Ubuntunet Identity Federation Training

eduGAIN Tools

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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
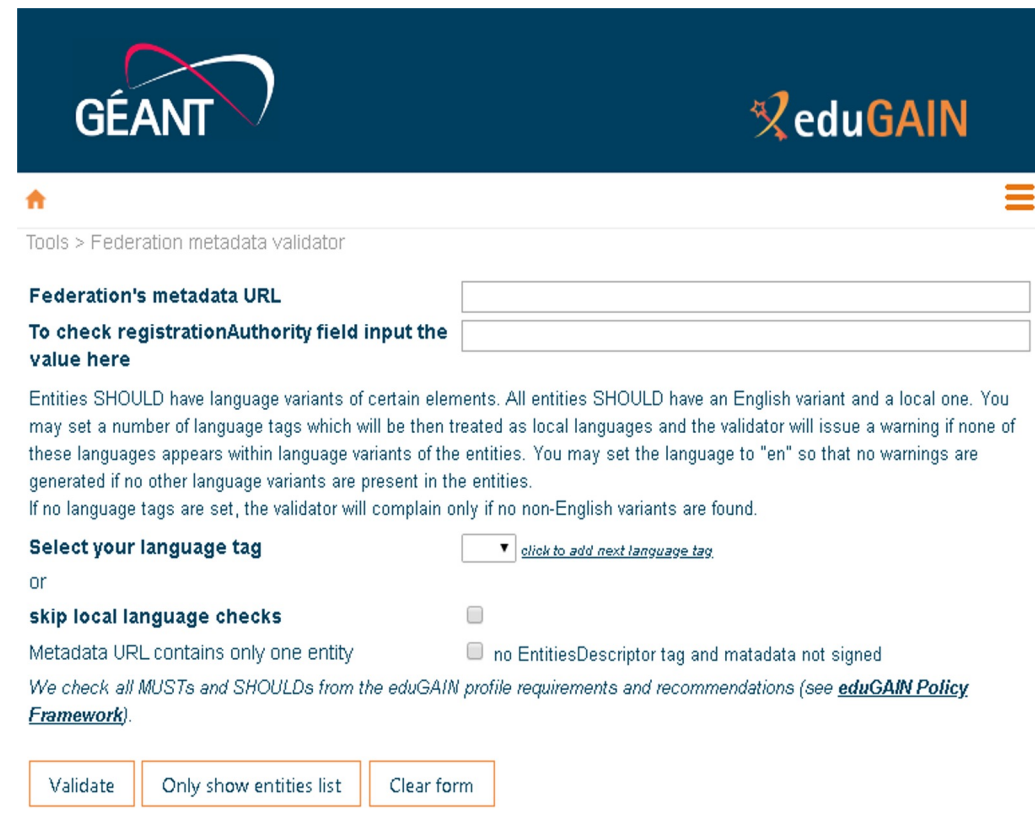- Entities state check

and others.

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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

General info	Errors	Warnings	Detailed info	Signing info	Entities logos list	**Entities list**

	IdP's entities	SP's entities
1	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/
2	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..

www.geant.org

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.

