



# EGI-InSPIRE

## UMD QUALITY CRITERIA DATA CAPABILITIES V3

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Document identifier:	EGI-DATA-QC-V3.doc
Date:	<b>10/04/2012</b>
Document Link:	<a href="https://documents.egi.eu/document/718">https://documents.egi.eu/document/718</a>

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### Abstract

This document describes the Quality Criteria that all software of the UMD distribution must meet.



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### Document Log

Issue	Date	Comment	Author/Partner
v0.1	02/11/2010	First draft	Enol Fernández
v1.0	03/11/2010	Changed Management, Traceability and Monitoring section	Enol Fernández
v1.1	03/11/2010	Added Probe description in GEN_MON_1	Enol Fernández
v1.2	11/11/2010	Some formatting update	Enol Fernández
v1.3	31/01/2011	Better test specification	Enol Fernández
1.4	09/02/2011	Review of criteria	Enol Fernández
2 DRAFT 1	24/06/2011	Preparation of new release	Enol Fernández
2	02/08/2011	Reorganisation, added new criteria.	Enol Fernández
3 DRAFT 1	13/10/2011	First draft of release 3	Enol Fernández
3 DRAFT 2	24/01/2012	Second draft of release 3	Enol Fernández



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# 1 DATA ACCESS

Criteria for the Data Access Capability are based on OGSA-DAI and WS-DAI interface as reference.

## 1.1 WS-DAI Interface

WS-DAIR API	
<b>ID</b>	<b>DATAACCESS_API_1</b>
<b>Description</b>	Data Access Appliances must implement (at least one of) the WS-DAI realizations and support all the functionality included in the interface.
<b>Mandatory</b>	YES
<b>Applicability</b>	Data Access Appliances
<b>Input from Technology Provider</b>	WS-DAI API support using the relational [R 2] or XML [R 3] realization. Ideally include a test-suite that covers all the documented functions in the WSDL.
<b>Test Description</b>	<p><b>Pre-condition</b> Valid user credentials.</p> <p><b>Test</b> Test all functionality of WS-DAI using the relational or XML realization, with correct/incorrect input and with valid and invalid credentials.</p> <p><b>Expected Outcome</b> Log of all the operations performed. All the functions work as documented.</p>
<b>Pass/Fail Criteria</b>	WS-DAI API is provided for the supported realizations. Check both correct and invalid input. Invalid output should throw an exception as documented. Test also with valid and invalid credentials. Invalid credentials should throw security related exceptions.
<b>Related Information</b>	UMD Roadmap [R 1] WS-DAIR [R 2] WS-DAIX[R 3] #665: Data availability
<b>Revision Log</b>	V2: Merged DATAACCESS_API_* V3: changed wording

## 1.2 OGSA-DAI Criteria

Deployment of data resources	
<b>ID</b>	<b>DATAACCESS_OGSADAI_1</b>
<b>Description</b>	The OGSA-DAI implementation should allow the deployment of data resources with SQL, XML or files sources.
<b>Mandatory</b>	YES
<b>Applicability</b>	OGSA-DAI Data Access Appliance.
<b>Input from Technology Provider</b>	Support for deployment of SQL, XML and file data resources.
<b>Test Description</b>	<b>Pre-condition</b> Existing SQL data resource. <b>Test</b> Deploy SQL data resource. Test queries against deployed resource. <b>Expected Outcome</b> SQL data resources is available, queries are executed correctly.
	<b>Pre-condition</b> Existing XMLDB data resource. <b>Test</b> Deploy XMLDB data resource. Test queries against deployed resource. <b>Expected Outcome</b> XMLDB data resource is available, queries are executed correctly.
	<b>Pre-condition</b> Existing file data resource. <b>Test</b> Deploy file data resource. Test queries against deployed resource. <b>Expected Outcome</b> File data resource is available, queries are executed correctly.
	<b>Pre-condition</b> Existing remote resource. <b>Test</b> Deploy remote resource. Test queries against deployed resource. <b>Expected Outcome</b> Remote resource is available, queries are executed correctly.
	<b>Pre-condition</b> Deployed data resource. <b>Test</b> Undeploy resource. Test queries against resource. <b>Expected Outcome</b> Remote resource is no longer available; queries are not executed correctly.
<b>Pass/Fail Criteria</b>	Data resources can be deployed/undeployed and queries against the resources are executed correctly.
<b>Related Information</b>	OGSA-DAI [R 4]
<b>Revision Log</b>	V3: changed wording

