EGI: Advanced Computing for Research



AAI services in EGI -Overview and use cases: Check-in - Latest updates and roadmap

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The work of the EGI Foundation *is partly funded by the European Commission under H2020 Framework Programme*



Check-in: What's new?

- Streamlined user onboarding: Improved UI for signing up using less steps
- Linking identities made easier and faster
- Improved RCauth certificate linking process
- Improved ORCID integration using ORCID API client credentials
- Added support for service 🍲 identities
- Added login, user & group statistics
- Updated VOMS (de)provisioning plugin with support for VOMS Admin SOAP and REST API v3.7.0
- Improved integration with GOCDB:
 - configuration of fallback server in case the main one fails
 - if no GOCDB server is available then inform the user and give the option to abort or continue without GOCDB role entitlements
- New operating environment to improve performance

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(AUP)

and agree to

Acceptable Use Policy

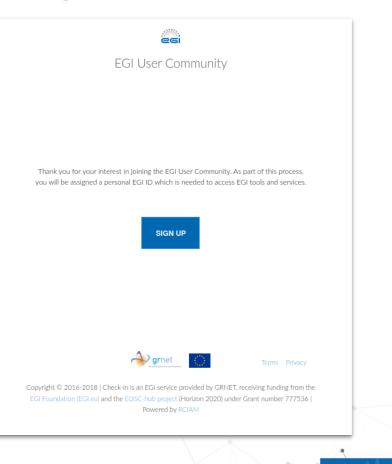
Check-in User Registration

Step 1	Step 2	Step 3
Review user profile information • name • email • affiliation	Verify email address - only if a verified email address is not released by the user's authenticating identity	Access resources

provider



To access resources protected by EGI Check-in, you need to sign up for an account using an academic/social identity provider



Δ



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

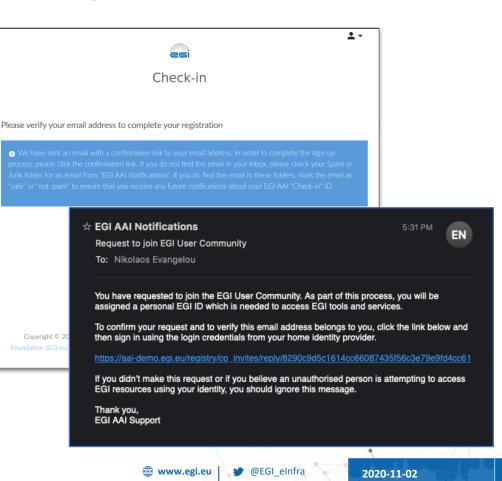
Review your information, agree to the AUP and click on "Submit".

	26	
	EGI User Community	
EGIID		
Name" Your full name		
	Igoumenos	
Ernsil You current ernail address		
Athlation	Faculty	3
Organisation		
Agree to Acceptable Use Policy and Co You must review and agree to the follo		
CI AAI Terms of Use Review Acceptable Use Policy	Z IAgree	
After you click Submit, we'll send you a	n email and you simply click on a link to confirm your email address.	
* denotes required field		SUBMIT
opyright © 2016-2018 Check-in is an EGI s	ervice provided by GRUET, receiving funding from the ECI Foundation (ECI.e.) and the EOSC-hub project (Hortoo 7777536 Powered by RCIAM	n 2020) under Grant number
💮 www.eg	i.eu 🔰 @EGI_eInfra	2020-11-02



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



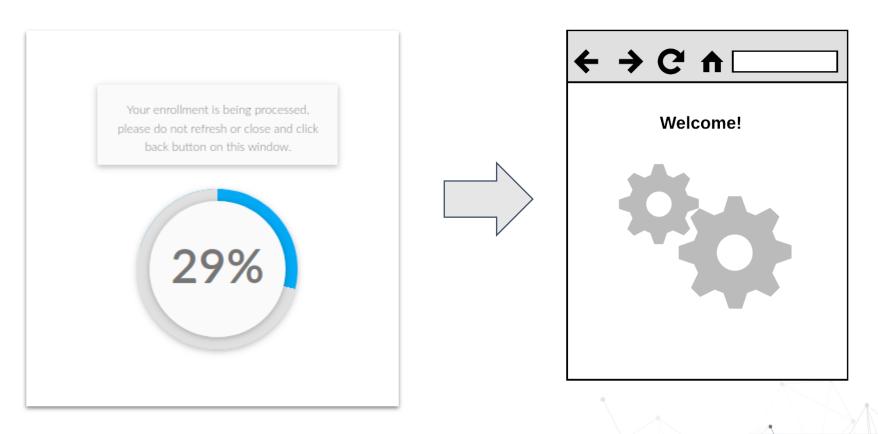


Click on "Accept" to finalize the registration.

