EGI: Advanced Computing for Research



Authentication and Authorisation Infrastructure Training: Identity management with Check-in VO management with COmanage

Nicolas Liampotis (GRNET) Nick Evangelou (GRNET)



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- Introduction
- User Identity Management with EGI Check-in
 - Sign-up
 - Profile view
 - Identity linking
- Virtual Organization (VO) Management with COmanage Registry
 - VO enrollment flows
 - VO group membership & role management
 - VO statistics
 - VO membership API
 - LDAP Access to VO membership information

2022-09-22



Authentication & Authorisation

The big picture



3

→ Unique Check-in

identifier \rightarrow linked to





User Identity Management with EGI Check-in



Accessing resources protected by EGI Check-in requires signing up using your existing academic/social account

 \rightarrow Try me!

https://aai-demo.egi.eu/signup





User Sign-up | Login

Identity Provider Discovery

Check-in Select your identity p X +				
O A https://aai.egi.eu/proxy/module.php/discopower/disco.php?entityID=https%3A%2F%2Faai.egi.eu% Q Search		⊠ ₪	<i>a</i> , e	≡
egi				
Check-in				
Choose your academic/social account				
Q Search 29 Mavis University				
A'SHARQIYAH UNIVERSITY				
A*STAR - Agency for Science, Technology and Research A. T. Still University				
AAF Virtual Home				
aai.lab.maeen.sa AAl@EduHr Single Sign-On Service				
Or				
Bitbucket				
IGTF In Linkedin DORCID Umbrella				
E ria				
Can't find your identity provider?				
	EGL elnfr	-	-0	20



User Login

Identity Provider Discovery

	in Select your identity $_{\mathbb{P}} imes$ +				1.9
\rightarrow G	O A https://aai.egi.eu/proxy/module.php/discopower/disco	p.php?entityID=https%3A%2F%2Faai.e	gi.eu% ☆ 🔍 Sea	rch	a. 🤣 🗉
	Login			×	
	LOG IN WITH NATIO	ONAL INFRASTRUCTURES FOR RESEARCI GRNET	H AND TECHNOLOGY -		
		or			
	Q Search	CHOOSE ANOTHER ACCOUNT			
	National I				
	A'SHARQIYAH UNIVERSITY		_		
	A*STAR - Agency for Science, Tech	nology and Research			
	A. T. Still University				
	AAF Virtual Home				
		or			
	🖬 Bitbucket	Tue SSO	elfe [*] LOG-IN	B2ACCESS	
	Escebook GitHul	Google	8°7		
			eduTEAMIS	The identity Provider Open	
		din D ORCID	umbrella	WeChat	
		Fria			
		Can't find your identity provider?			



and agree to

affiliation

Acceptable Use Policy

(AUP)

Step 1	Step 2	Access	
Review user profile information • name • email	Verify email address - only if a verified email address is not released by the user's	Gain <i>authorised</i> access to resources	_

authenticating identity

provider

@EGI_eInfra 🎡 www.egi.eu



Step 1 - Review

	EGI User Community
EGI ID	
Name* <i>Your full name</i>	Given Name * loannis Family Name * Igoumenos
Email You current email address	Email *

✓ Review profile information✓ Agree to AUP

esi Name* Your full name Email You current email address Faculty Athlation Organisation Agree to Acceptable Lise Policy and Conditions of Lise (AUP) You must review and agree to the following AUP before continuin EGLAAL Terms of Use Review Acceptable Use Policy I Agree After you click Submit, we'll send you an email and you simply click on a link to confirm your email address 🔶 gmet ု 🔘 💮 www.egi.eu @EGI_eInfra 2022-09-22



Step 2

Next, you will need to confirm your email address. Check your inbox and open the link on your browser.

This step is **SKIPPED** in case of an email known to be verified by the Identity Provider



Check-in

🔄 🛛 We Sent You An Email

Just click the link in that email to complete your signup.

If you do not find the email in your Inbox, please check your **Spam** or **Junk** folder for an email from **EGI Check-in Notifications** *anoreply@faai.grnet.gr.* If you do find the email in these folders, mark the email as "safe" or "not spam" to ensure that you receive any future notifications about your EGI Check-in ID.

