

Ubuntunet Identity Federation Training

eduGAIN Tools

Addis Ababa Feb 2, 2024

www.geant.org

In order to ease service implementation, use and maintain, eduGAIN offers various online tools, which can be found on <u>technical.edugain.org</u>

The provided tools are useful in many areas like:

- eduGAIN profiles compliance check
- Metadata validation
- Entities state check

and others.

Metadata validator

https://technical.edugain.org/validator2

This tool tests metadata and each entity from provided URL.

Tests cover all *MUST*s and *SHOULD*s from the eduGAIN Metadata profile requirements and recommendations, thus offering possibility to easily debug metadata errors and warnings.

This tool is most useful to understand if entities are able to join into eduGAIN, thus reducing malformed ones in metadata.

GEANT	🛠 eduGAIN
n Tools > Federation metadata validator	
Federation's metadata URL	
To check registrationAuthority field in value here	put the
may set a number of language tags which will these languages appears within language varia generated if no other language variants are pre	ertain elements. All entities SHOULD have an English variant and a local one. You be then treated as local languages and the validator will issue a warning if none of ants of the entities. You may set the language to "en" so that no warnings are esent in the entities. complain only if no non-English variants are found.
Colored and the second second	click to add next language tag
Select your language tag	
or	
	 no EntitiesDescriptor tag and matadata not signed
or skip local language checks Metadata URL contains only one entity	 no EntitiesDescriptor tag and matadata not signed eduGAIN profile requirements and recommendations (see eduGAIN Policy

Metadata validator

As test result, this tool offers various information about entities or attributes contained in metadata fetched from the provided URL.

See <u>ec</u>	<u>IUGAIN P</u>	<u>olicy Fran</u>	<u>nework</u>						
Gene	eral info	Errors	Warnings	Detailed info	Signing info	Entities log	gos list	Entities list	
			le	dP's entities					SP's entities
1	AESM https://idj	p.vle.ase.m		loldova idp/metadata.php ions.renam.md/			RENAM https://m	on Management B anage.federations tion Authority: http:	
2		dp.federatic	ons.renam.md ty: http://federat	ions.renam.md/			RENAM https://fil	Filesender esender.renam.m tion Authority: http:	d //federations.renam.md/
3							GEANT https://ca	:-IdP-test-SP ampus-idp-test.ge tion Authority: http:	ant.org //federations.renam.md/

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Entities database

Tool results offer reach set of information about entities from selected federation like entity state, details, warning/errors, information about compliance with eduGAIN profiles, etc..

SAML 2.	0 support ?	ECCS IdP test status ?	Entity clashes ?	Validator warnings ?	CoCo status ?	SIRTFI status ?
No filter	•	No filter	No info	No info	No filter	No filter
Appeare	d in eduGAIN: ?)				
Any ti	ime O This month	h O Last 7 days O Selec	ted date:			
Show	Download CSV	Clear form	n			
			Listing of all entitie	s (8), 1 federation		
	IdP Agency	y ARNIEC RoEduNet IdP			E	CCS
	Entity ID: https://id	dp.roedu.net/idp/shibboleth				
1	Entity categories:	REFEDS Research and Sch	olarship			Entity details
	SIRTFI: asserted	d				<u>entry details</u>
	Registrar: RoEdu	INetID				
	Org: Agency ARM	NIEC - RoEduNet				
	IdP Lucian	Blana University of Sibiu	INP		50	002

Prev <u>Next</u>	Show ECCS info	Show MET info	Show XML	Close
Entity de	tals			
Entity inf	ormation			
Entity ID:		https://idp.roedu.ne	et/idp/shibboleth	
Entity cat	tegories:	REFEDS Research ar	nd Scholarship	
SIRTFI:		asserted		
Registrar	:	<u>RoEduNetID</u>		
First seen	1:	2019-10-28		
Language	e: en			
Display N	lame:	Agency ARNIEC - R	oEduNet	
Name:		Agency ARNIEC - R	oEduNet	
URL:		https://www.roedu.	<u>net/</u>	
Language	e: ro			
Display N	lame:	Agenția ARNIEC - R	RoEduNet	
Name:		Agenția ARNIEC - R	RoEduNet	
URL:		https://www.roedu.	<u>net/</u>	
Contact o	letails			
technical		mail: <u>edugain@roec</u>	<u>du.net</u>	
support		mail: <u>edugain@roec</u>	<u>du.net</u>	
REFEDS s	ecurity	Security Response 1	Feam (RoCSIRT); I	mail: <u>abuse@roedu.net</u>

