Monitoring ATLAS Site usability for Analysis

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Since March 2012 three metrics describing Data Usability are available in SSB:

- Data Transfers Usability (DTU)
- Data Processing Usability (DPU)
- Data Analysis Usability (DAU)

→ DxU (x=T,P,A)

Site Status Board (SSB)

Show 200 entries | Copy | Print | Save | view: DxU | Search...

Site Name	DTU	DPU	DAU
AGLT2	OK	OK	OK
AM-04-YERPHI	OK	OK	WARN
ANALY_BNL_T3	NO.DEF	NO.DEF	WARN
ANLASC	OK	NO.DEF	WARN
Australia-ATLAS	OK	OK	OK
BEIJING-LCG2	OK	OK	OK
BELLARMINE-ATLAS-T3	OK	NO.USE	NO.DEF
BNL-ATLAS	OK	OK	OK
Brandeis-Atlas-T3	NO.DEF	NO.DEF	WARN
BU_ATLAS_Tier2	OK	OK	OK
CA-ALBERTA-WESTGRID-T2	OK	OK	WARN
CA-MCGILL-CLUMEQ-T2	OK	OK	OK
CA-SCINET-T2	OK	OK	OK
CA-VICTORIA-WESTGRID-T2	OK	OK	OK
CERN-PROD	WARN	OK	OK
CSCS-LCG2	NO.USE	NO.USE	NO.USE
csTCDie	OK	OK	WARN
CYFRONET-LCG2	OK	OK	OK
DESY-HH	OK	OK	OK
DESY-ZN	OK	OK	OK

http://dashb-atlas-ssb.cern.ch/dashboard/request.py/siteview#currentView=DxU&highlight=false

Making color and status for DAU metric:

Panda analysis

- online
- brokeroff
- test
- offline
- NoQueue

DDM DA

- online
- excluded
- NoDDM



DAU metric

If both are green

OK

If at least one is red

NO.USE

If 1st one is grey

NO.DEF

Otherwise

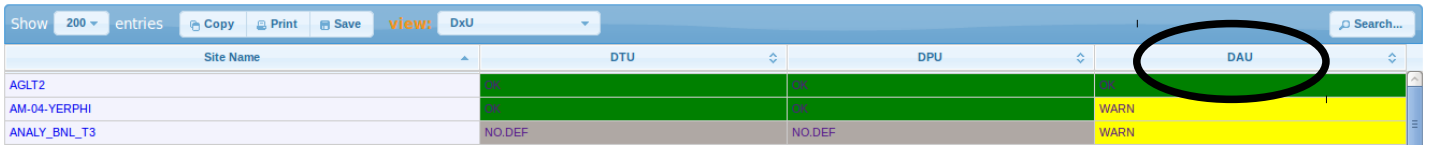
WARN

- DAU metric reflects both **Panda** and **DDM** status of the site
  - **status of Panda site** aggregated from ANALY queues states
  - **status of DDM** spacetoken important for analysis (e.g. SCRATCHDISK, DATADISK)
- DAU metric is a bit more complex than Panda site status (ID=564)

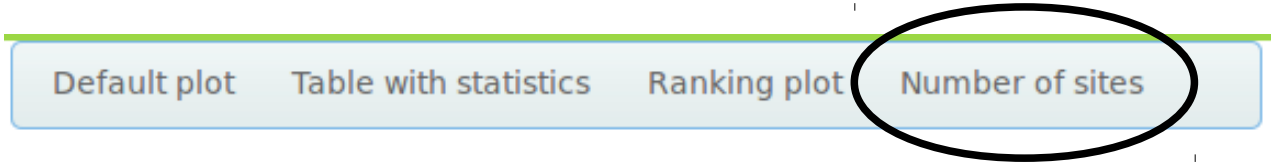
DAU – Making site readiness plot

[1] http://dashb-atlas-ssb.cern.ch/dashboard/request.py/siteview#currentView=DxU&highlight=false

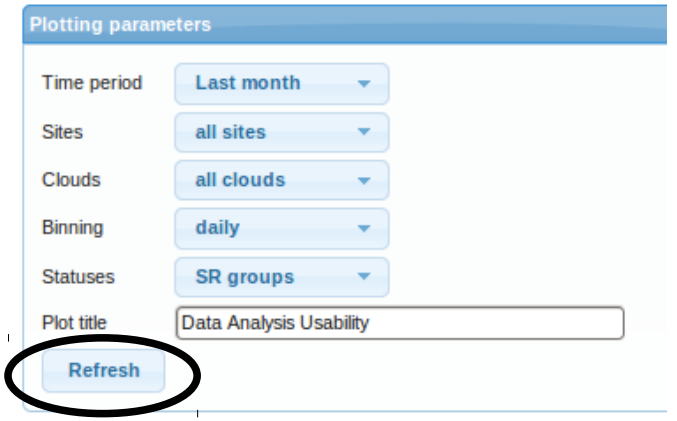
I. Use the link [1] and click on 'DAU'



