				Quick agreement			
D	Description	Source	Areas	(yes/no/unclear)	Status	Date	Link to discussion page
1	All grid entities MUST be described using the most recent GLUE model	GIN	Information	no - Andrew	Proposed	3/17/2010	http://forge.gridforum.org/sf/wiki/do/viewPage/projects.pgi-wg/wiki/RegIS1
	For each grid entity which can NOT be described in						
2	conformance with GLUE, PGI should propose extensions	GIN	Information	yes	Proposed	3/17/2010	http://forge.gridforum.org/sf/wiki/do/viewPage/projects.pgi-wg/wiki/ReqIS1.2
	If functions provided by one Endpoint (here Execution Service) have different GLUE properties, then the Endpoint MUST be split in different Endpoints, each one having homogeneous properties, heterogeneous resources can't be described with one GLUE		Info was ation	No	Duanasad	2/47/2040	
	B endpoint entity  Each service must publish information regarding its	Etienne Urbah	inionnation	INO	Proposed	3/17/2010	http://forge.gridforum.org/sf/wiki/do/viewPage/projects.pgi-wg/wiki/ReqIS2.2
4	service properties	GIN	Information	yes	Proposed	3/17/2010	http://forge.gridforum.org/sf/wiki/do/viewPage/projects.pgi-wg/wiki/ReqIS3
	The Execution Service must not expose detailed information about the GLUE entities which the Execution Service does not manage (all that are not expressed by the computing part of GLUE), example Storage element GLUE entity not exposed via						
5	execution service, no details abo ut storage entity Instance of Execution Service MUST provide access to attributes/meta data that describe this instance using GLUE. (V-2 note: The appropriate sections of the XML rendering of GLUE need to be identified.).	Etienne Urbah Strawman	Information	yes	Proposed	3/17/2010	http://forge.gridforum.org/sf/wiki/do/viewPage/projects.pgi-wg/wiki/ReqIS4
6	Different levels of verbosity should be offered.	functionality	Information	ves	Proposed	3/18/2010	http://forge.gridforum.org/sf/wiki/do/viewPage/projects.pgi-wg/wiki/ReqIS5
	The Execution service instance MUST publish all data-staging capabilities (for example: supported	Draft Spec	Information,	yes	Proposed		http://forge.gridforum.org/sf/wiki/do/viewPage/projects.pgi-wg/wiki/ReqIS6
	The vector limits for each of the vector operations should be exposed - 'If the Execution Service provides vector functionalities, then it MUST publish the vector limits according to the GLUE endpoint. If these vector functionalities have different vector limits, then they MUST be grouped inside separate GLUE Endpoints entities having each a homogeneous vector limit.' (Problem GLUE2 space), example: createQuickActivity[1000], createValidatedActivity[10] - this information must be						
8	exposed when they have limits	Draft Spec	Information	Yes	Proposed	3/20/2010	http://forge.gridforum.org/sf/wiki/do/viewPage/projects.pgi-wg/wiki/ReqIS7
	Servers MUST authenticate to Clients with SSL						
9	certificates	General	Security	no	Proposed		http://forge.gridforum.org/sf/wiki/do/viewPage/projects.pgi-wg/wiki/ReqAA1
10	SSL certificates of servers MUST be signed by a CA belonging to IGTF	General	Security	no	Proposed		http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki? pageName=RegAA1.1&referrerPageName=RequirementsTable
	Each Service MUST publish the Authentication and Authorization methods accepted by its Endpoints in conformance with GLUE recommendations, example: endpoint capabilities for security like WS-Security and X.509, WS-SecurityPolicy within the GLUE element, list of authentication and authorization methods (e.g. profiles like WS-SecureCommunication) - extend capability_t values security.authentication.ssl and security.authorization.ssl - do we extend with Strings only or do we insert XML (WS-SecurePolicy)	Solicial	Security,	unclear (after	Toposeu	37172010	http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki?

	For Client authentication, Services MUST require						http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki?
12	security credentials	General	Security	no	Proposed		pageName=ReqAA3&referrerPageName=RequirementsTable
13	For Client authentication, Services MAY accept full X509 certificates, transport or message level is open?	General	Security	unclear	Proposed		http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki? pageName=ReqAA3.1&referrerPageName=RequirementsTable
14	For Client authentication, Services MAY accept RFC-3820-compliant X509 proxies	General	Security	unclear	Proposed		http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki? pageName=ReqAA3.2&referrerPageName=RequirementsTable
	For Client authentication, Services MAY accept						http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki?
	SAML assertions For Client authentication, Services MAY accept	General	Security	unclear	Proposed		pageName=ReqAA3.3&referrerPageName=RequirementsTable http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki?
16	Shibboleth credentials For Client authentication, Services must accept a	General	Security	unclear	Proposed	3/17/2010	pageName=ReqAA3.4&referrerPageName=RequirementsTable
17	certain number of authentication methods	General	Security	no	Proposed	3/17/2010	http://forge.gridforum.org/sf/wiki/do/viewPage/projects.pgi-wg/wiki/ReqAA3.5
18	For Client authorization, execution service MUST require security credentials, example: typically anonymous requests not allowed, perhaps a policy-decision rather than requirement	General	Security	no	Proposed		http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki?pageName=ReqAA4&referrerPageName=RequirementsTable
19	For Client authorization, the packaging of security credentials MUST be designed to prevent that any software component gains undue privilege by extracting only some credentials from the package, example: a man in the middle might extract one credential from 'the package' and this should be not alllowed, are such packages existing? E.g. several SAML assertions in the SOAP Header. What set of assertions have been delegated with signature chain together as 'one package' - the SAML assertions (even 3) are always together signed	Etienne Urbah	Security	yes	Proposed		http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki?pageName=ReqAA4.1&referrerPageName=RequirementsTable
	For Client authorization, Services MAY accept the DN of the X509 certificate or RFC-3820-compliant X509						http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki?
20	proxy For Client authorization, Services MAY accept X509	GIN	Security	yes	Proposed		pageName=ReqAA4.2&referrerPageName=RequirementsTable http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki?
21	VOMS-style Attribute Certificates (VOMS extensions) For Client authorization, Services MAY accept SAML	GIN	Security	yes	Proposed		pageName=ReqAA4.3&referrerPageName=RequirementsTable http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki?
22	assertions	GIN	Security	yes	Proposed		pageName=ReqAA4.4&referrerPageName=RequirementsTable
23	For Client authorization, Services MAY accept Shibboleth credentials	GIN	Security	yes	Proposed		http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki? pageName=ReqAA4.5&referrerPageName=RequirementsTable
	For Client authorization, Services MUST accept at least one of DN, X509 VOMS extensions, SAML						http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki?
24	assertions For Client authorization, Services SHOULD accept	GIN	Security	no	Proposed		pageName=ReqAA4.6&referrerPageName=RequirementsTable http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki?
