





EGI-InSPIRE

UMD QUALITY CRITERIA OPERATIONS CAPABILITIES V3

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Abstract

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









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TABLE OF CONTENTS

	lonitoring Capability	
1.1		
	MON_NCG_1	
	MON_NCG_2	
1.2	Visualization Portal (MyEGI)	
	MON_PORTAL_1	
	MON_PORTAL_2	
	MON_PORTAL_3	
	MON_PORTAL_4	
	MON_PORTAL_5	
	MON_PORTAL_6	
1.3	Database	
	MON_DB_1	
	MON_DB_2	13
2 M	Ionitoring Probes	15
	MON_PROBE_1	15
2.1	Service Probes	16
	MON_PROBE_GENERIC_1	
	MON_PROBE_GENERIC_2	17
2	2.1.1 Job Execution Capability Probes	
	MON_PROBE_JOBEXEC_1	
	MON_PROBE_JOBEXEC_2	19
	MON_PROBE_JOBEXEC_3	20
2	2.1.2 Compute Job Scheduling Probes	21
	MON_PROBE_JOBSCH_1	
2	2.1.3 File Access Capability Probes	
	MON_PROBE_STORAGE_1	22
2	2.1.4 Metadata Catalogue Capability Probes	23
	MON_PROBE_METADATA_1	
3 A	.ccounting Capability	24
3.1		
_	ACC_JOBEXEC_1	
	ACC_JOBSCH_1	
3.2	Accounting Store and Transmission for Job Execution Appliances	
·	ACC_STORE_1	
	ACC_STORE_2	
	ACC_CRON_1	
	ACC_CRON_2	
3.3	Visualization Portal	31
	ACC_PORTAL_1	
	ACC_PORTAL_2	
	ACC_PORTAL_3	
	ACC_PORTAL_4	
	ACC_PORTAL_5	
	ACC_PORTAL_6	36
חו	afarancas	25







1 MONITORING CAPABILITY

This section documents the Specific Quality Criteria for the monitoring system (NAGIOS) and the web portal to check the results.

1.1 Nagios Configuration Generation

Generation of	Generation of Nagios Configuration Files	
ID	MON_NCG_1	
Description	The NCG must be able to generate a correct configuration for Nagios that includes all the hosts and services to be monitored.	
Mandatory	YES	
Applicability	Nagios Configuration Generator (NCG) component.	

Input from Technology Provider	Support for the automatic generator of configuration files for Nagios: /etc/nagios and /etc/nagios/wlcg.d/* files must be generated based on the information gathered from the nformation gathered from GOCDB.	
Test	Pre-condition	Configured system.
Description	Test	Generate Nagios configuration files according to the information available in the databases.
	Expected Outcome	Working Nagios configuration files.
Pass/Fail	Pass if the autor	natic generation of configuration files works.
Criteria		
Related Information	NCG [R 26]	
Revision Log		







Generation o	f Failover Nagios Configuration
ID	MON_NCG_2
Description	The NCG must allow a redundant service configuration for Nagios that includes failover capability.
Mandatory	YES
Applicability	Nagios Configuration Generator (NCG) component.

Input from Technology Provider	Support for the automatic generation of configuration files for Nagios with redundant services: • Several WMS • Robot certificates • Several VOs and VOMSES	
Test	Pre-condition	Configured system.
Description	Test	Generate Nagios configuration files according to the information available in the databases.
	Expected Outcome	Working Nagios redundant configuration files using failover services.
Pass/Fail	Pass if the redun	dant services are configured and used correctly.
Criteria		
Related Information	NCG [R 26]	
Revision Log		







1.2 Visualization Portal (MyEGI)

Resource Summary View		
ID	D MON_PORTAL_1	
Description	Provide a view of the summary status of resources.	
Mandatory	YES	
Applicability	MyEGI monitoring visualization portal	

