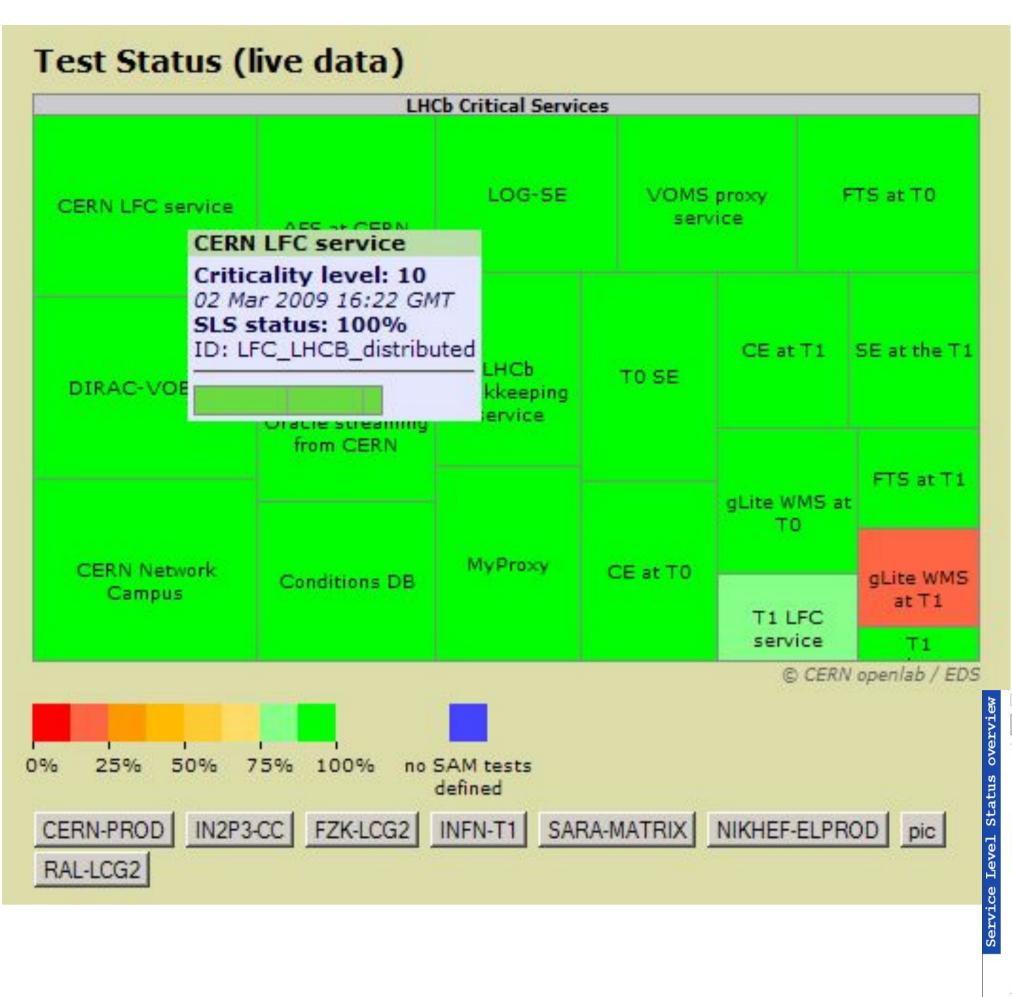
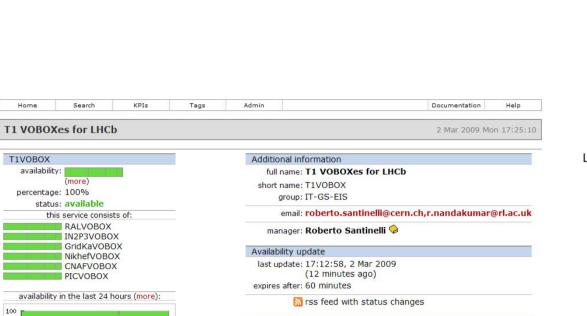


Monitoring the DIRAC Distributed System



Grid Map: Gives a high level view of all service statuses in a single layout (figure on left)

- >URL: http://servicemap.cern.ch/ccrc08/servicemap.html?vo=LHCb
- >SAM and SLS feed inputs to the Grid map
- ➤ Possibility to view details of service status
- >Color gradient indicates current status of the service
- Size of the cases proportional to the criticality of the service (as perceived by LHCb)