<b>Management of data resources access</b>	
<b>ID</b>	<b>DATAACCESS_OGSADAI_2</b>
<b>Description</b>	The OGSA-DAI implementation must allow the definition of which users are allowed to access the deployed resources
<b>Mandatory</b>	YES
<b>Applicability</b>	OGSA-DAI Data Access Appliance.
<b>Input from Technology Provider</b>	Support for user management of data resources.
<b>Test Description</b>	<b>Pre-condition</b> Existing data resource. Valid user credentials <b>Test</b> Allow access to user. Test the access. <b>Expected Outcome</b> User is allowed to access the data resource.
	<b>Pre-condition</b> Existing data resource. Valid user credentials <b>Test</b> Deny access to user. Test the access. <b>Expected Outcome</b> User is not allowed to access the data resource.
<b>Pass/Fail Criteria</b>	Appliance must allow the admission/denial of users to data resources.
<b>Related Information</b>	OGSA-DAI [R 4]
<b>Revision Log</b>	V3: changed wording

<b>Deployment of activities at resource</b>	
<b>ID</b>	<b>DATAACCESS_OGSADAI_3</b>
<b>Description</b>	The OGSA-DAI implementation should allow the deployment of activities in server.
<b>Mandatory</b>	YES
<b>Applicability</b>	OGSA-DAI Data Access Appliance.
<b>Input from Technology Provider</b>	Support for deployment of activities.
<b>Test Description</b>	<p><b>Pre-condition</b> OGSA-DAI server available; Activity classes available at server.</p> <p><b>Test</b> Deploy activity at server. Add activity to resource. Test execution of activity.</p> <p><b>Expected Outcome</b> Activity is available and executed correctly.</p>
<b>Pass/Fail Criteria</b>	Appliance must allow the deployment of activities and their execution.
<b>Related Information</b>	OGSA-DAI [R 4]
<b>Revision Log</b>	V3: changed wording

<b>Workflow creation and execution</b>	
<b>ID</b>	<b>DATAACCESS_OGSADAI_4</b>
<b>Description</b>	The OGSA-DAI implementation should allow the creation of workflows with activities
<b>Mandatory</b>	YES
<b>Applicability</b>	OGSA-DAI Data Access Appliance.
<b>Input from Technology Provider</b>	Support for the creation and execution of workflows.
<b>Test Description</b>	<b>Pre-condition</b> Existing OGSA-DAI server.
	<b>Test</b> Create simple workflow, synchronous execution in server.
	<b>Expected Outcome</b> Workflow is executed. Status and data results of workflow can be retrieved.
	<b>Pre-condition</b> Existing OGSA-DAI server.
<b>Test Description</b>	<b>Test</b> Create simple workflow, asynchronous execution in server.
	<b>Expected Outcome</b> Workflow is executed. Status and data results of workflow can be retrieved.
	<b>Expected Outcome</b> Workflow is executed. Status and data results of workflow can be retrieved.
<b>Pass/Fail Criteria</b>	Appliance must allow the creation of workflows and their execution in both synchronous and asynchronous mode.
<b>Related Information</b>	OGSA-DAI [R 4]
<b>Revision Log</b>	V3: changed wording



## 2 METADATA CATALOGUE

Criteria for the Metadata Catalogue Capability are based on gLite LFC [R 5] and gLite AMGA [R 6]

### 2.1 LFC Implementation

#### 2.1.1 LFC API

LFC API	
<b>ID</b>	<b>METADATA_LFC_API_1</b>
<b>Description</b>	LFC Metadata Catalogue Appliances must implement the LFC API.
<b>Mandatory</b>	YES
<b>Applicability</b>	LFC Metadata Catalogue Appliances
<b>Input from Technology Provider</b>	Support for the LFC API. Any deviation from the API should be documented. Ideally, provide a complete test suite that includes tests for all the documented functions.
<b>Test Description</b>	<p><b>Pre-condition</b> Valid user credentials.</p> <p><b>Test</b> Test all functionality of LFC API, with correct/incorrect input and with valid and invalid credentials.</p> <p><b>Expected Outcome</b> Log of all the operations performed. All the documented functions work as documented.</p>
<b>Pass/Fail Criteria</b>	Pass if the LFC API support is tested for all the available language bindings.
<b>Related Information</b>	gLite LFC [R 5]
<b>Revision Log</b>	