Input from Technology Provider	Summary view in visualization portal that provides the following basic information: • Site of the resource • Resource name • Type of service • Current status • Link to detailed and historical views • Use colors to display the status of the resource.	
Test Description	Pre-condition Test Expected Outcome	Configured system. Browse the summary view of resources. All requested information is provided
Pass/Fail Criteria	Pass if the resou information spec	arce summary view is provided for any selected resource with all the cified above.
Related Information	MyEGI Portal [R 27]	
Revision Log		



Revision Log





Resource De	tail Viau		
Resource De			
ID	MON_PORTAL_2		
Description	Provide a view of the detailed status of resources.		
Mandatory	YES		
Applicability	MyEGI monitoring visualization portal		
Input from Technology Provider	Detailed view of the current status for resources that shows the results of the last execution of all the probes. Include all information requested in the summary view plus:		
	List of probes executed		
	Detailed results of probes		
	Last execution time for probe		
	Link to historical view		
Test	Pre-condition Configured system.		
Description	Test Browse the detailed view of resources.		
	Expected All requested information is provided Outcome		
Pass/Fail Criteria	Pass if the detailed view is provided for any selected resource with all the information specified above.		
Related Information	MyEGI Portal [R 27]		







Resource Historical View		
ID	ID MON_PORTAL_3	
Description	Provide a view of the historical status of resources.	
Mandatory	YES	
Applicability	MyEGI monitoring visualization portal	

Input from Technology Provider	Historical view of the probes executed at resources. Show graphically in a timeline the results for the probes. For any given probe show the detailed view fields when selected.	
Test	Pre-condition	Configured system.
Description	Test	Browse the historical view of resources.
	Expected Outcome	All requested information is provided
Pass/Fail Criteria	Pass if the his information spec	torical view is provided for any selected resource with all the cified above.
Related Information	MyEGI Portal []	R 27]
Revision Log		







Resource Fil	Resource Filters	
ID	MON_PORTAL_4	
Description	Provide ways to filter the information shown in the web interface for all the possible views of the portal.	
Mandatory	YES	
Applicability	MyEGI monitoring visualization portal	
Input from Technology Provider	Provide ways to filter the information shown in the web interface for all the possible views of the portal. At least, the displayed resources should be filtered by the following constrains:	
	status of resource (select just one status or several)	
	• type of service	
	supported VO	
	site which the resource belongs to	
	specific name of resource	
	for historical view many of dates which will be used for the information	

	C	
	• status of r	resource (select just one status or several)
	• type of service	
	supported VO	
	• site which the resource belongs to	
	• specific name of resource	
	for historical view, range of dates which will be used for the information.	
Test	Pre-condition	Configured system.
Description	Test	Test the resource filters available.
	Expected	Resrouces are shown according to the filters tested.
	Outcome	
Pass/Fail	Pass if the resource filters are provided and they work as expected.	
Criteria		
Related	MyEGI Portal [R 27]	
Information		
Revision Log		







Responsiveness		
ID	MON_PORTAL_5	
Description	Visualization portal should provide fast response to user requests.	
Mandatory	YES	
Applicability	MyEGI monitoring visualization portal	

Input from Technology Provider	Information should be displayed as soon as possible. If too much information is to be shown, the portal should use a paginated interface or dynamically load the content and provide as soon as possible a first set of results.	
Test	Pre-condition	Configured system.
Description	Test	Browse complex page (e.g. lots of resources)
	Expected Outcome	Page responsiveness is fast enough for navigation. Information is loaded dynamically or shown in a paged interface.
Pass/Fail Criteria	Pass if the complex pages are responsive for navigation (no more than 15 seconds for showing the first set of results)	
Related Information	MyEGI Portal [R 27]	
Revision Log		







Linkable Views		
ID	MON_PORTAL_6	
Description	Views should have unique URLs that are independent to the user session	
Mandatory	YES	
Applicability	MyEGI monitoring visualization portal	

