

# **Identity Federation Training**

eduGAIN Tools

### **GN4-3-WP5-eduGAIN**:

Anass Chabli (RENATER) Mario Reale (GÉANT) Valentin Pocotilenco (RENAM)

www.geant.org



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

The provided tools are useful in many areas like:

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

and others.



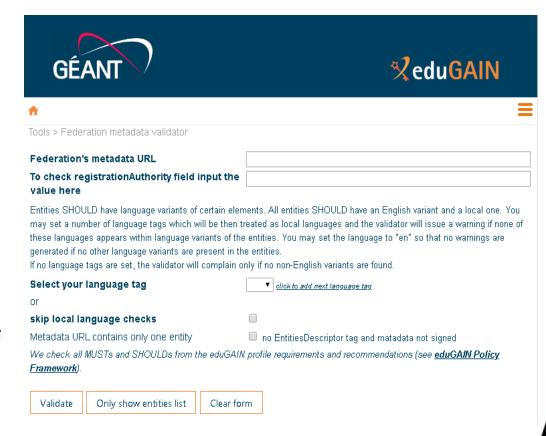
### Metadata validator

### 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.





### Metadata validator

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

#### See eduGAIN Policy Framework

Gene	eral info	Errors	Warnings	Detailed info	Signing info	Entities log	gos list	Entities list		
IdP's entities							SP's entities			
Academy of Economic Studies of Moldova AESM  https://idp.vle.ase.md/saml/saml2/idp/metadata.php Registration Authority: http://federations.renam.md/							Federation Management Board RENAM https://manage.federations.renam.md Registration Authority: http://federations.renam.md/			
GIDP-RENAM RENAM https://gidp.federations.renam.md Registration Authority: http://federations.renam.md/							RENAM Filesender RENAM https://filesender.renam.md Registration Authority: http://federations.renam.md/			
3				Campus-IdP-test-SP GEANT https://campus-idp-test.geant.org Registration Authority: http://federations.renam.md/						



### **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..

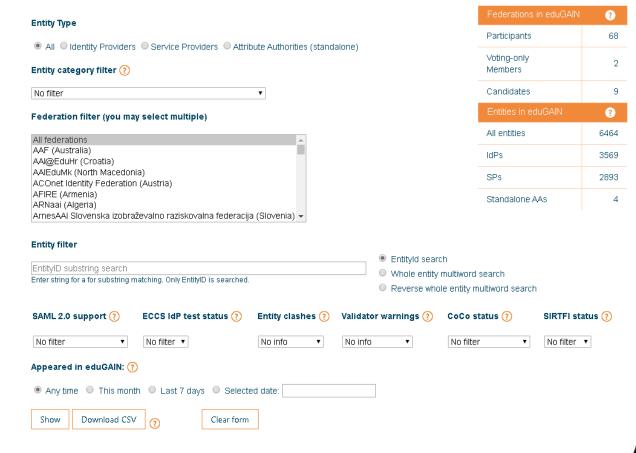




### **Entities database**

### https://technical.edugain.org/entities

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.





### isFederated Check

### https://technical.edugain.org/isFederatedCheck/

Using available data in eduGAIN metadata, this tool checks provided email or domain name for membership to federated entity.

In case entity isn't federated and there are no tool limitations caused by provided data, using top domain name, national federation page and contact email are offered to take further actions.

#### eduGAIN is Federated Check

Do you want to know if an organisation is federated already and part eduGAIN? Do you want to list all organisations whose users are in eduGAIN? Do you want to see how many Identity Providers of a federation are part of eduGAIN? Then the isFederated Check is what you are looking for.

#### **Description and Features**

- . Show further information about features, limitations, API and how the service works
- List all known production academic identity federations including their eduGAIN coverage and metadata freshness
- List and search all Organisations in eduGAIN

#### Check if an Organisation or User is in eduGAIN

Provide a space or line separated list of (institution) email addresses (e.g. john.doe@switch.ch or just @switch.ch if you don't trust this service). URLs (https://www.mit.edu/some/page), domain name (cam.ac.uk) or a URN (urn:mace:incommon:mit.edu). If a domain is mentioned several times, the result will also show how many times it was mentioned. When entering e.g., all email addresses (or at least the FQDNs of the email addresses) of a community, the result will show a histogram of members per organisations, ordered by organisation.



# **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   <u>All IdP Test Results</u>   <u>Instructions</u>   <u>Contacts</u>						
Show IdPs with status: Erro	how IdPs with status: Error   Warning   OK   Disabled   Show all					
Display Name 💠	entityID 🗢	Registration Authority 🗢	Contacts	<u>Last Test</u> <b>‡</b>	Current Result 🕏	Tests
			T: Technical, S: Support		All ▼	Search
IdP data				Last test results	3	
Icahn School of Medicine at Mount Sinai	https://sso.mssm.edu/idp	https://incommon.org	T: support@entity.com	2020-05-12 03:37:06	ОК	<u>View</u>
Henan University of Technology	https://idp.haut.edu.cn/idp/shibboleth	https://www.carsi.edu.cn	T: support@entity2.cn	2020-05-12 03:37:04	ок	<u>View</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>View</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.

