



DataGRID

2003 PLANNING FOR WP2

MAY - DEC 2003

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KDC

Lead Partner: CERN

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Abstract: Planning of the work for WP2 in the last three quarters.



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Document Change Record

Issue	Date	Comment	Author
1_0	05/05/03	First draft.	Peter Kunszt
1_1	06/05/03	Additional items and revised dates	Leanne Guy
1_2	07/05/03	Additional items	Heinz Stockinger
1_3	08/05/03	Additional items	Kurt Stockinger
1_4	22/05/03	Added security items	Joni Hahkala
1_5	04/06/03	Added fine grained authz.	kos Frohner

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1. REPLICA MANAGEMENT

1.1. PRIORITY 1

All priority 1 items are due 'ASAP'. The planned target dates for completion are nevertheless listed.

P1.1	WP2: Secure Services	Each service needs to be tested in secure mode. This involves • Write the Secure Service Installation Guide • Test the Guide by installing each service accordingly • Test the clients in secure mode • Update the installation / user guides if necessary	William Bell Joni Hahkala Giuseppe Andronico	May 16
P1.2	WP2: Functional Tests	Each service needs a package that can be run on a client to see whether all functionalities are available and run correctly. This test needs to be verbose, and provide a 'cleanup' as well so that it leaves no trace of itself after being run, or having failed. See section 2.3. for more details.	Kurt Stockinger Leanne Guy Peter Kunszt William Bell Giuseppe Andronico Sophie Lemaitre Diana Bosio James Casey Heinz Stockinger Ithzak Ben-Akiya	May 30
P1.3	WP2: Test the RLI	This involves • Bloom Filter Tuning • Deployment, setup	James Casey Levi Lucio	End June



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P1.4	WP2: Multi- ple VO sup- port	Supporting many VOs per service, installation instructions and tests	Gavin McCance Leanne Guy	June 15
P2.1	WP2: Migration Tool	Design and write the migration tool from RC to LRC. • Design the migration tool • Tool for export • Tool for import • Test and documentation	Leanne Guy Heinz Stockinger	June 15
P2.2	WP5: Migration Tool	Design, write the migration tool for the SE • Design and implement the migration tool • Test and documentation	Regina Tam Jens Jensen	June 15

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1.2. PRIORITY 2

The P2 items are still higher priority than 'normal'.

P2.3	WP2: RLS/RMC Proxy and Client	 This involves Write down the design, go through ATF Implement the proxy server Implement the clients and update the replica manager 	James Casey Peter Kunszt Gavin McCance Leanne Guy	July 22
P2.4	WP5: GACLs	Integrate Access Control in the SE core • Plan and spec • Implementation	Andrew W Tara Jens	July 18
P2.5	WP5: Asynchronous Operations	Make the create, cache calls behave asynchronously • Plan and spec (done) • Queueing • Implementation • Unit Tests	Jens Jensen Owen Synge	August 8
P2.6	WP5: SRM v1	Provide SRM v1 interface. The proper implementation will need to use the asynchronous operations, so an adaptation is needed after Async ops are done.	Glen Johnsson Jens Jensen	July 4/Aug 15



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P2.7	WP5: SRM extensions	Provide extensions (subset of SRM v2 interface) • Delete and exists calls, error handling • Plan and spec • Implementation • Unit Tests	Glen Johnsson Regina Tam Jens Jensen	July 11
P2.8	WP5: Setup/Configu	Provide setup and configuration en- ration ements • non-LCFG installation mechanisms • reorganization of current mechanisms • Scripting	Owen Synge	End June
P2.9	WP2: Architecture document for release 2.0 functionality	The architecture of release 2.0 is significantly different from previous versions. We have a lot of disparate documents describing various parts of the architecture but no clear overview. Include sequence diagrams and deployment concerns.	Leanne Guy All	End June



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P2.10	WP2: Scal-	Design and write the tests that are	Kurt Stockinger	Continuous
	ability and	to be carried out for scalability and	Leanne Guy	
	Performance	performance. Same pool of people	Peter Kunszt	
	Tests	as functionality tests. See section	William Bell	
		??.	Giuseppe Andronico	
		0 11774 4 1 1	Sophie Lemaitre	
		Scalability tests: design	Diana Bosio	
		 Implementation 	James Casey	
			Heinz Stockinger	
		 Documentation 	Ithzak Ben-Akiva	
P2.11	WP2: Mini	Operating the mini-testbed is	Levi Lucio	Continuous
	Testbed Op-	higher-than normal priority.	James Casey	
	erations	• Upgrades	Giuseppe Andronico	
		• Tests		
		Website		
		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
P2.12	WP2: Docu-	Documentation on all release 2.0	Many people	Continuous
	mentation	components.		
P2.13	WP5: Docu-	Documentation on all release 2.0	Many people	Continuous
	mentation	components.		