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

	EC	GI User Community
	Invitatio	on to EGI User Community
Ir	nvitation for IOAN	INIS IGOUMENOS CAccept Concernation
Click Accept to complete your	registration	
EGI ID	ldentifier	6537439539624484136-0425124-5-6433316436-629317964954278 6596538-66 ex
Name" Your full name	Given Name Family Name	IOANNIS IGOUMENOS
Email You current email address	Email	logsume@gnull.com
Affiliation	Affiliation	Faculty
Organisation	Organisation	
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Identity linking allows accessing resources with the same Check-in ID using different login credentials

1. Click Link New Identity from User's Profile View (https://aai.egi.eu/registry)

	Organization	nal Identities				C Link New Identity
Home > EGI User Community > Link New Identity	Name	Source	Valid From (Europe/Helsinki)	Valid Through (Europe/Helsinki)		
Link New Identity	loannis Igoumenos (11820)	https://aai.egi.eu /orcid/saml2 /idp/metadata.php			ea394a6a26d631fb71246fe0062471100577179897 (epuid)	'abf1e060424cc2ba01(
Identity linking allows you to access EGI resource						
existing EGI ID, using any of the login credentials	you have					
linked to your account. Proceed to link a new ide	ntity to your					
EGI account.						
BEGIN		2.	Click B	egin		



3. Choose new Identity Provider from the list

Check-in Choose your academic/social account Choose your accou		egi
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Can't find your identity provider?		Can't find your identity provider?

4. Authenticate with the new Identity Provider

	Linked
	Welcome Back
on't miss y	our next opportunity. Sign in to stay updated on your professional world.
	Email or Phone
	Password Show
	Cancel Sign in
	Forgot password?
	New to LinkedIn? Join now



The new Identity is linked under your profile





Request and link an RCAuth Certificate under User's Profile takes up to **50% less** time

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Click Link certificate from RCauth.eu CA

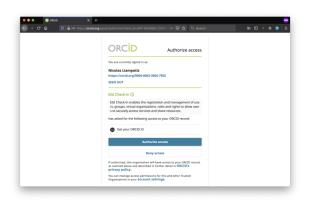
We are fetching a proxy certi the RCauth.eu CA via the Mas	
Please wait	EGI / RCauth test Online CA EGI / RCauth.eu test Online CA consent page
	The Master Portal below is requesting access to your personal information and to act on your behalf. If you approve, please accept, otherwise, cancel. Details on which attributes are released, why, to whom, and how they are processed can be obtained from EGI. Remember Yes, continue No, cancel
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	www.egi.eu @EGI_eInfra 2020-11-02 12

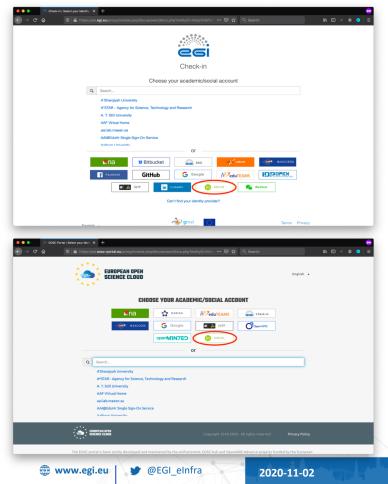


Improved ORCID integration

Member ORCID API

Member API credentials enable requesting permission from users to **read limited-access data** on their ORCID records (e.g. email) through 3-legged OAuth authorization





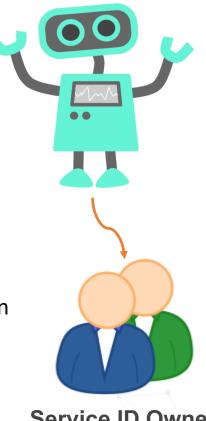
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What are they?

