Experience adding computing static information in GOCDB

Information System Task Force

12th May 2016

Current dependency on the BDII

- LHC VOs rely on the BDII to discover CE queues and related information
  - But only a few attributes!
  - There is no need to provide more information and run the BDII only for this!

Attribute generic name	GLUE 1	GLUE 2	Example
CE endpoint	Included in GlueCEUniqueID	GLUE2EndpointID	ce503.cern.ch:9619
Queue name	Included in GlueCEUniqueID	GLUE2ComputingShareMappingQueue	grid_2nh_atlas
CE type	GlueCEImplementationName	GLUE2EndpointImplementationName	HTCondorCE
CE LRMS type	GlueCEInfoLRMSType	GLUE2ManagerProductName	Condor
Max CPU time	GlueCEPolicyMaxCPUTime	GLUE2ComputingShareMaxCPUTime	2880
Max Wallclock time	GlueCEPolicyMaxWallClockTime	GLUE2ComputingShareMaxWallTime	2880

Proposal

- Provide static computing attributes through the GOCDB/OIM extension properties
  - Stop dependency on the BDII service for computing information
  - Agree on a naming convention for the attributes
    - Using GLUE 2 seems the best option
  - Agree on the possible values for the type names
    - We could be aligned with GLUE Enumerated types

      https://github.com/OGF-GLUE/Enumerations/blob/master/ServiceType_t.csv
  - All the details:

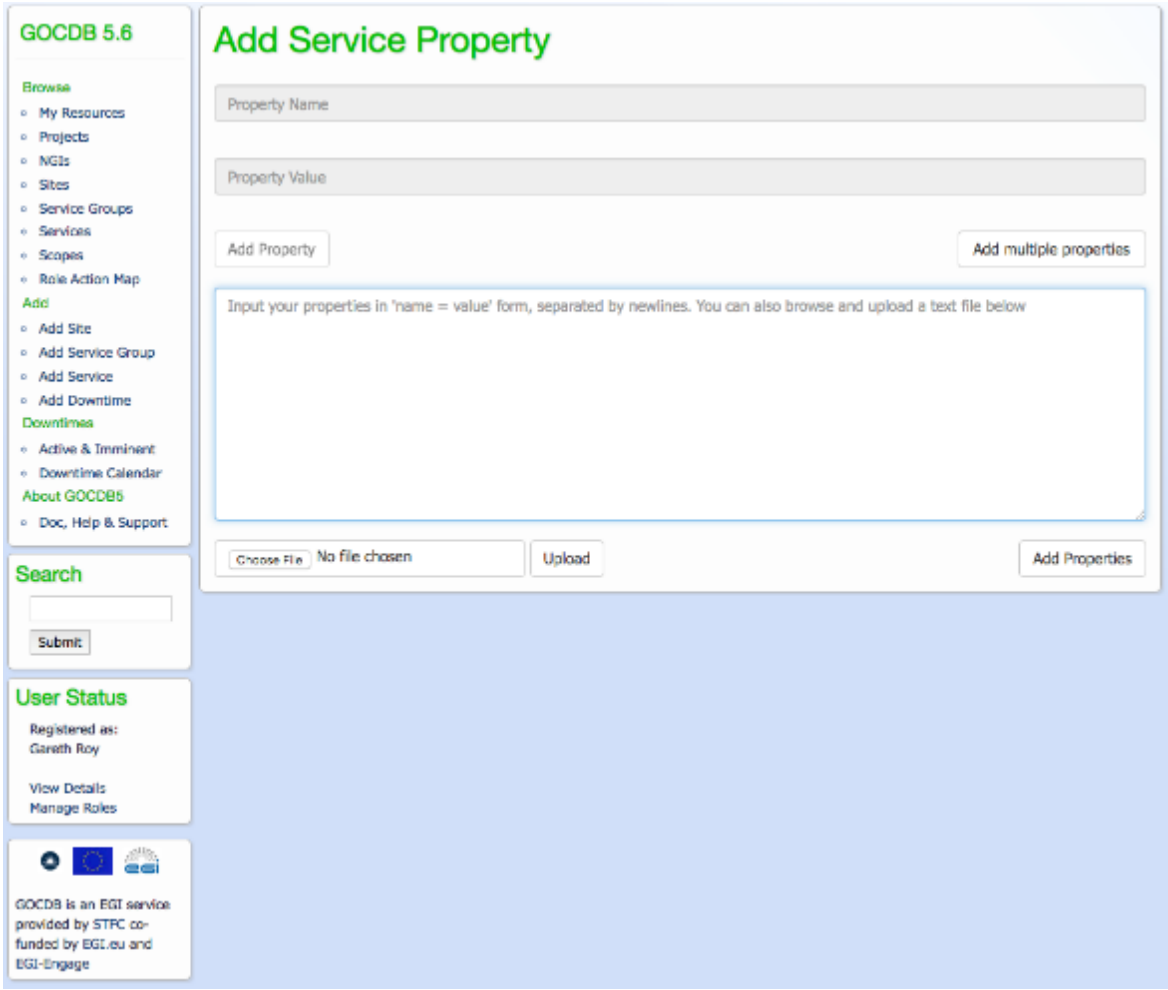
    https://twiki.cern.ch/twiki/bin/view/EGEE/StopBDII#Computing

