

RO-07-NIPNE

present and future

by Serban Constantinescu, Teodor Ivanoica and Mihai Ciubancan

RO-07-NIPNE

- Present -short description
 - Is a heterogeneous site ~1100CPU
 - Storage capacity 170TB
 - 2 CE's – CREAM-CE, lcg-CE
 - 1 DPM server(head node)
 - 7 DPM disk servers
 - A top-BDII machine
 - 3 LCG VO's - alice, atlas, lhcb (2 active)
 - 2 Local VO's – gridifin, ifops

RO-07-NIPNE

EGI Accounting Portal - Mozilla Firefox
EGI Accounting Portal IFIN-HH www4.egee.cesga.es/accounting/country_view.html 6:25 PM Mihai

EGI ACCOUNTING PORTAL

CESGA

GLOBAL View VO MANAGER View VO MEMBER View SITE ADMIN View USER View REPORTS METRICS PORTAL LINKS

Refresh

RO-07-NIPNE Normalised CPU time (kSI2K) by SITE and VO.
ALL VOs. January 2011 - November 2011.

The following table shows the distribution of Normalised CPU time (kSI2K) grouped by SITE and VO.

SITE	alice	atlas	dteam	gridifin	ifops	lhcb	ops	Total	%
RO-07-NIPNE	47	4,005,134	0	134,546	84	814,732	150	4,954,693	100.00%
Total	47	4,005,134	0	134,546	84	814,732	150	4,954,693	
Percentage	0.00%	80.84%	0.00%	2.72%	0.00%	16.44%	0.00%		

Click here for a csv dump of this table
Click here for a EXTENDED csv dump

The information in the previous table is also shown in the following graph.

RO-07-NIPNE Normalised CPU time (kSI2K) by SITE and VO

RO-07-NIPNE

European Grid Infrastructure (C) CESGA 2010 W3C HTML 4.01

RO-07-NIPNE

EGI Accounting Portal - Mozilla Firefox

EGI Accounting Portal IFIN-HH www4.egee.cesga.es/accounting/country_view.html Google

EGI ACCOUNTING PORTAL

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GLOBAL View VO MANAGER View VO MEMBER View SITE ADMIN View USER View REPORTS METRICS PORTAL LINKS

India Ireland Israel Italy Japan Latvia Lithuania Malaysia Mexico Moldova Montenegro Netherlands New Zealand Norway Pakistan Panama Philippines Poland Portugal Puerto Rico Romania NIHAM RO-01-ICI RO-02-NIPNE RO-03-UPB RO-07-NIPNE RO-08-UVT RO-09-UTCN

RO-07-NIPNE Normalised CPU time (HEPSPEC06) by SITE and VO.
ALL VOs. January 2011 - November 2011.

The following table shows the distribution of Normalised CPU time (HEPSPEC06) grouped by SITE and VO.

SITE	alice	atlas	dteam	gridifin	ifops	lhcb	ops	Total	%
RO-07-NIPNE	188	16,020,536	0	538,184	336	3,258,928	600	19,818,772	100.00%
Total	188	16,020,536	0	538,184	336	3,258,928	600	19,818,772	
Percentage	0.00%	80.84%	0.00%	2.72%	0.00%	16.44%	0.00%		

[Click here for a csv dump of this table](#)
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The information in the previous table is also shown in the following graph.

RO-07-NIPNE Normalised CPU time (HEPSPEC06) by SITE and VO

RO-07-NIPNE



(C) CESGA 2010 W3C HTML 4.01

RO-07-NIPNE

EGI Accounting Portal - Mozilla Firefox 6:33 PM Mihai

EGI Accounting Portal IFIN-HH www4.egee.cesga.es/accounting/tier2_view.html Google

EGI ACCOUNTING PORTAL

CESGA

GLOBAL View VO MANAGER View VO MEMBER View SITE ADMIN View USER View REPORTS METRICS PORTAL LINKS

Tier1
Tier2
Australia
Austria
Belgium
Brazil
Canada
China
Czech Republic
Estonia
Finland
France
Germany
Greece
Hungary
India
Israel
Italy
Japan
Norway
Pakistan
Poland
Portugal
Republic of Korea
Romania
RO-LCG
Russian Federation

RO-LCG Normalised CPU time (HEPSPEC06) by SITE and VO.
ALL VOs. January 2011 - November 2011.