- A special kind of identity used by a service/application/resource, not a person
- Example: "A portal needs to submit jobs/create VMs"
- Associated with one or more persons → Service ID owners
- Comprises all the standard attributes of personal identities, incl. (group) email address, plus
 - isServiceUser attribute set to 1 (will be standardised in upcoming AARC-G056)
- Can be given permissions (VO/group membership & roles) to access the resources it needs
- Analogous to X.509 robot certificates







Roles & responsibilities

Service ID Owner

- Manages Service ID credentials:
 - login & password
 - X509 certificate
- Registers Service ID in one or more VOs

Service ID Owner MUST be registered as a *regular member* of the **services.aai.egi.eu VO** (Perun)

Service ID Manager

- Creates Service ID (under the services.aai.egi.eu VO) upon request
- Assigns Service ID owners
- Removes Service ID

Service ID Manager MUST be registered as a *manager* of the **services.aai.egi.eu VO** (Perun)



Registration procedure

https://perun.egi.eu/egi/registrar/?vo=services.aai.egi.eu



Service ID Owner registers in services.aai.egi.eu VO

Application for	r services.aai.egi.eu			
his VO is used for service accounts r				
Your name* Jan	e Doe			
	Submit			
Support: perun@cesnet.cz		F	Powered by Perun © 2020 CESNE	T & CERIT-SC, License: BSD-2

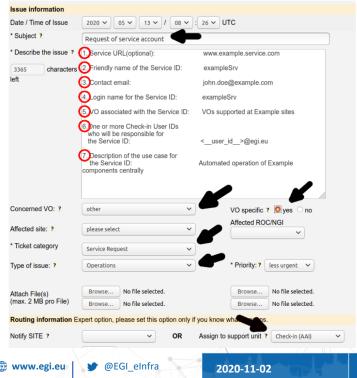


Registration procedure

https://ggus.eu/index.php?mode=ticket_submit

Service ID Owner submits GGUs ticket:

- Service URL (optional)
- Friendly name of the Service ID
- Contact email; it is recommended to supply a group email address if the Service ID is owned by multiple persons
- Login name for the Service ID
- One or more VOs associated with the Service ID
- One or more Check-in User IDs who will be responsible for the Service ID
- Use case description







Registration procedure

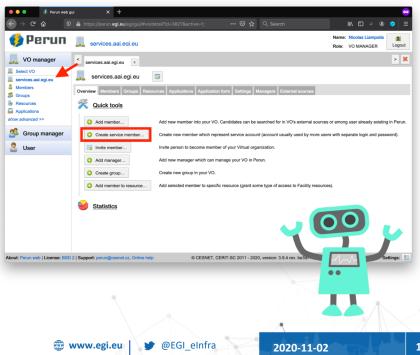


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https://perun.egi.eu/egi/gui

Service ID Manager:

- Creates the new Service ID under the services.aai.egi.eu VO
- Assigns Service ID Owners





Registration procedure

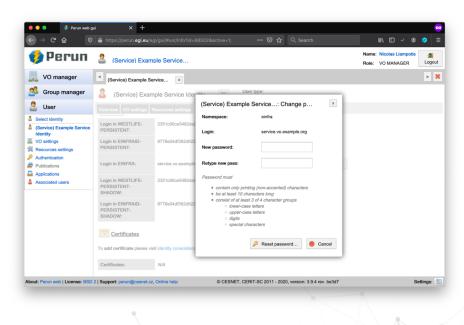


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Service ID Owner creates Service ID credentials

- Username & password or
- X509 certificate

https://perun.egi.eu/egi/gui





Registration procedure

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https://aai.egi.eu/signup



Check-in

Service ID Owner registers the Service ID in Check-in

- Selects EGI Service Account Registry IdP
- Authenticates using Service ID credentials

	Choose your academic/social account
Q	service accou
	EGI Service Account Registry

Authentication Required - Mozilla Firefox		
Þ	https://login.metacentrum.cz is requesting your username and password. The site says: "Kerber META"	
User Name: Password:		
	Cancel OK	