— YOU WILL HAVE 72 HOURS TO VERIFY YOUR ACCOUNT –

Request to join EGI User Community 😕 🔤

8 C

EGI Check-in Notifications (Demo environment) <noreply@faa... 23:34 (2 minutes ago) 🛠 ← 🚦

You have requested to join the EGI User Community. As part of this process, you will be assigned a personal EGI Check-in ID which is needed to access EGI tools and services.

To confirm your request and to verify this email address belongs to you, click the link below and then sign in using the login credentials from your home identity provider.

https://aai-demo.egi.eu/registry/co_invites/reply/c089cc0c5fc68b6bbd04abc75fa16b11131aa86

If you didn't make this request or if you believe an unauthorised person is attempting to access EGI resources using your identity, you should ignore this message.

Thank you, EGI AAI Support



Step 2 - Verify email

Click on "Accept" to finalise the registration.

This step is **SKIPPED** in case of an email known to be verified by the Identity Provider

	EC	GI User Community
	Invitati	on to EGI User Community
	Invitation for IOAN	INIS IGOUMENOS C Accept C Decline
Click Accept to complete ye	our registration	
EGI ID	Identifier	853343953962446413604251343660301443642931766954278 60760306910
Name* Your full name	Given Name Family Name	IOANNIS IGOUMENOS
Email You current email address	Email	kipseredgesil.com
Affiliation	Affiliation	Faculty
Organisation	Organisation	
	www.egi.	eu 🕑 @EGL_elnfra 2022-09-22



Access resources



2022-09-22

13



Check-in Profile View

- 1. Go to <u>https://aai.egi.eu/registry</u> (or <u>https://aai-demo.egi.eu/registry</u> for the DEMO environment)
- Select Login and authenticate using any of the login credentials already linked to your Check-in profile
- 3. From the top bar menu, select **<Your name>** and click **My EGI User Community Identity**





Identity linking allows accessing resources with the same Check-in ID using different login credentials

1. Select Actions → Link New Identity from your Check-in Profile page





3. **Choose** new Identity Provider from the list

	Choose your academic/social account
Q	Search
	ORCID
	A'Sharqiyah University
	A*STAR - Agency for Science, Technology and Research
	A. T. Still University
	AAF Virtual Home
	aai.lab.maeen.sa
	AAI@EduHr Single Sign-On Service
	Aalborg University
	Aalto University
	Aarhus School of Marine and Technical Engineering
	Aarhus University
	AARNet
	Aba Teachers University
	Abertay University
	or
	😰 ORCID 💽 TIA 😨 Bitbucket 🦾 sso

IMPORTANT: Select "CHOOSE ANOTHER ACCOUNT"

4. **Authenticate** with the new Identity Provider

	Welcome	Back	
on't miss yo	our next opportunity. Sign in to st	ay updated on your profess	ional world.
	Email or Phone	0	
	Password	Show	
	Cancel	Sign in	
	Forgot pass	word?	
	New to LinkedIn?	Join now	

2022-09-22



The new Identity is linked under your profile



RCauth certificate linking





VO Management with COmanage Registry



- User can request membership to a VO through an enrollment flow
- Each enrollment flow has a unique URL where the user can go to enroll to the desired VO
 - VO managers can share this URL to users, or
 - Users can click Enroll from the People menu and select the suitable enrollment flow







Click **Begin** to start the enrollment flow:

Home > EGI User Community > Join vo.example.eu

Join vo.example.eu

Thank you for your interest in participating in vo, example.eu VO. Please, note that you will not be able to use your EGI Check-in ID to access EGI resources until your request to join the community has been approved by an administrator.

BEGIN 🔿

At the next page, click **Review Acceptable Use Policy** and check the **I Agree** box. Then, you can click "**SUBMIT**" to continue the enrollment flow. Agree to Acceptable Use Policy and Conditions of Use (AUP) You must review and agree to the following AUP before continuing.

EXAMPLE TERMS AND CONDITIONS

Review Acceptable Use Policy Agree

2022-09-22

21



When the petition is submitted, a message will be shown at the top of the screen:

Petition Submitted. Awaiting Review.

Then a VO manager can approve or deny your request

Managing VO Memberships

VO membership request notification

Once a user submits a VO membership petition:

- all VO managers are notified with an email containing a link to the petition.
- they will receive a notification on their COmanage profile. At the top right corner clicking the bell icon someone can see all the notifications.