Experience from Glasgow (I)

- Thanks to Gareth Roy for this
- Manually added the relevant attributes:
  - https://goc.egi.eu/portal/index.php?Page_Type=Service&id=2712
  - https://goc.egi.eu/portal/index.php?Page_Type=Service&id=2711
  - https://goc.egi.eu/portal/index.php?Page_Type=Service&id=2710
  - https://goc.egi.eu/portal/index.php?Page_Type=Service&id=5541
- Very simple to do, takes a few minutes
  - Implies editing key/value pairs
    - But it could be done using bulk add editing feature! (See next slide)
    - And we are also requesting a writeable API (see next presentation)

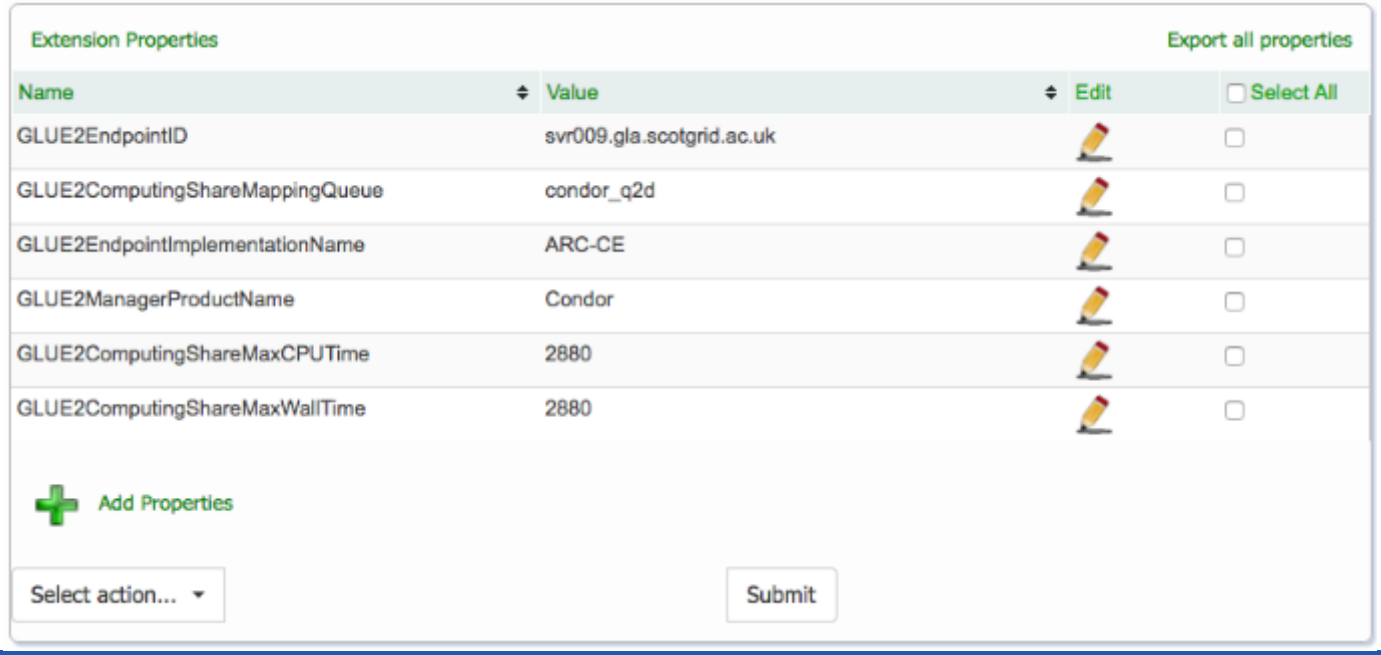
Experience from Glasgow (II)

- GOCDB allows to bulk add several attributes
- Even uploading them from a file
- The site can maintain this file through version control



Experience from Glasgow (III)

- All extension properties can be exported from GOCDB in the correct format for modifications and re-uploading as well



What about OIM?

- It is also possible to add key/value pairs
- For instance, Max Wall Time was added in this resource as an example
  - https://oim-itb.grid.iu.edu/oim/resourceedit?id=3
- To be tested in practice but in principle no problems from a technical point of view

Next steps

- Use AGIS to consume this information from GOCDB/OIM instead of BDII
  - If OK, evaluate whether this could be done also for other experiments
    - Understand what changes are needed in their frameworks/tools
- Ask remaining sites to provide this information in GOCDB/OIM
- When all sites provide this information in GOCDB/OIM AND experiments consume it from there, stop publishing on BDII
  - Provide a recipe similar to dedicated WLCG storage