Registration procedure





Service ID Owner registers the Service ID in one or more VOs

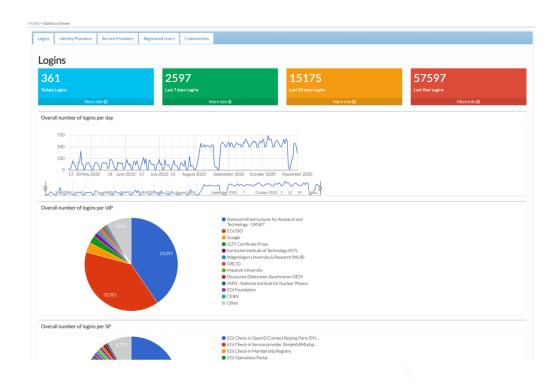
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		EGI User Community	
L People	<	Home > EGI User Community > Select Enrollment Flow	
Sroups	<	Enrollment Flows	
🞽 Email Lists			
🖨 Jobs		Q Filter	•
Configuration		Name	Actions
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		Join biinsight.eosc-hub.eu VO	BEGIN 🔶
		Join covid 19.eosc-synergy.eu	BEGIN 🔶
		Join d4science.org VO	BEGIN 🌩
		Join DataFurn Community	BEGIN #
		Jain easc-synergy.eu	BEGIN +



Statistics Plugin is used for presenting statistics information regarding

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- Logins
 - o total
 - o per Identity Provider
 - o per Service Provider
- Registered users
- Communities/Virtual Organisations

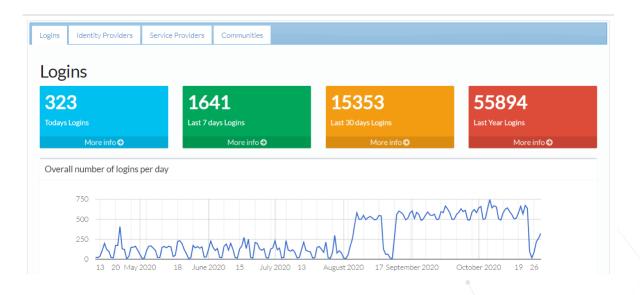


https://aai.egi.eu/registry



Logins

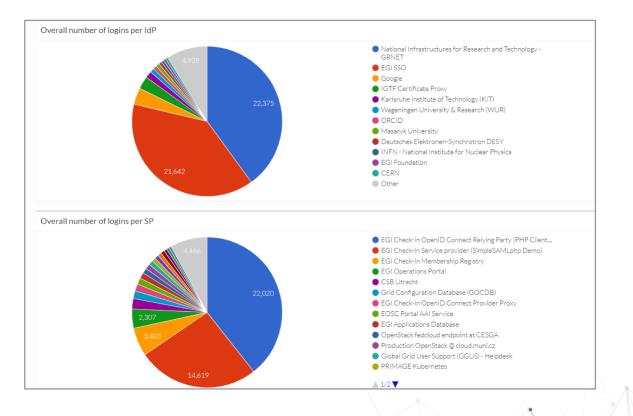
General login information





Logins

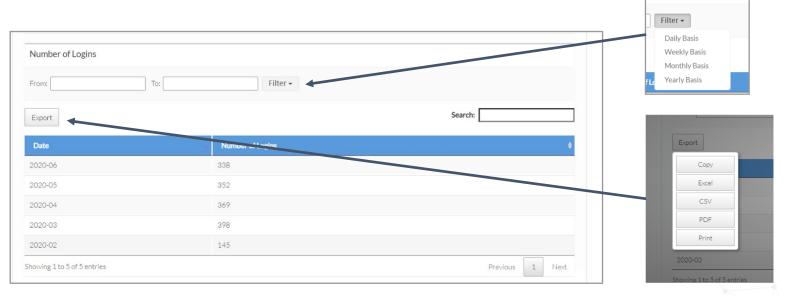
Per Identity Provider/Service Provider login information





Logins

Login information for specific date range





Identity Providers

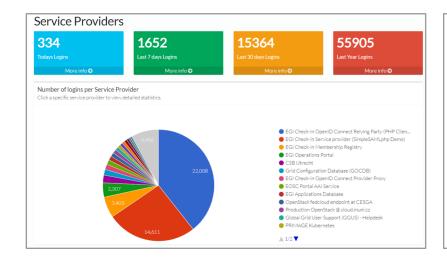
Detailed information about logins per **Identity Provider** in different views (tiles, pie charts and datatable)

