

Table of Contents

Release Planning	1
The List.....	1
No longer proposed for 2.7.0, under discussion for subsequent releases.....	4
Other wishlist stuff, to be tabulated.....	6

Release Planning

31/01/06 : LCG-2_7_0 released.

The list can be sorted by clicking on the appropriate table header.

Timetable

- Mon 9th Jan - tag and begin local testing of installations and upgrades on mini testbeds, complete documentation
- Mon 16th Jan - release to 3 ROCs for a week of further testing
- Mon 23rd Jan - incorporate results of ROC testing and release asap

The List

This is the proposed list for LCG-2_7_0.

Category	Item	Responsible	Priority (1-5)	Complete (%)	Comments
Critical Bug Check	RB, BDII, CE, PX, SE_classic, R-GMA, GFAL, LFC, SE_DPM	Oliver	5	100	LCG Operations, severity 5, no release. JRA1 Middleware, priority critical. report from R-GMA team is that there is a bug (inconsistent archivers) which
OSG	Components needed for OSG interoperation	Laurence	5	100	None Required
Docs	Install Guide & Yaim docs	Antonio and Alessandro	5	100	Done
Docs	Upgrade Guide	Antonio and Alessandro	5	100	https://twiki.cern.ch/twiki/bin/view/... https://twiki.cern.ch/twiki/bin/view/... R-GMA upgrade procedure
Docs	Site Test Guide	Laurence	5	100	unchanged
Docs	quickUI, Tar-Dist-Use	Oliver	5	100	unchanged
Docs	Release Notes	Oliver/Markus	5	100	
Docs	Site Setup	Laurence	5	100	Add specs for production top level
VOMS	New server/client version & paraphernalia	Maria/Louis	5	100	http://cern.ch/dimou/lcg/voms/vom... release notes, new "vomses" and "VOMS server to be a meta-packag
VOMS	lcas/lcmeps group configuration via yaim	Maarten/Oliver	2	100	Important to CMS, issue now under gridmap file for DPM/LFC done t
VO-BOX	The VO-BOX is published in the info system. We need a mechanism that allows the VOs on the box to add their own key value pairs.	Patricia	3	100	In cert
VO-BOX	Include all UI functionality (ie rpms and configuration) on a VOBOX	Simone/Oliver/Louis	4	100	in cert
Info system		Laurence	2	100	

	Cleanup of the info providers to make full use of the new glue schema				S. Burke to advise, ongoing work, whatever is there can go in
Info system	Add the GlueSchemaLocation for exp installed software	Oliver	3	100	rpms in cert, yaim configures gip
Info system	New gip configuration / yaim	Oliver	5	100	Under test, in cert
Info system	Jeff Templon's ETT (the NIKHEF ETT RPMs)	Jeff	5	100	Yaim done, rpms in cert
LFC/DPM	New LFC methods for performance improvement	Jean-Philippe	5	100	done
LFC/DPM	Multi-domain DPM	Jean-Philippe	3	100	Code written, testing OK. installation successfully tested. Migration of a scripted and is in test. Migration d change but does need a DB center awaiting LFC
LFC/DPM	VOMS enabled LFC	Jean-Philippe	4	100	in certification. Server done, need update.
LFC/DPM	lcg-info-dynamic-dpm	Graeme, Laurence	3	100	In cert
lcg_utils/GFAL	New version, lots of bug fixes, error messages improved	James	4	100	ready for cert
Backup	Back up mechanism for the mission critical DBs on the T2 and smaller centers. Mainly DPM, local LFCs, dCache internal DBs. These are critical when lost. Has to be simple, with an option to sent the backup up the chain to the corresponding T1 center (data management tools??) Probably supplied in the first instance as a HOWTO	Piotr	2	100	Document available here: MySQLR check for mistakes.
Separation of state and processing	RB, MyProxy	Yvan	1	100	Config with single active node in Docs and rpms referenced in relea
StdOut/Err Mon	Update, reflecting the input that we receive by the users (some feedback has been already given).	Patricia/Di	3	100	In cert, usable (?) but a number of day (hopefully) for something usa
StdOut/Err Mon	Ensure these are off by	Patricia	5	100	