Input from Technology Provider	Views should have unique URLs that are independent to the user session. These links should work for different users.	
Test	Pre-condition	Configured system.
Description	Test	Generate view link with user A, try it with user B
	Expected Outcome	Both users A and B get the same view results.
Pass/Fail Criteria	Views links must work for different users and/or sessions.	
Related Information	MyEGI Portal [R 27]	
Revision Log		







1.3 Database

Metric List Fetching		
ID	MON_DB_1	
Description	The list of metrics to use in each of the services must be fetch at regular intervals from a given central location.	
Mandatory	YES	
Applicability	Metrics Database	

Input from Technology Provider	Test of the metr	ic fetch mechanism.
Test	Pre-condition	Configured system.
Description	Test	Fetch metrics from central metric database. Generate list of updates for the current local metric database.
	Expected Outcome	Metrics are fetched correctly. A list of updates is generated.
Pass/Fail Criteria	Test must exist and execute correctly.	
Related Information		
Revision Log		







Resource List Fetching		
ID	MON_DB_2	
Description	The list of resources to be tested should be dynamically discovered	
Mandatory	YES	
Applicability	Metrics Database	
_		

Input from Technology Provider	The list of resources to be tested should be dynamically discovered using the various information systems available. The list of sites to be tested meet the following requirements: • listed in the BDII • listed in the GOCDB • status in the GOCDB is Certified	
Test	Pre-condition	Configured system.
Description	Test	Fetch resources by quering BDII and GOCDB. List of updates to perform to the local resource DB.
	Expected Outcome	Resources are fetched correctly. A list of updates is generated.
Pass/Fail	Resource list is generates correctly according to the requirements.	
Criteria		
Related Information		
Revision Log		









Revision Log





2 MONITORING PROBES

The Monitoring Capability executes a set of probes defined by the operations community. These probes *should* be provided by the TP for each product.

Probe Template		
ID	MON_PROBE_1	
Description	A template and documentation for the creation of new probes that can be integrated in the monitoring framework must exist.	
Mandatory	YES	
Applicability	Monitoring Capability	
Input from Technology Provider	Template for probes and documentation for the creation and integration of probes into the framework (or link to those documents)	
Pass/Fail Criteria	The QC will pass if the template and documentation is available for external developers and is usable for creating new probes.	
Related Information		







2.1 Service Probes

Certificate Lifetime Probe		
ID	MON_PROBE_GENERIC_1	
Description	Provide a monitoring probe that assures that the host certificate lifetime for the service is valid.	
Mandatory	NO	
Applicability	All products that use host certificates	

Input from Technology Provider	Certificate Validity Probe. The probe should only use the public interface of the service and run integrated in the monitoring infrastructure of EGI
Pass/Fail Criteria	The QC will pass if the TP provides with the service a probe for checking the certificate lifetime. This probe may be provided also indirectly as part of other probes.
Related Information	
Revision Log	V1.1 Added probe description. V2: Simplified description







Service Prob	Service Probe		
ID	MON_PROBE_GENERIC_2		
Description	Provide monitoring probes that test the functionality of the service		
Mandatory	NO		
Applicability	All Services		
Input from Technology Provider	Monitoring probe that tests that the service provides the expected functionality. The probe should only use the public interface of the service and run integrated in the monitoring infrastructure of EGI. The exact tests to perform for each service are determined by the operations community. For the current probes specification check the SAM documentation [R 28]		
Pass/Fail Criteria	Probes must exist, they must be integrated with the EMI monitoring infrastructure and provide the expected functionality.		
Related Information	SAM documentation [R 28]		
Revision Log			

The criteria described in the next sections make reference to probes that are used by the EGI Operations community to monitor the Infrastructure. The specific appliances must support the execution of these probes.