The following table shows the distribution of Normalised CPU time (HEPSPEC06) grouped by SITE and VO.

SITE	alice	atlas	dteam	gridifin	hone	iflops	lhcb	ops	ops.vo.egee-see.org	Total	%
RO-02-NIPNE	0	2,402,968	0	0	221,236	260	0	424		0	2,624,888 6.38%
RO-07-NIPNE	188	16,020,536	0	538,184	0	336	3,258,928	600		0	19,818,772 48.18%
RO-11-NIPNE	0	0	0	0	0	132	934,164	228		0	934,524 2.27%
RO-13-ISS	10,001,336	0	0	0	0	0	0	488		0	10,001,824 24.31%
RO-14-ITIM	0	1,981,412	0	0	0	0	0	168		0	1,981,580 4.82%
RO-16-UAIC	2,936	5,770,916	0	0	0	36	0	580		0	5,774,468 14.04%
Total	10,004,460	26,175,832	0	538,184	221,236	764	4,193,092	2,488		0	41,136,056
Percentage	24.32%	63.63%	0.00%	1.31%	0.54%	0.00%	10.19%	0.01%		0.00%	

Click here for a csv dump of this table
Click here for a EXTENDED csv dump
go to top ▲

The information in the previous table is also shown in the following graph.

RO-LCG Normalised CPU time (HEPSPEC06) by SITE and VO

RO-02-NIPNE
RO-07-NIPNE

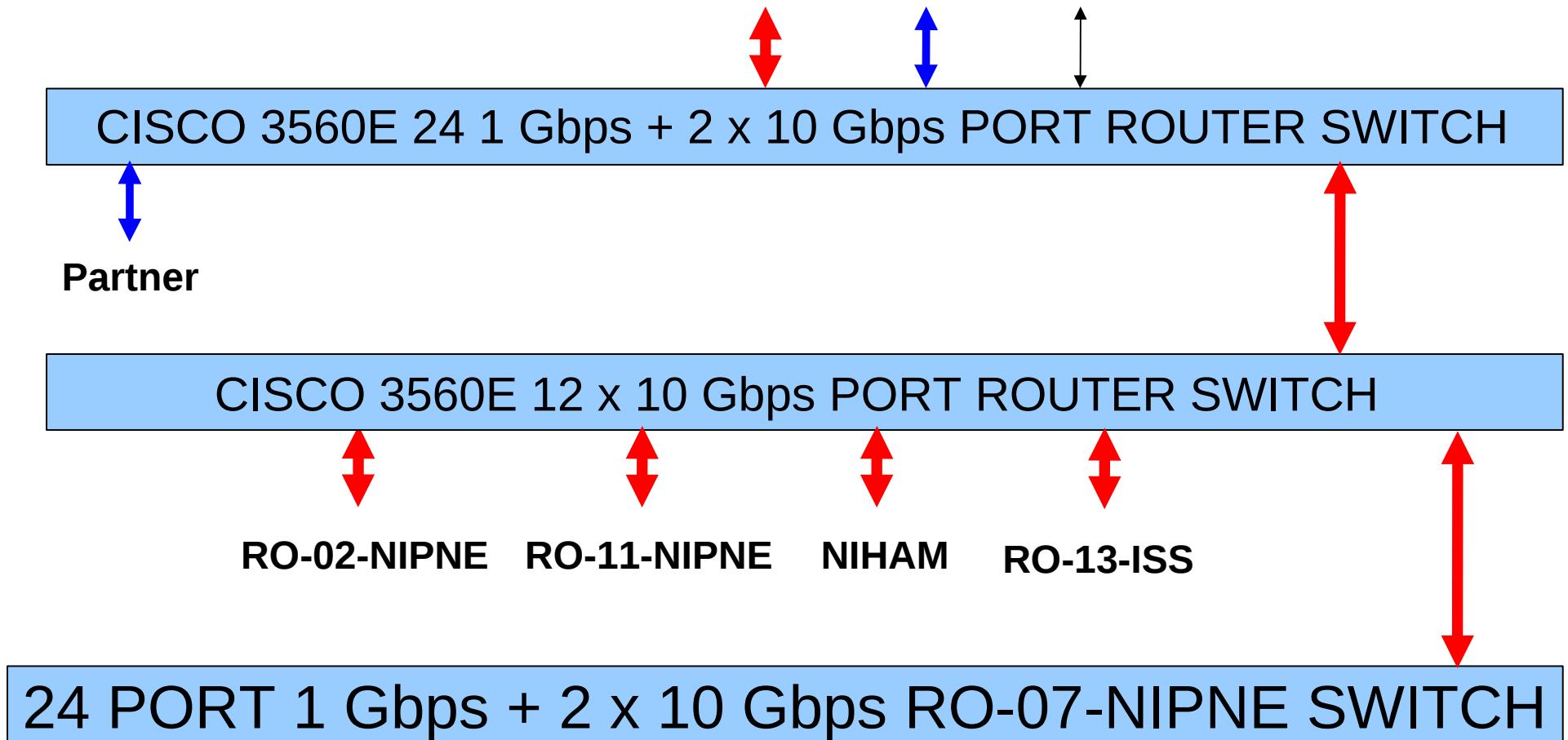
European Grid Infrastructure (C) CESGA 2010 W3C HTML 4.01