Identity Providers			1	Identity Providers					
334 1652 15364 55905			55905		Show 10 ventries			Search:	
Todays Logins	Last 7 days Logins	Last 30 days Logins	Last Year Logins		Identity Provider Name	Identity Provider Identifier		Number of Logins	
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Number of logins per Identity Click a specific identity provider to v					XSEDE	https://idp.xsede.org/idp/shibboleth	1	0	
стеля в уреалистистистур от таки техня вселяется этактороду					Wigner Research Centre for Physics	https://papi.kfki.hu/idp/shibboleth	2	4	
		National Infrastructures for Research and Technology - GRI/ET GOSO GOSOL	ructures for Research and Technology -		Weill Cornell Medical College	https://shib.med.cornell.edu/ldp/shibboleth	2		
	4,926			WeChat	https://aai.egi.eu/wechat/saml2/idp/metadata.php	2	3		
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22,363			 Wageningen University & Research (WUR) 		Wake Forest University	https://webauth.wfunet.wfu.edu/saml/saml2/idp/metadata.php	3		
		 Masaryk University Deutsches Elektronen-Synchrotron DESY 			Wageningen University & Research (WUR)	http://login.wur.nl/adfs/services/trust	5	16	
	21.633	 INFN - National EGI Foundation CERN 	Institute for Nuclear Physics		VUB - IDP (Vrije Universiteit Brussel)	https://idp.vub.ac.be/idp/shibboleth	6		
		Other			VITO	https://sso.vito.be	1	9	
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Service Providers

Detailed information about logins per **Service Provide**r in different views (tiles, pie charts and datatable)



Service Providers			Search:
Service Provider Name	Service Provider Identifier	¢	Number of Logins 🔶
webdav-synergy.data.kit.edu	webdav-synergy.data.kit.edu		24
UPV-GRyCAP IM	grycapim		467
UNIV-LILLE-FED-CLOUD	2a298ed5-38f1-43bc-9c46-fbaa1722978f		27
TR-FC1-ULAKBIM OpenID	ae7b1880-9622-49a2-9182-a5c0f1f868d2		40
Terrascope	Obf6be1b-415e-42de-ba0a-7ac1da374ef2		6
SentinelHub Development	6d83cc31-b396-4301-b743-3ecd797a1da2		66
Rocky	c25d3bdf-14f5-4b6e-bacb-c736dd3e7708		1
RCauth Pilot Online CA	https://wayf.rcauth.eu/wayf/		24
PY-ENMR	f944146a-1533-424b-ad4c-39f137034ee6		7
PSNC OpenStack - Labitaas	1e227ea3-dcde-4fbe-a98a-857bb5670486		26
nowing 1 to 10 of 118 entries		Previous 1 2	3 4 5 12 Next



Registered Users

Information about registered users

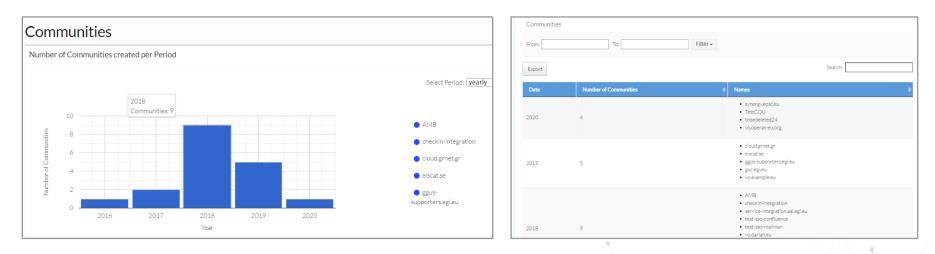


Registered Users		
From:	To: Filter	•
Export		Search:
Date	Number of Registered Users	¢
2020	9	
2019	47	
2018	35	
2017	12	
howing 1 to 4 of 4 entries		Previous 1 Next



Communities

Information about communities (Virtual Organisations) managed in Check-in COmanage Registry





Communities

Statistics per community

-	
	Statistics Per Community
	Select Community: vo.example.eu
	vo.example.eu
	Created: 2019-06-20 12:43:57
	Example VO for testing purposes
	Active Users: 12
	Grace Period Users: 0
	Suspended Users: 0