25	SAML assertions	GIN	Security	no	Proposed		pageName=ReqAA4.7&referrerPageName=RequirementsTable
	Requirement of cross-organization trust federation mechanism, single sign-on. (E.g. Cross-organization delegation, particularly to (university) campuses and other partner institutions, use native authentication mechanisms to national resources.  E.g.I can use my credentials at University X to retrieve another credential for University Y that is in the same trust federation.  For example: in US a lot of efforts towards SAML (authentication mechanism) and 'incommon' (project name of authentication mechanism, incommon.org using Shibboleth version 2) driven by Internet2 (large network provider) (i.e. Shibboleth developers).  Related Shibboleth						
26	E.g. Different attributes: Ways to use WS-Trust to work on this.	NSF 08-571	Security	No	Proposed		http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki? pageName=ReqAA4.8&referrerPageName=RequirementsTable

i 27 s	In order to keep middleware complexity and bandwidth usage as low as possible, grid Services should NOT send the full description of their security interface inside each message, but only when specifically requested	GIN	Security	no	Proposed		http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki?pageName=ReqAA7&referrerPageName=RequirementsTable
:	Service has to act on behalf of another identity. Services often need to delegate those Credentials to other Service. Therefore, Services MUST offer						http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki?
1	We need delegation and have to define exactly what delegation is and its methods. E.g the delegation procedure might require multiple steps (one approach might be the delegation portType), e.g. gridsite delegation method - bringing delegation to the		Security	yes	Proposed		pageName=ReqAA8&referrerPageName=RequirementsTable  http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki?
29	portType level using operations.	GIN	Security	yes	Proposed		pageName=ReqAA8.3&referrerPageName=RequirementsTable
30 1	Delegation credential renewal should be supported	GIN	Security	ves	Proposed		http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki?pageName=ReqAA8.4&referrerPageName=RequirementsTable
1	Associate Activity to a specific delegation credential, e.g. certificate or SAML assertion, or, Each job belong to a credential (associate them), when ever one credential expires then the execution service may terminates the corresponding activities	Luigi Zangrando	Security	yes	Proposed		http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki? pageName=ReqAA8.5&referrerPageName=RequirementsTable
1 ( 1 32	There must be a mechanisms that allows users to manage Activities submitted by other users (access control lists/methods/policies), In order to authorize (or not) an request on an Activity, each instance of the Execution Service MUST enforce a consistent authorization method, It is assumed that the clients obtain security setup	Luigi Zangrando	Security, Compute	yes	Proposed		http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki? pageName=ReqAA9&referrerPageName=RequirementsTable
į	info through out-of-band mechanisms which are not covered by this specification.	Draft Spec	Security	no	Proposed		http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki?pageName=ReqAA11&referrerPageName=RequirementsTable
34 \	An easy way of launching applications or preconfigured /pre-installed software w/o specifying location details. Installed/pre-configured ones should be exposed as well as part of the resource description. The available software should be exposed through the service and in turn be requestable for resource/applications statements in JSDL. E.g. extending the JSDL with "pre-configured sw pieces" and/or "software libraries", e.g. global namespace of this applications might be beneficial as well., etc.	GIN, NSF 08- 571	Compute	Yes	Proposed	3/19/2010	http://forge.gridforum.org/sf/wiki/do/viewPage/projects.pgi-wg/wiki/ReqAR1
	application management, for example, pre-installed applications, abstract notion of the application (i.e. specify w/o executable locations),	NSF 08-571	Compute	Yes	Duplicate (# 34)	3/20/2010	http://forge.gridforum.org/sf/wiki/do/viewPage/projects.pgi-wg/wiki/ReqAR2
 	The execution service should provide accounting record for every managed activity. e.g. OGF Usage Records,for tracking resource usage. Most likely improving UR in terms of network and storage resource tracking and improvements of compute parts of multi-core-business. Grid-level attributes (for example: start-time on Grid vs. in batch-system).	NSF 08-571	Accounting	Yes	Proposed	3/20/2010	http://forge.gridforum.org/sf/wiki/do/viewPage/projects.pgi-wg/wiki/ReqAc2

	The execution service should provide local log						
	records that permit efficient log analysis and security						
	audit, e.g. changes of activity states, faults, user / job						
	mappings,	PGI	Compute	Yes	Proposed	3/26/2010	http://forge.gridforum.org/sf/wiki/do/viewPage/projects.pgi-wg/wiki/RegLB1
- 01	Execution service should provide functionalities for	1 01	Compute	103	Тторозса	3/20/2010	Titip://forge.gridiorum.org/si/wiki/do/viewr dgo/projects.pgr-wg/wiki/rteqEb1
	accepting requests quering on local log records and						
	provide different level of verbosity, e.g. request an						
		PGI	Computo	Mo	Drangood	2/26/2010	http://forms.gridfor.um.org/of/wiki/do/viowDogo/projecto.ngi.wg/wiki/Dog/ D2
	operation that exposes logs on the portType level	PGI	Compute	No	Proposed	3/26/2010	http://forge.gridforum.org/sf/wiki/do/viewPage/projects.pgi-wg/wiki/ReqLB2
	Some Logging and Bookkeeping functionality MUST						
	accept requests in order to obtain the Activity Log,						
	and MUST return the Activity logs (job lifetime and						
	history) with different levels of verbosity (basic,	501	Accounting			0.100.100.40	
	detailed, more detailed)	PGI	& Logging	yes	Proposed	3/26/2010	http://forge.gridforum.org/sf/wiki/do/viewPage/projects.pgi-wg/wiki/ReqLB3
	In terms of queries, the Logging and Bookkeeping						
	functionality SHOULD support query languages, e.g.						
	at least one complex query language like XPath,		Accounting				
	XQuery, in order to obtain the activity logs, etc.	PGI	& Logging	No	Proposed	3/26/2010	http://forge.gridforum.org/sf/wiki/do/viewPage/projects.pgi-wg/wiki/ReqLB7
	In order to prevent overloading the Execution Service						
	(which has performance requirements for Activity						
	Management), the Logging and Bookkeeping						
	functionality SHOULD be separated from the						
	Execution Service	Etienne Urbah	Compute	no	Proposed	3/26/2010	http://forge.gridforum.org/sf/wiki/do/viewPage/projects.pgi-wg/wiki/RegLB8
	For Activity submission, Clients MUST query the						
	Information Service in order to get an adequate	Etienne					
42	Endpoint of an Execution Service	Urbah	Information	no	Proposed	3/17/2010	http://forge.gridforum.org/sf/wiki/do/viewPage/projects.pgi-wg/wiki/RegJM1
	The Execution Service MUST provide a way to create				· ·		
43	Activities.	General	Compute	ves	Proposed	3/19/2010	http://forge.gridforum.org/sf/wiki/do/viewPage/projects.pgi-wg/wiki/ReqJM2
	Activities submitted by Clients to an Execution		·				
	Service MUST be specified using a well-defined Job						
	Description document	General	Compute	ves	Proposed	3/17/2010	http://forge.gridforum.org/sf/wiki/do/viewPage/projects.pgi-wg/wiki/ReqJM3
	On creation of an Activity, the Execution Service			,			
	MUST return to the Client an Activity ID permitting the						
	Client to perform subsequent actions (Query, Cancel,						
	) on this precise Activity	General	Compute	ves	Proposed	3/17/2010	http://forge.gridforum.org/sf/wiki/do/viewPage/projects.pgi-wg/wiki/ReqJM4
	The service assigns a global unique Activity ID - not	Contorui	Compute	yco	Порозос	0/11/2010	Tittp://Torgo.gridioram.org/on/witt//do/viewr dgo/projecte.pg/ wg/witt//Ttequivi-
	the client	General	Compute	ves	Proposed	3/20/2010	http://forge.gridforum.org/sf/wiki/do/viewPage/projects.pgi-wg/wiki/ReqJM4.1
	The Activity ID MUST be suitable for manual transfer	Concrai	Compute	ycs	Порозса	3/20/2010	Titip://forge.gridiorum.org/si/wiki/do/viewi age/projects.pgi-wg/wiki/tequivi i
	by a human (In case of problems with the Activity).	Etienne Urbah	Compute	no	Proposed	3/17/2010	http://forge.gridforum.org/sf/wiki/do/viewPage/projects.pgi-wg/wiki/ReqJM4.3
	In case of an activity being moved to another	Eucinic Orball	Jonnpute	110	i Toposeu	5/1//2010	Tittp://Torgo.gridiordiff.org/oi/witti/do/viewr age/projects.pgr-wg/witti/Tteq01014.5
	execution service it still must be managerable via the						
	initial execution service, which created the activity, e.						