RO-07-NIPNE

- Present -general network view

RO-07-NIPNE

10 Gbps FO + 1 Gbps FO + 100 Mbps FO to ROEDUNET

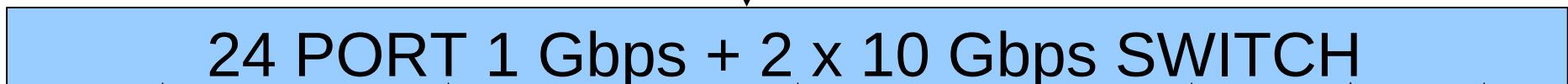


RO-07-NIPNE

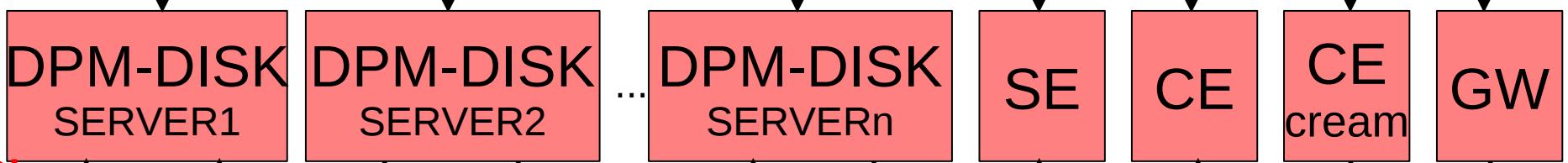
- Present - RO-07-NIPNE network structure

