



Xrootd deployment task force

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WLCG Operations planning
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Mandate

XRootD deployment TF

Main goals of this task force are

- ▶ Provide support to the XRootD deployment
 - driven internally by each project: AAA, FAX
- ▶ Liaise the monitoring efforts , collect the monitoring requirements
- ▶ Identify common needs among CMS and ATLAS to be addressed uniformly

The Task Force timescale and efforts are strictly connected to the activities of the two projects AAA and FAX

Status of the deployment

	FAX (ATLAS)	AAA (CMS)
Deployed sites (access)	38 ⁽¹⁾	37 ⁽²⁾
In summary monitoring	38 ⁽³⁾	25 ⁽⁴⁾
In detailed monitoring	31 ^(*)	19 ^(*)

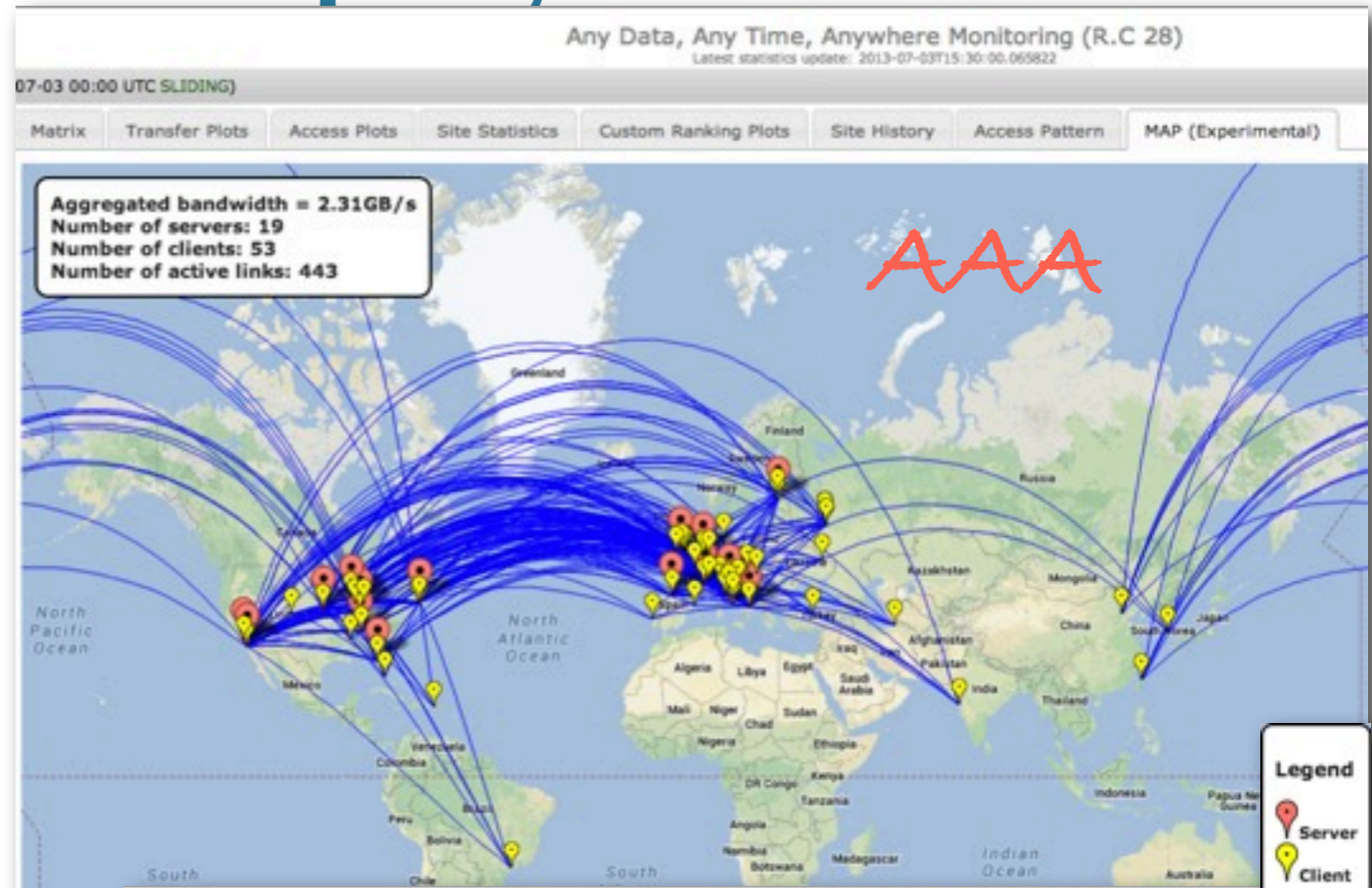
(1) <http://dashb-atlas-ssb.cern.ch/dashboard/request.py/siteview?view=Sonar#currentView=FAX+endpoints&highlight=false>