2.1.1 Job Execution Capability Probes

Job Execution Probe			
ID	MON_PROBE_JOBEXEC_1		
Description	Provide monitoring probes that test the functionality of Job Execution Capability		
Mandatory	YES		
Applicability	Job Execution Appliances		

Input from Technology Provider	CE probes as described at: https://tomtools.cern.ch/confluence/display/SAM/CE
Pass/Fail Criteria	Probes must exist and behave as expected in the probe documentation.
Related Information	SAM documentation [R 28]
Revision Log	







CREAM Job Execution Probe		
ID	MON_PROBE_JOBEXEC_2	
Description	Provide monitoring probes that test the functionality of CREAM	
Mandatory	YES	
Applicability	CREAM Appliances	

Input from Technology Provider	CREAM CE probes as described at: https://tomtools.cern.ch/confluence/display/SAM/CREAMCE-DJS
Pass/Fail Criteria	Probes must exist and behave as expected in the probe documentation.
Related Information	SAM documentation [R 28]
Revision Log	







WN Probes	
ID	MON_PROBE_JOBEXEC_3
Description	Provide monitoring probes that test the correct function of Worker Nodes
Mandatory	YES
Applicability	Worker Node

Input from Technology Provider	WN probes as described at: https://tomtools.cern.ch/confluence/display/SAM/WN .
Pass/Fail	Probes must exist and behave as expected in the probe documentation.
Criteria	
Related	SAM documentation [R 28]
Information	
Revision Log	







2.1.2 Compute Job Scheduling Probes

WMS Probes	
ID	MON_PROBE_JOBSCH_1
Description	Provide monitoring probes that test the functionality of WMS.
Mandatory	YES
Applicability	WMS Job Scheduling Appliances.

Input from Technology Provider	WMS https://tomto	probes ools.cern.ch/confluence	as e/display/SAM/V	described WMS.	at:
Pass/Fail Criteria	Probes must	exist and behave as ex	xpected in the pro	obe documentation.	
Related Information	SAM docum	nentation [R 28]			
Revision Log					







2.1.3 File Access Capability Probes

SRM Probes	
ID	MON_PROBE_STORAGE_1
Description	Provide monitoring probes that test the functionality of SRM.
Mandatory	YES
Applicability	Storage Management Appliances

Input from Technology Provider	SRM probes as described at: https://tomtools.cern.ch/confluence/display/SAM/SRM .
Pass/Fail Criteria	Probes must exist and behave as expected in the probe documentation.
Related Information	SAM documentation [R 28]
Revision Log	







2.1.4 Metadata Catalogue Capability Probes

LFC Probes	
ID	MON_PROBE_METADATA_1
Description	Provide monitoring probes that test the functionality of LFC.
Mandatory	YES
Applicability	LFC Appliances

Input from Technology Provider	LFC probes as described at: https://tomtools.cern.ch/confluence/display/SAM/LFC .
Pass/Fail Criteria	Probes must exist and behave as expected in the probe documentation.
Related Information	SAM documentation [R 28]
Revision Log	







3 ACCOUNTING CAPABILITY

The use of resources within the e-Infrastructure must be recorded for understanding usage patterns by different user communities and by individuals within their communities.

3.1 Generation of Accounting Records

Job Execution Appliances Accounting	
ID	ACC_JOBEXEC_1
Description	Job Execution Appliances must generate accounting records for all the actions of the users into the local resources.
Mandatory	YES
Applicability	Accounting Appliances for Job Execution Capability (APEL)

Manuatory	1 LS		
Applicability	Accounting App	Accounting Appliances for Job Execution Capability (APEL)	
Input from Technology Provider	The Job Execution Capability must generate accounting records for the actions of the users into the local resources (jobs submitted to the underlying execution manager). These records must include, at least, the following information for all the jobs submitted to the system: • User DN • VO • Job start execution time • Job end execution time • SPECint information • CPU & Wall Time • Number of slots/CPUs used by the job The generation of accounting records must be available for the execution manager supported by the Job Execution Capability implementation. Support is expected for the following systems: • Torque • SGE		
Test	• LSF Pre-condition	Configured system.	
Description	Test	Creation of accounting records	
	Expected Outcome	Accounting records for the jobs submitted to the execution manager through the Capability.	
Pass/Fail Criteria	Pass if the accounting records are generated correctly for all execution managers supported. The generation of the records should not compromise the availability and reliability of the system.		
Related Information			
Revision Log			







