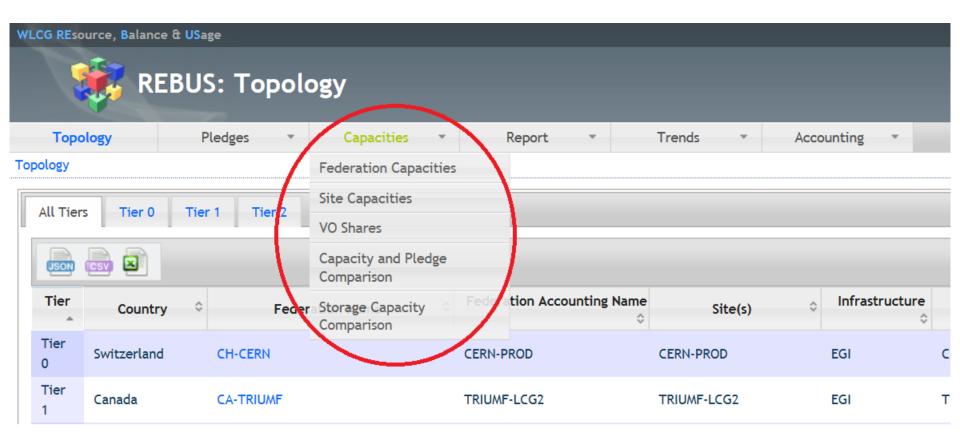


# Proposal to drop Capacity view in REBUS

Information System Task Force 16th June 2016



## What is the capacity view?





#### Where are the values taken from?

- The values are taken from the BDII (lcg-bdii) that is queried once per hour
  - Queries are in GLUE 1
  - This is the case for both EGI and OSG
- Moreover, MyOSG is queried also once per hour and some values are added
  - Using the MyOSG Vofeed:
     http://myosg.grid.iu.edu/rgsummary/xml?datasource=summary&summary\_attrs\_showwlcg=on&all\_resources=on&gridtype=on&gridtype=on&gridtype\_1=on&active=on&active\_value=1&disable\_value=1
  - And it overwrites what has been collected from the BDII if the site appears in both BDII and MyOSG (see known issues!)
- No validation or consistency check is performed



## Capacity views in REBUS

Federations Capacities
 <a href="https://rebus.cern.ch/apps/capacities/federations/">https://rebus.cern.ch/apps/capacities/federations/</a>

Sites Capacities

https://rebus.cern.ch/apps/capacities/sites/

VO shares

https://rebus.cern.ch/apps/capacities/vo\_shares/

Pledge and Capacity comparison
 https://rebus.cern.ch/apps/capacities/pledge\_comparison/

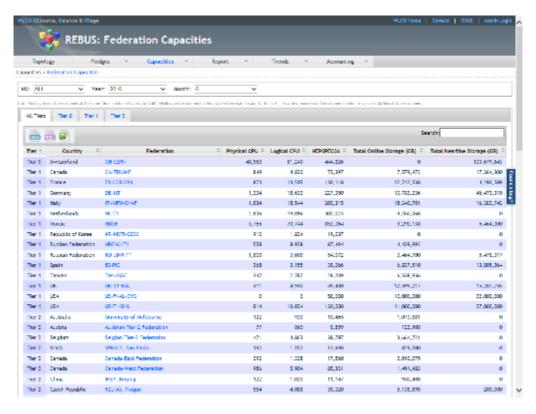
Storage Capacity Summary

https://rebus.cern.ch/apps/capacities/site\_storage/



## Federations Capacities

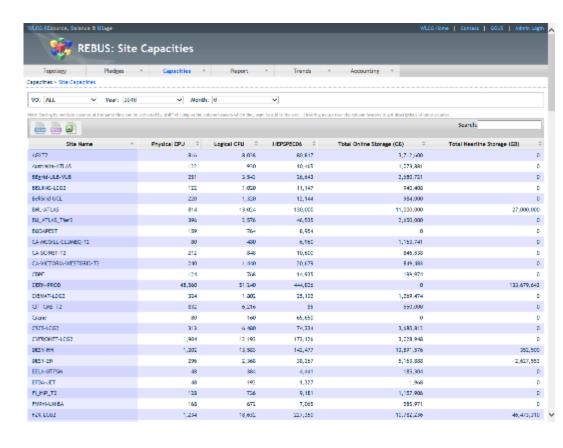
 Aggregation of capacities published by the sites within the federation





## Sites Capacities

- BDII variables:
  - Sum of all the SubClusters in the site:
    - GlueSubClusterLogicalCPUs
    - GlueSubClusterPhysicalCPUs
    - GlueProcessorOtherDescription
  - Sum of all the SEs in the site:
    - GlueSETotalOnlineSize
    - GlueSETotalNearlineSize
- MyOSG variables:
  - HEPSPEC
  - StorageCapacityMin
  - StorageCapacityMax