Home > EGI User Community > Notifications > Notification

Notification

Resolution Email Body

Comment	Petition for Nikos Mastoris changed status from Created to Pending Approval (Join EXAMPLE Virtual Organisati
Status	Pending Resolution Cancel
Source	co_petitions
Subject	Nikos Mastoris
Recipient	CO:COU:vo.example.org:admins
Actor	Nikos Mastoris
Action	CPUP
Created	Mon Oct 25 11:54:16 2021 Europe/Helsinki
Last Notification	Mon Oct 25 11:54:18 2021 Europe/Helsinki
Resolved	
Notification Email Subject	Notification for "Join EXAMPLE Virtual Organisation" (EGI User Community)
Notification Email Body	Petition for Nikos Mastoris changed status from Created to Pending Approval (Join EXAMPLE Virtual Organisati
	https://aai-dev.egi.eu/registry/co_petitions/view/12924

Clicking the petition URL either from the email you received or at the notification message, you can review the request.

2022-09-22

23



Managing VO Memberships

VO membership request review



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Requesting VO Membership





https://aai-demo.egi.eu/registry/co_petitions/start/coef:45

2022-09-22



VO/Group membership and role information

- Allows services to control access to resources based on information about the VO/groups a user is a member of
- One or more values encapsulated in:
 - eduPersonEntitlement attribute (SAML)
 - eduperson_entitlement claim (OIDC)
- Each value formatted as a URN → <u>AARC-G002</u>
 <<u>NAMESPACE>:group:</u><<u>VO>[:<GROUP>*][:role=<ROLE>]#<GROUP-AUTHORITY></u>

2022-09-22



VO/Group membership and role information (Contd.)

27

• Example values:





VO/Group membership and role information (Contd.)



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	C O A https://snf-666522.vm.okeanos.gmet.	r/ssp/module.php/core/authen: ☆ Q. Search 🛛 🐨 🗊		0	
	SAML 2.0 SP Demo Example				
	English ελληνικά Bokmål Nynorsk Sámegiella Dansk De	utsch Svenska Suomeksi Español Français Italiano Nederlands Létzebuergesch	-		
	Čeština Slovenščina Lietuvių kalba Hrvatski Magyar Języ язык eesti keel אַכָרִית Bahasa Indonesia Srpski Latviešu	k polski Português Português brasileiro Türkçe 日本語 简体中文 繁體中文 русский Românește Euskara			
	SAML 2.0 SP Demo Example				
	Hi, this is the status page of SimpleSAMLphp. Here you can a	ee if your session is timed out, how long it lasts until it times out and all the attributes that are			
	attached to your session.				
	Your attributes				
	urn:oid:1.3.6.1.4.1.25178.4.1.6	2ecd35112475ce6d7581aefb296fabaf2a9910ff995ff91fbe01924d1a36896e@egi.eu			
	urn:oid:1.3.6.1.4.1.25178.4.1.14	john.doe@gmail.com			
	Unique, non-reassignable, persistent pseudonymous ID eduPersonUniqueId	2ecd35112475ce6d7581aefb296fabaf2a9910ff995ff91fbe01924d1a36896e@egi.eu			
	Display name displayName	John Doe			
	Mail	john.doe@gmail.com			
	Given name givenName	John			
	Surname sn	Doe			
	User ID	jdoe21			
	Entitlement regarding the service edupersonEntitlement	 um:mace:egi.eu:group:vo.example.eu:role=member#aai.egi.eu um:mace:egi.eu:group:vo.example.eu:role=member#aai.egi.eu 			
		 amanaooogaou.group.ro.oxampe.rou.ror=am_operatormaas.8gi.80 			
	Identity assurance profile	https://refeds.org/assurance/IAP/low			
	equipersonwssurance	 https://aai.egi.eu/LoA#Low 			

<u>https://snf-666522.vm.okeanos.grnet.gr/ssp/module.php/core/authenticate.php</u> <u>?as=egi-demo-sp</u>



VO Group Management

- VO groups in COmanage can only be created by Check-in platform administrators
- Contact <u>checkin-support@mailman.egi.eu</u> indicating the following information for every (sub)group:
 - VO name
 - Group name
 - Group description
 - Optional, Group manager(s)
 - Optional, Parent VO group name (in the case of a hierarchical group, e.g. $\langle VO \rangle \rightarrow \langle PARENT_GROUP \rangle \rightarrow \langle GROUP \rangle$)
- Known limitation: Group names must be unique so the names may need to be adjusted to guarantee their uniqueness

https://docs.egi.eu/users/aai/check-in/vos/#managing-vo-groups



Management of VO group members

Adding member to VO group (1/2)

1) Expand the People drop down menu and click **<VO-NAME> Population** (for example, vo.example.org Population)



2) Find the user you want to add to the VO Group and click **Edit**.