(2) from CMS SAM tests

(3) <http://atl-prod07.slac.stanford.edu:8080/display>

(4) <http://xrootd.t2.ucsd.edu/display>

(*) server domains showing monitoring activity in the past month

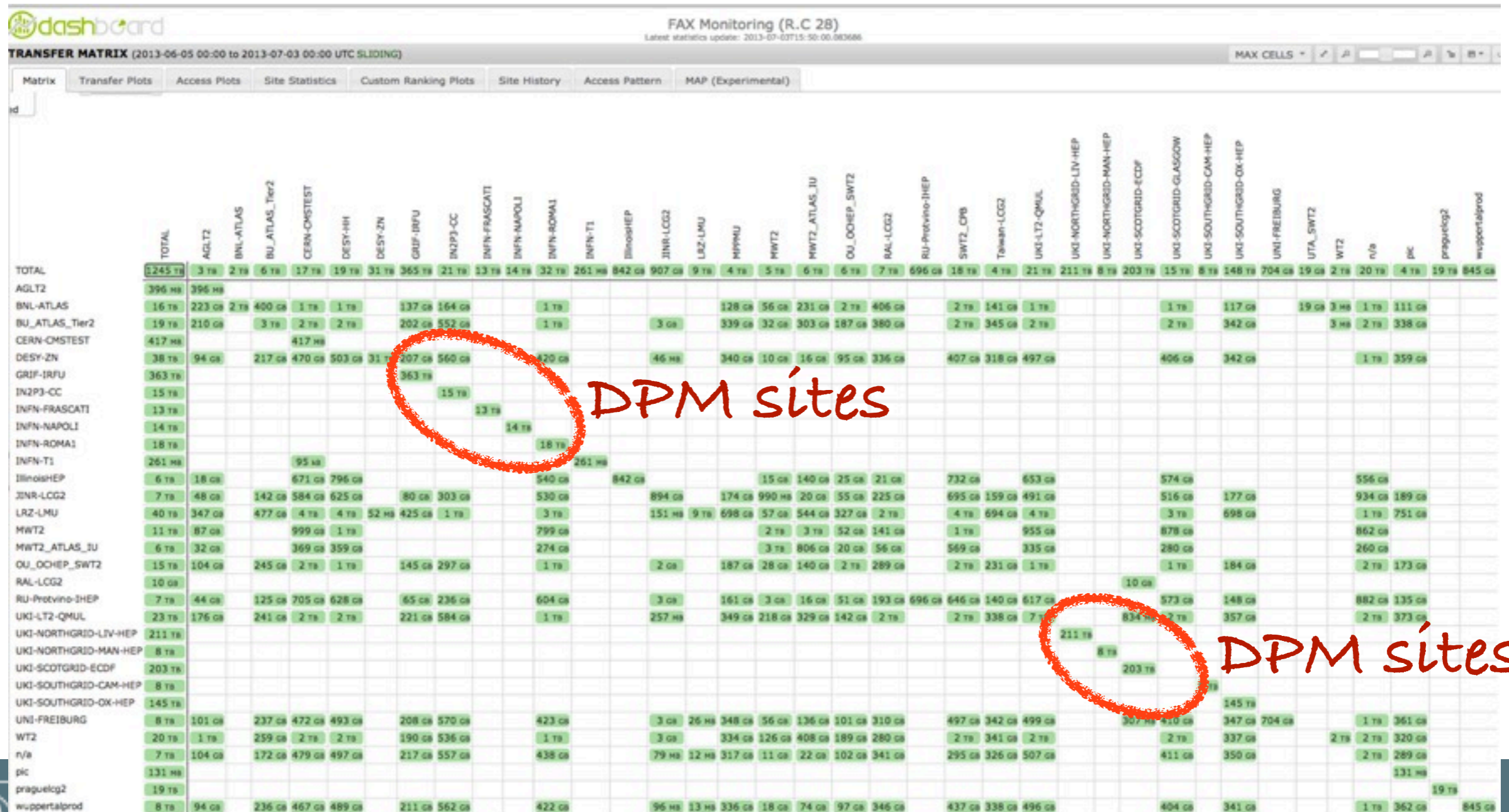


Monitoring of DPM-XRootD sites

We are following an issue related to detailed monitoring of DPM-XRootD sites

- ▶ The monitoring stream assigns client_domain = server_domain
 - Does not allow proper monitoring

Investigation is ongoing



WLCG Repository for third party plugins

Organized the distribution of external plugins in the WLCG repository

- ▶ available at <http://linuxsoft.cern.ch/wlcg/>

Plugins already in:

- ▶ VOMS-XRootD plugin (from G. Ganis)
- ▶ gled-xrdmon - the Collector of UDP detailed monitoring packets (from M. Tadel)

Highly recommended to include also the dCache-XRootD monitoring plugin for f-stream (developed by I. Vukotic from FAX)