Coming soon

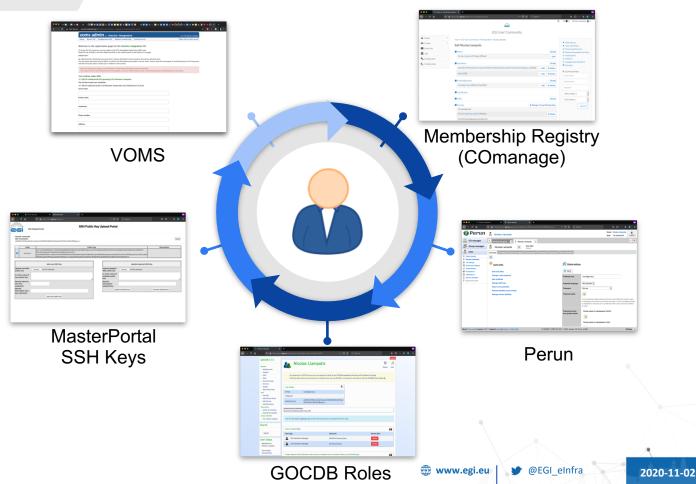


- Improved end-user experience
 - Identity lifecycle management
 - VO group management operations
 - Identity linking (new implicit mode)
 - IdP discovery (hinting)
- Easier integration for SAML & OIDC services and identity providers via the Federation Registry tool
- New technology options: Keycloak
- Improved statistics
 - Geo distribution of user logins
 - Per VO service statistics

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Check-in: Identity Lifecycle Management





Implicit identity linking

Triggered automatically when one attribute (e.g. email) -or a combination of attributes- of one identity correlate to one or more attributes of another identity that is already associated with a registered user

 Can prevent an individual from accidentally registering distinct identities

Home > EGI User Community > Select Use

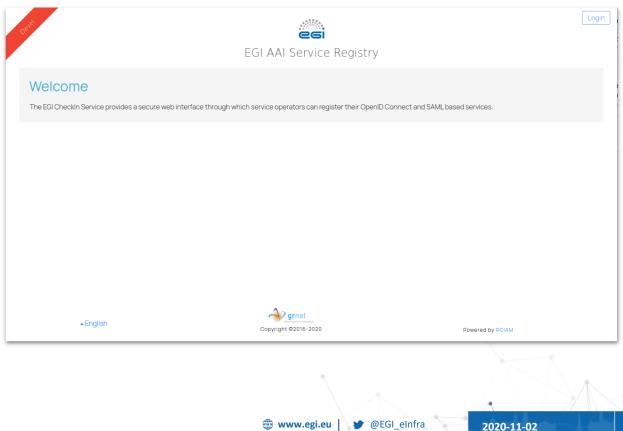
Available Users





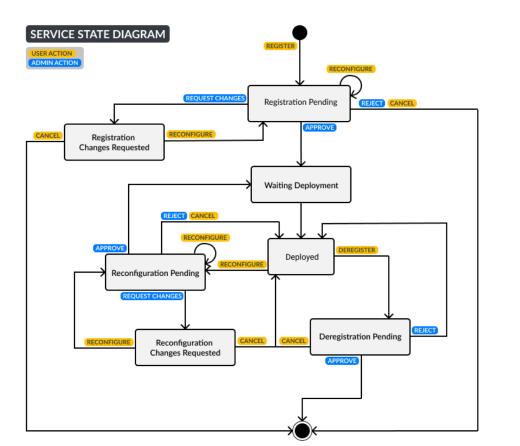
Federation Registry

- Enables the secure registration, reconfiguration, and deregistration of federated service and identity providers
- Provides uniform interface regardless of the underlying protocol (SAML vs OIDC)
- Supports different AAI proxy technologies (SimpleSAMLphp, MITREid Connect, SATOSA, Keycloak)



Federation Registry

Service Lifecycle



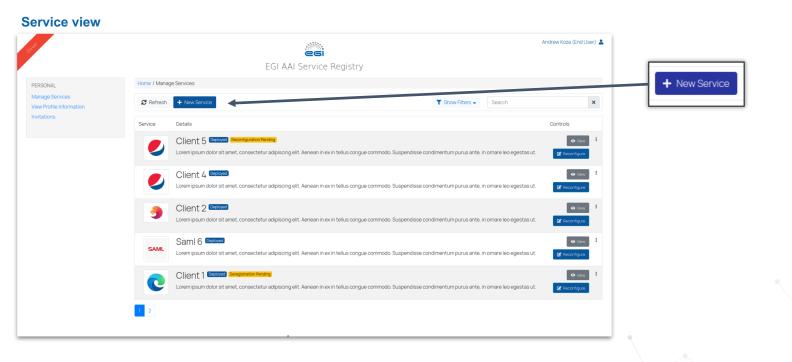
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- A user interacts with a service by creating petitions
- A petition is a request to register reconfigure or deregister a service
- Petitions can be reviewed by users that have reviewing rights
- A Reviewer can either approve, reject, or request changes
- Once a petition has been approved the deployment procedure is initiated
- When the deployment finishes new petitions can be created once again for that service