	g. one endpoint used for job submission then all						
	subsequent requests have to be supported as well (e.					0/47/0040	1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1
	g. query statues, manage the job, etc.)	Etienne Urbah	Compute	no	Proposed	3/17/2010	http://forge.gridforum.org/sf/wiki/do/viewPage/projects.pgi-wg/wiki/ReqJM4.4
	An execution service may offer several endpoints (e.						
	g. URI / EPR) to create and later manage the						
	activities while the latter endpoint must be stay fixed.,						
	e.g. job submitted via portal to execution service and						
	its answers with the endpoint that really manages this						
	submitted activity (might be forwarded for execution						
				unclear (after			

	The Execution Service MUST NOT assume that any						
	Client is able extract any information (including						
	addressing information) from the Activity ID.						
	Therefore, the Activity ID may be completely opaque.						
	- UNDERSTANDING WHAT AN ACTIVITY ID IS						
50	(Time Consuming)	General	Compute	no	Proposed	3/17/2010	http://forge.gridforum.org/sf/wiki/do/viewPage/projects.pgi-wg/wiki/ReqJM4.7
	From the Activity ID, the Client MUST be able to						
	extract the Endpoint suitable for Activity						
	Management, but the Execution Service MUST NOT						
	assume that the Client is able to extract any other					011=10010	
	information from the Activity ID	General	Compute	no	Proposed	3/17/2010	http://forge.gridforum.org/sf/wiki/do/viewPage/projects.pgi-wg/wiki/ReqJM4.8
	From the Activity ID, the Client MUST be able (for						
	example by querying a Name Server) to dynamically						
	retrieve the Endpoint suitable for Activity						
	Management, but the Execution Service MUST NOT						
	assume that the Client is able to extract or retrieve						
	any other information from the Activity ID	General	Compute	no	Proposed	2/17/2010	http://forge.gridforum.org/sf/wiki/do/viewPage/projects.pgi-wg/wiki/RegJM4.9
	Define exactly what an Activity ID is.	GIN	Compute	yes	Proposed	3/19/2010	http://forge.gridforum.org/sf/wiki/do/viewPage/projects.pgi-wg/wiki/ReqJM4.10
	Operations dealing with Activity management of the						
	service should operate on Activity IDs in order to						
54	ensure a good performance	GIN	Compute	no	Proposed	3/20/2010	http://forge.gridforum.org/sf/wiki/do/viewPage/projects.pgi-wg/wiki/ReqJM4.11
	A simple activity is defined by a simple job description						
	containing only one local job executed only by one						http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki?
	batch system	Etienne Urbah	Compute	no	Proposed		pageName=RegJM5&referrerPageName=ReguirementsTable
	The Execution Service SHOULD be able to support		Compato		opoodu	0,11,2010	pagertame requires agertame requirementer able
	bulk operations for several operations such as						
	Create(), ChangeState(), ActivityStatus(), Cancel(),						
	Purge() (implementation aspect longly discussed in						
	Munich - worth to keep), e.g. one implementation						
	might be to support vectors for operations within						http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki?
56	Execution service	Draft Spec	Compute	no	Proposed	3/17/2010	pageName=RegJM5.1&referrerPageName=RequirementsTable
	The execution service may have limits for its bulk						<u> </u>
	operations. E.g. The execution service may have						
	limits with respect to the size of the vector due to						
	implementation aspects and if requests exceed the						
	implementation limits the service communicates this	5 6 6					http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki?
	via a fault.	Draft Spec	Compute	no	Proposed	3/20/2010	pageName=ReqJM5.2&referrerPageName=RequirementsTable
	The Execution Service should support collections						
	(different from vectors since collections have an id						http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki?
58	and group different activities)	Draft Spec	Compute	no	Proposed	3/17/2010	pageName=ReqJM5.3&referrerPageName=RequirementsTable
	Execution Service will NOT take into account						<u> </u>
	Parameter Sweep Jobs, which describe independent						http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki?
		Draft Spec	Compute	no	Proposed		pageName=RegJM5.4&referrerPageName=ReguirementsTable
	Execution Service will NOT take into account DAG	_ rait opoo	Sompato	110	Поросси	5, 1172510	page
	Jobs, which describe a DAG workflow of a limited						http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki?
		Droft C	Committee		Dron		
	number of explicitly described Single Jobs	Draft Spec	Compute	no	Proposed	3/1//2010	pageName=ReqJM5.5&referrerPageName=RequirementsTable
	The Execution Service SHOULD support any Activity						
		Strawman					http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki?
		functionality	Compute	yes	Proposed	3/18/2010	pageName=ReqJM5.6&referrerPageName=RequirementsTable
	The Execution Service MUST log enough grid						
	information inside logging systems (which MAY vary						
	during the lifetime of the Activity), in order to permit				Duplicate		http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki?
	efficient Log analysis and Security audit	Etienne Urbah	Compute	ves	(#37)		pageName=RegJM6&referrerPageName=ReguirementsTable
	The Execution Service MUST accept requests	Lacing Orban	Sompare	you	(#61)	5/11/2010	pagoriamo moquinoaronom agoriamo-mequiremento rabie
							http://forgo.gridforum.org/of/wiki/do/orgoteDese/sesisete.sesises/wiki/O
	querying the Status of an Activity, and MUST return the Activity Status	D# 0	0		D		http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki?
	ING ACHAIN STATUS	Draft Spec	Compute	no	Proposed	3/17/2010	pageName=RegJM6.1&referrerPageName=RequirementsTable

	Executions service provides the activity status						
	nformation with different levels of verbosity (basic, letailed, more detailed)	Draft Spec	Compute	no	Proposed		http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki? pageName=RegJM6.2&referrerPageName=RequirementsTable
	n order to minimize polling of the Activity Status, the	Diait Spec	Compute	TIO	Fioposeu	3/10/2010	pagervanie-itequivo.2 areienen agervanie-itequirenients i abie
	Execution Service MAY implement a mechanism for						
	notification. Asynchronous notification of Activity						
	status (for example: e-mail, SMS, etc.) - human level						http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki?
		NSF 08-571	Compute	yes	Proposed		pageName=ReqJM6.5&referrerPageName=RequirementsTable
	The Instance of Execution Service MUST permit any			,,,,,		0,20,20.0	
	Client to request the list of all Activities managed by	Strawman					http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki?
		functionality	Compute	no	Proposed		pageName=ReqJM6.7&referrerPageName=RequirementsTable
	f a client queries for an already finished activity, the						http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki?
