EGI Check-in service

Secure and user-friendly federated authentication and authorisation

EGI Check-in

Secure and user-friendly federated authentication and authorisation

---

Check-in provides a reliable and interoperable AAI solution that can be used as a service for third parties.

Check-in enables single sign-on to services through eduGAIN and other identity providers. Users without institutional accounts can access services through social media or other external accounts, including Google, Facebook, LinkedIn or ORCID.

> Services connected to Check-in can be made available to +2,000 universities and institutes with little or no administrative overhead

✓ **Secure**
operates under the strict security policies of the EGI federation

✓ **Simple**
hides the complexity of dealing with multiple authentication providers and sources of authorisation information

✓ **Low overhead**
lowers the bureaucratic burden of integrating multiple identity providers and attribute authorities

✓ **Interoperable**
implements the AARC blueprint architecture and is compliant with eduGAIN, REFEDS RnS and Sirtfi policies

✓ **Polyglot**
translates SAML 2.0, OpenID Connect, OAuth 2.0 and X.509 credentials

Check-in for service providers

Check-in acts as an identity provider proxy. Service providers can configure it as a normal SAML or Open ID Connect identity provider and let Check-in handle external identity providers. Check-in will provide all the required authentication and authorisation information to service providers in a single assertion.

Advantages for EGI service providers

> Access to the entire eduGAIN identity provider federation

> Automatically become available to new identity providers as they are progressively configured in Check-in

> Be able to link between accounts

> Have all required information to handle user authentication and authorisation including: EGI UID, GOCDB roles, Virtual Organisation/group membership information, Level of Assurance, X.509 certificate DN if associated to the other identities

Advantages for external service providers

Non-EGI service providers can benefit from Check-in as well. Both SAML- and OpenID Connect-based services can be integrated with Check-in with very little effort to enable users to authenticate with their own credentials.

As an authentication service Check-in will:

> Enable eduGAIN identity providers

> Enable social media credentials

> Enable X.509 certificate credentials

> Enable users to link their accounts

Check-in for research communities

Sets up an AAI from scratch

Authentication

Check-in accepts federated identity credentials to enable users to re-use institutional log-ins

> IdP/SP proxy to aggregate authentication information from multiple sources, including eduGAIN IdPs, social media credentials, and ad-hoc configured IdPs upon request

Authorisation

Check-in manages group membership information according to services

> Built-in group management tools to create and manage a Virtual Organisation (VO) and subgroups, add and remove users, and manage user consent and the VO acceptable usage policy

Improves existing AAI tools

A community who already operates a group management tool does not need to change any of their workflows to be interoperable with Check-in.

Check-in can play different roles based on the requirements of the community:

> Use it as an identity provder proxy to enable federated access to the community group management tool

> Integrate it with the group management tool of the community to implement community-based authorisation in the EGI services

Contacts

Website:

https://www.egi.eu
http://go.egi.eu/checkin

Acknowledgements