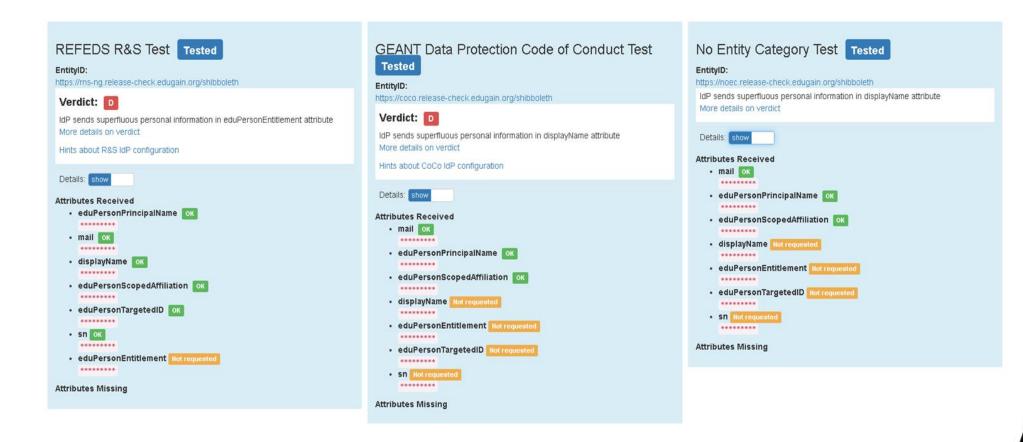
#### eduGAIN Attribute Release Check To get a better understanding of attribute release in general, how it affects services in eduGAIN and what to consider to properly implement it, we strongly recommend to have a look at the GÉANT online course on "Successful Attribute Release". The eduGAIN Attribute 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 analyze 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 GEANT Data Protection Code of Conduct Test** No Entity Category Test entityID: https://rns-ng.release-check.edugain.org/shibboleth entityID: https://coco.release-check.edugain.org/shibboleth entityID: https://noec.release-check.edugain.org/shibboleth Include this SP to the test: Yes Include this SP to the test: Yes Include this SP to the test: Yes Details:

9



### Release check

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

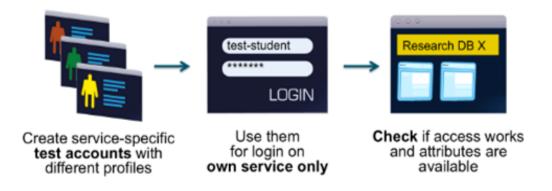


### eduGAIN Access Check

### 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.

#### Functionning



#### Get started

To start testing your own services, start by selecting one your are administrator for.

Get started



### eduGAIN Access Check benefits

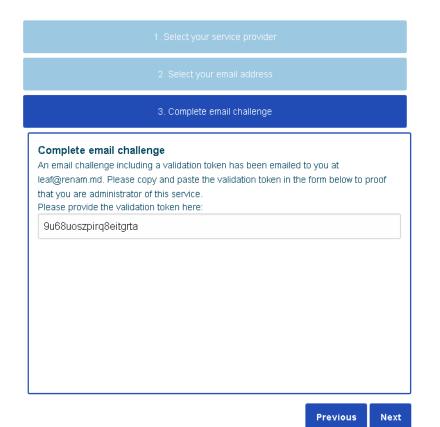
eduGAIN Access Check tool allows SP administrators to ensure proper functioning of their services within eduGAIN. It is especially useful for services not hosted by an R&E institution, because they can't use their own IdP to login and test their production eduGAIN-enabled service. Tool makes the SP operators 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 profile: limitedset1				
user name:	user497			
password:	7nHf\$DX=tR			
comment: A person with only an eduPersonTargetedID attribute.				
show details				



# eduGAIN profiles compliance

### https://monitor.edugain.org/coco/

This tool performs checks on elements asserting compliance to the *Data* protection Code of Conduct, checks Privacy Policy referenced by PrivacyStatementURL, located inside entity's metadata, which resolves to a page referencing to the *Data Protection Code of Conduct*, accumulate data used for SP audit.

### https://technical.edugain.org/compliance audit

This tool presents audit results of eduGAIN member federations compliance with eduGAIN SAML Profile. The audit is performed every hour as a part of the eduGAIN aggregation process.



### 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?

www.geant.org



© GÉANT Association on behalf of the GN4 Phase 3 project (GN4-3). The research leading to these results has received funding from the European Union's Horizon 2020 research and innovation programme under Grant Agreement No. 856726 (GN4-3).