APEL and GOCDB development: inputs from WLCG Ops

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GocDB

- Following evolution of WLCG authorization beyond X.509 is required
- Otherwise no particular requirements from the WLCG Ops.
- Information in GocDB is sufficient
- CRIC is retrieving info from GocDB and BDII, SRR , CRR and other sources and provide in a consistent way to the experiment clients. CRIC can be considered as a cache for eventual GocDB outages.
- Checked with LHCb which relies on downtime information in GocDB for experiment workflows. DIRAC caches GocDB information and can well sustain in case of eventual GocDB outages

APEL and EGI accounting portal

- The WLCG Accounting Task Force considers improving of the flexibility of the system as a highly desirable improvement
    - adding new metrics (raw wallclock time vs normalized)
    - adding new meta attributes (new architectures, new procurement modes, pledged/non pledged, etc…)
    - more flexible processing algorithms (applying various benchmarks)
    - using different source for the conversion factor rather than BDII (might be already implemented)
    - more flexible visualization
    - using different topology sources
    - possibility to inject data from the experiment-specific accounting systems (volunteer computing)
- We understand that this might require major re-design of the system and strongly depends on the provided funding

Some use cases

- Use various benchmarks including VO-specific ones and show consumption comparing different options

- GPU vs CPU consumption

- Import accounting summaries from the VO-specific accounting systems for resources which are not accounted through the complete APEL chain (volunteer computing)