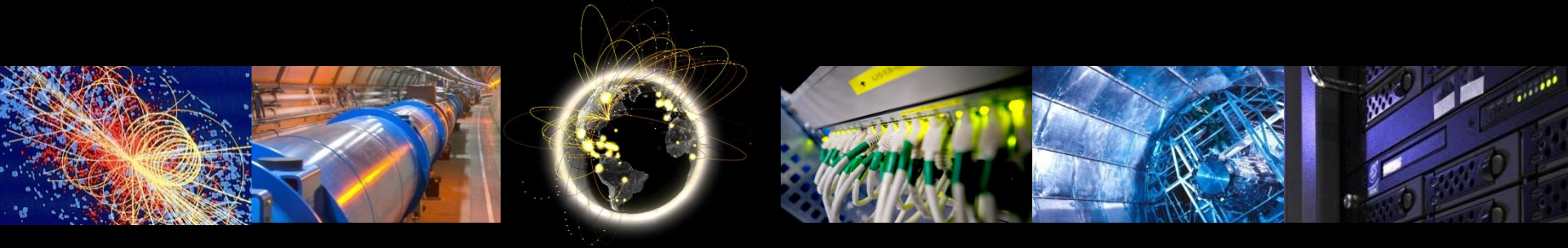


# LHCOPN monitoring update

John Shade /CERN IT-CS

May 2012 LHCOPN/LHCONE Meeting Stockholm



# perfSONAR-PS Dashboard

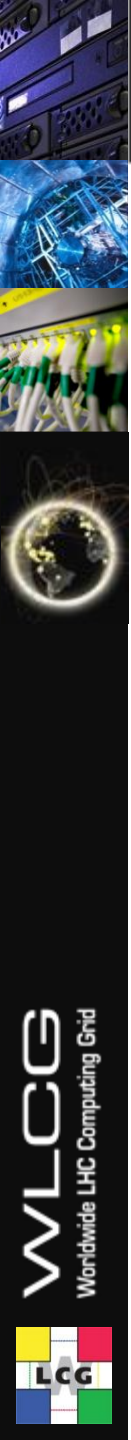
- Tom's dashboard is much greener now:

LHCOPN Cloud Throughput Matrix

	---	0	1	2	3	4	5	6	7	8	9	10	11
0:BNL (lhcmn.bnl.gov)	---	0.00	0.37	0.19	0.46	0.72	0.50	0.47	0.00	0.36	0.45	0.00	
1:ASGC (lhc-bandwidth.twgrid.org)	0.85	---	0.23	0.00	0.00	0.43	0.06	0.22	0.05	0.01	0.00	0.10	
2:CC-IN2P3 (ccperfsnar-lhcopn.in2p3.fr)	0.29	0.07	---	0.93	0.59	0.04	0.84	0.93	0.19	0.06	0.92	0.34	
3:CERN (perfsnar-ps.cern.ch)	0.74	0.10	0.94	---	0.90	0.70	0.93	0.93	0.88	0.90	0.66	0.47	
4:CNAF (perfsnar-ps.cnaf.infn.it)	0.41	0.02	0.39	0.36	---	0.50	0.41	0.77	0.39	0.52	0.28	0.37	
5:FNAL (psonar1.fnal.gov)	0.91	0.00	0.51	0.47	0.41	---	0.42	0.44	0.00	0.41	0.00	0.00	
6:KIT (perfsnar-de-kit.gridka.de)	0.44	0.03	0.94	0.27	0.93	0.47	---	0.92	0.00	0.91	0.93	0.21	
7:NDGF (perfsnar-ps2.ndgf.org)	0.57	0.00	0.62	0.17	0.63	0.00	0.72	---	0.00	0.58	0.87	0.00	
8:PIC (perfsnar-ps-bandwidth.pic.es)	0.45	0.02	0.92	0.20	0.76	0.35	0.91	0.87	---	0.00	0.90	0.30	
9:RAL (perfsnar-ps01.gridpp.rl.ac.uk)	0.16	0.08	0.54	0.14	0.49	0.24	0.52	0.58	0.00	---	0.62	0.17	
10:SARA (ps.lhcopn-ps.sara.nl)	0.23	0.00	0.33	0.50	0.31	0.53	0.57	0.71	0.00	0.45	---	0.00	
11:TRIUMF (ps-bandwidth.lhcopn-mon.triumf.ca)	0.57	0.01	0.36	0.00	0.27	0.00	0.34	0.27	0.21	0.33	0.40	---	