RO-07-NIPNE

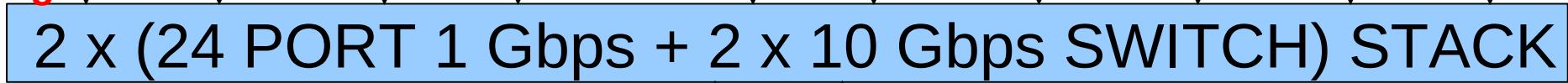
10 Gbps to WLAN



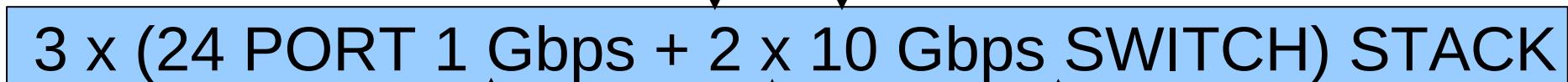
1 Gbps



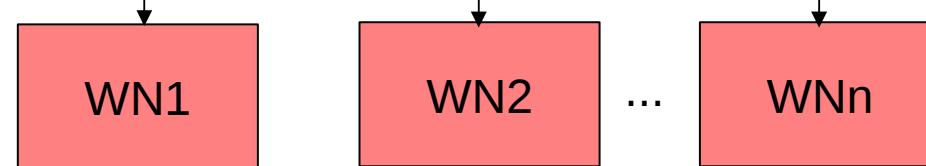
n X 1 Gbps
bonding



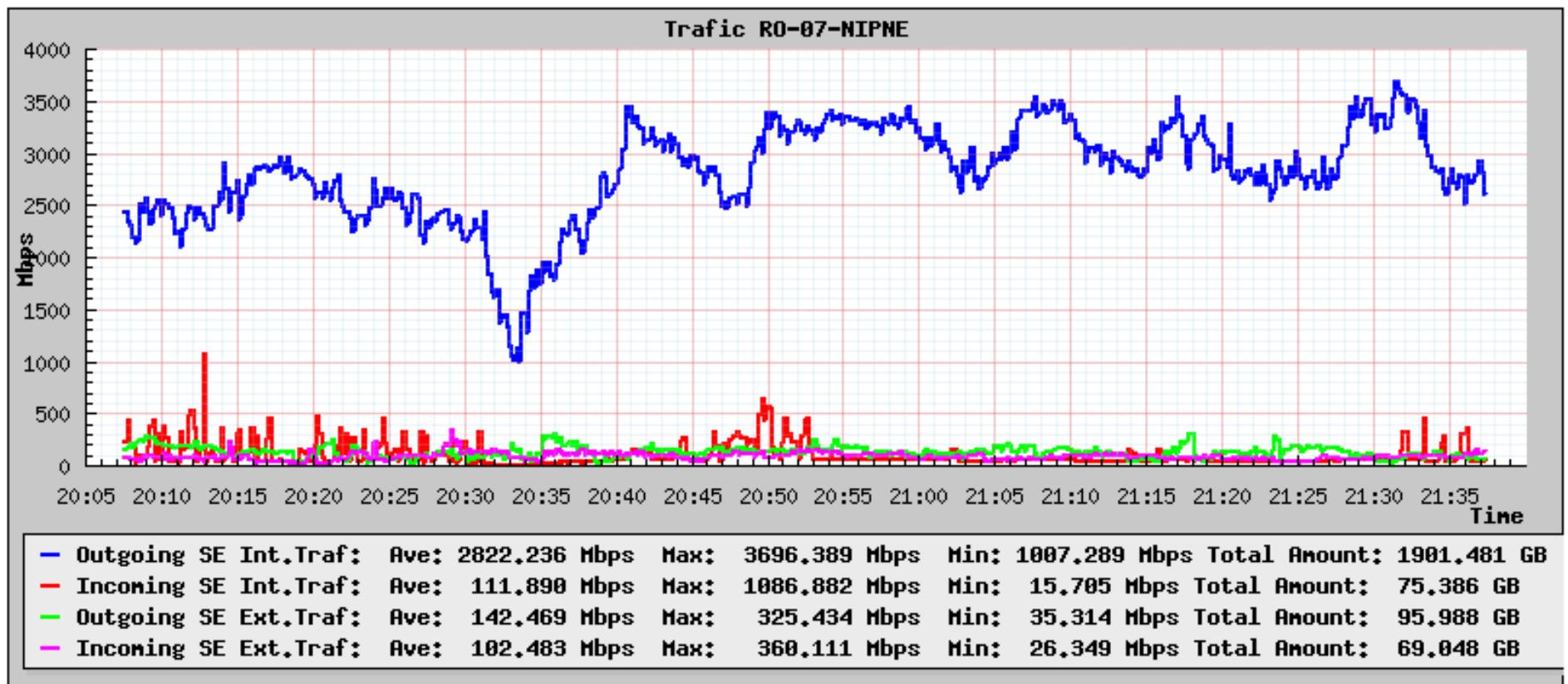
2 X 10 Gbps



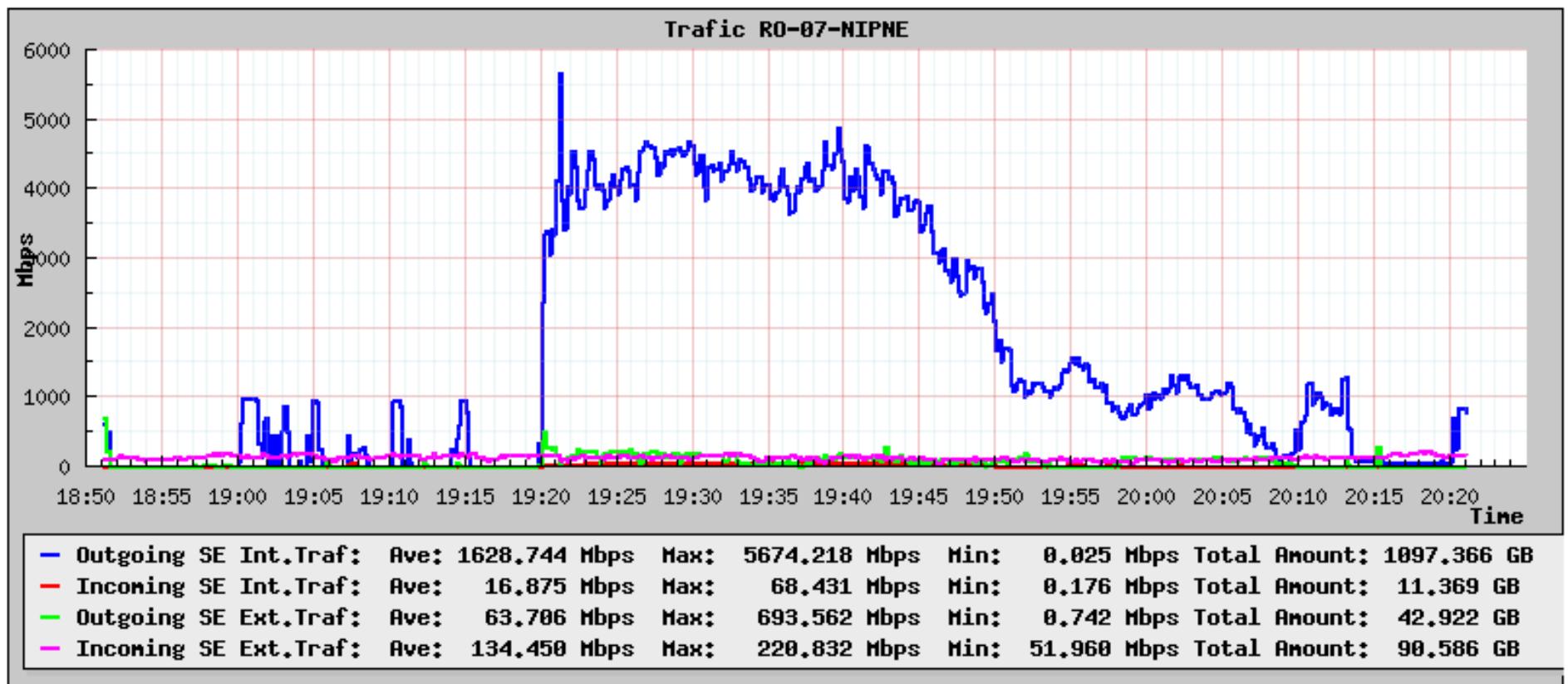
1 Gbps



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- Present – monitoring
 - own VO for monitoring – ifops
 - VOMS server (for ifops and gridifin)
 - WMS for submitting the tests
 - LFC catalog
 - Nagios monitoring - most of the RO-LCG sites and other romanian sites

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Nagios Core - Mozilla Firefox

EGI Accounting Portal IFIN-HH Nagios Core

7:06 PM Mihai

tbitui.nipne.ro/nagios/

Nagios®

- General
 - Home
 - Documentation
- Current Status
 - Tactical Overview
 - Map
 - Hosts
 - Services
- Host Groups
 - Summary
 - Grid
- Service Groups
 - Summary
 - Grid
- Problems
 - Services (Unhandled)
 - Hosts (Unhandled)
 - Network Outages
- Quick Search:

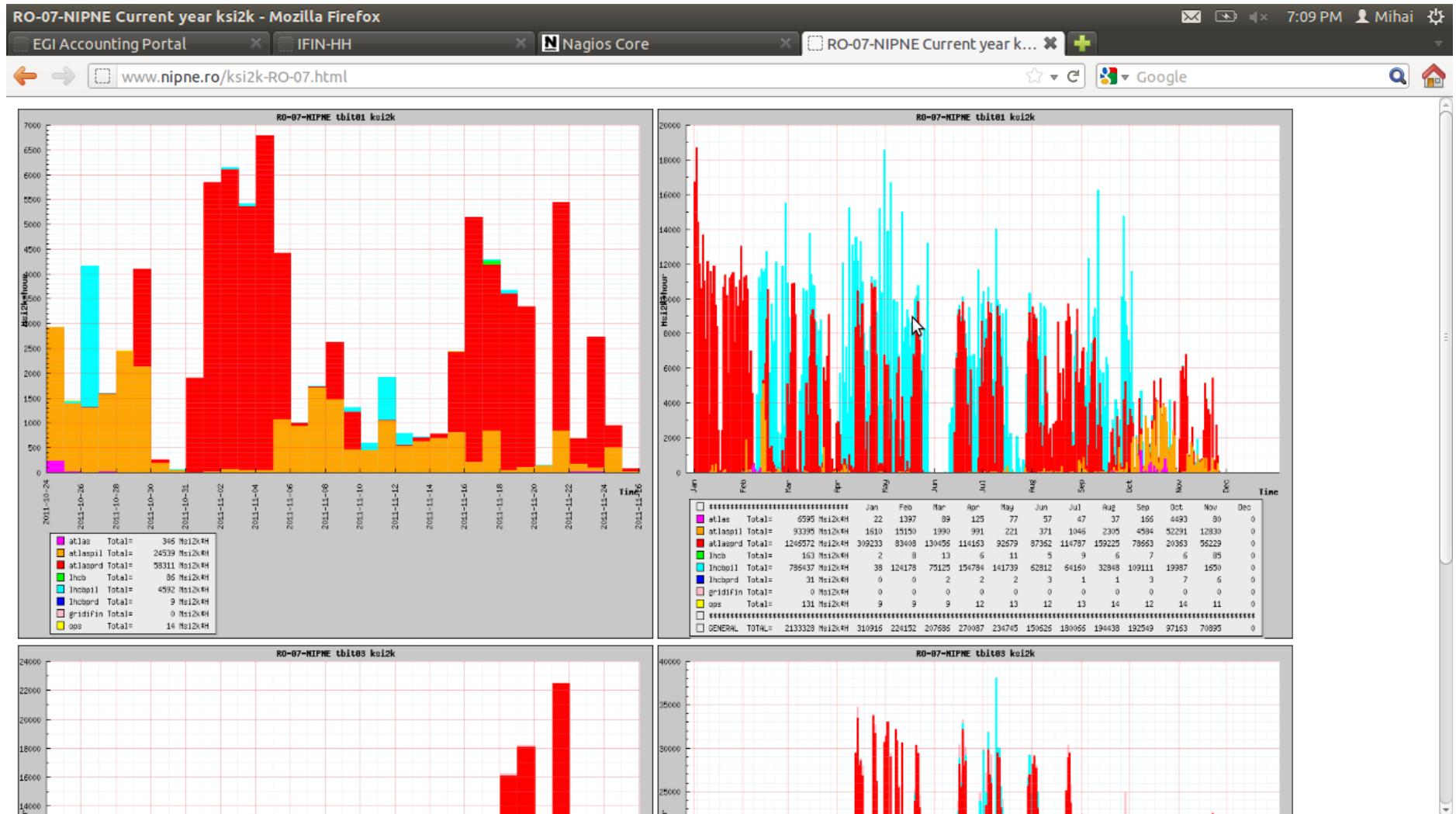
- Reports
 - Availability
 - Trends
 - Alerts
 - History
 - Summary
 - Histogram
 - Notifications
 - Event Log
- System
 - Comments
 - Downtime
 - Process Info
 - Performance Info