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1.3. PRIORITY 3 FOR WP2

These are the 'normal' priority items.



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D2 1	DICCIII	DIG G 1: 1 II I I C	T G 1 .	T 20
P3.1	RLS GUI	RLS Graphical User Interface, to the EDG implementation	Livio Salconi James Casey	June 28
		-	James Casey	
		• Integrate the changes in the existing GUI		
		Test and documentation		
P3.2	Security for	Integrate the GSI security for the	Mika Silander	End May
	C++ Clients	C++ clients and test it.	Joni Hahkala	
		• Design, implement the changes in gsoap	Gavin McCance Marko Niinimäki	
		Integrate in the existing modules		
		Test and documentation		
P3.3	Replica Sub-	The RSS is the GDMP equivalent.	Gavin McCance	R2.1
	scription Ser- vice	• Design (done)	Ithzak Ben-Akiva	
	vice			
		Implement		
		Test and documentation		
P3.4	Replica Manager Proxy Service	The RM proxy and new RM client need to be designed based on the delegation model (to be implemented) and the current functionality. See section 2.1	UNASSIGNED	R2.1. The design should be done by mid June
		• Design		
		Implement		
		Test and documentation		
P3.5	Validation tests	Tests to validate the installation of services and clients. The validation tests should be runnable by anyone	Kurt Stockinger Leanne Guy Peter Kunszt	Continuous
		(usually the sysadmin who installed	William Bell	
		the components). See section 2.2.	Giuseppe Andronico	
		Implement	Sophie Lemaitre Diana Bosio	
		Test and documentation	James Casey	
		- 10st and documentation	Heinz Stockinger	
P2.14	WP2: Optor-	Testing of new scheduling and	Ithzak Ben-Akiva David G. Cameron	Continuous
	Sim	replica optimisation algorithms.	Ruben Carvajal-	
			Schiaffino	
			A. Paul Millar Caitriana Nicholson	
			Kurt Stockinger	
			Floriano Zini	



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P3.6	External Dependencies	Currently most external jars are being held in edg-java-tools. To update the dependencies is tedious and error-prone work, the jars can get easily out-of-date. This should be automated. See section 2.6 • Implement • Test and documentation	UNASSIGNED	June 13
P3.7	Install Target	Deploy the install ant target so that the jars get installed on Marianne's buildbox in \$EDG_LOCATION/share/java. See section 2.7 • Implement • Test and documentation	Ákos Frohner +1	May 30
P3.8	Tagging procedure automation	Write scripts to automate the tagging procedure. This can be very helpful when tagging all the software at once or just to avoid errors in tagging. See section 2.8	UNASSIGNED	End July
P3.9	Un-configure script	There is a configure script but no un-configure script if a service needs to be removed. See section 2.9	UNASSIGNED	End July
P3.10	Deployment Tests	Deploying the RPM, configuring the service and running the functional tests. See section 2.10	UNASSIGNED	End August
P3.11	Confined Collections	Collections of GUIDs that are kept in the LRC and are replicated as one. See section 2.5 • Design • Implement • Test and documentation	UNASSIGNED	End July
P3.12	VOMS Integration	VOMS needs to be integrated into the secure services.	Olle Mulmo	R2.1?
P3.13	CVS Server	Run the CVS server.	Paul Millar	Continuous
P3.14	Build Box	Run the Build Box.	Levi Lucio	Continuous
P3.15	ITeam Rep	ITeam representative. Provides feedback to/from ITeam, is up-to-date on service status.	Paul Millar	Continuous