	default.				
Job Mon	Ensure it is off by default. Update based on user input. Modify rgma tools to take advantage of the new exceptions and error checking	Laurence	4	100	Requires a few mods and testing,
Job Status Mon	Add to release notes that this should be turned off at the RB level if required by local policy/law	Oliver	5	100	
RB	We need to enable queries such as "Show me the state of all jobs of my VO". These are the queries that the experiments would like to see.	Laurence	3	100	The job status monitoring already
RB	New wms packages with bugfixes	David	5	100	in cert, working
RB	Sandbox : Add a smart mechanism that limits the output sandbox size on the RB. We have a mechanism for the input sandbox already in place. The recently observed jobs with stderr files > 2GB can bring down any RB. The mechanism should work like this: The limit has to be configurable Sort all the files in reverse order by size Transfer all the files that fit into the limit For the remaining files transfer the first and last 100K and a note on the original size of the files	David	4	100	This is in cert, and deployed on ou
RB	Sandbox cleanup cron	Maarten/David	3	100	in cert
Security	Pool account recycling	Maarten	2	100	expire-gridmapdir in cert, cleanup
Security	signed rpm distribution	Louis	3	100	done for new rpms
VO management via YAIM	A web based tool that displays all VOs with a short description and a comment by the ROC managers of the sites region. The site then	Dimitar/Oliver	3	100	Installed at CERN for permanent t https://lcg-sft.cern.ch/yaimtool/ya Basic testing complete

	selects the VOs and assigns shares (in case the site uses a fair share scheduler). The tool then creates the VO dependent information for YAIM. A clear distinction between pilot VOs and others has to be made.				
VO management via YAIM	If the web tool is not ready, make sure info for as many VOs as possible is shipped with yaim, ensure GEANT4 and UNOSAT are there.	Oliver	-	100	All VOs with registered contacts have vars. Yaim distributed with a separate
VO management via YAIM	Default VOs are to be 4 LHC experiments + biomed + dteam	Oliver	3	100	MIS removed
Monitoring	Remove gridftp monitor from the CE.	Louis	4	100	Cannot use 'obsoletes' because this is mentioned in the release notes. This is not CE or RB
R-GMA	Inclusion of the latest R-GMA (gLite 1.5)	Laurence	4	100	Latest rpms in testing with Job State memory problems, currently looking for Upgrade procedure required as 1.4 with 1.5 server Turn off non-authenticated connections
FTS Clients	Ensure we deploy the correct FTS clients	Gavin	5	100	In cert
d-Cache	new d-Cache, 1.6.6-4	Maarten,Owen,Oliver	1	100	Simpler configuration, bug fixes, patching billing/audit database, audit for all best with version 8.1 postgres. Rutherford tier 1 running this since supported with patched 2.6.0 yaim a little later
SFT	Latest SFT rpms	Piotr	2	100	

Priority: 1 is low, 5 is high.

The multi VO FTS service will be released independently using the gLite distribution.

No longer proposed for 2.7.0, under discussion for subsequent releases

Category	Item	Responsible	Priority (1-5)	Complete (%)	Comments
VO-BOX	List of trusted domains / networks for iptables configuration	Romain	4	-	Does this need to be redelegated?
Info system	Update of info providers to publish versions for each service	Laurence	3	0%	Lots of work, needs to be done per Service, not started