Job Scheduli	ng Appliances Accounting			
ID	ACC_JOBSCH_1			
Description	Job Scheduling Capability must generate accounting records for all the actions of the users.			
Mandatory	NO			
Applicability	Accounting App	liances for Job Scheduling Capability		
	T			
Input from Technology Provider	The Job Scheduling Capability must generate accounting records for the actions of the users (jobs submitted to the appliance). These records must include, at least, the following information for each submitted job:			
	• status of job			
	 submiss 	• submission time		
	• completion time			
	• failures			
	Summary information (number of submitted jobs, success rate, average submission time, etc) should also be provided.			
Test	Pre-condition	Configured system.		
Description	Test	Creation of accounting records		
	Expected Outcome	Accounting records for the jobs submitted the system through the Capability.		
Pass/Fail Criteria	Pass if the accounting records are generated correctly. The generation of the records should not compromise the availability and reliability of the system.			
Related Information				

Revision Log







3.2 Accounting Store and Transmission for Job Execution Appliances.

The accounting information should be stored in a local database and transmitted in regular intervals to a central registry where information of the whole EGI infrastructure is stored.

Local Accounting Store	
ID	ACC_STORE_1
Description	APEL must be able to store the information collected from the execution manager in a site database.
Mandatory	YES
Applicability	APEL Accounting Appliances.







	Expected Outcome	Accounting records are stored in the site registry. Log of operations is available.
Pass/Fail		ounting records are stored correctly. Storage of the records should not
Criteria	compromise the	e availability and reliability of the system.
Related Information		
Revision Log		







Accounting Records Transmission		
ID	ACC_STORE_2	
Description	APEL must be able to send the records stored in the site registry to a central registry database by using a messaging system.	
Mandatory	YES	
Applicability	APEL Accounting Appliances.	

Input from Technology Provider	Test for the transmission of records to the central registry using ActiveMQ.	
Test Description	Pre-condition	Configured system. Accounting records are correctly generated and stored in local registry.
	Test	Send new records to the central registry using ActiveMQ.
	Expected Outcome	Only new records are sent to central registry by default but site administrators are able also to republish accounting records in a specific interval using accounting configuration files. They are stored correctly there. Log of operations is generated.
Pass/Fail Criteria	Pass if the test is provided and passes. The transmission of the records should not compromise the availability and reliability of the system.	
Related Information		
Revision Log		







Periodic Local Registry Store		
ID	ACC_CRON_1	
Description	The accounting appliance must periodically submit new accounting records to the local registry	
Mandatory	YES	
Applicability	APEL Accounting Appliances.	

Input from Technology Provider	_	appliance must periodically submit new accounting records to the his action should be executed daily to check new executed jobs.
Test	Pre-condition	Configured system.
Description	Test	Send new records to the local registry each day.
	Expected Outcome	Only new records are sent to local registry. They are stored correctly there. Accounting logs are generated locally.
Pass/Fail Criteria	Pass if the perio	dic update mechanism (e.g. cron) is provided and works as expected.
Related Information		
Revision Log	V3: removed most cron references.	

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Periodic Central Registry Update.		
ID	ACC_CRON_2	
Description	The accounting appliance must periodically submit new accounting records to the global registry	
Mandatory	YES	
Applicability	APEL Accounting Appliances.	

Input from Technology Provider	Local registry must be able to submit new accounting records to global accounting registry using a message system. This action should be executed daily to check new executed jobs.		
Test	Pre-condition	Pre-condition Configured system.	
Description	Test	Send new records to the global registry each day.	
	Expected Outcome	Only new records are sent to global registry by default but site administrators are able also to republish accounting records in a specific interval using accounting configuration files. They are stored correctly there. Logs about the update are generated locally.	
Pass/Fail Criteria	Pass if the periodic update mechanism (e.g. cron) is provided and works as expected.		
Related Information			
Revision Log	V3: removed most cron references.		