LHCOPN Cloud Latency Matrix

	---	0	1	2	3	4	5	6	7	8	9	10	11
0:BNL (lhcmn.bnl.gov)	---	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1:ASGC (lhc-latency.twgrid.org)	5.0	0.0	1.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	1.0	0.0	1.0
2:CC-IN2P3 (ccperfsnar-lhcopn.in2p3.fr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0
3:CERN (perfsnar-ps2.cern.ch)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4:CNAF (perfsnar-ow.cnaf.infn.it)	3.0	0.0	2.0	0.0	0.0	1.0	0.0	1.0	3.0	5.0	2.0	0.0	1.0
5:FNAL (psonar2.fnal.gov)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	7.0	0.0	0.0	0.0
6:KIT (perfsnar2-de-kit.gridka.de)	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	6.0	0.0	0.0	0.0
7:NDGF (perfsnar-ps.ndgf.org)	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8:PIC (perfsnar-ps-latency.pic.es)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9:RAL (perfsnar-ps02.gridpp.rl.ac.uk)	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0	0.0	0.0	1.0
10:SARA (ps.lhcopn-ps.sara.nl)	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11:TRIUMF (ps-latency.lhcopn-mon.triumf.ca)	0.0	1.0	2.0	0.0	2.0	4.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0

- 
- New feature is the ability to create e-mail alerts on perfSONAR-PS processes running at sites
  - Good way to ensure services are up and running without having to keep an eye on them
  - Need to be an authorized user

Visit dashboard so that Tom has your certificate

Some European certificates seem to cause problems

# ALARMS

- Main Page
- All Clouds
- Individual Clouds:
  - USATLAS
  - USCMS
  - IT
  - LHCOPN
  - LHCONE
  - CA-ATLAS
  - UK
- Inter Cloud Tests:
  - AGLT2-IT
  - FR-US
- Primitive Services
- perfSonar Sites
- List of Hosts
- List of Matrices
- List of Alarms
- List of Clouds
- List of Sites
- List of Schedulers
- Administrator Page
- Manage Users
- Define or Edit Alarms
- RACF dashboard
- perfSONAR dashboard (old)
- RACF dashboard (test)
- perfSONAR dashboard (old,test)
- Dashboard documentation

## Registered Alarms

[Click here to create new alarm](#)

<del>Primitive Services at AGLT2</del>	edit	delete
Primitive services at WT2	edit	delete
Primitive Services at BNL	edit	delete
Primitive Services at MWT2	edit	delete
Primitive services at NET2	edit	delete
Primitive Services at OU	edit	delete
Primitive Services at UTA	edit	delete
Primitive Services ar CERN	edit	delete

## Edit Alarm

Alarm Name	Primitive Services ar CERN
Alarm Description	Primitive Services ar CERN
Check Interval	10
Notification Interval	1440
Number of consecutive failures	3
Number of consecutive succeses	3
Number of Channels for Warning	1
Number of Channels for Critical	2
Alarm Url	/exda/?id=14&interval=4&page=119&
Alarm Text	<pre>One or more perfSONAR-PS services at CERN is not OK.  This alarm has been sent from Tom's dashboard.</pre>