Info system	Add a key value pair to the info provider for services that declares the service as being part of production. This is already published for some services, but YAIM is not configuring this.	Laurence	3	0%	Not Started, Lots of work! Need to add a new Glue attribute
Info system	VOMS server info provider	Laurence	3	0%	Not Started, will not be ready for 2.7.0
LFC/DPM	srm-copy	Jean-Philippe	-	50	not ready yet, still possible depending on priorities
LFC/DPM	using the internal catalogue as a local file catalogue	Jean-Philippe	-	-	No code change was required, but not tested, not ready for 2.7.0
LFC/DPM	VOMS enabled DPM	Jean-Philippe	0	0	Alpha. Needs schema change, cannot be an update
LFC/DPM	LFC/DPM ReadOnly LFC - replication	Jean-Philippe	0	0	oracle -> oracle replication in test on db testbed oracle -> MySQL replication currently unavailable
LFC/DPM	Python and Perl interfaces to DPM	Jean-Philippe	3	90	Missing a couple of new methods for perl/python
Separation of state and processing	CE	Andrey	-	-	Will not be ready for 2.7.0
Job monitoring tools (job mon)	Clarify that the reported CPU and wall clock time is correct, especially the double zero values should be understood	Maarten	2	0	Not started, not for 2.7.0
Security	make the fork job manager be properly authorized as previously discussed	Maarten/David	4	0	Could be ready if top priority, testing crucial. Would not cover all fork job manager abuses but would be a big improvement. Can be put out as an upgrade
BDII	The top level BDII should be published as services by the site BDII	Laurence	3	0	Not Started, Difficult
BDII	we need an info provider that can add a few values that reflect the load on the node	Laurence	3	50	Script done but need to wait for BDII to be published as a service
Monitoring	End to end monitoring (e2e monit), on the MON, former WP7, must be enabled by a switch in site-info.def	Martin Swaney, James	1	50	rpms have been delivered, not ready, not critical
VDT/Globus		Maarten	-	-	

	Upgrade to more recent version of VDT and Globus. This should be synchronized with OSG and gLite				When?? This will important
MPI	Improve MPI support	-	1	0	This will become important for gLite3
Torque	Torque 2 is available		0	0	See bug #14260 A couple of new directories are needed, and the init.d scripts have changed names, and the RPMs are organized differently. The config files are not different. Jobmanager patch required

Other wishlist stuff, to be tabulated

1. All the gLite components ready for the road in time. This depends on how well gLite 1.4.1/1.5 do on the pre production service.
 - ◆ Goal: gLite WLM (RB,CE, and UI)
 - ◆ Modifications needed for interoperation (gLite WLM (broker and UI) + LCG2 CEs and WNs,)
 - ◆ WLM (broker):
 - ◇ Information provider
 - ◇ Verification that broker info file is there
 - ◇ Jobwrapper scripts
 - ◇ Logging and Bookkeeping and monitoring to R-GMA
 - ◇ Tarballisation of gLite UI
 - ◇ State externalization (can be done later, needed only for building a resilient system)
2. MyProxy server consolidation
 - ◆ This service is becoming more and more used and we need to find ways to manage the access.
 - ◆ A VO for services could be introduced with roles to allow fine grained control. There is currently a limitation to 16 roles/VO. We should check how this can be changed. There is no mapping involved, the roles are just there to simplify the control configuration
3. MySQL node type
 - ◆ All services, except R-GMA mon box and the RB can use one DB located on one node.
4. Add squid as a service for ATLAS and CMS on the T1s, motivation has been provided by Rod Walker.
 - ◆ We on Atlas have several use cases for sites having a caching web proxy. I would think other VO's may make use of it too.
 - ◇ Ad hoc user code/data distribution.
 - ◇ Conditions/geometry/calibration data either flatfile or FronTier .
 - ◇ Proxy helps with private network clusters.
 - ◆ The installation needed would be standard except for an increase in the max size of the cached objects. An env LCG_HTTP_PROXY could be set, and only if this is copied to HTTP_PROXY will squid be used, so it would have no impact on other users.
 - ◆ Configuration
 - ◇ max cached object of say 2GB
 - ◇ cache size of 50GB for one VO
 - ◇ default cache turnover policy
 - ◇ location, location, location. Maybe SE?

LCG-2_7_0 < LCG < TWiki

◆ NOTE: The above is based on input from Rod Walker

5. Pilot jobs A service on the CE is needed to allow pilot jobs on the WN to announce change of user for the running job. lhc and other VOs submit pilot jobs that pull user jobs from their own task queues. To allow the site to make a final decision on who can run and produce proper traces the framework of the VO needs to contact the gate keeper and request it to accept or reject the change of user.
 6. Pool account clean up cron job - Maarten and Jeff
 7. VO-BOX - Job submission capability via condor; only alice was interested, and they do not seem to be any more...
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This topic: LCG > LCG-2_7_0

Topic revision: r72 - 2007-02-14 - FlaviaDonno



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