Part of (subservice of

Site Availability, last 7 days

LCG.Cambridge.uk
LCG.II-BGU.ii
LCG.UKI-T2-RHUL.uk
LCG.BHAM-HEPuk
LCG.USC.es
G.UKI-SCOTGRID-GLASGOW.uk
LCG.IHEPsu
LCG.CSCS.ch
LCG.SPBU.ru
LCG.IN2P3.fr
LCG.IN2P3.fr
LCG.Dortmund.de
LCG.CPPM.fr
LCG.Poznan.pl
LCG.CPPM.fr
LCG.POznan.pl
LCG.CPN.ch
LCG.POZNAN.pl

SAM tests displayed via dedicated Dashboard GUI (picture on right):

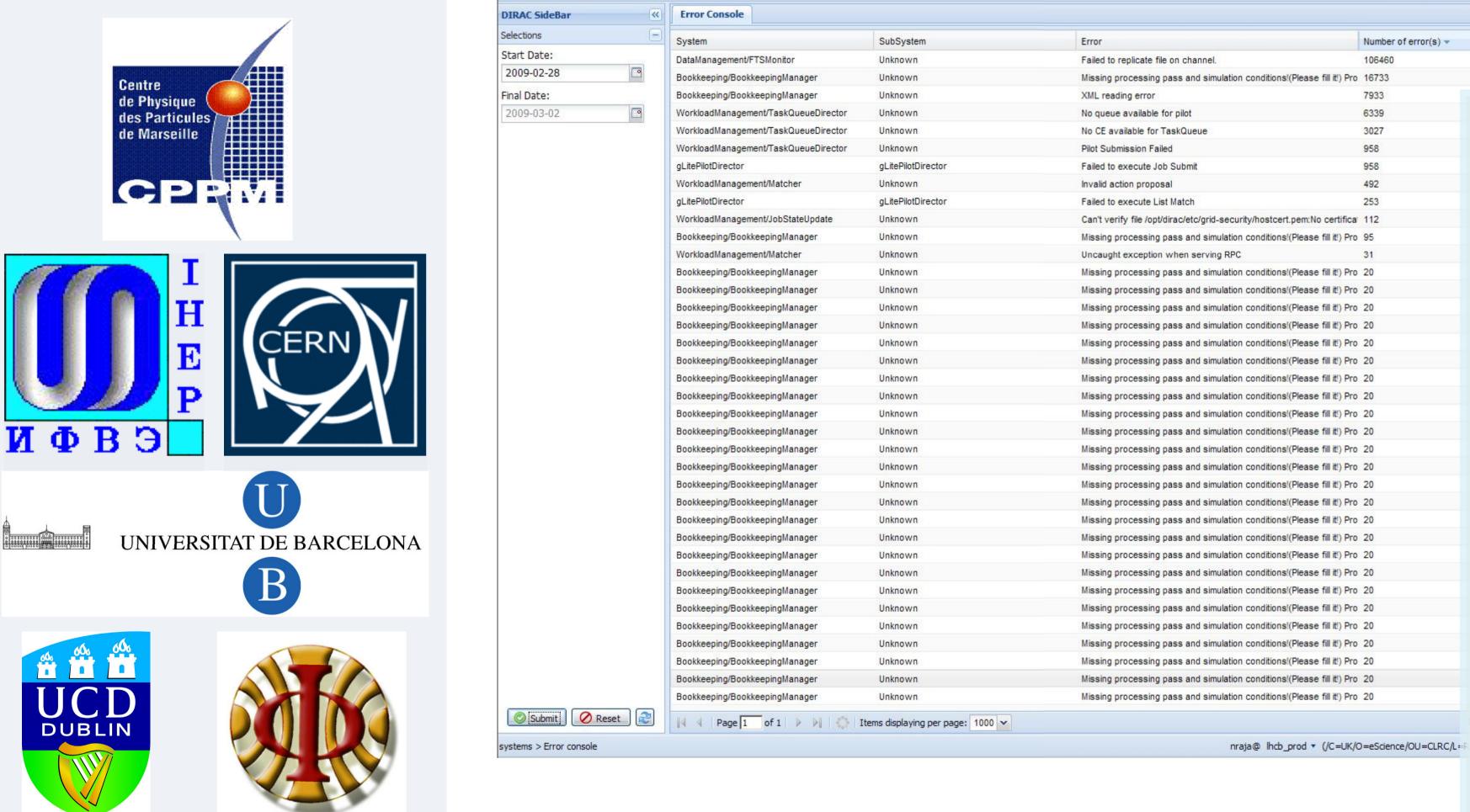
- http://dashb-lhcb-sam.cern.ch/dashboard/request.py/latestresultssmry
- > Define algorithms (not only WLCG) that really matter for LHCb
- >Allow for
 - Naming convention
 - Historical views
 - Site ranking plots
 - Site topology flexibility