Federation Registry

Register a service: Create petition



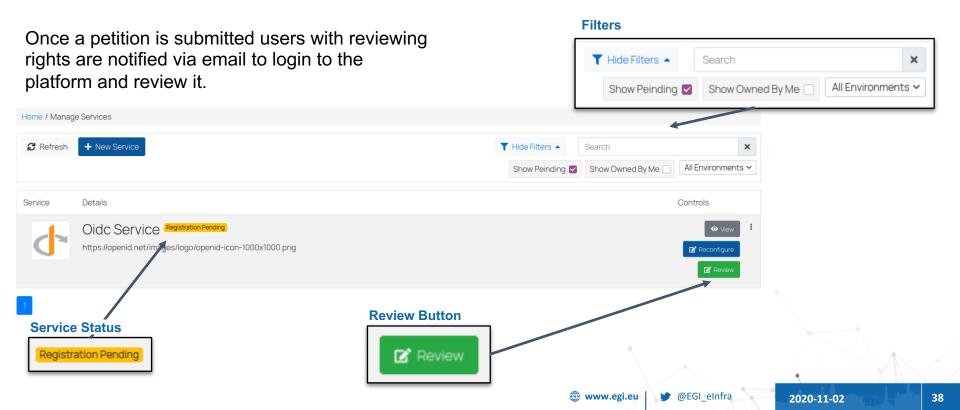


Register service: Create petition

Home / Manage S	ervices / New S	Service			Home / Ma	nage Services / New	Service				
Submit			General	eral Protocol Specific		Subm	t 🔶			Submit	
General Prote	irotocol Specific						Protocol Specific			Submit	
Se	ervice name	Type something					Select Protocol	OIDC Service V			
Integration E	nvironment	Human-readable application name				Client ID	Type something	is blank it will be automatically generated.			
integration	Logo	https//					Redirect URI(s)	Type something		ADD	
	2090	URL that points to a logo image, will be displayed on approval page						URIs that the client can be redir	rected to after the authorization page		
							Scope	Type something		•	
								openid			
		Enter a logo URL						email profile			
								offline_access			
								eduperson_entitlement	:		
								eduperson_scoped_affi	iliation		
	Description	Type something						eduperson_unique	Ξ)		
	olicy Statement Contacts	Human-readable text description						OAuth scopes this client	Your potition		×
Policy		https://					Grant Types	implicit authorization co	Your petition		
		URL for the Policy Statement of this service, will be displayed to the user					 refresh token client credentia 				
		Type something		Admin • ADD				password tio	Was submited succesfully and is cu	urrently pending app	proval
		List of contacts for administrators of this service						token exchange	from an administrator.		
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1.	Fil	I General informa	tion and	2. Subr	nit Form						
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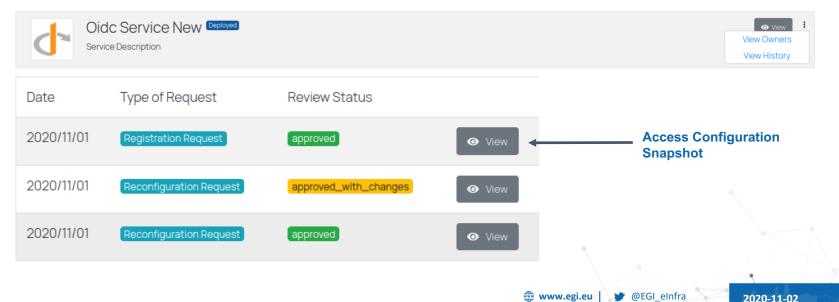
Register service: Review petition





Service History

- Users can also view the History of a service since it's registration
- Each time a petition is reviewed a new snapshot of the service configuration is added to History





Users

Users according the default configuration can take one of three roles "End User", "Site-ops Manager" and "Admin". These user roles grant users a set of actions. Role are flexible and can be modified accordingly.