eduGAIN operation and related services
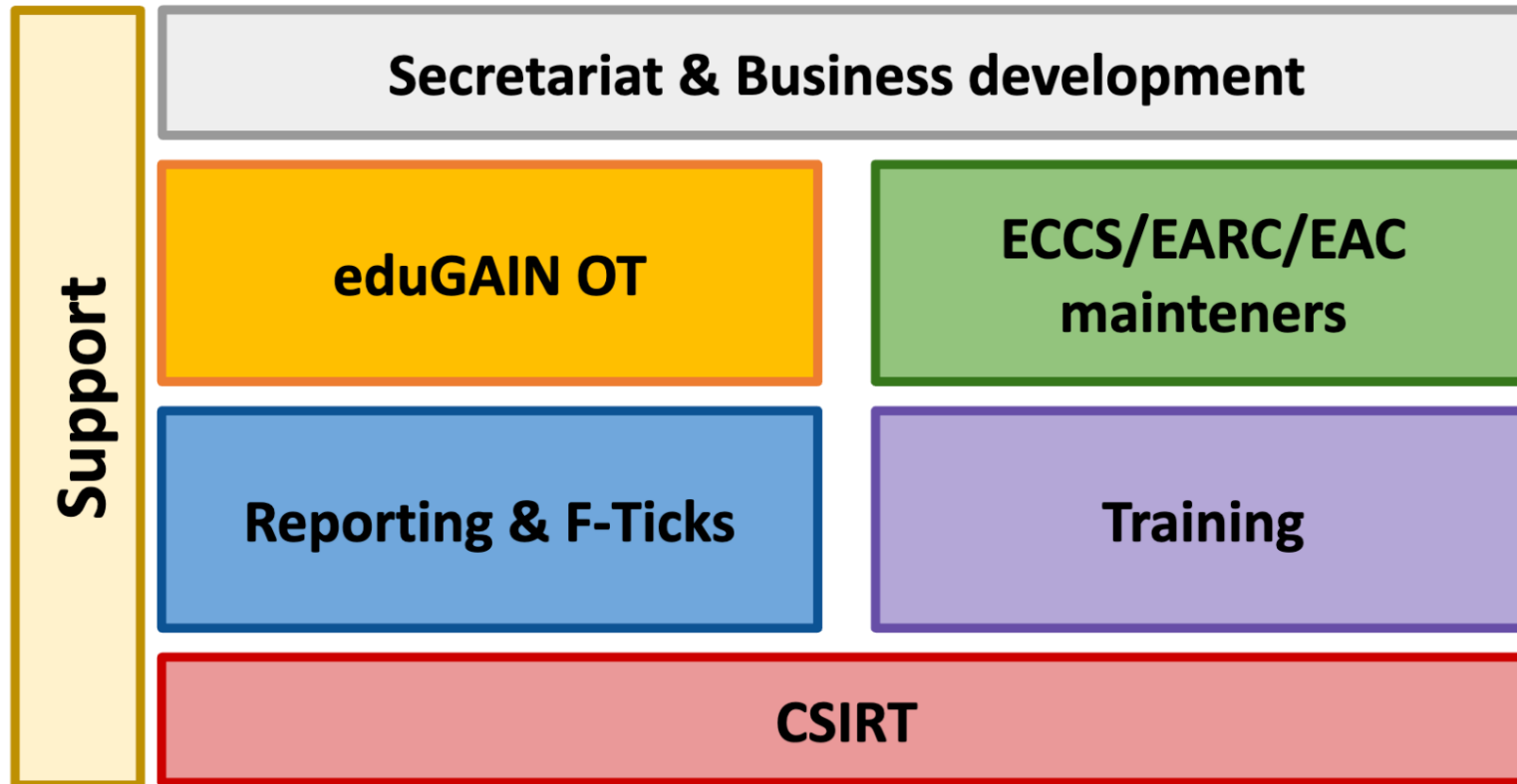
ECCS: the eduGAIN Connectivity Check Service

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: **Error** | **Warning** | **OK** | Disabled | **Show all**

Display Name ⇕	entityID ⇕	Registration Authority ⇕	Contacts	Last Test ⇕	Current Result ⇕	Tests
			T: Technical, **S**: Support		All ▼	Search
IdP data				Last test results		
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	OK	View
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	OK	View
UNL - Faculty of Sciences and Technology	https://idp.fct.unl.pt/idp/shibboleth	https://www.fccn.pt	**T**: support@another.pt **S**: support2@another.pt	2020-05-12 03:37:03	OK	View

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.

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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.

Release check

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

REFEDS R&S Test   Tested

EntityID:
https://rns-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: show

Attributes Received
- eduPersonPrincipalName   OK
  ****
- mail   OK
  ****
- displayName   OK
  ****
- eduPersonScopedAffiliation   OK
  ****
- eduPersonTargetedID   OK
  ****
- sn   OK
  ****
- eduPersonEntitlement   Not requested
  ****

Attributes Missing

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

Details: show

Attributes Received
- mail   OK
  ****
- eduPersonPrincipalName   OK
  ****
- eduPersonScopedAffiliation   OK
  ****
- displayName   Not requested
  ****
- eduPersonEntitlement   Not requested
  ****
- eduPersonTargetedID   Not requested
  ****
- sn   Not requested
  ****

Attributes Missing

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
  ****
- eduPersonPrincipalName   OK
  ****
- eduPersonScopedAffiliation   OK
  ****
- displayName   Not requested
  ****
- eduPersonEntitlement   Not requested
  ****
- eduPersonTargetedID   Not requested
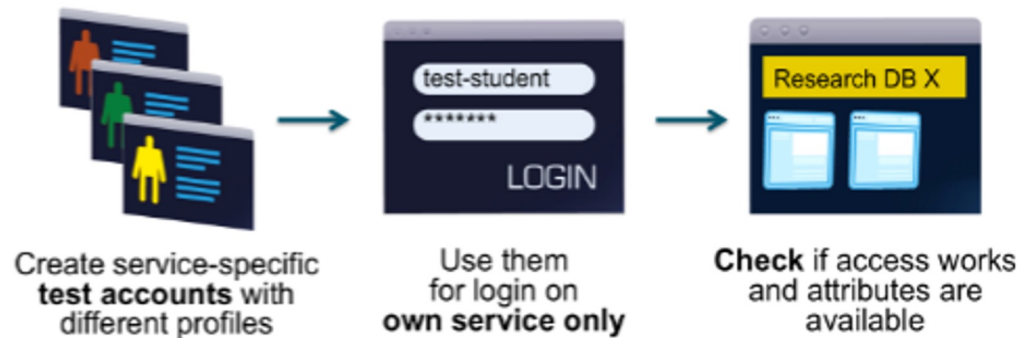 ********
- sn   Not requested
  ****

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.

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.

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Thank you

Any questions?

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