Identity Provider information

Language: en	
Display Name:	Agency ARNIEC RoEduNet IdP
Description:	This Identity Provider (IdP) serves Agency ARNIEC staff
Language: ro	
Display Name:	IdP Agenția ARNIEC RoEduNet
Description:	Acest IdP deservește angajații Agenției ARNIEC - RoEduNet
Protocols	
urn:mace:shibboleth:1.0; u	rn:oasis:names:tc:SAML:1.1:protocol; urn:oasis:names:tc:SAML:2.0:protoco



Entities database

All Oldentity Providers Oservice Providers OAttribute Authorities (standalone)

https://technical.edugain.org/entities

Entity Type

Entities Database Explorer, used to list eduGAIN metadata entities, having rich set of filters for fast entity search, offers possibility to visualize shared information about any participating federation and entity.

Entity category filter 🕐					Voting-only Members		
No filter		•			Candidates		
Federation filter (you may	select multiple)				Entities in ec	duGAIN	
All forderections					All entities		E
All federations AAF (Australia)		<u>^</u>					
AAI@EduHr (Croatia)					ldPs		3
AAIEduMk (North Macedoni	a)				SPs		2
ACOnet Identity Federation	(Austria)				010		2
AFIRE (Armenia)					Standalone A	\As	
ARNaai (Algeria)	evalno raziskovalna federacij						
			 EntityId sear 	ch			
EntityID substring search	atching. Only EntitVID is searched		 Entityld sear Whole entity 		search		
EntityID substring search	atching. Only EntityID is searched		 Whole entity 	multiword	search ultiword search	1	
EntityID substring search Enter string for a for substring m	atching. Only EntityID is searched	Entity clashes (?)	 Whole entity 	multiword		SIRTFI st	atus
SAML 2.0 support (?)	ECCS IdP test status (?)	Entity clashes 🧿	Whole entity Reverse who Validator warnings ?	multiword ble entity m	ultiword search	SIRTFI st	
EntityID substring search Enter string for a for substring m SAML 2.0 support (?) No filter	ECCS IdP test status (?)		 Whole entity Reverse who 	multiword	ultiword search		
EntityID substring search Enter string for a for substring m SAML 2.0 support ? No filter Appeared in eduGAIN: ?	ECCS IdP test status (?)	Entity clashes (?) No info •	Whole entity Reverse who Validator warnings ?	multiword ble entity m	ultiword search	SIRTFI st	

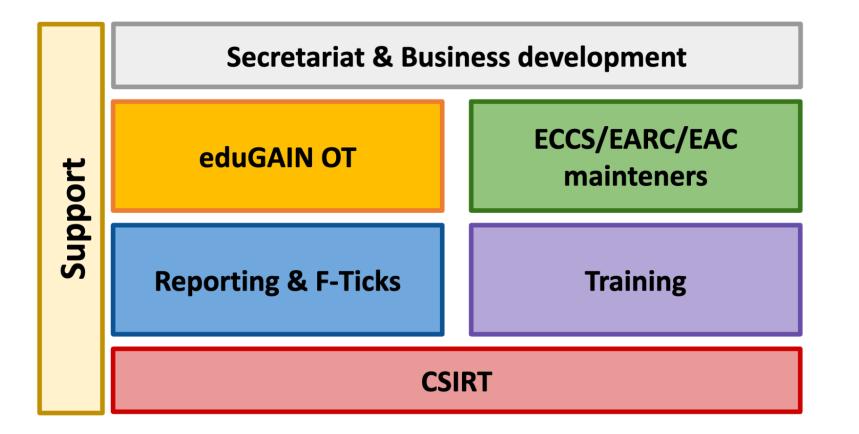
www.geant.org

?