## 2.1.2 LFC Functionality

Directory Management	
<b>ID</b>	<b>METADATA_LFC_FUNC_1</b>
<b>Description</b>	LFC Metadata Catalogue Appliances must allow users to organize the files in directories.
<b>Mandatory</b>	YES
<b>Applicability</b>	LFC Metadata Catalogue Appliances
<b>Input from Technology Provider</b>	Support for directory management operations.
<b>Test Description</b>	<b>Pre-condition</b> Valid user credentials. Available Catalogue server. <b>Test</b> Create new directory. <b>Expected Outcome</b> New directory is created at server.
	<b>Pre-condition</b> Valid user credentials. Available Catalogue server. Existing directory <b>Test</b> List contents of directory. <b>Expected Outcome</b> Contents of directory are returned.
	<b>Pre-condition</b> Valid user credentials. Available Catalogue server. Existing empty directory <b>Test</b> Remove directory. <b>Expected Outcome</b> Directory is removed.
	<b>Pre-condition</b> Valid user credentials. Available Catalogue server. Existing non-empty directory <b>Test</b> Remove directory. <b>Expected Outcome</b> Directory is not removed. Message is shown.
<b>Pass/Fail Criteria</b>	Pass if the Appliance provides support for managing directories.
<b>Related Information</b>	gLite LFC [R 5]
<b>Revision Log</b>	

<b>ACL Operations</b>	
<b>ID</b>	<b>METADATA_LFC_FUNC_2</b>
<b>Description</b>	LFC Metadata Catalogue Appliances must allow users to set permissions on the entries.
<b>Mandatory</b>	YES
<b>Applicability</b>	LFC Metadata Catalogue Appliances
<b>Input from Technology Provider</b>	Support for ACL management of LFC.
<b>Test Description</b>	<b>Pre-condition</b> Valid user credentials. Available LFC server. Existing entry <b>Test</b> Show entry owner and permission <b>Expected Outcome</b> Entry owner and permission are returned.
	<b>Pre-condition</b> Valid user credentials with administrator privileges. Available LFC server. Existing entry. <b>Test</b> Change owner of entry. Show entry owner. <b>Expected Outcome</b> Owner of entry is changed and returned.
	<b>Pre-condition</b> Valid user credentials with administrator privileges. Available LFC server. Existing entry. <b>Test</b> Change group of entry. Show entry group. <b>Expected Outcome</b> Group of entry is changed and returned.
	<b>Pre-condition</b> Valid user credentials. Available LFC server. Existing entry. <b>Test</b> Check the entry ACL is enforced. <b>Expected Outcome</b> The permissions of entry are correctly enforced.
<b>Pass/Fail Criteria</b>	Pass if the Appliance provides support for managing ACL on catalogue entries.
<b>Related Information</b>	gLite LFC [R 5]
<b>Revision Log</b>	

Entry Comments	
<b>ID</b>	<b>METADATA_LFC_FUNC_3</b>
<b>Description</b>	LFC Metadata Catalogue Appliances must allow users to set comments on the catalogue entries.
<b>Mandatory</b>	YES
<b>Applicability</b>	LFC Metadata Catalogue Appliances
<b>Input from Technology Provider</b>	Support for the comment management of LFC
<b>Test Description</b>	<b>Pre-condition</b> Valid user credentials. Available LFC server. Existing entry <b>Test</b> Set comment of an entry. Show comment to entry. <b>Expected Outcome</b> The comment is correctly set and shown.
	<b>Pre-condition</b> Valid user credentials. Available LFC server. Existing entry with comment. <b>Test</b> Delete comment of an entry. Show comment to entry. <b>Expected Outcome</b> The comment is correctly removed and nothing is shown.
<b>Pass/Fail Criteria</b>	Pass if the Appliance provides support for managing comments on catalogue entries.
<b>Related Information</b>	gLite LFC [R 5]
<b>Revision Log</b>	