SLS (Service Level Status) sensors in place (inset above, inset right):

- >https://sls.cern.ch/sls/service.php?id=DIRAC-VOBOX
- >Plots for the different metrics one can define
- >Historical plots
- Fine grained service health status definition
- > Alarming system

LCG.LNS.i Documentation LCG.MPI-K.de LCG.WCSS.p LCG.CESGA.es 2 Mar 2009 Mon 17:40:08 LCG.Pisa.it LCG.WARSAW.p LCG.PAKGRID.pk lumber of ToDo diset requests in the last month LCG.Montreal.ca LCG.Ferrara.it IN2P3_RequestManagement LCG.MPI-RZG.de Number of ToDo diset requests - last month LCG.NAPOLI-ATLAS.it LCG.PDC.se LCG.Trieste.it LCG.Milano.it LCG.SNS-PISA.it LCG.UCL.uk LCG.LPC.f LCG.UNICAL.if LCG.NCU.tw LCG.GR-05.gr LCG.BMEGrid.hu LCG.Cagliari.it

http://lhcbweb.pic.es/DIRAC/LHCb-Production/visitor/systems/ErrorConsole/display



DIRAC Logging System:

>Logs messages from DIRAC processes

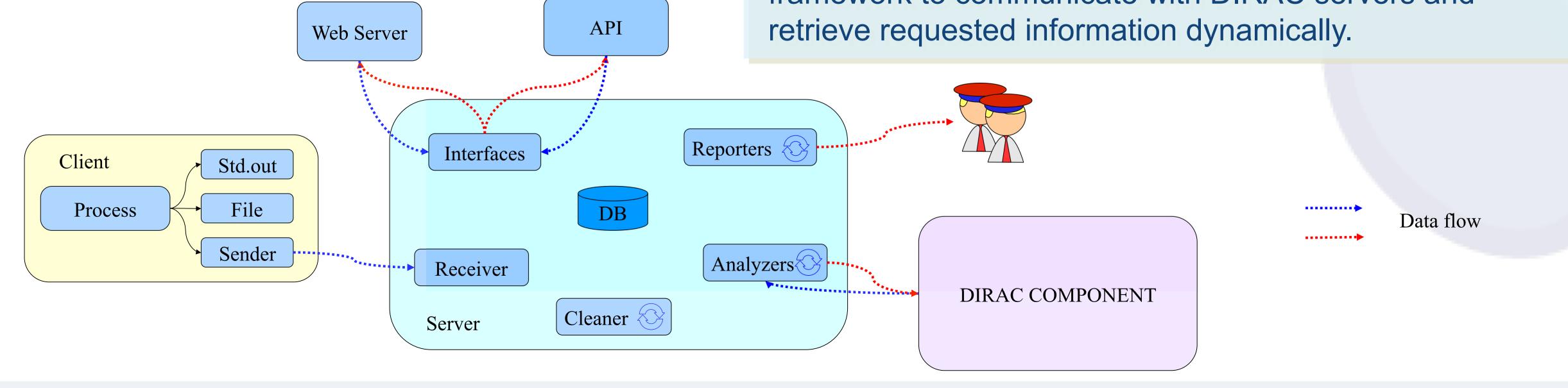
LCG.Catania.i

- ➤ Provides system status information for administrators and other DIRAC components
- >Components:
 - Services: Allow users and DIRAC processes to store or retrieve data from central DB
 - •Agents: Perform maintenance on the DB, analyze messages stored in the DB and feed the information to other DIRAC components or specific users.

The flow chart below shows the relations between the different components of the logging system.

The web site (left) takes advantage of the DIRAC framework to communicate with DIRAC servers and retrieve requested information dynamically.





Selected setup: LHCb-Production ▼