67	execution service MAY response with an error.	Etienne Urbah	Compute	yes	Proposed	3/26/2010	pageName=ReqJM6.8&referrerPageName=RequirementsTable
- 1	The Execution Service MUST accept requests						
	querying the detailed Information of an Activity, and						
	MUST return the detailed Activity Information (more						
	han just the status, for example: GLUE2 Activity).						
	Provide Activity information with different levels of						http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki?
		Draft Spec	Compute	no	Proposed	3/20/2010	pageName=ReqJM6.9&referrerPageName=RequirementsTable
	Obtain Activity session directory/staging-directory		_				
	maybe as part of more general) information within an		Compute,				http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki?
		Draft Spec	Data	no	Proposed	3/19/2010	pageName=ReqJM6.10&referrerPageName=RequirementsTable
	The Execution Service MAY provide the functionality						
	o monitor (poll) the state of activities via filters						
	defined by queries, i.e. not requiring explicit Activity						http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki?
70		Luigi	Compute	no	Proposed	3/19/2010	pageName=ReqJM6.12&referrerPageName=RequirementsTable
	The Execution Service MUST provide information						
	about the Activity history (i.e. Activity status) and						
	nvoked operations on this Activity (log on ws level?!).				<u> </u>		http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki?
		Etiene Urbah	Compute	no	Proposed	3/20/2010	pageName=ReqJM6.13&referrerPageName=RequirementsTable
	The execution service MUST publish activity status						
	nformation according to the common PGI state						
	model, but status information might be optionally						
	published according to multiple (simultanously) status	D # 0					http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki?
		Draft Spec	Compute	no	Proposed	3/20/2010	pageName=ReqJM6.14&referrerPageName=RequirementsTable
	The execution service should offer more flexibility						
	enabling complex queries on resource and Activity						
	nformation expressed according to the GLUE model						
	vithout explicit specification of the Activity IDs. The						
	Execution Service MAY support multiple query						
	anguages in addition to the mandatory one. E.g. in						
	comparison with BES et al. we need a bit more than a						http://forgo.gridforum.org/of/wiki/do/orgotoDogo/projecto.pgi.vvg/wikiQ
	pasic filter mechanism being able to get information about specific jobs	Droft Spoo	Compute	no	Dropped		http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki?
		Draft Spec	Compute	no	Proposed	3/20/2010	pageName=ReqJM6.15&referrerPageName=RequirementsTable
	The execution service should offer separate(!) operations to guery Resource and Activity						http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki?
		Draft Spec	Compute	no	Proposed		pageName=RegJM6.16&referrerPageName=ReguirementsTable
	n order to apply the principle of 'Full Automation of	Dian Spec	Compute	no	Proposed	3/20/2010	pageriame-nequivo. Toxietettett ageriame-nequitettettettette
	Processing' inside the Activity State Model there						
	should be not a 'Hold' state for Activities	Etienne Urbah	Compute	no	Proposed	3/18/2010	http://forge.gridforum.org/sf/wiki/do/viewPage/projects.pgi-wg/wiki/ReqJM8
	n order to permit the Client to perform client-directed	Lucille Olbali	Compute	110	Fiohosea	3/10/2010	intp.//forge.gridiordiff.org/si/wiki/do/viewr-age/projects.pgi-wg/wiki/Requivio
	processing of submitted Activities (for example client-						
	lirected data staging), the Execution Service						
		Strawman					
		Doc	Compute	no	Proposed	3/18/2010	http://forge.gridforum.org/sf/wiki/do/viewPage/projects.pgi-wg/wiki/ReqJM9
76 ı	not supported. The Execution Service MUST be able to create	DOC	Compute	110	Порозса		http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki?

Deguirement to august a incoming/panding/guayad						
Requirement to support a incoming/pending/queued state (i.e. waiting to be executed), e.g. a sub-state of						
running, having submitted a job to a batch system like						
LoadLeveler, Torque, and such like pending means it						
was accepted, is scheduled, but not running yet (kind						http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki?
78 of waiting to be executed).	Morris	Compute	no	Proposed	3/19/2010	pageName=ReqJM9.2&referrerPageName=RequirementsTable
When the client wants to perform client initiated data-						
staging-in, the client MUST also specify in the Job						http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki?
79 Description via 'Hold' points that the Activity holds.	Draft Spec	Compute	no	Proposed	3/20/2010	pageName=ReqJM9.3&referrerPageName=RequirementsTable
The service MAY offer the hold and corresponding						
resume functionality of Activity processing. Change						
state operation to resume a hold execution and to put						http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki?
80 the Activity into 'Hold'.	Draft Spec	Compute	no	Proposed	3/20/2010	pageName=RegJM9.4&referrerPageName=RequirementsTable
On Activity submission, if the Execution Service fails		·		·		
to create the Activity for any reason, the Execution						http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki?
81 Service MUST return to the Client a descriptive error	General	Compute	yes	Proposed		pageName=RegJM10&referrerPageName=RequirementsTable
It is important that optional Job Description elements	Conorai	Compato	you	Поросоц	0/10/2010	pagortanio reagoni roaroionon agonamo reaganomento rabio
MUST NOT be ignored by the service and rather						
throw a corresponding fault in the case that the						http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki?
82 service does not support this optional client request.	CIN	Computo	no	Brongood		pageName=RegJM10.1&referrerPageName=RequirementsTable
The Execution Service MUST provide to the Client a	GIN	Compute	no	Proposed		http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki?
	0	0		D		
83 Web Service using SOAP	General	Compute	no	Proposed	3/18/2010	pageName=ReqJM11.1&referrerPageName=RequirementsTable
The Execution Service does not intend to cover						
service management capability (e.g. start/stop						http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki?
84 accepting new activities).	GIN	Compute	no	Proposed	3/19/2010	pageName=ReqJM12&referrerPageName=RequirementsTable
Activity recovery via 'changestatus' mechanism after						
Activity was failed., e.g. if an activity failed because of	f					
post-processing errors, it can be changed to be						http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki?
85 before data-staging	Balazs Konya	Compute	no	Proposed	3/19/2010	pageName=ReqJM13&referrerPageName=RequirementsTable
The Execution Service offers the possibility to						
'cancel/terminate/kill/destroy' an Activity. The cancel						
means that active data-staging processes SHOULD						
be cancelled and active executions in RMS MUST be	Strawman					http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki?
86 cancelled.	Doc	Compute	yes	Proposed		pageName=RegJM14&referrerPageName=RequirementsTable
Avoiding to have ghosts / zombie jobs, a job out of			J			pg
control of user possibly happened by an						
error/exception, those jobs that lost their owners: a						
mechanism of "automatic cleanup" is required. E.g.						
Lease mechanism triggers a 'automatic cleanup' in						http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki?
87 case the lease was not renewed	Luigi	Computo	no	Proposed		pageName=ReqJM15&referrerPageName=RequirementsTable
	Luigi	Compute	no	Proposed	3/ 18/2010	pagerianie-neguwi ioxieleneir agerianie-Regullenienis i able
Request routing capabilities (for example: preferred			unologa			http://forgo.gridforum.org/of/wiki/do/orgotoPaga/arciaeta.agi.vvg/wiki/2
shares, etc.) - prepare for TIME CONSUMING	CIN	Committee	unclear -	Drong		http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki?