EGI User Community People

Toggle All: Open Closed		Sort By: A Name Status Created Modified
Q Filter		•
a b c d e f g h i j	l m n o p q r	s t u v w x y z Ø
Petr Machacek (Petr.Machacek@cesnet.cz)	Active	✓ Edit
* Daniel Mallmann (d.mallmann@fz-juelich.de)	Active	✓ Edit
* Ricardo Martíns (rjmartins@inec.pt)	Active	∠ Edit
• Nick Mastoris (lionick85@hotmail.com)	Active	∠ Edit
• Nikos Mastoris (nmastoris@admin.grnet.gr)	Active	🖉 Edit
• Nikos Mastoris (nmastoris@admin.gmet.gr)	Active	✓ Edit
Emmanuel Medernach (emmanuel.medernach@iphc.cnrs.fr)	Active	🖉 Edit

https://docs.egi.eu/users/aai/check-in/vos/#adding-members-to-vo-groups



Management of VO group members

Adding member to VO group (2/2)

3) Click Add at the Role Attributes section of the user profile



 Role Attributes
 Image: Add status of the status of the

4) Fill in the fields in the form and click **Add**. The user now is a member of the new VO group.

Home > EGI User Community > My Population > Ioannis Igoumenos > Add CO Person Role

Add a New CO Person Role (Ioannis Igoumenos)

Role Attributes

EGI User Community COU	vo.example.org / group1.vo.example.org
EGI User Community Affiliation *	Member
Status*	Active -

https://docs.egi.eu/users/aai/check-in/vos/#adding-members-to-vo-groups



VO/Group membership and role information



 ⊀ SAML 2.0 SP Demo Example × +			6
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SAML 2.0 SP Demo Example			
Hi, this is the status page of SimpleSAMLphp. Here you can see if your session is timed out, how long it lasts until it times out and all the attributes that attached to your session. Your attributes	are		
urn:oid:1.3.6.1.4.1.25178.4.1.6 4ecd35112475ce6d7581aefb296fabaf2a9910ff995ff91fbe09924d1a36896e@edi.eu			
urn:eid:1.3.6.1.4.1.25178.4.1.14 nicolas.liampotis@gmail.com			
Unique, non-reassignable, persistent pseudonymous ID 4ecd35112475ce6d7581aefb296fabaf2a9910ff995ff91fbe09924d1a36896e@egi.eu eduPersonUniqueId			
Display name Nicolas Liampotis displayNane			
Mail nicolas.liampotis@gmail.com mail			
Given name Nicolas givenNane			
Surname Liampotis sn			
User ID nliampotis21			
Entitiement regarding the service • um:mace:egi.eu.group:vo example eu:role=member#eal.egi.eu edu#ersetEntitlesent • um:mace:egi.eu.group:vo example eu:role=rvm.gerator#eal.egi.eu • um:mace:egi.eu.group:vo example eu:role=rvm.gerator#eal.egi.eu]		
Identity assurance profile			

<u>https://snf-666522.vm.okeanos.grnet.gr/ssp/module.php/core/authenticate.php</u> <u>?as=egi-demo-sp</u>



Management of VO group members

Removing member from VO group (1/2)

1) Expand the People drop down menu and click <VO-NAME> Population (for example, vo.example.org Population)

L People	~
vo.example.org Population	
vo.example.org / group1.vo.example.org Populatio	n
Enroll	
Petitions	
Statistics Viewer	
Sroups	<
☆ Collaborations	

\rightarrow
 \neg

2) Find the user you want to add to the VO Group and click **Edit**.