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P3.16	ATF Rep	Architecture Task Force represen-	Leanne Guy	Continuous
13.10	ин кер	tative. Provides feedback to/from	Leanic Gay	Continuous
		ATF, produces control-flow dia-		
		* *		
		grams for all services, organizes 'brainstorm' sessions on hot items.		
D2 17	0 4 D 0		D: D :	C +:
P3.17	QA Rep &	Represent WP2 in the QA group	Diana Bosio	Continuous
	Enforcement	and check whether the QA require-	+?	
		ments are actually fulfilled by the		
		WP2 modules.		
P3.18	Bugzilla Ros-	Accept and assign bugs.	Leanne Guy	Continuous
	ter		Coordination of	
			weekly rotation for	
			all.	
P3.19	Website	Maintain website such that the in-	Peter Kunszt(main)	Continuous
	Maintenance	formation is up-to-date, new in-	Joni Hahkala (sec)	
		formation is available. Each task	Marko Niinimäki	
		manager is responsible for the sub-	(spitfire)	
		contents of all task sites, everyone	Kurt Stockinger	
		has write-access to the website. So	(optimization)	
		the names are just the responsibles,	Leanne Guy (ATF &	
		but everyone should feel free to up-	RLS & Bugzilla)	
		date the site for the best.	Levi Lucio (bob)	
			Heinz Stockinger	
			(replication)	
P3.20	LCFG	Coordination of LCFG testing and	Leanne Guy	Continuous
		deployment. Note that writing the	Paul Millar(?)	
		LCFG objects id the responsibility		
		of all.		
P3.21	SE Access	Integrate SE estimator of WP5 and	Kurt Stockinger	continuous
	Estimation	Cross Grid in Replica Optimization		
	for ROS	Service.		



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1.4. PRIORITY 3 FOR WP5

These are the 'normal' priority items.

P3.22	VOMS inte-	SE webservice needs upgrades to	Glen Johnsson	July 22
	gration	integrate VOMS implementationIntegrate the changes in the existing GUI	Akos Frohner	
		Test and documentation		
P3.23	Disk Cache Management	 SE core development, involving Needs to be fully spec'd out Allow for pinning files in the cache Cleanup on pin expiration Depends on async ops Test and documentation 	Jens Jensen Owen Synge	Mid August
P3.24	Log Manage- ment	Clean out and simplify logging	Tara Regina	June 28
P3.25	Interaction with WP9/WP10	help WP9/10 to get the SE on their MSS	Andrew Regina	End July



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1.5. PRIORITY 4

Not essential, but useful.

P4.1	Statistics on	Add statistics information to build	Paul's students?	June 27
	Build Box	page (total code size, total classes).		
P4.2	Script to find	The scripts already exist (Joni wrote	Joni Hahkala?	May 30
	out EDG	them) and what remains to be done		
	Variables	is to install them and make all the		
		packages which need the variables		
		resolved refer to them.		
P4.3	Logical Col-	Collections on LFNs in the RMC.	UNASSIGNED	R2.1?
	lections in	This is depending on further input		
	RMC	from the ATF, HEPCAL and LCG,		
		hence the low priority. Might never		
		happen.		
P4.4	Publications	Present data management software	Heinz Stockinger,	Continous
	at Inter-	and activities in international confer-	all	
	national	ences, journals etc. in order to make		
	Conferences,	the activities of EDG public and par-		
	Journals etc.	ticipate to the international Grid com-		
		munity.		
P4.5	Access His-	Provide access history for optimiza-	Kurt Stockinger	continuous
	tory for	tion algorithms.		
	ROS			
P4.6	Optimization	Support additional replica optimiza-	avid G. Cameron	continuous
	Algorithms	tion algorithms already tested in Op-	Ruben Carvajal-	
	for ROS	torSim.	Schiaffino	
			A. Paul Millar	
			Caitriana Nicholson	
			Kurt Stockinger	
			Floriano Zini	



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1.6. PRIORITY 5

Items listed here as priority 5 are items we have considered but have currently not received any request to implement from the EDG applications. Currently no dates are assigned. Unless we receive any feedback on these items they will not be implemented before the end of EDG

P5.0	Consistency	Consistency service as indicated in	Heinz	Stockinger,	no deadline
	Service	Reptor design papers as well as in	Kurt	Stockinger,	
		various conference papers. A consis-	possibly	others	
		tency service takes care of updates in			
		replicas: either simple versioning or			
		real updates. Note that this activity is			
		mainly a research activity to provide			
		a first prototype for possible follow			
		up projects. There is not aim to turn			
		this into a production service within			
		the lifetime of EDG.			



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1.7. ITEM HISTORY

Items here have already been completed and are listed to keep them in the document for tracking purposes.