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Participants

eduGAIN operation and related services



GE/

ECCS: the eduGAIN Connectivity Check Service

https://technical.edugain.org/eccs/

The purpose of the eduGAIN Connectivity Check is to identify eduGAIN Identity Providers (IdP) that are not properly configured thus increasing the overall service quality and user experience of the eduGAIN interfederation service by making federation and Identity Provider operators aware of configuration problems.

Identity Providers | All IdP Test Results | Instructions | Contacts

Show IdPs with status: <u>Erro</u>	<u>r Warning OK Disabled Show all</u>					
<u>Display Name</u> ≑	<u>entityID</u> ≑	Registration Authority 🗢	Contacts	<u>Last Test</u> 🖨	<u>Current Result</u> ≑	Tests
			T: Technical, S : Support		All	Search
ldP data				Last test results	i	
Icahn School of Medicine at Mount Sinai	https://sso.mssm.edu/idp	https://incommon.org	T: <u>support@entity.com</u>	2020-05-12 03:37:06	ок	<u>∨iew</u>
Henan University of Technology	https://idp.haut.edu.cn/idp/shibboleth	https://www.carsi.edu.cn	T: <u>support@entity2.cn</u>	2020-05-12 03:37:04	ок	<u>∨iew</u>
UNL - Faculty of Sciences and Technology	https://idp.fct.unl.pt/idp/shibboleth	https://www.fccn.pt	T: <u>support@another.pt</u> S: <u>support2@another.pt</u>	2020-05-12 03:37:03	ок	<u>∨iew</u>

The check is performed once per day by sending a SAML authentication request to each eduGAIN IdP. The expected result is a login form that allows users to authenticate or an HTTP or login form error message.

Release check

https://release-check.edugain.org

The eduGAIN Attribute Release Check (EARC) service allows testing whether the Identity Provider of an organisation participating in eduGAIN properly releases user attributes to eduGAIN services.

eduGAIN Attribute Release Check

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".

The eduGAIN Attribute Release Check (EARC) service allows testing whether the Identity Provider of an organisation participating in eduGAIN properly releases user attributes to eduGAIN services.

The service will test if the Identity Provider supports attribute release based on the REFEDS Research & Scholarship (R&S) and the GÉANT Data Protection Code of Conduct (CoCo) entity categories. A third test will analyzes which attributes an Identity Provider is able to release in general and how many eduGAIN services a user can access based on these attributes.

To perform the test, click on "Start" and then choose your Identity Provider. After successful login, you will automatically access all three tests and see the test result at the end.

Start the test

REFEDS R&S Test

entityID: https://rns-ng.release-check.edugain.org/shibboleth Include this SP to the test: Yes

Details: hide



entityID: https://coco.release-check.edugain.org/shibboleth Include this SP to the test: Yes

Details: hide

No Entity Category Test

entityID: https://noec.release-check.edugain.org/shibboleth Include this SP to the test: Yes

Details: hide

Release check

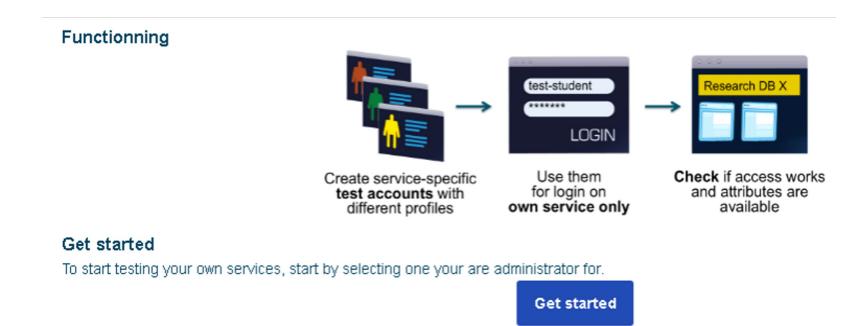
As a result, tool offers graduated, explained results grouped by categories.