<b>User/Group Map Management</b>	
<b>ID</b>	<b>METADATA_LFC_FUNC_4</b>
<b>Description</b>	LFC Metadata Catalogue Appliances must allow the definition and management of user and group maps.
<b>Mandatory</b>	YES
<b>Applicability</b>	LFC Metadata Catalogue Appliances
<b>Input from Technology Provider</b>	Support for the user/group management of LFC.
<b>Test Description</b>	<b>Pre-condition</b> Valid admin user credentials. Available LFC server. <b>Test</b> List all user/group mappings <b>Expected Outcome</b> List of all user/group mappings is shown.
	<b>Pre-condition</b> Valid admin user credentials. Available LFC server. <b>Test</b> List user mappings for specific user DN. <b>Expected Outcome</b> List of user mappings is shown.
	<b>Pre-condition</b> Valid admin user credentials. Available LFC server. <b>Test</b> List group mappings for specific group name. <b>Expected Outcome</b> List of group mapping is shown.
	<b>Pre-condition</b> Valid admin user credentials. Available LFC server. Non existing user/group mapping. <b>Test</b> Set new user/group mapping. List the user/group mapping. <b>Expected Outcome</b> New mapping is set and shown accordingly.
	<b>Pre-condition</b> Valid admin user credentials. Available LFC server. Existing user/group mapping. <b>Test</b> Set new user/group mapping for a user/group. List the user/group mapping. <b>Expected Outcome</b> New mapping is set and shown accordingly.
	<b>Pre-condition</b> Valid admin user credentials. Available LFC server. Existing user/group mapping. <b>Test</b> Remove user/group mapping for a user/group. List the user/group mapping. <b>Expected Outcome</b> Mapping is removed and not shown.
<b>Pass/Fail</b>	Pass if the Appliance provides support for managing the mapping of users and



<b>Criteria</b>	groups.
<b>Related Information</b>	gLite LFC [R 5]
<b>Revision Log</b>	

<b>Entry Management</b>	
<b>ID</b>	<b>METADATA_LFC_FUNC_5</b>
<b>Description</b>	LFC Metadata Catalogue Appliances must allow users to create entries and to manage those entries.
<b>Mandatory</b>	YES
<b>Applicability</b>	LFC Metadata Catalogue Appliances
<b>Input from Technology Provider</b>	Support for the entry management operations.
<b>Test Description</b>	<b>Pre-condition</b> Valid user credentials. Available Catalogue server. Available SE with file to register. <b>Test</b> Create new entry (register file in server). <b>Expected Outcome</b> New entry is created at server. GUID is returned
	<b>Pre-condition</b> Valid user credentials. Available Catalogue server with existing entry. Available SE to register replica <b>Test</b> Register new replica of the file in a new SE <b>Expected Outcome</b> Entry is updated with the new replica
	<b>Pre-condition</b> Valid user credentials. Available Catalogue server. Existing entry <b>Test</b> List replicas of entry. <b>Expected Outcome</b> Replica list is returned.
	<b>Pre-condition</b> Valid user credentials. Available Catalogue server. Existing entry. <b>Test</b> Remove one of the entry replicas <b>Expected Outcome</b> Replica is removed. If it was the last one, remove also the entry.
	<b>Pre-condition</b> Valid user credentials. Available Catalogue server. Existing entry. <b>Test</b> Remove entry. <b>Expected Outcome</b> Entry is removed (with all replicas)
<b>Pass/Fail Criteria</b>	Pass if the Appliance provides support for managing entries.
<b>Related Information</b>	gLite LFC [R 5]
<b>Revision Log</b>	