88 DISCUSSIONS!	GIN	Compute	postponed	Proposed		pageName=ReqJM16&referrerPageName=RequirementsTable
Request Forwarding capabilities, prepare for TIME			unclear -			http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki?
89 CONSUMING DISCUSSIONS!	GIN	Compute	postponed	Proposed	3/19/2010	pageName=ReqJM17&referrerPageName=RequirementsTable
Execution Service SHOULD perform a certain to be						
agreed set of validations (potentially several steps).						
Not all of them are necessarily needed to be done as						
part of the activity creation. An incomplete validation						
maybe done at activity creation but a full validation						
should be completed later, e.g. support of scientists						
that perform manual data-stagings might need some						
very well validated jobs in order to not redo a lot of						http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki?
90 manual data-stagings	Draft Spec	Compute	no	Proposed		pageName=ReqJM18&referrerPageName=RequirementsTable
The full validation (including numerous steps) must			1			, <u> </u>
happen as part of the activity creation and not later. If						http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki?
91 validation fails a error has to be provided.	Draft Spec	Compute	no	Proposed		pageName=RegJM18.1&referrerPageName=ReguirementsTable
o . Tanadion fallo a orror had to be provided.	Dian Open	Jonnpale		порозоц	5,20,2010	page tame tropin to tarefore agentatio troquilements table

	The execution service can decide which level of						http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki?
	activity validation is appropriate	GIN	Compute	no	Proposed	3/20/2010	pageName=ReqJM18.2&referrerPageName=RequirementsTable
	The execution service should offer Time estimations						
	to completion of asynchronous operations such as						http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki?
93		Draft Spec	Compute	no	Proposed	3/20/2010	pageName=ReqJM19&referrerPageName=RequirementsTable
	Requirement to have a purge (maybe called wipe)						
	operation. Removing all presence (except logs &						
	usage records) of the activity (when it is not longer						
	active or once ffinished). This fcuntionality is only						
	allowed on any final state according to the PGI state model. The functionality is not supposed to kill						http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki?
	• • • • • • • • • • • • • • • • • • • •	Draft Spec	Compute	yes	Proposed		pageName=RegJM20&referrerPageName=RequirementsTable
94	Cleanup of BES - a number of compromises were	Diait Spec	Compute	yes	FTOposeu	3/20/2010	pageriame-ixequivizudi element ageriame-ixequirements rable
	made to satisfy parties, drop, improve, etc but not						
	breaking the general BES concept (more on		Non-				http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki?
	GridForge BES session)	NSF 08-571	functional	no	Rejected		pageName=RegJM21&referrerPageName=RequirementsTable
-	If an activity is migrated to another execution service		ranotional	11.0	i tojootou	0/20/2010	pagertame require randomen agentame requirements rable
	because of a failure or optimization, the original						
	execution service must be allowed to "forget" about						
	the activity, thereby passing responsibilty for the						http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki?
96	activity on to the second execution manager	NSF 08-571	Compute	no	Proposed	3/20/2010	pageName=ReqJM22&referrerPageName=RequirementsTable
	A user should be able to know the full routing of the						
	forwarding actions of Activities by services. JSDL			unclear			http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki?
97		NSF 08-571	Compute	(postponed)	Proposed		pageName=ReqJM23&referrerPageName=RequirementsTable
	The user should be able to contact the end of the						http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki?
	path (final) service.	NSF 08-571	Compute	no	Proposed	3/20/2010	pageName=ReqJM24&referrerPageName=RequirementsTable
	StartAccepting and StopAccepting activities might be						
	still required (for example: for Desktop Grids and						
	HTC). Preserve backwards compatibility from PGI	NOE 00 574			Related		http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki?
99	perspective.	NSF 08-571	Compute	no	(#84)	3/20/2010	pageName=ReqJM25&referrerPageName=RequirementsTable
	The Job Description document MUST reference all						http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki?
	grid entities in conformance to the GLUE specification	GIN	Compute	yes	Proposed		pageName=ReqJD3&referrerPageName=RequirementsTable
	The Job Description document specification MUST		·				, , , , , , , , , , , , , , , , , , , ,
	permit the Client to request automatic data stage-in						http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki?
101	and stage-out	GIN	Compute	yes	Proposed	3/18/2010	pageName=ReqJD4&referrerPageName=RequirementsTable
	The Job Description document specification MUST						·
	permit the Client to request the number of time the						
	Execution Service should perform local automatic						
	resubmission in case of Activity failure, e.g. failed						
	once but can be re-submitted locally to the batch						http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki?
	system	Etienne Urbah	Compute	yes	Proposed	3/18/2010	pageName=ReqJD5&referrerPageName=RequirementsTable
	The Job Description document specification MUST						
	permit the Client to request that at specified Activity						http://forgo.gridforum.org/of/wiki/do/orgot-Do-o-/grosi-ots-a-i
	states, the Execution service sets the Activity on 'Hold'	Droft Cass	Compute	no	Droposed		http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki?
	The Job Description SHOULD allow to specify n	Draft Spec	Compute	no	Proposed	3/10/2010	pageName=ReqJD6&referrerPageName=RequirementsTable
	different alternative(!) data sources of any single input						
	data.(semantics: data may be fetched from some of						http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki?
	· ·	Draft Spec	Compute	no	Proposed		pageName=RegJD7&referrerPageName=RequirementsTable
	Job Description supports, 1) service-directed data-	Zian opoo	Jonipulo	.10	. торозоц	3, 13,2010	page tame troquer are ordered agentame requirements rable
	staging (i.e. specify data-stagings),2) client-initiated						
	data-staging (i.e. specify data-staging but service will						
	do nothing only control whether files existing), 3)						
	manual data-staging (i.e. no specification of data-						http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki?
		Draft Spec	Compute		Proposed		pageName=ReqJD8&referrerPageName=RequirementsTable

	The Job Description SHOULD allow to specify n						
	different data targets of any single output data. Later			unclear (after			http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki?
106	to be decided how the targets will be handled.	Draft Spec	Compute	30 min)	Proposed		pageName=RegJD9&referrerPageName=ReguirementsTable
	Job Description should be only used for Job						μg
	Description not for any kind of feedback. Job status						
	information should not be communicated with a						http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki?
	'changed JSDL'	Draft Spec	Compute	yes	Proposed		pageName=ReqJD11&referrerPageName=RequirementsTable
	Job Description comes with support for requesting		- Company	,,,,,		57.15.25.15	
	multi-processor Activities (for example: threads/node,						
	network topology, task/core mappings, multi-	Strawman					http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki?
	threading and such like).		Compute	ves	Proposed		pageName=ReqJD13&referrerPageName=RequirementsTable
	Job Description document should be with simple	ranotionality	Compate	, , ,	Поросоц	0, 10,2010	pagertaine requestouren agertaine requirementerasie
	structure, which avoids unnecessary overlaps (e.g.						http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki?
	memory in different places defined)	GIN	Compute	no	Proposed		pageName=RegJD14&referrerPageName=ReguirementsTable
100	Job Description document supports simple ranges	Oliv	Compute	110	Порозса	0/10/2010	pagervanic - requirement agervanic - requirements rable
	only in the case of necessary elements, e.g. simpler						http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki?
	than currently defined in JSDL	Draft Spec	Compute	no	Proposed		pageName=RegJD15&referrerPageName=ReguirementsTable
110	Job Description document should offer grouped data-	Diait Opec	Compute	110	Порозец		http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki?