REFEDS R&S Test Tested EntityID: https://ms-ng.release-check.edugain.org/shibboleth Verdict: D IdP sends superfluous personal information in eduPersonEntitlement attribute More details on verdict Hints about R&S IdP configuration Details:	GEANT Data Protection Code of Conduct Test Tested EntityID: https://coco.release-check.edugain.org/shibboleth Verdict: D IdP sends superfluous personal information in displayName attribute More details on verdict Hints about CoCo IdP configuration	No Entity Category Test Tested EntityID: https://noec.release-check.edugain.org/shibboleth IdP sends superfluous personal information in displayName attribute More details on verdict Details: show Attributes Received • mail ok
Attributes Received • eduPersonPrincipalName ok • mail ok • displayName ok • eduPersonScopedAffiliation ok • eduPersonTargetedID ok • ok • sn ok • comment Not requested • Matributes Missing	Details: show Attributes Received • mail ok • eduPersonPrincipalName ok • eduPersonScopedAffiliation ok • eduPersonScopedAffiliation ok • • • • • • • • • • • • • • • • • • •	 eduPersonScopedAffiliation ok eduPersonScopedAffiliation ok displayName Not requested eduPersonEntitlement Not requested eduPersonTargetedID Not requested sn Not requested Sn Not requested Attributes Missing

eduGAIN Access Check

https://access-check.edugain.org

eduGAIN Access Check is a service based on the same named software, allowing administrators of service providers registered in eduGAIN interfederation to safely test their service behavior.



eduGAIN Access Check benefits

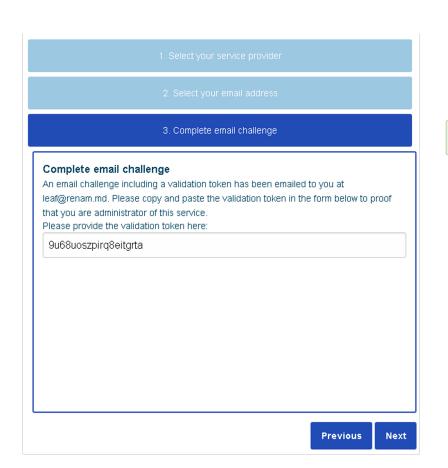
eduGAIN Access Check tool allows SP administrators to ensure proper functioning of their services within eduGAIN. It is especially useful for services not hosted by an R&E institution, because they can't use their own IdP to login and test their production eduGAIN-enabled service. Tool makes the SP operators aware that:

- different eduGAIN IdPs will release varying set of attributes
- the vocabulary and semantics of some attributes (i.e. eduPersonAffiliation) differ from federation to federation

eduGAIN Access Check releases a reasonable set of attributes to SPs, depending on the entity categories (GéANT Data Protection Code of Conduct, REFEDS Research & Scholarship) they belong to. This should encourage SP administrators to follow the eduGAIN guidelines and facilitate the use of entity categories.



eduGAIN Access Check usage



After simple SP control confirmation procedure, a set of accounts, available for next 7 days, will be created on *eduGAIN Access Check* IdP.

Success: your identity as administrator of the Service Provider https://manage.federations.renam.md has been validated!

Test accounts created

You can now use these test accounts to access your service provider, using eduGAIN Access Check as identity provider.

This page won't be accessible again, you should either keep it open in your web browser, or download accounts in CSV format.

Account	t profile: fullset1	Account	profile: limitedset1
user name:	user496	user name:	user497
password:	i#Z&MBx:2N	password:	7nHf\$DX=tR
comment: A person with all e plus givenName a	eduGAIN user attributes and surname.	comment: A person with ou eduPersonTarg	nly an etedID attribute.
sh	iow details	s	show details

eduGAIN APIs

https://technical.edugain.org/monitoring

This API offers metadata validation and monitoring functionality. Monitoring tool offers metadata state and offers explanation in case of feed errors.

https://technical.edugain.org/api

This API offers a lot of methods used to retrieve various information about federations and entities, useful for fine grained monitoring and statistic information collection.





Thank you

Any questions?

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