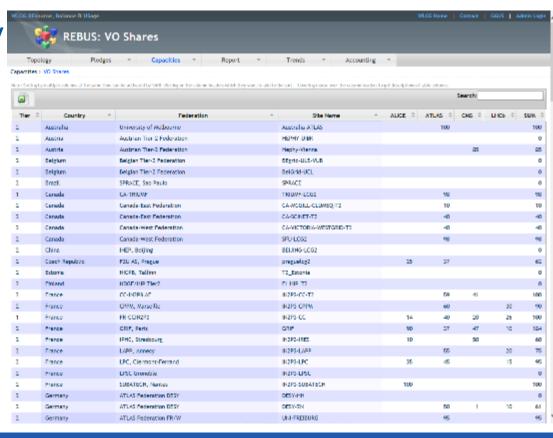
#### **Historic Information**

- Both site and federation capacities can show an historic value as well:
  - Selecting year and month
  - In that case, an average of the values published during the selected month is shown



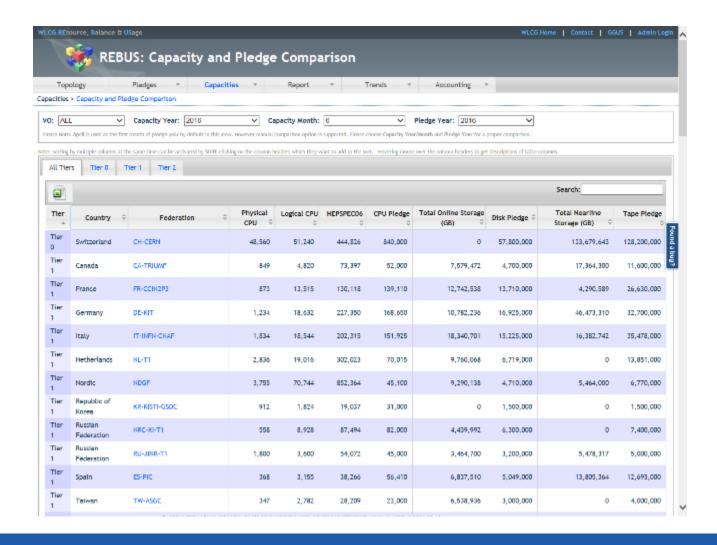
#### **VO** shares

- BDII variables:
  - For EGI sites:
    - GlueCECapability
  - For OSG sites:
    - GlueSiteSponsor



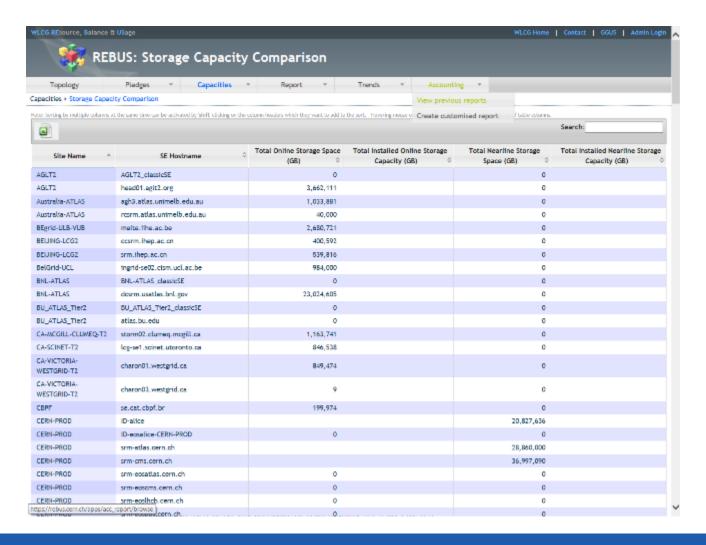


## Capacity and Pledge Comparison





# Storage Capacity Comparison





#### Known Issues

- REBUS assumes that in case two or more GlueSublcusters in a site publish the same number in GlueSubClusterLogicalCPUs, this is doublecounting and it takes into account the value only once
- If the foreign key attribute (site) in GlueSE doesn't match the actual GOCDB site name, the SE is not taken into account
- Sites that appear in both BDII and MyOSG, get their BDII values overwritten by MyOSG values
- MyOSG doesn't publish LogicalCPUs and PhysicalCPUs, therefore, these values are only published for OSG sites if they are published in the BDII



### Motivations to drop capacity view

- REBUS is just republishing information that is available in BDII/MyOSG
  - Offering a set of in principle interesting attributes through the webUI
- However, it adds a complex internal logic that prevents from showing exactly what BDII publishes
  - This is very confusing for sites
- Moreove LHC experiments do not rely on REBUS

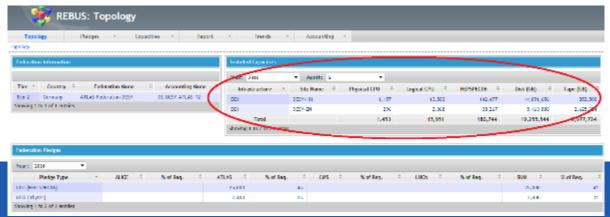


## Proposal

Remove the capacity tab from the main menu



 Adjust federation information showing today a summary of sites capacities by just including a list of sites belonging to the federation





#### Additional material

https://twiki.cern.ch/twiki/bin/view/EGEE/AllAboutREBUS