-	WP2: LCR/RMC Native At- tributes	Currently the LRC only takes attributes of type string. The functionality needs to be extended in order to provide attributes with types of integer, float and date as well. • Design • Implementation • Testing and Documentation	Sophie Lemaitre	May 30
-	WP2: SRM Castor Inte- gration	Integrate the Castor SRM into the replica manager. • Implementation • Testing	Peter Kunszt Emil Knezo	May 16
-	WP2: Write the RLI	 This involves Bloom Filters (write) Sending updates from LRC Receiving updates at RLI, storing filters Admin methods at LRC to add/remove RLIs to send filters to 	James Casey Levi Lucio	End May



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2. TASK DETAILS

2.1. REPLICA MANAGER PROXY SERVICE AND NEW CLIENT

Based on the delegation model, the RM proxy service needs to serve all requests that are 'remote', i.e. it needs to enable the local WN to be shielded from external connectivity, acting through the RM proxy only.

The design should be driven by KISS and performance requirements. All of the calls that can be handled using local services should be kept in the existing client (like interactions with the LRC).

Additional functionalities to consider:

- Buffering of Info-provider queries (for speed, RGMA may be slow..)
- Fail-safe write operation to RMC: Buffer write requests if the RMC is not reachable, returning a 'queued' status. The job may continue and the RM-proxy queues the write requests to the RMC and executes them once the RMC is up again. If the operation times out / fails, a message should be sent to a valid email address.
- Book-keeping of ongoing replications to local SRM. This is a pre-requisite to be able to implement the non-blocking 'prefetch' capability of getBestFile.

2.2. VALIDATION TESTS

Installation validation of the services, clients and modules can be achieved by a set of scripts that perform:

- Check all dependencies, installed components
- Check configuration of service
- Check accessability and configuration of database
- Check whether the system is responding, up and running
- Check version
- Check security

2.3. FUNCTIONAL TESTS

Functional tests are client-side tests of the services (RLS, RMC, ROS) and test-suites for the replica manager. The functional tests should be runnable by anyone with enough privileges, usually the sysadmin who has installed the package.

A complete functional test suite has the following characteristics:

- Func-tests come with a separate RPM to be installed on a client (for services) or where the given module is available (ERM).
- The test services are configurable through a configuration file (i.e. location of the service endpoint, names of the test files, etc)
- The test package comes with a detailed documentation describing each test and indications for detecting failures/success.



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- There is one command that runs all tests.
- The output to stdout is like junit's (one dot per success). The logfile should contain very verbose messages.
- All commands are called in a mode where they are expected to succeed.
- All commands are called erroneously where they are expected to return the correct error message.
- If the tests fail, the service(s) might be in a state where temporary test data is stored (like registered test-files). There is a mechanism to clean this temporary data. This cleanup is called also when the test is restarted.

2.4. SCALABILITY AND PERFORMANCE TESTS

Scalability and performance tests are supposed to give numbers on the limits of the system. There are documents that can be taken as starting point what to test for, like the CMS requirements for replica catalogs written by Koen Holtman a year ago.

The following needs to be tested, i.e. limits need to be given:

- Behaviour of the server while having many concurrent requests for different operations.
- Timed numbers for all operations, depending on server load and on amount of data in the database.

[Please think of more..]

2.5. CONFINED COLLECTIONS

Confined collections are sets of GUIDs. Each confined collection gets a GUID of its own, hence it's possible to have sub-collections. They are implemented on the LRC, since each member of a confined collection has to be available at a given site.

The following operations need to be present in the collection API of the LRC:

newCollection Create a new collection, returns the GUID. There has to be an array of GUIDs passed in to define the initial set, an empty collection cannot exist on the LRC.

addMember Add one (or many) members to the collection. Members are always given as GUIDs. The difference in semantics to newCollection is only that this method checks whether the collection is already there and whether the members are not already set (in which case they are ignored, no error is thrown).

deleteMember Delete one (or many) members from a collection.

listMembers Returns all GUIDs that are member of the give collection.

isMemberOf Returns all collection GUIDs that a given GUID is member of. This does not recurse, i.e. if a collection is a subcollection of another collection, its members are not found to be members of the higher-level collection.

isMember Returns true or false, checking whether a given (set of) GUID(s) is actually member of a given collection.

deleteCollection Remove the collection.



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The proposed first-order design for the tables necessary to store collections is simple: Just add a single table having the columns Collection_GUID and Member_GUID. All of the above methods can be implemented as simple select and insert statements in this table.