End Users

- View own services
- Create Petitions to
 - Register a service
 - Reconfigure a service
 - Deregister a service

Site-ops Manager

- View own services
- Create Petitions to
 - Register a service
 - Reconfigure a service
 - Deregister a service
- Review petitions for services they own

Admin

- View all services
- Create Petitions
 - Register a service
 - Reconfigure a service
 - Deregister a service
- Review petitions



User Authorization

E

- Users are authenticated using an Oauth2.0 authentication proxy
- User roles are assigned based on entitlements included in user's claims
- Relation between entitlement and roles is configurable

		User Entitlements			
Check-in		Entitlement regarding the serv	integration.aai.egi urn:mace:egi.eu:g	i.eu:role=member#aai.egi.e	
Choose your academic/socia	l account				
Q Search ASharayah University ASharayah University AYSTAR - Agency for Science, Technology and Research A.TSTAR - Agency for Science, Technology and Research A.F. Vinzal Home Anti-Anti-Anti-Anti-Anti-Anti-Anti-Anti-			Check-in		
AAI@EduHr Single Sign-On Service		EGI AAI OpenID C	onnect Provider Proxy DEV) requires the	hat the information below is transferred.	
Aalborg University			Surname Kozadini		
Aalto University			Given name Andreas		
Aarhus School of Marine and Technical Engineering			Display name Andreas & zadinos Mail andreasko p@grnet.gr		
Aarhus University		Affiliation at h	me organization member@ynet.hq.admin.gr	iet.ar	
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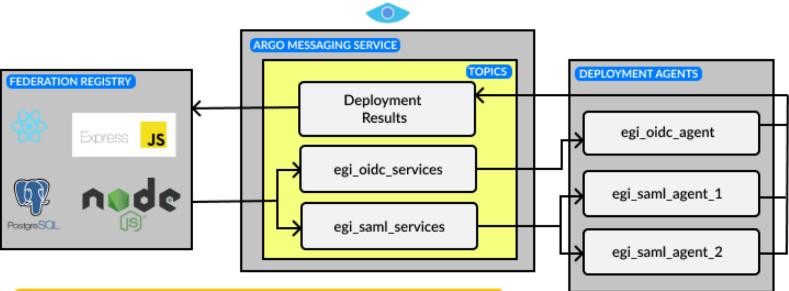


Service Ownership

- A service is owned by a group of users called owners group
- Members of the group can view and create petitions for that service.
- Users in an owners group can take one of two roles (Member, Manager)
- Managers have control over group members, they can invite or remove members



Deployment Process



1) Federation registry sends message to AMS describing new service configuration

2) Deployment Agents pulls message and updates configuration

3) Deployment Agents sends deployment result to AMS

4) AMS sends deployment result to Federation Registry



Demos

- <u>Review & approve service registration petition</u>
- <u>Review & approve service reconfiguration petition</u>
- <u>Review service reconfiguration & request changes</u>
- Invite user to service owner group



Check-in: New technology options

Keycloak

Extend SAML support to properly integrate with identity federations:

- Support federation metadata import, validation and timely refresh
- Enhance IdP discovery UI:
 - searching
 - multi-language support

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Check-in: New technology options

Keycloak

- Extend Keycloak to support the OpenID connect federation standard
- Demonstrate interoperability with other components/libraries currently in development in the context of the OpenID foundation

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OpenID Connect Federation 1.0 - draft 12 openid-connect-federation-1_0

Abstract

The OpenID Connect standard specifies how a Relying Party (RP) can discover metadata about an OpenID Provider (OP), and then register to obtain RP credentials. The discovery and registration process does not involve any mechanisms of dynamically establishing trust in the exchanged information, but instead rely on out-of-band trust establishment.

In an identity federation context, this is not sufficient. The participants of the federation must be able to trust information provided about other participants in the federation. OpenID Connect Federations specifies how trust can be dynamically obtained by resolving trust from a common trusted third party.

While this specification is primarily targeting OpenID Connect, it is designed to allow for re-use by other protocols and in other use cases.

Table of Contents



OpenID Connect Federation 1.0 × +

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(9):



Check-in Documentation

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

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Questions?



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The work of the EGI Foundation is partly funded by the European Commission under H2020 Framework Programme