II. click on 'Number of Sites'



III. Set the parameters of the plot and click on 'Refresh'

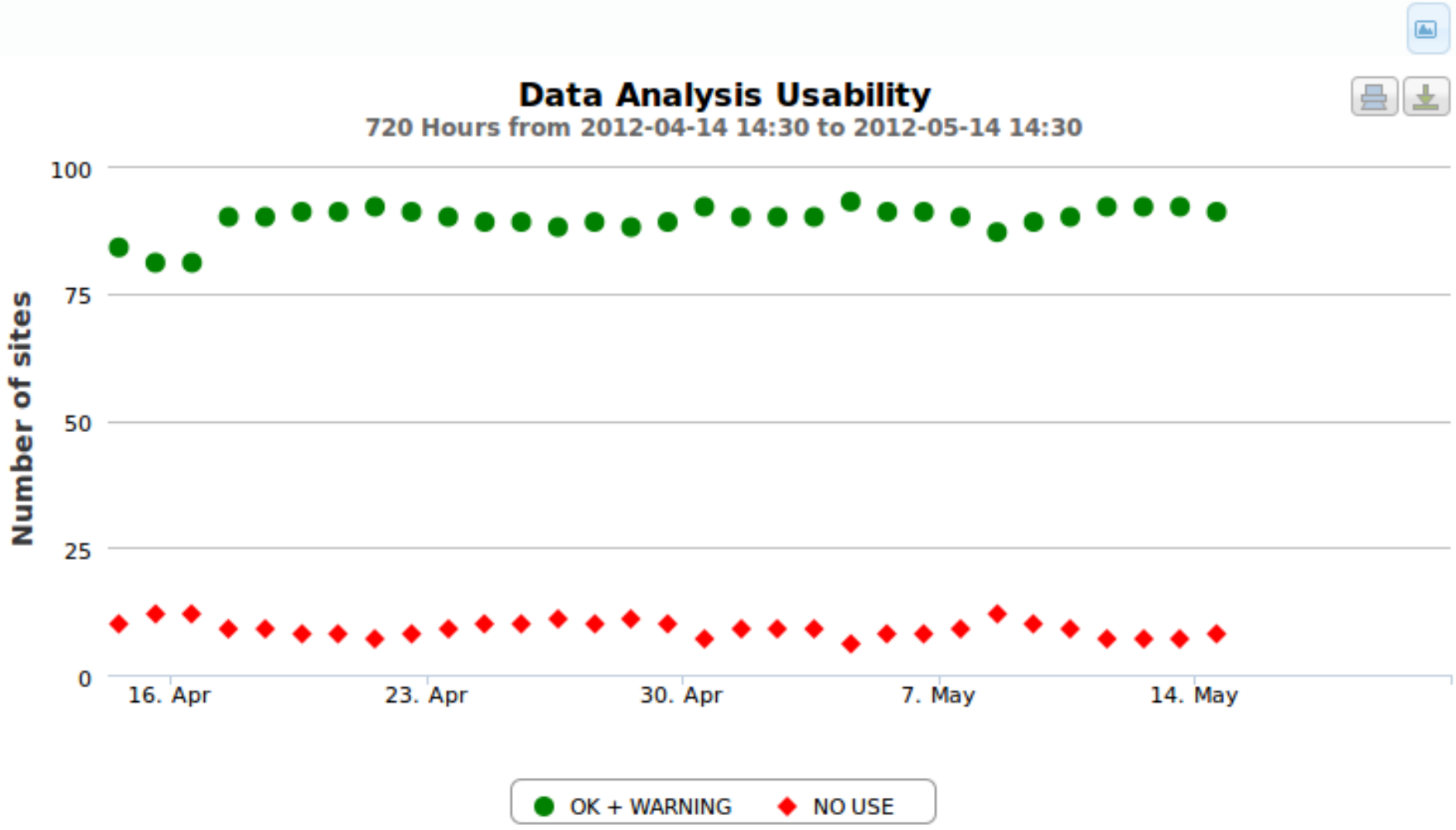


- **Site readiness plot feature available for every SSB metric!**

developed by the Dashboard SSB team (Ivan Dzhunov)

DAU - Site readiness plot

Output



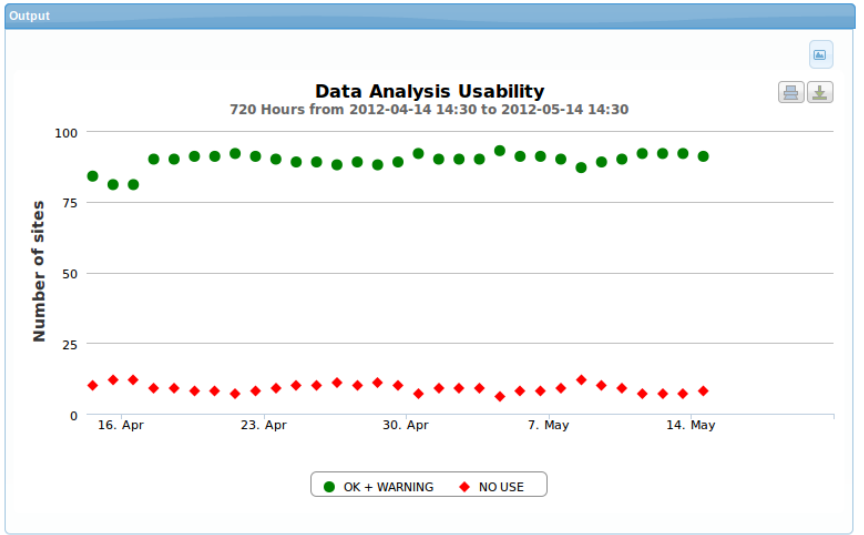
http://dashb-atlas-ssb.cern.ch/dashboard/request.py/sitereadinesssites?columnid=10010#time=720&start_date=&end_date...

- **Site readiness plot feature available for every SSB metric!**

Conclusion

- **A new metric to measure availability of a site for distributed analysis (DAU) available**
  - as of now Panda status analy (ID=564) is used for A/B/C/D evaluation
  - DAU metric provides an aggregated way to see status of a site - link available here

- **A new history plot available in SSB**
  - filtering available!
  - please try it out! link available here



Questions?

Please contact JH:
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