider information

Language: en

**Service Name:** AAI Viewer Interfederation Test

**Display Name:** AAI Viewer Interfederation Test

**Description:** This service is used to test the interfederation readiness of SWITCHaai Identity Providers.

**Privacy policy:** <https://attribute-viewer.aai.switch.ch/interfederation-test/privacy-statement.html>

Protocols

urn:oasis:names:tc:SAML:2.0:protocol

Requested attributes

<b>commonName (SAML:2.0)</b>	urn:oid:2.5.4.3 (required)
<b>displayName (SAML:2.0)</b>	urn:oid:2.16.840.1.113730.3.1.241 (required)
<b>eduPersonAffiliation (SAML:2.0)</b>	urn:oid:1.3.6.1.4.1.5923.1.1.1.1 (required)
<b>eduPersonPrincipalName (SAML:2.0)</b>	urn:oid:1.3.6.1.4.1.5923.1.1.1.6 (required)
<b>eduPersonScopedAffiliation (SAML:2.0)</b>	urn:oid:1.3.6.1.4.1.5923.1.1.1.9 (required)
<b>eduPersonTargetedID (SAML:2.0)</b>	urn:oid:1.3.6.1.4.1.5923.1.1.1.10 (required)
<b>eduPersonUniqueid (SAML:2.0)</b>	urn:oid:1.3.6.1.4.1.5923.1.1.1.13 (required)
<b>email (SAML:2.0)</b>	urn:oid:0.9.2342.19200300.100.1.3 (required)
<b>schacHomeOrganization (SAML:2.0)</b>	urn:oid:1.3.6.1.4.1.25178.1.2.9 (required)
<b>schacHomeOrganizationType (SAML:2.0)</b>	urn:oid:1.3.6.1.4.1.25178.1.2.10 (required)

NameID Format

urn:oasis:names:tc:SAML:2.0:nameid-format:persistent; urn:oasis:names:tc:SAML:2.0:nameid-format:transient

---

Entity information

**Entity ID:** <https://sp.12twenty.com/shibboleth>

**Entity categories:** <http://id.incommon.org/category/registered-by-incommon>

**Registrar:** [InCommon](#)

**First seen:** 2018-04-04

Language: en

**Display Name:** 12Twenty Inc.

**Name:** 12Twenty Inc.

**URL:** <http://www.12twenty.com/>

Contact details

**technical** Kevin Chu; mail: [kevin.chu@12twenty.com](mailto:kevin.chu@12twenty.com)  
**support** General Support; mail: [support@12twenty.com](mailto:support@12twenty.com)  
**administrative** Kevin Chu; mail: [kevin.chu@12twenty.com](mailto:kevin.chu@12twenty.com)  
**REFEDS security** Kevin Chu; mail: [kevin.chu@12twenty.com](mailto:kevin.chu@12twenty.com)

Validator warnings

mdrpi:RegistrationPolicy not found

CoCo status

no CoCo EntityAttribute in place

Service Provider information [LOGO]

Language: en

**Service Name:** 12Twenty SP  
**Display Name:** 12Twenty SP  
**Description:** Service Provider 12twenty Production Site  
**Privacy policy:** <https://www.12twenty.com/privacy-policy/>

Protocols

urn:oasis:names:tc:SAML:1.1:protocol; urn:oasis:names:tc:SAML:2.0:protocol

Requested attributes

**eduPersonPrincipalName (SAML:2.0)** urn:oid:1.3.6.1.4.1.5923.1.1.1.6