3.3 Visualization Portal

Accounting Portal Summary View			
ID	ACC_PORTAL_1		
Description	Accounting portal must provide a front-end view of published CPU resources.		
Mandatory	YES		
Applicability	Accounting Portal Implementation		

Input from Technology Provider	Accounting portal provides a front-end view of published CPU resources that have been aggregated into summaries. These summaries may view per: • Site • Countries • VO • NGI • Tier1 / Tier2	
Test Description	Pre-condition Test Expected Outcome	Configured accounting portal. Browse summaries. Summary views are shown with correct data for all the possible levels.
Pass/Fail Criteria	Pass if the summary view is provided and is correctly generated for all possible levels	
Related Information	EGI Accounting Portal [R 29]	
Revision Log		







Accounting Portal Access Policy		
ID	ACC_PORTAL_2	
Description	Sensitive information about VO usage and Users DNs must be encrypted and only accessible to their VO managers via X.509 certificate.	
Mandatory	YES	
Applicability	Accounting Portal Implementation	

Input from Technology Provider	Portal must include access policies for VO managers that restricts the information that can be accessed.	
Test	Pre-condition	Configured accounting portal. Valid VO manager certificate.
Description	Test	Browse VO view with VO usage and user DNs.
	Expected	Information is displayed correctly.
	Outcome	
Pass/Fail	Pass if the access policy is applied correctly.	
Criteria		
Related Information	EGI Accounting Portal [R 29]	
Revision Log		







Accounting P	Portal Global View		
ID	ACC_PORTAL_3		
Description	Accounting Portal views must include a production global view		
Mandatory	YES		
Applicability	Accounting Port	al Implementation	
Input from Technology Provider	Accounting Portal views must include a production global view. This view must include a custom view where users can select how display desired accounting data, users can select these options: • Data to graph: Users can select Norm. Sum CPU in kSI2000-hours, or HEPSPEC-2006 number of jobs, Norm Sum elapsed time in kSI-2000 hours and HEPSPEC-2006 hours or CPU efficiency. • Data period to view. • Show data for Region, Date or VO and as function of Region, Date, VO or Country. • Group results by VO, Region or Date • Chart type: Accumulative bar, group bar or lines. • Scale: Linear or logarithmic. • A button to exclude operations VOs like dteam and ops. This general view must include also a list of certified sites which are not publishing accounting data since last 3 months. Accounting Portal views must include different charts and graphs for ease of use.		
Test	Pre-condition	Configured System.	
Description	Test	Visualize data with charts	
	Expected Outcome	Charts are correctly generated for the accounting data available based on users selection.	
Pass/Fail Criteria	Pass if the charts are correctly generated for all the accounting data available and for all the chart models.		
Related Information	EGI Accounting Portal [R 29]		
Revision Log			







Accounting P	ortal VO Mana	ger View	
ID	ACC_PORTAL_4		
Description	Accounting Portal views must include a production VO manager view.		
Mandatory	YES		
Applicability	Accounting Port	al Implementation	
Input from Technology Provider	Accounting Portal views must include a production VO manager view. This view must include a custom view where only VO managers can select and display desired accounting data, available options are:		
	• VO to q	uery including Group and Role.	
	NGI/Co	untry to display.	
	Order by: Number of jobs, Norm. sum CPU, sum CPU, Norm sum time elapsed and sum. Time elapsed.		
	Data period to display		
	This view generates a list with desired accounting information (including CPU efficiency for each VO group), a percentage pie chart and a bar chart for selected period of time.		
Test	Pre-condition	Configured System.	
Description	Test	Visualize data with charts	
	Expected Outcome	Charts are correctly generated for the accounting data available based on VO managers selection.	
Pass/Fail Criteria	Pass if the charts are correctly generated for all the accounting data available and for all the chart models.		
Related Information	EGI Accounting Portal [R 29]		

