

RGMA report

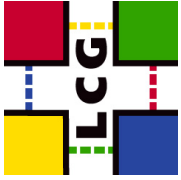
The initial target was to test rgma functionalities as monitoring system; afterwards the accounting has been tested too.

Work is still going on; Antony Wilson was here two weeks ago.

- Architecture of the TB
 - One MON box
 - One Computing Element
 - One Storage Element
 - One Worker NodeAll of them point to lcgic01.gridpp.rl.ac.uk as Information Catalogue.
I'll call the CE and SE client machine.

NOTE The monitoring of a Resource Broker is not implemented yet and there is not any LCFGng profile for the RB (LCG states that the service machines must be installed through LCFGng)

- Documentation
 - Huge, but difficult to find practical information



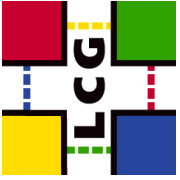
RGMA report



- Comments, problems, bugs

Many manual steps and corrections were necessary.
Confusion even among the developers.

1. /opt/edg/sbin/test/edg-rgma-check needed to be substituted by hand; the new version still has a minor bug.
2. /opt/edg/sbin/edg-rgma-publish-service used to add in the catalogue the services to be monitored.
 - to make it run, some workarounds were needed
 - **no way to set the services to be monitored through the LCFGng profile of the machines.**



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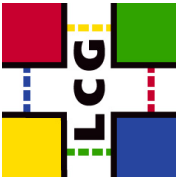
- Comments, problems, bugs(continue)
3. /etc/init.d/service-status used to get the list of the services to be monitored and to check them.
 - Configuration file was wrong.
 - All the services are checked with the same frequency and this can not be configured.
- NOTE On the client there is no file in which the services to be monitored are listed. The client MUST QUERY the catalogue each time.
- The services that can be monitored are not exhaustive; some code should be written, for example if RB must be monitored .
- If we accept that rgma is not a service monitoring tool (a la gridice), what can it monitor? The applications from their inside? How exactly?
Example of code which used it....



RGMA report



- [Comments, problems, bugs\(continue \)](#)
[Accounting](#)
4. At the beginning I was told that it was necessary to install rgma on WN's, to enable the accounting. Afterwards it seemed not to be necessary. Shouldn't this be clear at least to the developers?
 5. /opt/edg/sbin/edg-rgma-apel (Gatekeeper, CE , MON); the first time I ran it on the CE, it stalled and many iterations were necessary to have it run.
 6. When finally accounting data has been inserted in my MON box database, I asked why I could not see them in the catalogue. The answer was that it was better not to mix my data with the "official"(?) LCG one and that I should install my own catalogue.



RGMA report



- Comparison with GridICE

GridICE is more ahead in the development:

- the software released is normally well tested
- the documentation is essential, but explains the necessary concrete steps
- the whole configuration of the client can be done through LCFGng
- more kinds of machines can be monitored
- the frequency of checking can be configured according to the service to be checked
- much more information is available
- web presentation is more user friendly



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- **Proposal**
 1. Considering the status of the software, it would be premature to insist asking for a LCFGng object to configure rgma.
It would be enough to have a WELL TESTED manual installation and configuration.
The developers should provide the rpm's list (already done) and a configuration, non interactive script, reading a configuration file, doing rgma specific operations. For system operations (setting cron jobs, enabling startup scripts , chkconfig, ports in /etc/services,..) there should be a separate script to be used for non-LCFGng installation (done the same for dcache).
 2. They should build their packages so that they can run on our distribution (dcache does it).

IRREMISSIBLE REQUEST: software must be tested before being given to us and rgma group should have clear idea about what we (LCG) should do to help them (do we have to install something/what on the wn's? are we allowed to use their IC? If not, do they install an IC for us ?)