Another possibility to look at (similarly to the design by AliEn) is to store the collections in several tables, grouped by collections in order to enable really large numbers of collections. The bookkeeping of the collection tables is in yet another table.

2.6. EXTERNAL DEPENDENCIES

Getting rid of the external jars in edg-java-tools or at least make them always up to date: It is possible to periodically gather the necessary external jars automatically in the following fashion. The idea is to have the external jars in a cvs module (e.g. "edg-jar-cache") and to update the periodically in the following way: Tests to validate the installation of services and clients. The validation tests should be runnable by anyone (usually the sysadmin who installed the components).

- Download all the external rpms specified in a given configuration file in "edg-jar-cache";
- Install them to a writable area;
- Retrieve from the installations all the required jars (the ones that are required may also be specified in the configuration file;
- Do a diff with the older jars which are already in "edg-jar-cache" and replace the ones that have been updated;
- Commit the changes if necessary.

This algorithm can be ran as a script by a cron job, say, every week. It is also pressuposed that during the WP2 build \$EDG_LOCATION will point to "edg-jar-cache" which will make this system compatible with marianne's build. Another requirement here is that the changes to "edg-jar-cache" will be limited to some administrator, e.g., the user from whose account the above script will be run.

2.7. INSTALL TARGET

The idea here is to put all the install code in the install target passing it a location parameter that would specify the root of the install. In this way it would be possible to use the install target for:

- Installation in marianne's build, following the dist target. This would do a direct installation to \$EDG_LOCATION:
- Installation in the release/package area of the build, with the purpose of creating tarball that will be used to generate the rpm.

This needs to be well thought of given that it will imply probably reviewing the the products created by the dist target so that they are already ready for install before the release target is ran. We will probably have to create the "war" and "ear" in dist, which is OK given that now the difference of responsibilities between the dist and the release target is not clear.

However, this is a lot of work since it needs to be done for all the packages. Also has volunteered to do a first prototype of the edg-voms-admin package which can be used in the future as a base for all other packages.



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2.8. AUTOMATE TAGGING PROCEDURE

A script to automatically increase either patch, minor, major number or a combination of them seems to be useful. A way to deal with the changelogs here seems to be just adding automatically the tag comment at the top of the CHANGES file and leave up to the developers the task of adding each individual change.

The script would be able to work in two modes: passive, meaning that the commands would be generated to the standard output but not executed - this would allow the developer to copy/paste/execute in order to check the procedure; active, meaning that the script would execute all the necessary steps.

2.9. UN-CONFIGURE

The configure script creates several other files, registers services in the info service, etc. The RPM uninstallation does not take care of these things, there needs to be a script for each service that will

- Unregister the service from the info provider
- Remove all files that have been created by the configure script
- Clean the databases if any (operation to be confirmed using the db root password).

2.10. DEPLOYMENT TESTS

Enable the deployment of the functional tests during the build. This needs to be addressed carefully given that we need to understand how to deploy the tests outside the box of the developer, specially in what concerns services that involve writing to databases.

The following algorithm specifies a way of executing the functional tests for a given package:

- Install the package, client and func-test rpm;
- Run the configure script for the package;
- Run the functional tests (see section 2.3.;
- Run some unconfigure script (see section 2.9.). The unconfigure script will do the opposite of the configure one;
- Uninstall the package rpm.

This algorithm will work as long as the basic services (Tomcat, MySQL, RGMA) are installed in the machine where the tests will be performed. One also has to take care of having the correct write permissions to do the rpm install as well as the configure step. A possible workaround would be to use an \$EDG_LOCATION different from /opt/edg, but this requires the servlet to be picked up by tomcat from the correct place.

This way of solving the problem looks fairly promising, given that with this sort of test would go through all the steps, including the configure one. This would hopefully avoid configure bugs that we only find after releasing.