Revision Log







Aggounting	Portal VO Mombor View		
Accounting P	counting Portal VO Member View		
ID	ACC_PORTAL_5		
Description	Accounting Portal views must include a production VO member view.		
Mandatory	YES		
Applicability	Accounting Portal Implementation		
Input from	Accounting Portal views must include a production VO member view. This view		
Technology	must include a custom view where only VO members can select and display desired		
Provider	accounting data:		
	 VO including Group and Role. 		
	 Order by: Number of jobs, Norm. sum CPU, sum CPU, Norm sum time elapsed and sum. Time elapsed. 		

Technology	must include a custom view where only VO members can select and display desired		
Provider	accounting data:		
	 VO including Group and Role. 		
	 Order by: Number of jobs, Norm. sum CPU, sum CPU, Norm sum time elapsed and sum. Time elapsed. 		
	 Data per 	riod to display.	
	_	erates a list with desired accounting information (including CPU ach VO group), a percentage pie chart and a bar chart for selected	
Test	Pre-condition	Configured System.	
Description	Test	Visualize data with charts	
	Expected Outcome	Charts are correctly generated for the accounting data available based on VO members selection.	
Pass/Fail Criteria	Pass if the charts are correctly generated for all the accounting data available and for all the chart models.		
Related Information	EGI Accounting Portal [R 29]		
Revision Log			







Accounting P	Portal Site Admin View		
ID	ACC_PORTAL_6		
Description	Accounting Portal views must include a site admin view.		
Mandatory	YES		
Applicability	Accounting Port	al Implementation	
Input from Technology Provider	Accounting Portal views must include a production Site Admin view. This view must include a custom view where only site administrators can select and display desired accounting data for their sites, site administrator can select: • Site to display accounting data. • Order by: Number of jobs, Norm. sum CPU, sum CPU, Norm sum time elapsed and sum. Time elapsed. • Data period to display. This view generates a list with desired accounting information (including CPU efficiency for each VO group), a percentage pie chart and a bar chart for selected period of time.		
Test Description	Pre-condition Test Expected Outcome	Configured System. Visualize data with charts Charts are correctly generated for the accounting data available based on site administrators selection.	
Pass/Fail Criteria	Pass if the charts are correctly generated for all the accounting data available and for all the chart models.		
Related Information	EGI Accounting Portal [R 29]		
Revision Log			







4 REFERENCES

R 1	UMD roadmap: https://documents.egi.eu/public/ShowDocument?docid=100
R 2	Web Services Data Access and Integration – The Relational Realisation (WS-DAIR) Specification, Version 1.0
R 3	Web Services Data Access and Integration – The XML Realization (WS-DAIX) Specification, Version 1.0
R 4	OGSA-DAI: http://www.ogsadai.org.uk/
R 5	gLite LFC: https://twiki.cern.ch/twiki/bin/view/EGEE/GliteLFC
R 6	AMGA: http://amga.web.cern.ch/amga/
R 7	AMGA WSDL: http://amga.web.cern.ch/amga/soap_wsdair.html
R 8	AMGA streaming API: http://amga.web.cern.ch/amga/protocol.html
R 9	AMGA Metadata Queries: http://amga.web.cern.ch/amga/queries.html
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R 40	Lcg-utils: http://grid-deployment.web.cern.ch/grid-deployment/documentation/LFC_DPM/lcg_util/
R 41	Lcg-utils test suite: http://glite.cvs.cern.ch/cgi-bin/glite.cgi/org.glite.testsuites.ctb/UI/tests/test-lcg-utils.sh?view=markup
R 42	Open Cloud Computing Interface WG, OGF, http://www.ggf.org/gf/group_info/view.php?group=occi-wg
R 43	Virtualization Management (VMAN), DMTF http://www.dmtf.org/standards/vman
R 44	StratusLab http://stratuslab.eu/







R 45

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