111	stagings for a better clean structure	Draft Spec	Compute	no	Proposed		pageName=RegJD16&referrerPageName=RequirementsTable
	Job Description document should offer a clear	Diait Spec	Compute	110	FToposeu	3/20/2010	pagervanie-rregod rodreienen agervanie-rreguirenients rabie
	seperation between resource requirements and						
	application requirements (for example: suggest to put						
	memory information into resource), e.g. improving the						http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki?
	JSDL specification in this context (if necessary)	Draft Spec	Compute	no	Proposed		pageName=RegJD17&referrerPageName=RequirementsTable
112	Job Description document should offer a new re-	Diait Spec	Compute	110	rioposeu	3/20/2010	pagervanie-rrequir 7 dielenen agervanie-rrequirements rable
	usable structure to describe an executable composed			unclear (after			http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki?
113	as path and argument	Draft Spec	Compute	10 min)	Proposed		pageName=RegJD18&referrerPageName=RequirementsTable
110	Job Description document should offer a new re-	Diait Opec	Compute	10 111111)	Порозец	3/20/2010	pagervanic-requirement agervanic-requirements rable
	usable structure to describe a software requirement,						
	to express relations (OR, AND, GREATER,						
	SMALLER,) of software requests and other						http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki?
	requests.	Draft Spec	Compute	ves	Proposed		pageName=RegJD19&referrerPageName=RequirementsTable
117	Job Description document should offer a new re-	Dian Opec	Compute	yes	Порозса	3/20/2010	pagervanic-requirement agervanic-requirements rable
	usable structure to define 'scalabletime' requests						
	optionally depending on benchmark results.						
	scalabletime composed of time request,						
	benchmarkname, benchmarkvalue, e.g. The JSDL						
	document should offer a newly structure where			unclear (after			http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki?
115	scaled time required	Draft Spec	Compute	10 min)	Proposed		pageName=RegJD20&referrerPageName=ReguirementsTable
110	Clearly separate file and directory in the data-	Dian Opec	Compute	10 111111)	Порозса	3/20/2010	pagervanic-requirement agervanic-requirements rable
	stagings., e.g. within the job description there the						
	element are clearly labelled as file or directory , e.g.						
	different aspect of handling directory or a file, you can						http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki?
	not differentiate	Draft Spec	Compute	ves	Proposed		pageName=RegJD22&referrerPageName=ReguirementsTable
110	New structure to describe the context in which the	Dian Opco	Compate	y 0.0	Торозса	3/20/2010	pagertame requirement agertame-requirements rable
	Job Description was generated (i.e. meta)., e.g. meta						http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki?
	of how job was generated	Draft Spec	Compute	no	Proposed		pageName=RegJD23&referrerPageName=ReguirementsTable
/	Improvement of JSDL specifications in terms of: 'OR'	Dian Opco	Jonipulo	.10	. Toposou		http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki?
118	and 'NEGATION', currently there is only 'AND'.	NSF 08-571	Compute	ves	Proposed		pageName=RegJD24&referrerPageName=ReguirementsTable
113	and the street, carrottely there to only fire.		30pato	, 55	. 100000	3,20,2010	Page 1 to 10 1 to 10 10 10 10 10 10 10 10 10 10 10 10 10
	The Execution service MUST support a common						http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki?
	state model	General	Compute	yes	Proposed		pageName=RegSM1&referrerPageName=RequirementsTable
	The Execution service MUST expose one or several			-	· ·		<u> </u>
	state where the Activity is finished (with success,						http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki?
	error, cancellation, failure,)	Etienne Urbah	Compute	yes	Proposed		pageName=ReqSM2&referrerPageName=RequirementsTable
	,,			1.2 -			

	The Execution service MUST NOT separate 'Payload						
	Success' (= 'Application Success') and 'Payload						
	Error', which are both detected by the Payload itself,						http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki?
121	and where Payload and Activity logs are complete	Etienne Urbah	Compute	unclear	Proposed	3/18/2010	pageName=ReqSM3&referrerPageName=RequirementsTable
	The State Model for simple Activities MUST have a						
	single state grouping 'Payload Success' and for						http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki?
122	Payload Error'	Etienne Urbah	Compute	unclear	Proposed	3/18/2010	pageName=RegSM3.1&referrerPageName=RequirementsTable
	The Execution service MUST clearly separate the 2						
	following concepts:						
	'Payload Error', which is detected by the Payload						
	itself, and should be investigated by Application						
	specialists first						
	'Activity Abortion', which is caused / managed by the						
	Execution Service, and require grid skills to be						
	investigated 0 'Payload Error', which is detected by						
	the Payload itself, and should be investigated by						http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki?
123	Application specialists first	Etienne Urbah	Compute	unclear	Proposed	3/18/2010	pageName=ReqSM4&referrerPageName=RequirementsTable
	The State Model for simple Activities MUST have						
	separate states for 'Payload Termination' and for						http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki?
124	'Activity Abortion'	Etienne Urbah	Compute	unclear	Proposed	3/18/2010	pageName=ReqSM4.1&referrerPageName=RequirementsTable
	Inside 'Activity Abortion', the Execution service MUST						
	clearly separate the 2 following concepts: 'Activity						
	Failure', which happens suddenly, is detected by the						
	Execution Service itself, and where Activity logs can						
	be partial or missing 'Activity Cancellation', which is						
	triggered by the Client, cleanly processed by the Execution Service, and where Activity logs are						http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki?
125	complete	Etienne Urbah	Computo	unclear	Proposed	2/19/2010	pageName=RegSM4.2&referrerPageName=RequirementsTable
123	On Activity failure, the Execution service MAY, as	Ellerine Orban	Compute	uncieai	Floposeu	3/10/2010	pagerianie-Regovi4.2&referrerragerianie-Regulienients rable
	many times as specified in the well-defined Job						
	Description document, perform an automatic						
	resubmission of the Activity by setting the Activity						http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki?
126	state to 'Submitted'	General	Compute	unclear	Proposed		pageName=RegSM5&referrerPageName=RequirementsTable
	Requirement to have a 'Purged' state, while purge	00110101	- Compans	a.ro.oa.	. reposed		pagertame responses element agentame response to a section and
	refers to cleanup the whole existence of an activity -						
	accounting and activity log must be still present and						
	persisent, After an Activity has been purged, the						http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki?
	Execution Service SHOULD NOT keep any						pageName=RegSM6.4&referrerPageName=RequirementsTable; http://forge.
	information on this Activity, and SHOULD answer to						gridforum.org/sf/wiki/do/viewPage/projects.pgi-wg/wiki/ReqSM6.2; http://forge.
127	any request on this Activity with an error message	General	Compute	No	Proposed	3/18/2010	gridforum.org/sf/wiki/do/viewPage/projects.pgi-wg/wiki/ReqSM6.3
	The Execution service MUST clearly separate the 2						
	following high level Activity states : 'Activity						
	Submitted', where the Activity is (at least partially)						
	validated, but storage / computing resources have						
	perhaps NOT been allocated to the Activity ye -						
	'Activity Processing', where the Activity has already						
	been fully validated, and storage / computing						
	resources are being allocated or have already been					0/40/07:-	http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki?