## 2.2 AMGA Implementation

### 2.2.1 AMGA Interface

AMGA Soap Interface	
<b>ID</b>	<b>METADATA_AMGA_API_1</b>
<b>Description</b>	AMGA Metadata Catalogue Appliances must implement the complete AMGA WSDL API [ <i>Error! No se encuentra el origen de la referencia.</i> ]
<b>Mandatory</b>	YES
<b>Applicability</b>	AMGA Metadata Catalogue Appliances
<b>Input from Technology Provider</b>	Support for the AMGA SOAP API. Any deviation from the API should be documented. Ideally, provide a complete test suite that includes tests for all the functionality.
<b>Test Description</b>	<p><b>Pre-condition</b> Valid user credentials.</p> <p><b>Test</b> Test all functionality of AMGA WSDL, with correct/incorrect input and with valid and invalid credentials.</p> <p><b>Expected Outcome</b> Log of all the operations performed. All the documented functions work as documented.</p>
<b>Pass/Fail Criteria</b>	Pass if the AMGA WSDL API is tested and works as documented.
<b>Related Information</b>	gLite AMGA [R 6]
<b>Revision Log</b>	



<b>AMGA Streaming Interface</b>	
<b>ID</b>	<b>METADATA_AMGA_API_2</b>
<b>Description</b>	AMGA Metadata Catalogue Appliances must implement the complete AMGA streaming API [ <b>Error! No se encuentra el origen de la referencia.</b> ]
<b>Mandatory</b>	YES
<b>Applicability</b>	AMGA Metadata Catalogue Appliances
<b>Input from Technology Provider</b>	Support for the AMGA Streaming API. Any deviation from the API should be documented. Ideally, provide a complete test suite that includes tests for all the functionality.
<b>Test Description</b>	<p><b>Pre-condition</b> Valid user credentials.</p> <p><b>Test</b> Test all functionality of AMGA Stream protocol, with correct/incorrect input and with valid and invalid credentials.</p> <p><b>Expected Outcome</b> Log of all the operations performed. All the documented functions work as documented.</p>
<b>Pass/Fail Criteria</b>	Pass if the API is tested and working as documented for all the available language bindings.
<b>Related Information</b>	gLite AMGA [R 6]
<b>Revision Log</b>	

## 2.2.2 AMGA Functionality

AMGA Streaming Interface	
<b>ID</b>	<b>METADATA_AMGA_FUNC_1</b>
<b>Description</b>	AMGA Metadata Catalogue Appliances must allow users to organize the files in directories.
<b>Mandatory</b>	YES
<b>Applicability</b>	AMGA Metadata Catalogue Appliances
<b>Input from Technology Provider</b>	Support for the directory management operations of AMGA.
<b>Test Description</b>	<b>Pre-condition</b> Valid user credentials. Available AMGA server. <b>Test</b> Create new directory. <b>Expected Outcome</b> New directory is created at AMGA server.
	<b>Pre-condition</b> Valid user credentials. Available AMGA server. Existing directory <b>Test</b> List contents of directory. <b>Expected Outcome</b> Contents of directory are returned.
	<b>Pre-condition</b> Valid user credentials. Available AMGA server. Existing empty directory <b>Test</b> Remove directory. <b>Expected Outcome</b> Directory is removed.
	<b>Pre-condition</b> Valid user credentials. Available AMGA server. Existing non-empty directory <b>Test</b> Remove directory. <b>Expected Outcome</b> Directory is not removed. Message is shown.
	<b>Pre-condition</b> Valid user credentials. Available AMGA server. Existing directory (different to current) <b>Test</b> Change current directory to existing directory. Check current directory. <b>Expected Outcome</b> Current directory has changed
<b>Pass/Fail Criteria</b>	Pass if users can manage directories in the server.
<b>Related Information</b>	gLite AMGA [R 6]

<b>Revision Log</b>	
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<b>Entry Management</b>	
<b>ID</b>	<b>METADATA_AMGA_FUNC_2</b>
<b>Description</b>	AMGA Metadata Catalogue Appliances must allow users to manage the entries in the server.
<b>Mandatory</b>	YES
<b>Applicability</b>	AMGA Metadata Catalogue Appliances
<b>Input from Technology Provider</b>	Support for the entry management operations of AMGA.
<b>Test Description</b>	<b>Pre-condition</b> Valid user credentials. Available AMGA server. <b>Test</b> Create a new entry. List entry's attributes <b>Expected Outcome</b> Entry is created. The attributes are listed correctly.
	<b>Pre-condition</b> Valid user credentials. Available AMGA server. <b>Test</b> Create a new set of entries. List entries' attributes <b>Expected Outcome</b> Entries are created. The attributes are listed correctly.
	<b>Pre-condition</b> Valid user credentials. Available AMGA server. Existing entry. <b>Test</b> Remove existing entry. List entry's attributes <b>Expected Outcome</b> Entry is removed. The list command exits with an error.
<b>Pass/Fail Criteria</b>	Pass if users can manage entries in the server.
<b>Related Information</b>	gLite AMGA [R 6]
<b>Revision Log</b>	