EGI User Community People

Toggle All: Open Closed		Sort By: A Name Status Crea	ed Modified
Q Filter			•
a b c d e f g h i j k l m	n o p q r s t	u v w x y	z Ø
Petr Machacek (Petr.Machacek@cesnet.cz)	Active		✓ Edit
* Daniel Mailmann (d.mailmann@fz-juelich.de)	Active		✓ Edit
Ricardo Martins (rjmartins@inec.pt)	Active		∠ Edit
Nick Mastoris (lionick85@hotmail.com)	Active		≥ Edit
 Nikos Mastoris (nmastoris@admin.grnet.gr) 	Active		✓ Edit
 Nikos Mastoris (nmastoris@admin.gmet.gr) 	Active		✓ Edit
• Emmanuel Medernach (emmanuel.medernach@iphc.cnrs.fr)	Active		∠ Edit

https://docs.egi.eu/users/aai/check-in/vos/#removing-members

2022-09-22

33



Management of VO group members

Removing member from VO group (2/2)

3) From the VO members list, click **Edit** on the person that is going to be



4) Under Role Attributes click **Delete** on the right of the COU entry of interest (for example, eosc-synergy.eu). On success the selected row will be removed.

Role Attributes									O Add
cou	Title	Affiliation	Valid From	Valid Through	Status	Actions			
eosc-synergy.eu		Member	2020-02-11 00:00:00	2021-02-10 00:00:00	Active	✓ Edit		O Delete	
service-integration.aai.egi.eu		Member	2020-02-10 00:00:00	2022-02-23 23:59:59	Active	/ Edit	& Relink	O Delete	

removed.

EGI User Community People

Toggle All: Open Closed			Sort By: AName Status Created Modified										
Q Filter													
a b c d e f g h i j	k I m n	o p q r s t u	v w x y z Ø										
Valeria Ardizzone (valeria.ardizzone@egi.eu)	Active		∠ Edit										
 Nikolaos Evangelou (nikosev@admin.grnet.gr) 	Active		✓ Edit										
Ioannis Igoumenos (loigoume@admin.gmet.gr)	Active		× Edit										
 Nicolas Liampotis (niam@gmet.gr) 	Active		∠ Edit										
			Page 1 of 1. Viewing 1-4 of 4										

https://docs.egi.eu/users/aai/check-in/vos/#removing-members



Role Management

Assigning role to VO member

1. Navigate to Co Person Role view

Home > EGI User Community > My Population > Ioannis Igoumenos > Edit CO Person Role

2. Choose Role from drop down list, if available, or add custom text if no list is present.



A custom role can be assigned to a VO member during the Enrollment flow process if the user case requires it



Role Management

Home > EGI User Community > My Population FGI User Community People

Removing role from VO member

From the VO members list (see Viewing VO members above):

1. Click Edit on the person that is going to be removed.

2 Under **Role Attributes** click **Delete** on the right of the COU entry of interest (for example, vo.example.com). On success the selected row will be removed. In this example we removed the **vo.geoss.eu** that we previously added.

oggle .	All: Oper	n Closed																				Sort By:	Name	Status	Created	Modified	l
Q Filter																										-	
а	b	С	d	е	f	g	h	i	j	k	1	m	n	0	р	q	r	s	t	u	v	W	х	У	Z	Ø	
Valeria Ardizzone (valeria.ardizzone@egi.eu)									Active									/ Edit									
Nikolaos Evangelou (nikosev@admin.gmet.gr)							Active																/ Edit				
loannis Igoumenos (loigoume@admin.grnet.gr)							Active																/ Edit				
Nicolas Liampotis (nliam@grnet.gr)							Active																∠ Edit				
																							Dago	1 of 1 \	liquing :	1 4 of 4	

Role Attributes						Add
COU	Title	Affiliation	Valid From	Valid Through	Status	Actions
eosc-synergy.eu		Member	2020-02-11 00:00:00	2021-02-10 00:00:00	Active	✓ Edit
service-integration.aai.egi.eu		Member	2020-02-10 00:00:00	2022-02-23 23:59:59	Active	C Edit P Relink O Delete
			4			NA.
					٩	
			www.egi.eu	@EGL_eInfra	202	2 00 22

2022-09-22



Accessible via **People** → **Statistics Viewer**

Home > Statistics Viewer

Logins	Identity Providers	Service Providers	Communities			
Comm	nunities					
Statist	ics Per Community					
Select C vo.exam Created This is th	iommunity: Imple.eu 1: 2020-04-10 10:26:51 he test vo.example.eu				Number of Users 0-1 1-2 2-3 3-4 4-7	9 ACTIVE USERS 0 GRACE PERIOD USERS
			<pre>%</pre>	Stores .		0 SUSPENDED USERS 3 OTHER STATUS