128	allocated	Etienne Urbah	Compute	Unclear	Proposed		pageName=ReqSM7&referrerPageName=RequirementsTable
400	Following Activity states MUST permit 'Hold' in 'Pre-	0		N.	D		http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki?
129	processing', other active states, 'Post-processing'	General	Compute	No	Proposed		pageName=ReqSM9.1&referrerPageName=RequirementsTable
400	For each state permitting 'Hold', the 'Hold' state	C = = = =	0	Nia	D		http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki?
130	MUST be implemented as a substate	General	Compute	No	Proposed	3/18/2010	pageName=ReqSM9.3&referrerPageName=RequirementsTable

	The Execution service MUST perform the transition between Activity states requested by the Client ONLY if it makes sense. Otherwise, the Execution service MUST return an error to the Client.	General	Compute	Yes	Proposed		http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki?pageName=ReqSM10.1&referrerPageName=RequirementsTable
132	By default, the Activity should not end up in a 'Hold' state.	General	Compute	No	Proposed		http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki? pageName=ReqSM11&referrerPageName=RequirementsTable
	State model should enable the monitoring of the data- staging process (i.e. more feedback to the end-user						http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki?
	via substates or similiar methods)	GIN	Compute	Unclear	Proposed	3/19/2010	pageName=ReqSM12&referrerPageName=RequirementsTable
	The execution service should have an hierarchical state model, Hierarchical state model consists of 1-st level, 2nd-level, 3rd-level,states. Lower level states always sub-states of their parent-state.	Strawman Functionality	Compute	No	Proposed	3/20/2010	http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki? pageName=ReqSM13&referrerPageName=RequirementsTable http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki?
135	First two levels are mandatory or a reasonable level.	Draft Spec	Compute	No	Proposed		pageName=ReqSM13.1&referrerPageName=RequirementsTable
	The Execution Service MUST have an 'Output Data Retrieval' functionality	General	Compute	No	Proposed		http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki?pageName=ReqDM3&referrerPageName=RequirementsTable
137	If the Execution Service manages 'Hold' points for Activities, it SHOULD be able to detect which computing resources (GLUE ExecutionEnvironments) run several Activities per core, and which run at most 1 Activity per core	Etienne Urbah	Compute	Unclear	Proposed		http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki?pageName=ReqDM5.1&referrerPageName=RequirementsTable
	If the Execution Service has detected that the computing resource runs several Activities per core, then the Execution Service MAY set running Activities to a 'Hold' State (waiting for Client action) without under-utilizing available cores	Etienne Urbah	Compute	Unclear	Proposed		http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki? pageName=ReqDM5.2&referrerPageName=RequirementsTable
	If the Execution Service has detected that the computing resource runs at most 1 Activity per core, then the Execution service SHOULD prevent running Activities to go to a 'Hold' State (waiting for Client action), in order to prevent under-utilizing available cores	Etienne Urbah		Unclear	Proposed		http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki?pageName=ReqDM5.3&referrerPageName=RequirementsTable
	If the Execution Service is NOT able to detect if the computing resource runs several Activities per core or only 1, then the Execution service SHOULD prevent running Activities to go to a 'Hold' State (waiting for Client action), in order to prevent underutilizing available cores	Etienne Urbah		Unclear	Proposed		http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki?pageName=ReqDM5.4&referrerPageName=RequirementsTable
	Any client should be able to interact with the 'session directory' of any Activity created by the Execution	0111					http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki?
	Service The Execution Service MUST support client-directed data storing in and out by expecting the leastings of	GIN	Compute	Unclear	Proposed		pageName=ReqDM7&referrerPageName=RequirementsTable
142	,, , , , , , , , , , , , , , , , , , , ,	GIN	Compute	Unclear	Proposed		http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki?pageName=ReqDM8&referrerPageName=RequirementsTable
143	Data Staging MUST support the following protocols (not defined in the document, added by Grimshaw to start discussion): HTTP(S), scp, gridftp, mailto, RNS/ByteIO	GIN	Compute	No	Proposed		http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki?pageName=ReqDM9&referrerPageName=RequirementsTable
	Minimize the amount of calls required to interact with Execution Service (for example: in one WS: vector operations, service exposes the location where the client can stage any input data, service exposes the location where the client can fetch any output data.)	GIN	Compute	Yes	Proposed		http://forge.gridforum.org/sf/wiki/do/createPage/projects.pgi-wg/wiki?pageName=ReqDM10&referrerPageName=RequirementsTable

	Specifications MUST reuse as many existing					
145	standards as possible	General	NF	Yes	Proposed	3/17/2010 http://forge.gridforum.org/sf/wiki/do/viewPage/projects.pgi-wg/wiki/ReqNF2
	Software components (Services and Clients) MUST					
146	ease traceability of the original author of a request	Etienne Urbah	NF	Unclear	Proposed	3/17/2010 http://forge.gridforum.org/sf/wiki/do/viewPage/projects.pgi-wg/wiki/ReqNF3
	Software components (Services and Clients) MUST					
147	generate adequate logs	General	NF	Yes	Proposed	3/17/2010 http://forge.gridforum.org/sf/wiki/do/viewPage/projects.pgi-wg/wiki/ReqNF4
	Software components (Services and Clients) MUST				,	
	generate and propagate meaningful error messages,					
	including context description	General	NF	Yes	Proposed	3/17/2010 http://forge.gridforum.org/sf/wiki/do/viewPage/projects.pgj-wg/wiki/ReqNF5
	Specifications SHOULD prevent the occurrence of			1,00		
149	SPOFs and bottlenecks	General	NF	Yes	Proposed	3/17/2010 http://forge.gridforum.org/sf/wiki/do/viewPage/projects.pgi-wg/wiki/ReqNF7
	Clean specifications and interface definitions, don't	Corrora		100	Поросоц	o, , , , zo to map and of the map an
150	keep obsolete and never used elements	Balazs Konya	NF	Yes	Proposed	3/19/2010 http://forge.gridforum.org/sf/wiki/do/viewPage/projects.pgj-wg/wiki/RegNF8
100	The specification should be as much self-contained	Balazo Ronya		100	Тторосса	5, 15,2515 mtp.i/161go.grialorum.org/or/with/acs/viowi ago/projecte.pg/ wg/with/teqrities
151	as possible, limit external dependencies	Balazs Konya	NE	No	Proposed	3/19/2010 http://forge.gridforum.org/sf/wiki/do/viewPage/projects.pgi-wg/wiki/ReqNF9
101	Evolutionary aspect of existing specifications	Dalazs Norrya	141	140	Тторозец	5/19/2010 http://lorge.ghdiorum.org/si/wiki/do/viewi age/projects.pgi-wg/wiki/teqrvi 9
	(marketing efforts, bad community reputation when					