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3. SPITFIRE

3.1. PRIORITY 1

P1.5		Ser- C++	enable queries etc to run using gSoap	Gavin McGance, Marko Niinimaki	June 15
P1.6	Functional testing rp		prepare an rpm that adds functional tests in /sbin/test. Mainly: a "ping" that the service is present, query Spitfire with a credential/policy/role that is ok, query Spitfire with a cred/policy/role that is NOT ok (should fail gracefully), create/update/remove a table with a cred/policy/role that is ok.	Unassigned	June 15

3.2. PRIORITY 2

P2.15	SpitfireBrowse	r modify	SpitfireBrowser	so	that	John White,	Marko	June 15
	without Ora-	xSQL a	ccess config is no	t ne	eded,	Niinimaki		
	cle XSQL	i.e., it c	an use the same c	onfi	gura-			
		tion as S	Spitfire					

3.3. PRIORITY 4

P4.7	Distributed	Interface Spitfire with an agent that	HIP people	Sep 1
	queries	can access several Spitfire installa- tions and combine the results. Foot- note: actually, a prototype exists al- ready, but should be packaged in some "contrib" rpm.		
P4.8	OGSA com-	What would it mean in practice?	Gavin McGance	9
F4.8	pliance	what would it mean in practice?	Gavin ivicGance	

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4. SECURITY

4.1. PRIORITY 1

All priority 1 items are due 'ASAP'. The planned target dates for completion are nevertheless listed.

P1.7	Authentication Packaging	 Finish the packaging of authentication Test if browsers need the actual server credentials If browsers need the server credentials, add the section for them to install scripts and to documentation Test LCFG and make it work Update the installation guide if necessary 	Joni Hahkala Gavin McCance Leanne Guy	May 30
P1.8	Test class	Finish writing a simple class for authentication testing that connects the server and checks that the handshake works and prints all the CAs from both ends and any other info available.	Joni Hahkala	Jun 15
P1.9	Developer's release of authz	 Package the Authorization framework into a developer's release Collect the stuff from wikihip into a developer's doc adding text where needed. Covers http and soap stuff Collect the stuff from wikihip into a install appendix for services adding text where needed. put necessary jars in examples of all the configuration files affected scripts if needed the LCFG parts for configuring the authz system for services. This needs help from others and can be done a bit later. 	GianLuca Volpato	May 30



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P1.10	First cut at	Implement a working delegation	Niklas Karlsson	Jun 15
	delegation	system that can be tested and played	Ville Nenonen	
		with to get experience.	Henri Mikkonen	
			Tuomas Nissi	
P1.11	Secure	Finish the gSOAP hacking to make	Mika Silander	Jun 15
	gSOAP	it accept proxies from both sides.		
		• make it work		
		• combine with gSOAP-base		
		Developer's doc		



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4.2. PRIORITY 2

Things that are not critical, but more important than normal.

P2.16	Build system	Fix ant stuff to use install target and	Joni Hahkala	May 30
		remove corresponding functionality		
		from the spec file.		
P2.17	Delegation	Package the preliminary delegation	Niklas Karlsson	Jun 30
	developer's	package into developer's release.	Ville Nenonen	
	release	Write a developer's doc	Henri Mikkonen Tuomas Nissi	
		• write a install appendix for services		
		• put necessary jars in		
		 examples of all the configura- tion files affected 		
		• scripts if needed		
		• the LCFG parts for configur-		
		ing the authz system for ser-		
		vices. This needs help from		
		others and can be done a bit later.		
P2.18	Fine grained	Put fine grained authorization in the	Ákos Frohner	Sep 1
1 2.10	authoriza-	replica management tools to be able	AKOS PTOINICI	Sep 1
	tion	to satisfy BioMed security require-		
	V	ments.		



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4.3. PRIORITY 3

Things that are of normal importance.

P3.26	Finish Trust-	Add missing Junits.	Joni Hahkala	Jun 15
	Manager			
	tests			
P3.27	Authz func	Complete the authorization man-	Gian Luca Volpato	Jun 30
	tests	ager functional test system with au-		
		tomatic server etc setup		
P3.28	Other del-	Write the filesystem and/or database	Niklas Karlsson	Jul 30
	egation	storage for delegations	Ville Nenonen	
	storages			
P3.29	SOAP del-	Write the SOAP version of the	Henri Mikkonen	Jul 30
	egation	delegation protocol. If at all	Tuomas Nissi	
	protocol	possible make it compatible with		
		OGSA/WS-security		
P3.30	Developer's	Finish making the security conform	Joni Hahkala	Jul 30
	guidify	to EDG developer's guide where	and everybody else	
	security	possible.		
P3.31	Service prox-	Develop the current single-proxy	Gavin McCance	Jul 15
	ies	system into service-proxy system.	Akos Frohner	
		Also provide install appendix, de-	James Casey	
		veloper's doc and templates for ser-	Joni Hahkala	
		vices.		