Host	Service	Status	Last Check	Duration	Critical	Message	
tbat01.nipne.ro	org.sam.CE-JobState-/ifops/Role-lcqadmin	OK	11-27-2011 19:04:19	6d 16h 1m 41s	1/3	OK: Done (Success) - Submitted [2011-11-27T18:27:04]	
	org.sam.CE-JobSubmit-/ifops/Role-lcqadmin	OK	11-27-2011 19:04:19	6d 16h 2m 41s	1/3	OK: success.	
	org.sam.WN-CAver-/ifops/Role-lcqadmin	OK	11-27-2011 19:02:59	101d 8h 58m 50s	1/3	wn001dpp.nipne.ro: OK	
	org.sam.WN-Csh-/ifops/Role-lcqadmin	OK	11-27-2011 19:02:58	193d 10h 30m 25s	1/3	wn001dpp.nipne.ro: OK	
	org.sam.WN-Rep-/ifops/Role-lcqadmin	OK	11-27-2011 19:04:58	2d 3h 48m 54s	1/3	wn001dpp.nipne.ro: OK	
	org.sam.WN-RepCr-/ifops/Role-lcqadmin	OK	11-27-2011 19:04:59	2d 3h 48m 53s	1/3	wn001dpp.nipne.ro: OK: File was copied to SE and registered in LFC lfc.nipne.ro. CLI	
	org.sam.WN-RepDel-/ifops/Role-lcqadmin	OK	11-27-2011 19:04:59	2d 3h 48m 53s	1/3	wn001dpp.nipne.ro: OK: Replicas for [lfn:/grid/ifops/SAM/sam-lcg-rm-cr-wn001dpp.nipne.ro.111127162819.4746788] were deleted. CLI	
	org.sam.WN-RepFree-/ifops/Role-lcqadmin	OK	11-27-2011 19:04:59	2d 3h 48m 53s	1/3	wn001dpp.nipne.ro: OK	
	org.sam.WN-RepGet-/ifops/Role-lcqadmin	OK	11-27-2011 19:04:58	2d 3h 48m 54s	1/3	wn001dpp.nipne.ro: OK: File was copied from SRM. Diff successful. CLI	
	org.sam.WN-RepServ-/ifops/Role-lcqadmin	OK	11-27-2011 19:03:11	195d 8h 2m 45s	1/3	wn001dpp.nipne.ro: OK: LCG_GFAL_INFOSYS is set to bdii.nipne.ro	
	org.sam.WN-RepRep-/ifops/Role-lcqadmin	OK	11-27-2011 19:04:59	2d 3h 48m 53s	1/3	tbat01.nipne.ro	
	org.sam.WN-SoftVer-/ifops/Role-lcqadmin	OK	11-27-2011 19:02:59	195d 8h 2m 45s	1/3	wn001dpp.nipne.ro: OK: 3.2.0	
	ro.nipne.CE-CertLifetime	OK	11-27-2011 19:03:13	1d 0h 35m 39s	1/3	CERT LIFETIME OK - Certificate will expire in 57 days.	
	tbat03.nipne.ro	org.sam.CREAMCE-JobState-/ifops/Role-lcqadmin	OK	11-27-2011 19:04:30	0d 6h 1m 22s	1/3	OK: Done (Success) - Submitted [2011-11-27T18:27:34]
		org.sam.CREAMCE-JobSubmit-/ifops/Role-lcqadmin	OK	11-27-2011 19:03:11	33d 4h 4m 57s	1/3	OK: success.
org.sam.WN-CAver-/ifops/Role-lcqadmin		OK	11-27-2011 19:02:59	101d 8h 58m 50s	1/3	wn018dpp.nipne.ro: OK	
org.sam.WN-Csh-/ifops/Role-lcqadmin		OK	11-27-2011 19:02:59	194d 7h 15m 8s	1/3	wn018dpp.nipne.ro: OK	
org.sam.WN-Rep-/ifops/Role-lcqadmin		OK	11-27-2011 19:04:59	2d 3h 48m 53s	1/3	wn018dpp.nipne.ro: OK	