37

2022-09-22



COmanage provides a REST API that allows VO managers to:

- Manage membership information only for the VOs they are authoritative for
- Retrieve VO group information only for the VOs they are authoritative for

Features:

- Members of the VO are identified via their EGI Check-in Community User Identifier (CUID)
- Membership can be limited to a specified period
- All <u>REFEDS</u> membership affiliations are supported
- Role titles are supported
- Different membership status values are supported, namely Active, Expired, Deleted, Suspended
- Check-in automatically changes the membership status from Active to Expired beyond the validity period



VO Membership API

Example: Adding VO member

Requires specifying the following mandatory params:

- User's EGI Check-in identifier,
- Name of the VO (e.g. vo.example.eu),
- status (Active),
- valid from/through dates.

\$ curl -vX POST \$VO API BASE URL.json \ --user "example-client": "veryverysecret" \ --data @add.json \ --header "Content-Type: application/json"

https://docs.egi.eu/users/aai/check-in/vos/#vo-api

```
"RequestType": "CoPersonRoles",
                  "Version": "1.0",
                  "CoPersonRoles": [
                      "Version": "1.0",
                      "Person": {
                        "Type": "CO",
                        "Identifier": {
                          "Type": "epuid",
                          "Id": "01234567890123456789@egi.eu"
                      "Cou": {
                        "CoId": "2",
                        "Name": "vo.example.org"
                      "Affiliation": "member",
                      "Title": "Engineer",
                      "Status": "Active",
                      "ValidFrom": "2022-02-16 11:19:38",
                      "ValidThrough": "2022-05-16 11:19:38"
💮 www.egi.eu
                   @EGI_eInfra
                                            2022-09-22
```

39



LDAP access to VO Membership information

Attribute	Description	Example
objectClass		inetOrgPerson, eduPerson, voPerson, eduMember, ldapPublicKey
voPersonId	Community User Identifier (voPersonID)	befd2b9ed8878c542555829cb2lda3e25ad91a0f9cg54gsdcs35htf@egi.eu
uid	user ID	john.doe
cn	Full name	John Doe
displayName	Full name	John Doe
givenName	First name	John
sn	Last name	Doe
mail	Email address	john.doe@mail.com
edupersonUniqueID	Community User Identifier (see also voPersonId)	befd2b9ed8878c542555829cb21da3e25ad91a0f9cg54gsdcs35htf@egi.eu
eduPersonPrincipalName	A scoped identifier for a person. The value is the same as the	befd2b9ed8878c542555829cb21da3e25ad91a0f9cg54gsdcs35htf@egi.eu
eduPersonEntitlement	URN that indicates a set of rights to specific resources	urn:mace:egi.eu:group:vo.example.org:role=member#aai.egi.eu
sshPublicKey	SSH public key	
isMemberOf	Group memberships	C0:C0U:vo.example.org:members
voPersonCertificateDN	The Subject Distinguished Name of an X.509 certificate held by the person	voPersonCertificateDN;scope-cert1: CN=John Doe A251,0=Example,C=US,DC=cilogon,DC=org
voPersonCertificateIssuerDN	The Subject Distinguished Name of the X.509 certificate issuer	voPersonCertificateIssuerDN;scope-cert1: CN=CILogon Basic CA 1, 0=CILogon, C=US, DC=cilogon, DC=org

https://docs.egi.eu/users/aai/check-in/vos/#ldap



Check-in Documentation

- <u>Usage guide</u>
- Integration guide for service providers
- Integration guide for identity providers

EGI: Advanced Computing for Research





Questions?



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Assurance: What is it?

REFEDS Assurance Components & Profiles





Assurance: What is it?

EGI Check-in Profiles

Based on the authentication method selected by the user, EGI Check-in Proxy assigns a Level of Assurance (LoA).

EGI Check-in currently distinguishes between three LoA levels. Each level is represented by a URI as follows:

- Low: Authentication through a social identity provider or other low identity assurance provider: https://aai.egi.eu/LoA#Low
- Substantial: Password/X.509 authentication at the user's home IdP: https://aai.egi.eu/LoA#Substantial
- High: Substantial + multi-factor authn (not supported yet): https://aai.egi.eu/LoA#High

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