<b>Attribute Management</b>	
<b>ID</b>	<b>METADATA_AMGA_FUNC_3</b>
<b>Description</b>	AMGA Metadata Catalogue Appliances must allow users to manage the attributes in the server.
<b>Mandatory</b>	YES
<b>Applicability</b>	AMGA Metadata Catalogue Appliances
<b>Input from Technology Provider</b>	Support for the attribute management operations of AMGA.
<b>Test Description</b>	<b>Pre-condition</b> Valid user credentials. Available AMGA server. <b>Test</b> Add new attribute to directory. List directory attributes <b>Expected Outcome</b> Attribute is added. List returns all attributes of directory.
	<b>Pre-condition</b> Valid user credentials. Available AMGA server. Existing attributes for dir/entry <b>Test</b> Remove attribute to from dir/entry. List dir/entry attributes <b>Expected Outcome</b> Attribute is removed. List does not return removed attribute.
	<b>Pre-condition</b> Valid user credentials. Available AMGA server. Existing attribute list for file <b>Test</b> Clear attribute list for a file. Get file's attributes. <b>Expected Outcome</b> All file's attributes are set to NULL. Attributes values are shown.
	<b>Pre-condition</b> Valid user credentials. Available AMGA server. Entry with attribute list. <b>Test</b> Clear attribute list for a file. List file's attributes <b>Expected Outcome</b> Attribute list file. They are listed correctly.
<b>Pass/Fail Criteria</b>	Pass if users can manage the attributes for the entries in the server.
<b>Related Information</b>	gLite AMGA [R 6]
<b>Revision Log</b>	

<b>Metadata Queries</b>	
<b>ID</b>	<b>METADATA_AMGA_FUNC_4</b>
<b>Description</b>	AMGA Metadata Catalogue Appliances must allow users to find and update entries based on their metadata.
<b>Mandatory</b>	YES
<b>Applicability</b>	AMGA Metadata Catalogue Appliances
<b>Input from Technology Provider</b>	Support for the metadata queries in AMGA.
<b>Test Description</b>	<p><b>Pre-condition</b> Valid user credentials. Available AMGA server.</p> <p><b>Test</b> Test the complete functionality (find, update, select) of the metadata queries in AMGA. Test available functions</p> <p><b>Expected Outcome</b> Queries work as expected.</p>
<b>Pass/Fail Criteria</b>	Pass if the metadata queries are supported as documented.
<b>Related Information</b>	gLite AMGA [R 6] AMGA Metadata Queries [R 9]
<b>Revision Log</b>	

<b>Attribute Management</b>	
<b>ID</b>	<b>METADATA_AMGA_FUNC_5</b>
<b>Description</b>	AMGA Metadata Catalogue Appliances must allow users to set permissions on the entries.
<b>Mandatory</b>	YES
<b>Applicability</b>	AMGA Metadata Catalogue Appliances
<b>Input from Technology Provider</b>	Support for ACL related operations of AMGA.
<b>Test Description</b>	<b>Pre-condition</b> Valid user credentials. Available AMGA server. <b>Test</b> Get current user. <b>Expected Outcome</b> Current user is returned.
	<b>Pre-condition</b> Valid user credentials. Available AMGA server. Existing entry/dir <b>Test</b> Show entry/dir owner and permission <b>Expected Outcome</b> Entry/dir owner and permission are returned.
	<b>Pre-condition</b> Valid user credentials. Available AMGA server. Existing entry/dir <b>Test</b> Change owner of entry/dir. Show entry/dir owner. <b>Expected Outcome</b> Owner of entry/dir is changed and returned.
	<b>Pre-condition</b> Valid user credentials. Available AMGA server. Existing entry/dir <b>Test</b> Change entry/dir permissions. Check the permission is enforced. <b>Expected Outcome</b> The permissions of entry/dir are changed and correctly enforced.
<b>Pass/Fail Criteria</b>	Pass if users can manage the ACLs of the entries in the server.
<b>Related Information</b>	gLite AMGA [R 6]
<b>Revision Log</b>	