150	OGF standards instable)	NSF 08-571	NF	Unclear	Proposed	3/20/2010 http://forge.gridforum.org/sf/wiki/do/viewPage/projects.pgi-wg/wiki/ReqNF10
102	Backwards compatibility (on-the-wire) not a precise	NOF 00-07 I	INF	Unclear	Proposed	3/20/20 TO TILLIP,//TOTGE.gridiorum.org/si/wiki/do/viewrage/projects.pgi-wg/wiki/Reqivr TO
	requirements, conceptual backward compatibility a					
	must - new portType - new compilation anyway but	NSF 08-571	NIE	Llanton	Duamanad	2/20/2010 http://forms.midforums.numlafi.vilidalvibusDomologicata.mii.vilidalvibusDomologicata
153	general concept should be kept.	NSF 08-57 I	NF	Unclear	Proposed	3/20/2010 http://forge.gridforum.org/sf/wiki/do/viewPage/projects.pgi-wg/wiki/ReqNF11
	Basic SW Engineering basic principles -					
	implementation encapsulation, seperation of policies,					
454	construction by composition, don't re-invent new	NOE 00 574		.,		0/00/0040   1/1   1/2   1
	mechanisms when some existing		NF	Yes	Proposed	3/20/2010 http://forge.gridforum.org/sf/wiki/do/viewPage/projects.pgi-wg/wiki/ReqNF12
155	Data is equally important as compute		NF	Unclear	Proposed	3/20/2010 http://forge.gridforum.org/sf/wiki/do/viewPage/projects.pgi-wg/wiki/ReqNF14
156	Need to support high availability and reliability	NSF 08-571	NF	Unclear	Proposed	3/20/2010 http://forge.gridforum.org/sf/wiki/do/viewPage/projects.pgi-wg/wiki/ReqNF15
	Single global namespace for resources of all kind					
	(storage devices, compute device), for example: a					
	path mechanism - 'address the same things					
	everywhere'. Definitely not XML namespaces - more					
	identification of resources. Closest analogy might be					
157	DNS.	-	NF	Unclear	Proposed	3/20/2010 http://forge.gridforum.org/sf/wiki/do/viewPage/projects.pgi-wg/wiki/ReqNF16
	Easier usage to get more users involved. How does it					
	effects PGI?! A general rule like global namespaces					
158	(for example: path)	NSF 08-571	NF	Unclear	Proposed	3/20/2010 http://forge.gridforum.org/sf/wiki/do/viewPage/projects.pgi-wg/wiki/ReqNF17
	Potential re-use of PGI portTypes by other services					
159	(for example: information portType)	GIN	NF	Unclear	Proposed	3/19/2010 http://forge.gridforum.org/sf/wiki/do/viewPage/projects.pgi-wg/wiki/ReqNF18
	Execution Service MUST NOT try to provide ALL grid					
	functionalities, but MUST have a well defined scope,					
	and MUST work together with other grid services :					
	Security, Accounting, Data (Storage, Movement,					
	Catalog,), perhaps Information, Logging and					
160	Bookkeeping	Andrew		Unclear	Re-proposed	4/28/2010 http://forge.gridforum.org/sf/wiki/do/viewPage/projects.pgi-wg/wiki/ReqNF13
	Whenever multiple protocols are possible, Services					
	SHOULD implement at least the 2 most used					
161	protocols	Etienne		No	Re-proposed	4/28/2010 http://forge.gridforum.org/sf/wiki/do/viewPage/projects.pgi-wg/wiki/ReqNF1.2
	Software components (Services and Clients) MUST					
	implement the Security Policies defined by the JSPG					
	(Joint Security Policy Group), in order to be resilient					
162		Etienne		No	Re-proposed	4/28/2010 http://forge.gridforum.org/sf/wiki/do/viewPage/projects.pgi-wg/wiki/ReqNF6
	Each Service MUST publish its properties (Name,					
	Type, Endpoints,) and the properties of its					
	Endpoints in conformance with GLUE					
163	recommendations	Etienne		Unclear	Re-proposed	4/28/2010 http://forge.gridforum.org/sf/wiki/do/viewPage/projects.pgi-wg/wiki/ReqIS2

164	For not yet finished Activities, the Information functionality MUST accept requests querying the Activity Status, and MUST return this Status with different levels of verbosity (basic, detailed, more detailed)	Etienne		Unclear	Re-proposed	4/28/2010	http://forge.gridforum.org/sf/wiki/do/viewPage/projects.pgi-wg/wiki/ReqIS8
	For already finished Activities, the Information functionality SHOULD accept requests querying the Activity Status, but MAY return an error	Etienne		Unclear	Re-proposed	4/28/2010	http://forge.gridforum.org/sf/wiki/do/viewPage/projects.pgi-wg/wiki/RegIS9
	For requests querying Activity Status, the Information	Etienne		Unclear	Re-proposed		http://forge.gridforum.org/sf/wiki/do/viewPage/projects.pgi-wg/wiki/ReqIS13
	In order to permit efficient Accounting, a grid infrastructure MUST provide an Accounting functionality (without real time requirements) which consolidates Accounting records at the grid level from various systems, securely keeps Accounting records even after Activities have finished, implements complex accounting queries, and supports the corresponding CPU load			No	Proposed		http://forge.gridforum.org/sf/wiki/do/viewPage/projects.pgi-wg/wiki/ReqAc0
	After creation of the Activity, the Endpoint used by the				Поросоц	1,20,2010	This is a second of the second
168	Client to manage the Activity MAY vary	Etienne		No	Re-proposed	4/28/2010	http://forge.gridforum.org/sf/wiki/do/viewPage/projects.pgi-wg/wiki/ReqJM4.6
	The Execution Service MAY provide its functionalities to Clients through various protocols (RPC, Corba, ActiveMQ,), but MUST provide them to Clients through a Web Service	Etienne		yes	Re-proposed	4/28/2010	http://forge.gridforum.org/sf/wiki/do/viewPage/projects.pgi-wg/wiki/ReqJM11
	In order to permit the Client to perform direct manual processing inside submitted Activities (for example manual data staging), the State Model MUST contain • one State permitting manual processing before Payload execution • one State dedicated for Payload execution • one State permitting manual processing after						
	Payload execution One of the storage resources allocated to the Activity	Etienne		Unclear	Re-proposed	4/28/2010	http://forge.gridforum.org/sf/wiki/do/viewPage/projects.pgi-wg/wiki/ReqSM8
	MUST be following a concept we refer to as 'Session Directory'; including its precise definition	Etienne		Yes	Re-proposed	4/28/2010	http://forge.gridforum.org/sf/wiki/do/viewPage/projects.pgi-wg/wiki/ReqDM6.1
	PROCESS THOUGHTS						
	OUTCOME: 53 YES, 30~ Unclear, 80~ NOs,	Team 1	Team 2		Reserve		
	~ 80 nos (maybe 20 miniutey why no + 3alternative	Morris	Shahbaz	UNICORE	Shiraz		
	[1 Step] ~ 30 unclear (maybe 10 minutes) - min. 3 PGI TelCons - One team only - but all "new personal" should ioin	Balazs	Aleksander	ARC	Oxana		
	[2 Step?] Prioritization on nos (~ 50 %), how prioritization process is (extraordinary many of						
	these) [2 Step?] Splitting in groups doing it in parallel - potential challenges: (a) personal interpretation along with it and "inside" the requirements - objective requirements might be here a positive sign - (b) lack of expertise potentially that have the background of OGF in general and the relevant groups in particular - start with 2 parallel groups? - e.g. gLite currently can provide one expert for this	Luigi	Massimo???  Etienne(?) - potentially others in	gLite  EDGES/EDGI	Paolo		

[not 2 Step?] Investigator approach providing the								
reason why no - E.g. single person - the majority		Steve						
think this makes no sense	Emanouil	Brewer???	Globus	??				
		Tim						
	Steve Crouch	Parkinson	OMII-UK	David				
				Andrew,				
	Mark	Duane	GENESIS	John				
	Kazu	???	NAREGI	???				