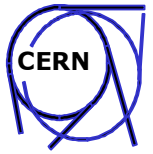

LCG-1 of Aug/26

Current status

Future plans

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LCG-1 Deployment

Goal:

- to install 10 Tier-1 sites (CERN, FNAL, BNL, RAL, CNAF, Karlsruhe, Tokyo, Taiwan, Moscow, Lyon)
- new one on board: Budapest (RMKI)

Today:

- 7 sites installed (CERN, RAL, CNAF, Karlsruhe, Tokio, Taiwan, Budapest)
- 4 others started installation (FNAL, BNL, Moscow, Lyon)

Software installed:

- A head version of 4 weeks ago, the purpose was to get problems out of the installation process
- All sites are now being reinstalled with LCG tag of Aug/18.

Deployment process

Installation:

- LCG has defined the overall *world-wide* configuration
- questionaire has been sent to all sites asking for input in the configuration files
- LCG is helping with writing the configuration files
- LCG specialist sent to Tokyo to help with LCFGng
- all sites have been/are being installed using LCFGng (the *full* version so far, though BNL may need to use the *lite* version)

Problems identified:

- Budapest: LCFGng was not able to install a PC without a graphics card, solved with help of several CERN people.
- Taiwan: brand new PC's with huge disks (250Gb) cause problems for LCFGng, solved.

What is LCG-1 software?

LCG-1 is:

- VDT 1.1.8-9 (Globus 2.2.4)
  - Information System (MDS)
- Selected software from EDG 2.0:
  - Workload Management System (RB)
  - EDG Data Management (RLS, LRC, …)
- DataTag Glue Schema 1.1
- LCG local modifications/additions/fixes, such as:
  - Special job managers (LCGLSF, LCGPBS, LCGCONDOR) to solve the problem of sharing the home directories
  - Gatekeeper enhancements (adding some accounting and auditing features LCG requires)
  - Number of MDS fixes (also coming from NorduGrid)
  - Number of misc Globus fixes, most of them included now in the VDT version LCG is using

LCG-1 *down the road*

Current release:

- Status report is sent regularly since about 2 months
- It allowed LCG to have a clear vision of outstanding problems and their status on a day-to-day basis
- No more showstoppers or critical bugs at this point
- LCG will be working on the C&T to improve the stability and scalability of the system.
- Scalability may become the next big issue.
- LCG will issue every 3-4 weeks an update to the deployment system
- based on the work on the C&T testbed

LCG-1 *down the road*

Next LCG-1 version:

- The same software recompiled with gcc 3.2
- New VDT? Based on Globus 2.4? LCG will work on this issue.
- Add VOMS
- Add RLI

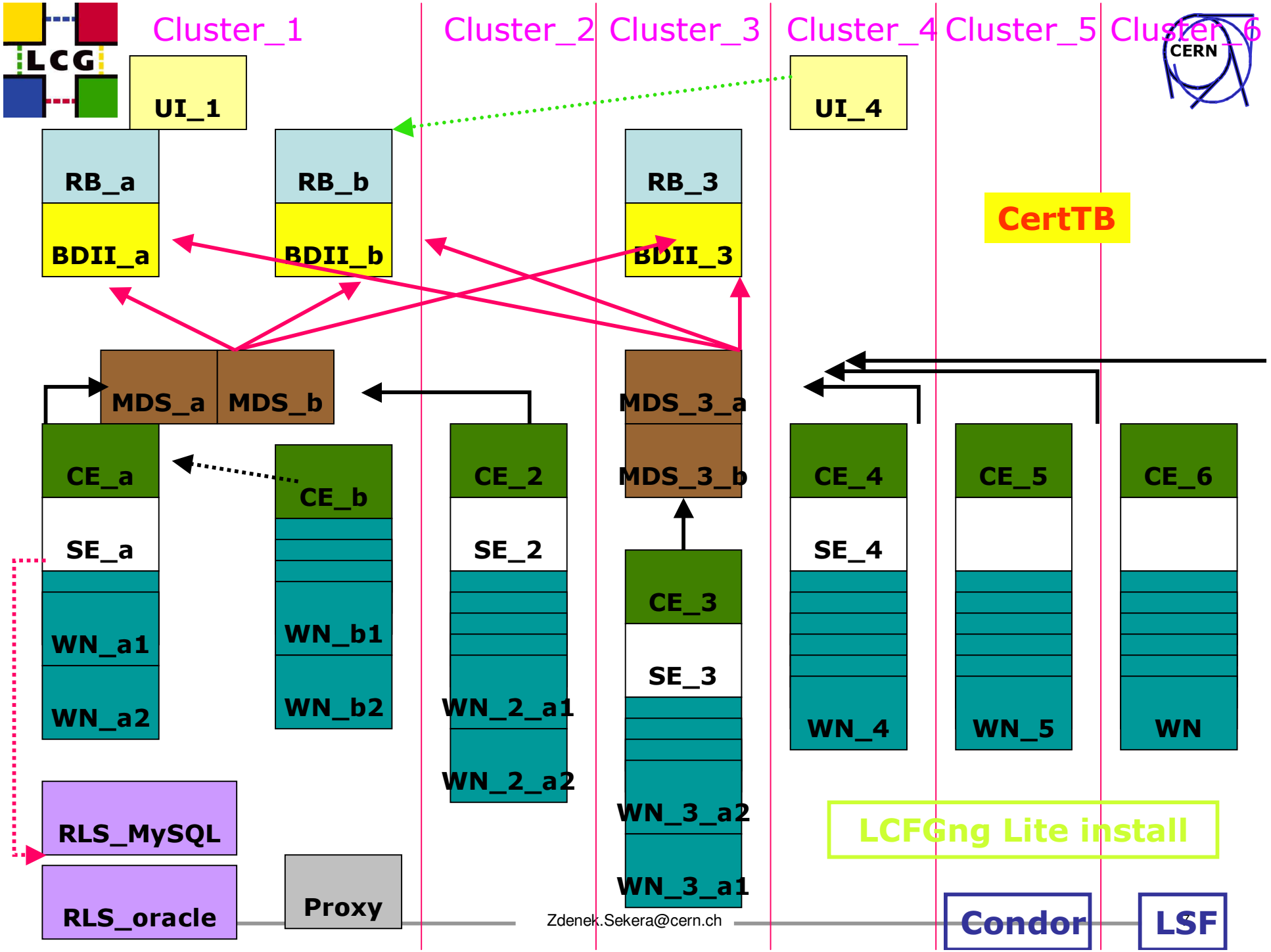
For more features we would like to apply the simple rule:

Add it if and only if

- it is proven to work (by EDG, LCG, together)
- it adds some desirable feature or feature requested by users
- it makes the user's application setup significantly simpler or practical
- it is required by coming new user applications

Bug fixing will always have the highest priority.

Target release date: November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Cluster_2
Cluster_3
Cluster_4
Cluster_5
Cluster_6
LCG
CERN
UI_1
UI_4
RB_a
BDII_a
RB_b
BDII_b
RB_3
BDII_3
CertTB
MDS_a
MDS_b
MDS_3_a
MDS_3_b
CE_a
SE_a
WN_a1
WN_a2
CE_b
WN_b1
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CE_3
SE_3
WN_3_a2
WN_3_a1
CE_4
SE_4
WN_4
CE_5
WN_5
CE_6
WN
RLS_MySQL
RLS_oracle
Proxy
LCFGng Lite install
Condor
LSF
Zdenek.Sekera@cern.ch