### 3 REFERENCES

<b>R 1</b>	UMD roadmap: <a href="https://documents.egi.eu/public/ShowDocument?docid=100">https://documents.egi.eu/public/ShowDocument?docid=100</a>
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<b>R 3</b>	Web Services Data Access and Integration – The XML Realization (WS-DAIX) Specification, Version 1.0
<b>R 4</b>	OGSA-DAI: <a href="http://www.ogsadai.org.uk/">http://www.ogsadai.org.uk/</a>
<b>R 5</b>	gLite LFC: <a href="https://twiki.cern.ch/twiki/bin/view/EGEE/GliteLFC">https://twiki.cern.ch/twiki/bin/view/EGEE/GliteLFC</a>
<b>R 6</b>	AMGA: <a href="http://amga.web.cern.ch/amga/">http://amga.web.cern.ch/amga/</a>
<b>R 7</b>	AMGA WSDL: <a href="http://amga.web.cern.ch/amga/soap_wsdaire.html">http://amga.web.cern.ch/amga/soap_wsdaire.html</a>
<b>R 8</b>	AMGA streaming API: <a href="http://amga.web.cern.ch/amga/protocol.html">http://amga.web.cern.ch/amga/protocol.html</a>
<b>R 9</b>	AMGA Metadata Queries: <a href="http://amga.web.cern.ch/amga/queries.html">http://amga.web.cern.ch/amga/queries.html</a>
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<b>R 11</b>	CREAM: <a href="http://grid.pd.infn.it/cream/">http://grid.pd.infn.it/cream/</a>
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<b>R 14</b>	OGF DRMAA: <a href="http://www.drmaa.org/">http://www.drmaa.org/</a>
<b>R 15</b>	OGSA Basic Execution Service v1.0: <a href="http://www.ogf.org/documents/GFD.108.pdf">http://www.ogf.org/documents/GFD.108.pdf</a>
<b>R 16</b>	UNICORE UAS: <a href="http://www.unicore.eu/unicore/architecture/service-layer.php#anchor_uas">http://www.unicore.eu/unicore/architecture/service-layer.php#anchor_uas</a>
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<b>R 18</b>	SAGA-CORE-WG: A Simple API for Grid Applications (SAGA) v1.0 (GFD.90)
<b>R 19</b>	SAGA (A Simple API for Grid Applications): <a href="http://saga.cct.lsu.edu/">http://saga.cct.lsu.edu/</a>
<b>R 20</b>	Instrument Element: <a href="http://www.dorii.eu/resources/adaptation:middleware:IE">http://www.dorii.eu/resources/adaptation:middleware:IE</a>
<b>R 21</b>	DORII (Deployment of Remote Instrumentation Infrastructure) Project: <a href="http://www.dorii.eu/">http://www.dorii.eu/</a>
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<b>R 28</b>	SAM Probes Documentation: <a href="https://tomtools.cern.ch/confluence/display/SAM/Probes">https://tomtools.cern.ch/confluence/display/SAM/Probes</a>
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<b>R 32</b>	European Policy Management Authority for Grid Authentication (EuGridPMA): <a href="http://www.eugridpma.org/">http://www.eugridpma.org/</a>
<b>R 33</b>	ARGUS Authorization Service: <a href="https://twiki.cern.ch/twiki/bin/view/EGEE/AuthorizationFramework">https://twiki.cern.ch/twiki/bin/view/EGEE/AuthorizationFramework</a>
<b>R 34</b>	XACML: <a href="http://docs.oasis-open.org/xacml/2.0/access_control-xacml-2.0-core-spec-os.pdf">http://docs.oasis-open.org/xacml/2.0/access_control-xacml-2.0-core-spec-os.pdf</a>
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<b>R 40</b>	Lcg-utils: <a href="http://grid-deployment.web.cern.ch/grid-deployment/documentation/LFC_DPM/lcg_util/">http://grid-deployment.web.cern.ch/grid-deployment/documentation/LFC_DPM/lcg_util/</a>
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<b>R 45</b>	StratusLab MarketPlace Technical Note TN-Marketplace (V3.0)
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