WLCG dedicated accounting portal (proposal)

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Entry page

Time series	Aggregation by category	Compare to pledges and/or averages	Restricted views	Reports
T1 & T2 (including OSG) T1 (including OSG) T2 (including OSG) OSG Cloud resources	T1 & T2 (including OSG) T1 (including OSG) T2 (including OSG) OSG Cloud resources	Compare with pledges Compare with average of a selected category	VO manager Site Admin	T1 T2

Since for the time being cloud resources are not transparently integrated in the reporting and processing chain, let's keep them separate

Time series view

- Menu similar to what we currently have under any WLCG selection page
- Possible metrics selection : raw wall clock time multiplied by number of cores (units hours), CPU work (units HS06hours) , wall time work (units HS06hours), number of jobs, CPU efficiency
- Aggregation selection : VO, country, tier, site, number of processors, submit hosts, nodes
- Add a possibility to define number of series
- Add search box to restrict selection by substring
- No changes in advanced options
- Layout below menu area
  - Table without changes

  For all selections apart of CPU efficiency
  - Stacked bar plot
  - Accumulative plot
  - Two pie charts as now

  For CPU efficiency selection
  - Bar plot with weighted averages

Aggregation by category view

- Menu similar to what we currently have under any WLCG selection page
- Possible metrics selection : raw wall clock time multiplied by number of cores (units hours), CPU work (units HS06hours) , wall time work (units HS06hours), number of jobs, CPU efficiency
- Row aggregation instance : VO, country, tier, site, number of processors
- Column aggregation instance : VO, country, tier, site, number of processors, submit hosts, nodes
- Add a possibility to define number of series shown separately for rows and columns in a pie chart
- Add a possibility to define ordering attribute for the stacked bar plot (alphabetic, descending, ascending)
- Add a search box to restrict a selection by substring
- No changes in advanced options
- Layout below menu area
  - Table without changes
  For all selections apart of CPU efficiency
  - Stacked bar plot
  - Line plot
  - Two pie charts as now
  For CPU efficiency
  - Bar plot where every column is represented as a set of bars, every bar corresponds to a row value for a particular column

Compare to pledges

- In the menu part first line start time, end time
- No metric selection since the only possible metric here is wall time work
- Select site (any T1 or T2 site can be selected)
- Add a search box to restrict a selection by substring
- Layout below menu area
  - Table is similar to time series view, but includes also pledges
  - Stacked bar vs time distribution with a line showing pledge, in case of several VOs selected pledges are summed up
  - Line plot showing usage vs pledge ratio. In case of several VO selected there, several lines are shown , one line per VO
- What do we do when the pledges are available at the federation level? Show a federation pledge with a warning?

Compare to average

- In the menu part first line as usual: metric, start time, end time
- Possible metrics selection : raw wall clock time multiplied by number of cores (units hours), CPU work (units HS06) , wall time work (units HS06), number of jobs, CPU efficiency
- "Select site" (any site can be selected)
- Add a search box to restrict a selection by substring
- Select category . Can be selected T1,T2,OSG,country. This selection selects a group of sites which weighted average will be compared with a selected site instance
- Layout below menu area
  - Table is similar to time series view, but includes also weighted average of a selected category
  - Stacked bar vs time distribution with a line weighted average of a selected category. For all selections apart of CPU efficiency VO values are summed up in a stacked bar. For the CPU efficiency instead of a stacked bar , show set of bars next to each other , one bar per VO.
  - Line plot showing selected site metric vs average ratio. In case of several VO selected there, several lines are shown , one line per VO

Restricted views

- I do not have access to this view.

- Should we keep them as they are without changes?

- Alessandra had a look, her saggestion is to add a possibility at the site admin view to select VO, which is not there for the moment

Questions

- *From Alessandra :Will the WLCG portal display also other VOs? For shared sites it is always useful being able to compare without going from one portal to another.*

Reports

- For the reports we keep them as they are apart of several changes:

- Drop installed capacity

- T1 reports should be in HS06 hours

- Comparison with pledges should be done using wall time work, rather than CPU work.