- ▶ Would help activation of the detailed monitoring stream also in CMS sites

VO filter in GLED Collector

WLCG sites serving multi-VOs could expose the activity of users from other VOs (not ATLAS nor CMS) in the detailed monitoring

- ▶ If disk servers are shared among multi-VOs

Preferred solution to skim the monitoring information from other VOs is to filter on the `user_VO` at the level of GLED collector

- ▶ To be followed in the next months

Registration in GOCDDB/OIM

Still few sites have registered the services in GOCDDB/OIM

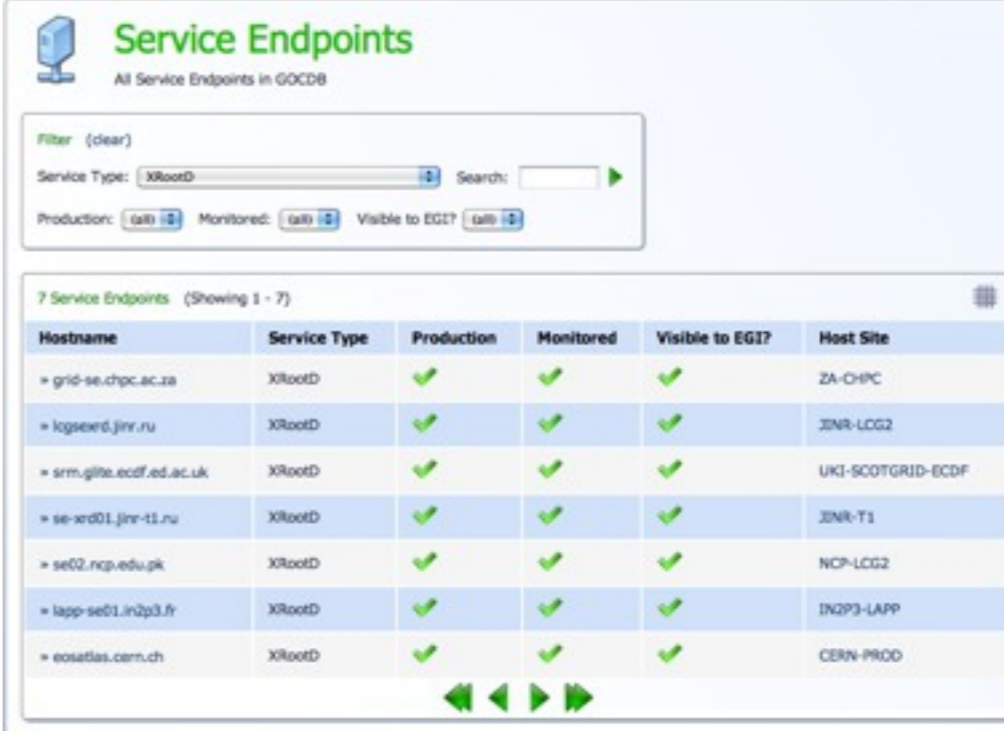
- ▶ Two service types are available in GOCDDB
 - “XRootD”: XRootD entry point for the SE (including site local redirector)
 - “XRootD.redirector”: regional/global redirector

Sites having deployed the XRootD service should publish the information in order to

- ▶ Guarantee consistency of the information system adopted in WLCG: GOCDDB/OIM
- ▶ Allow to implement service specific SAM tests (analogous to existing SRM tests)
- ▶ Flag service downtimes to be used by VO's automated actions

TF desires to solicit this action through WLCG OC

- ▶ will follow its evolution in the next months



Service Endpoints
All Service Endpoints in GOCDDB

Filter (clear)
Service Type: XRootD Search:
Production: Monitored: Visible to EGI?:

7 Service Endpoints (Showing 1 - 7)

Hostname	Service Type	Production	Monitored	Visible to EGI?	Host Site
= grid-se.chpc.ac.za	XRootD	✓	✓	✓	ZA-CHPC
= logseird.jinr.ru	XRootD	✓	✓	✓	JINR-LCG2
= srm.glas.ecdf.ed.ac.uk	XRootD	✓	✓	✓	UKI-SCOTGRID-ECDF
= se-xrd01.jinr-t1.ru	XRootD	✓	✓	✓	JINR-T1
= se02.ncp.edu.pk	XRootD	✓	✓	✓	NCPI-LCG2
= lapp-se01.in2p3.fr	XRootD	✓	✓	✓	IN2P3-LAPP
= eosatlas.cern.ch	XRootD	✓	✓	✓	CERN-PROD

Plan summary

- ▶ Continue to follow the XRootD deployment
 - Several sites will join the federations in next months
- ▶ Verify/Validate the monitoring workflow
 - The detailed monitoring still need to be activated in several sites
 - ✳ Support the testing/evolution of the plugins for detailed monitoring
 - Collect feedback/requirements from current users/site admins to include new features in monitoring tools
- ▶ Register XRootD service (including redirectors) in GOCDDB/OIM