Save

Status as of: Sun Apr 29 11:14:19 EDT 2012

## Status of Alarm Primitive Services ar CERN

perfSONAR_pSB perfsonar-ps2.cern.ch	perfSONAR_hLS perfsonar-ps2.cern.ch	owamp_port_861 perfsonar-ps2.cern.ch	owamp_port_8569 perfsonar-ps2.cern.ch
perfSONAR_pSB perfsonar-ps.cern.ch	perfSONAR_hLS perfsonar-ps.cern.ch	NDT_port_7123 perfsonar-ps.cern.ch	bwctl_port_4823 perfsonar-ps.cern.ch
bwctl_port_8570 perfsonar-ps.cern.ch	NDT_port_3001 perfsonar-ps.cern.ch		

Last notification was sent on 1969-12-31 19:00:00.0

[Click here to edit this alarm](#)

[Click here to see alarm history](#)

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# Example e-mail alert

## WARNING: Primitive Services at CERN

perfsonar@grid21.racf.bnl.gov



To: John Shade

29 April 2012 0

One or more perfSONAR-PS services at CERN is not OK.

This alarm has been sent from Tom's dashboard.

perfSONAR\_pSB at perfsonar-ps2.cern.ch ... OK <https://perfsonar.usatlas.bnl.gov:8443/exda/?id=1963&interval=4&page=5>  
perfSONAR\_hLS at perfsonar-ps2.cern.ch ... OK <https://perfsonar.usatlas.bnl.gov:8443/exda/?id=1964&interval=4&page=5>  
owamp\_port\_861 at perfsonar-ps2.cern.ch ... OK <https://perfsonar.usatlas.bnl.gov:8443/exda/?id=1965&interval=4&page=5>  
owamp\_port\_8569 at perfsonar-ps2.cern.ch ... OK <https://perfsonar.usatlas.bnl.gov:8443/exda/?id=1966&interval=4&page=5>  
perfSONAR\_pSB at perfsonar-ps.cern.ch ... OK <https://perfsonar.usatlas.bnl.gov:8443/exda/?id=1967&interval=4&page=5>  
perfSONAR\_hLS at perfsonar-ps.cern.ch ... WARNING <https://perfsonar.usatlas.bnl.gov:8443/exda/?id=1968&interval=4&page=5>  
NDT\_port\_7123 at perfsonar-ps.cern.ch ... OK <https://perfsonar.usatlas.bnl.gov:8443/exda/?id=1969&interval=4&page=5>  
bwctl\_port\_4823 at perfsonar-ps.cern.ch ... OK <https://perfsonar.usatlas.bnl.gov:8443/exda/?id=1970&interval=4&page=5>  
bwctl\_port\_8570 at perfsonar-ps.cern.ch ... OK <https://perfsonar.usatlas.bnl.gov:8443/exda/?id=1971&interval=4&page=5>  
NDT\_port\_3001 at perfsonar-ps.cern.ch ... OK <https://perfsonar.usatlas.bnl.gov:8443/exda/?id=1972&interval=4&page=5>

Link to alarm status page

[/exda/?id=14&interval=4&page=119&](https://perfsonar.usatlas.bnl.gov:8443/exda/?id=14&interval=4&page=119&)

Sat Apr 28 19:30:38 EDT 2012

# Some News

- Most of the LHCOPN perfSONAR-PS instances are participating in Shawn McKee's effort to get baseline monitoring in place for LHCONE
- PIC have not yet tested perfSONAR-PS and perfSONAR-MDM interoperability
  - This was requested under managed service support, but no answer was received
- Jason has offered to hold a workshop on how to use the perfSONAR toolkit for troubleshooting network problems...



# References

- Top tips for troubleshooting (typically firewall problems) are available on the LHCONE & LHCONE perfSONAR Twikis:
  - <https://twiki.cern.ch/twiki/bin/view/LHCOPN/PerfsonarPS>
  - <https://twiki.cern.ch/twiki/bin/view/LHCONE/SiteList>
- perfSONAR Toolkit Page:  
<http://psps.perfsonar.net/toolkit/>
- Tom's Dashboard:  
<https://130.199.185.78:8443/exda/?page=25&cloudName=LHCOPN>



*That's all Folks!*