

EGI-InSPIRE

SECURITY POLICY GLOSSARY OF TERMS

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Policy Statement

This document provides a common reference for the meaning of various terms used in the context of the EGI Security Policy Group documents. As well as defining terms, this glossary also limits the scope of meaning of terms used in the security policy documents.

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EGI-InSPIRE (“European Grid Initiative: Integrated Sustainable Pan-European Infrastructure for Researchers in Europe”) is a project co-funded by the European Commission as an Integrated Infrastructure Initiative within the 7th Framework Programme. EGI-InSPIRE began in May 2010 and will run for 4 years.

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1. Introduction

This document provides a common reference for the meaning of various terms used in the context of the Joint Security Policy Group security policy documents. As well as defining terms, this glossary also limits the scope of meaning of terms used in the security policy documents.

2. Glossary of Terms

Term	Abbreviation	Definition
Acceptable Use Policy	AUP	A policy describing the terms and conditions applicable to use of the Grid.
Accounting Data Centre	ADC	An entity that stores both local and non-local accounting data
Accounting record		An individual entry in an accounting database relating to one Grid job
Anonymous web user		A Web User who does not provide unique credentials to the Portal when invoking functionality
Application Community		A community of users connected by a shared discipline or project
Classic CA		A Certification Authority accredited by the IGTF according to the "Classic" Authentication Profile (URL)
Data Privacy		The privacy aspects of any data relating to personal information
Distinguished Name	DN	The name of the subject to which a public key is bound in a certificate
Grid		Any project or operational infrastructure which uses grid technologies and decides to adopt a policy to which this glossary pertains
Grid AUP		The AUP applying to all Grid users, not to be confused with the VO AUP
Grid Deployment Team		An entity responsible for Grid operations
Grid resource information system		A service containing information about Grid resources
Grid Security Officer		A named individual responsible for operational security of the Grid
Grid Security Operations		The team providing the operational security capability for the Grid
Identified web user		A Web User that provides authenticated personal identification to the Portal when invoking functionality, but whose credentials and way of authentication are not necessarily compatible or equivalent with Grid authentication.
Incident response		The process of responding to a security incident

Term	Abbreviation	Definition
International Grid Trust Federation	IGTF	The organisation responsible for the coordination of the Grid trust fabric (URL).
MICS CA		A Certification Authority accredited by the IGTF according to the Member Integrated Credential Services Authentication Profile (URL)
Multi User Pilot Job	MUPJ	A pilot job which pulls down workload belonging to a different user than the owner of the pilot job
Pilot Job		A place-holder Grid job which pulls down the real workload at execution time
Portal		A web site or web-based service that provides functionality to Web Users via web-specific applications
Pseudonymous web user		A verifiably-human Web User that provides authenticated non-identifying information to the Portal when invoking functionality.
Registrar		An individual responsible for collecting and maintaining information about a person registering as a Grid user
Resource		the equipment and software required to run a service on the Grid, and any data held on the service
Resource Administrator		the person responsible for installing, operating, maintaining and supporting one or more resource(s) at a site
Robot		A software agent that performs automatic functions
Security Incident		The actual or suspected violation of an explicit or implied security policy
Service		any computing or software system, based on grid technologies, which provides access to, information about or controls resources
Site		an entity having administrative control of resources provided to the Grid. This may be at one physical location or spread across multiple physical locations
Site Manager		An individual responsible for Grid operations at a Site
SLCS CA		A Certification Authority accredited by the IGTF according to the Short Lived Credential Services Authentication Profile (URL)
Strongly identified web user		A Grid User that provides authenticated identification to the Portal when invoking functionality, that allows the portal to authenticate to the Grid Resources with valid Grid credentials specific to the Grid User.

Term	Abbreviation	Definition
User		An individual who has been given authority to access and use Grid resources
Virtual Organisation	VO	a grouping of users and optionally resources, often not bound to a single institution, who, by reason of their common membership and in sharing a common goal, are given authority to use a set of resources
VO AUP		The policy document describing the goals of the VO thereby defining the expected and acceptable use of the Grid by the users of the VO
VO Manager		An individual responsible for the membership registry of the VO including its accuracy and integrity.
VO Membership Service		The operational interface to the VO membership registry
VO Resource Manager		A named individual within a VO with authority to inspect resource usage at the individual VO user level
Web user		A human individual that accesses Grid resources through a Portal

Appendix A. EGI-Inspire Project Summary

To support science and innovation, a lasting operational model for e-Science is needed – both for coordinating the infrastructure and for delivering integrated services that cross national borders.

The EGI-InSPIRE project will support the transition from a project-based system to a sustainable pan-European e-Infrastructure, by supporting ‘grids’ of high-performance computing (HPC) and high-throughput computing (HTC) resources. EGI-InSPIRE will also be ideally placed to integrate new Distributed Computing Infrastructures (DCIs) such as clouds, supercomputing networks and desktop grids, to benefit the user communities within the European Research Area.

EGI-InSPIRE will collect user requirements and provide support for the current and potential new user communities, for example the ESFRI projects. Support will also be given to the current heavy users of the infrastructure, such as high energy physics, computational chemistry and life sciences, as they move their critical services and tools from a centralised support model to one driven by their own individual communities.

The objectives of the project are:

1. The continued operation and expansion of today’s production infrastructure by transitioning to a governance model and operational infrastructure that can be increasingly sustained outside of specific project funding.
2. The continued support of researchers within Europe and their international collaborators that are using the current production infrastructure.
3. The support for current heavy users of the infrastructure in earth science, astronomy and astrophysics, fusion, computational chemistry and materials science technology, life sciences and high energy physics as they move to sustainable support models for their own communities.
4. Interfaces that expand access to new user communities including new potential heavy users of the infrastructure from the ESFRI projects.
5. Mechanisms to integrate existing infrastructure providers in Europe and around the world into the production infrastructure, so as to provide transparent access to all authorised users.
6. Establish processes and procedures to allow the integration of new DCI technologies (e.g. clouds, volunteer desktop grids) and heterogeneous resources (e.g. HTC and HPC) into a seamless production infrastructure as they mature and demonstrate value to the EGI community.

The EGI community is a federation of independent national and community resource providers, whose resources support specific research communities and international collaborators both within Europe and worldwide. EGI.eu, coordinator of EGI-InSPIRE, brings together partner institutions established within the community to provide a set of essential human and technical services that enable secure integrated access to distributed resources on behalf of the community.

The production infrastructure supports Virtual Research Communities – structured international user communities – that are grouped into specific research domains. VRCs are formally represented within EGI at both a technical and strategic level.