

Installed Resource Capacity: update and operational plan

Flavia Donno CERN/IT-GS

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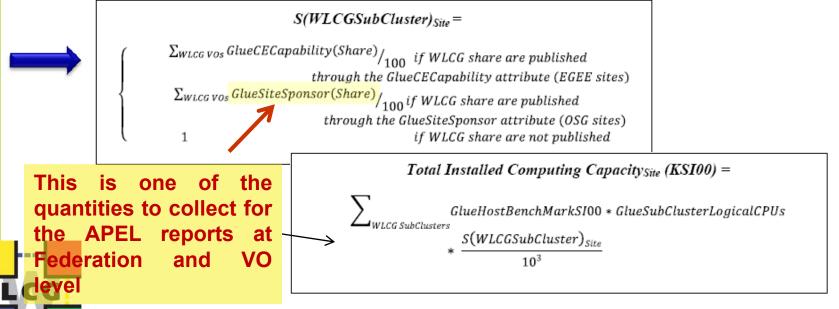
Outline

- Summary of the comments received on the previous published version of the document
 - Computing
 - Storage
- The new version of the document is v1.8 publicly available
 - It includes a description for pure xrootd installations
 - Integration of the new benchmark HEP-SPEC
 - A few more comments received from OSG
- Presentation of the operational plan



Computing Capacity: changes

- GlueHostBenchMarkSI00 = <u>Average SpecInt2000 rating per</u> <u>LogicalCPU</u>
 - Sites that decide to publish <u>CPU power using the new benchmark HEP-SPEC</u> MUST use the GlueHostBenchmarkSI00 attribute to publish CPU power. In this case, <u>the power MUST be expressed in SpecInt2000 using the scaling factor</u> that can be found in [11]. Such <u>sites MUST also publish the attribute GlueHostProcessorOtherDescription: Benchmark=<value>-HEP-SPEC</u>, where in <value> they report the CPU power expressed in the new unit.
- CECapability: CPUScalingReferenceSI00=<refCPU SI00> the CPU SI00 for which the published GlueCEMaxCPUTimes are valid.



Storage Capacity: changes

- Changes involve the description of pure xroot installations
 - GlueSEImplementationName/Version: It includes xrootd and the version of the protocol.
 - GlueControlProtocol/AccessProtocol: Pure xrootd installations will publish both control and access protocol (xroot is both a storage control and file access protocol) to distinguish from "xroot door"-only installations such as dCache, DPM, and CASTOR.
 - It is advisable that pure xroot installations will publish only one SA.



Installed Capacity = $(\sum_{\text{WLCG GlueSA}} GlueSACapability(InstalledCapacity))$



This is one of the quantities to collect for the APEL reports at Federation and VO level

Installed Capacity: status

- The new version of the document (v1.8-6) has been published with all details, operational instructions for site administrators and explicative examples (OSG missing)
 - https://twiki.cern.ch/twiki/pub/LCG/WLCGCommonComputingReadinessChallenges/WLCG_GlueSchemaUsage-1.8.pdf
- Technical agreement on the content of the document :
 - From EGEE
 - No explicit answer from OSG: no news is good news?;-)
- If approved, we move to the operational plan
 - See next slide



Installed Capacity: plan (1)

- Operational plan agreed with WN working group, Gstat, EGEE operations, developers, gLite certification team.
- This plan assumes that the document is approved today.
- Plan description(1):
 - Presentation of the requirements and of the document at the next EGEE operations meeting. Presentation at the next GDB (February 11th 2009).
 - Creation of a support group in GGUS to support sites. To be in place by the 18th of February 2009
 - Nothing to be done for DM or WMS clients. Nothing to be done for SAM tests.
 - Next version of YAIM supporting configuration to be released by end of February 2009.



Installed Capacity: plan (2)

Plan description (2):

- New Gstat sanity checks will go to production at the end of February 2009.
- New GridMap will go to production at the end of February 2009.
 - size the sites by #LogicalCPUs (Cores) or Installed Capacity (SI2K) as defined in the document
 - will have a button to show the OSG sites contributing to WLCG (OSG sites are shown if they are listed in SAM and also in BDII)
 - will allow to interactively explore the PhysicalCPU and LogicalCPU numbers of sites (helps with inspection if the values are set correctly)
 - If we get the online data feed for WLCG topology information in time, we'll also add this as the source for the "tiers" button. This will then show WLCG sites only.

■ APEL will produce the first reports for Tier-2s in April 2009 (?)

- This are just test reports to verify that the system as conceived works.
- Official reports will be produced later on in the year.
- Dates can change slightly





Installed Capacity: plan

- The described operational plan has been approved by the EGEE side of WLCG.
- Started engaging with the OSG ...
 - Progress is being made. A list of the current concerns and ideas is being created.
 - A concrete plan is being worked on.
 - OSG top concerns regarding deployment are:
 - The ability to "override" any final numbers collected in APEL which might be incorrect.
 - USATLAS has requested that they not send any data via the BDII which could result in jobs matching their sites in a WMS.
 - USCMS appears to be interested in having separate data paths between the "normal" BDII which might be used by meta-schedulers and any used in accounting data.