org.sam.WN-RepCr-/ifops/Role-lcqadmin		OK	11-27-2011 19:04:59	2d 3h 48m 53s	1/3	wn018dpp.nipne.ro: OK: File was copied to SE and registered in LFC lfc.nipne.ro. CLI	
org.sam.WN-RepDel-/ifops/Role-lcqadmin		OK	11-27-2011 19:04:59	2d 3h 48m 53s	1/3	wn018dpp.nipne.ro: OK: Replicas for [lfn:/grid/ifops/SAM/sam-lcg-rm-cr-wn018dpp.nipne.ro.111127162833.15909712] were deleted. CLI	
org.sam.WN-RepFree-/ifops/Role-lcqadmin		OK	11-27-2011 19:04:58	2d 3h 48m 54s	1/3	wn018dpp.nipne.ro: OK	
org.sam.WN-RepGet-/ifops/Role-lcqadmin		OK	11-27-2011 19:04:58	2d 3h 48m 54s	1/3	wn018dpp.nipne.ro: OK: File was copied from SRM. Diff successful. CLI	
org.sam.WN-RepServ-/ifops/Role-lcqadmin		OK	11-27-2011 19:02:59	185d 8h 36m 39s	1/3	wn018dpp.nipne.ro: OK: LCG_GFAL_INFOSYS is set to bdii.nipne.ro	
org.sam.WN-RepRep-/ifops/Role-lcqadmin		OK	11-27-2011 19:04:59	2d 3h 48m 53s	1/3	tbat03.nipne.ro	
org.sam.WN-SoftVer-/ifops/Role-lcqadmin		OK	11-27-2011 19:02:59	195d 8h 2m 35s	1/3	wn018dpp.nipne.ro: OK: 3.2.0	
ro.nipne.CREAMCE-CertLifetime		OK	11-27-2011 19:05:11	1d 0h 33m 41s	1/3	CERT LIFETIME OK - Certificate will expire in 136 days.	
tbat05.nipne.ro		org.sam.SRM-All-/ifops/Role-lcqadmin	OK	11-27-2011 19:04:52	7d 5h 1m 0s	1/3	OK: Success. [Sun Nov 27 18:32:51 EET 2011]
		org.sam.SRM-Del-/ifops/Role-lcqadmin	OK	11-27-2011 19:04:19	27d 8h 26m 47s	1/3	OK: File was deleted from SRM.
	org.sam.SRM-Get-/ifops/Role-lcqadmin	OK	11-27-2011 19:04:19	27d 8h 26m 47s	1/3	OK: File was copied from SRM. Diff successful.	
	org.sam.SRM-GetSURLs-/ifops/Role-lcqadmin	OK	11-27-2011 19:04:19	30d 5h 1m 47s	1/3	OK: Got SRM endpoint(s) and Storage Path(s) from BDII	
	org.sam.SRM-GetURLs-/ifops/Role-lcqadmin	OK	11-27-2011 19:04:19	27d 8h 26m 47s	1/3	OK: protocols OK-[rfio, gsiftp]	
	org.sam.SRM-Ls-/ifops/Role-lcqadmin	OK	11-27-2011 19:04:19	27d 8h 26m 46s	1/3	OK: listing /dpm/nipne.ro/home/ifops/testfile-put-1322411571-5e0abc78a146.txt]-ok:	
	org.sam.SRM-LsDir-/ifops/Role-lcqadmin	OK	11-27-2011 19:04:19	27d 8h 26m 47s	1/3	OK: Storage Path[/dpm/nipne.ro/home/ifops]-ok:	
	org.sam.SRM-Put-/ifops/Role-lcqadmin	OK	11-27-2011 19:04:19	27d 8h 26m 47s	1/3	OK: File was copied to SRM.	
ro.nipne.SRM-CertLifetime	OK	11-27-2011 19:03:11	6d 3h 38m 52s	1/3	CERT LIFETIME OK - Certificate will expire in 54 days.		

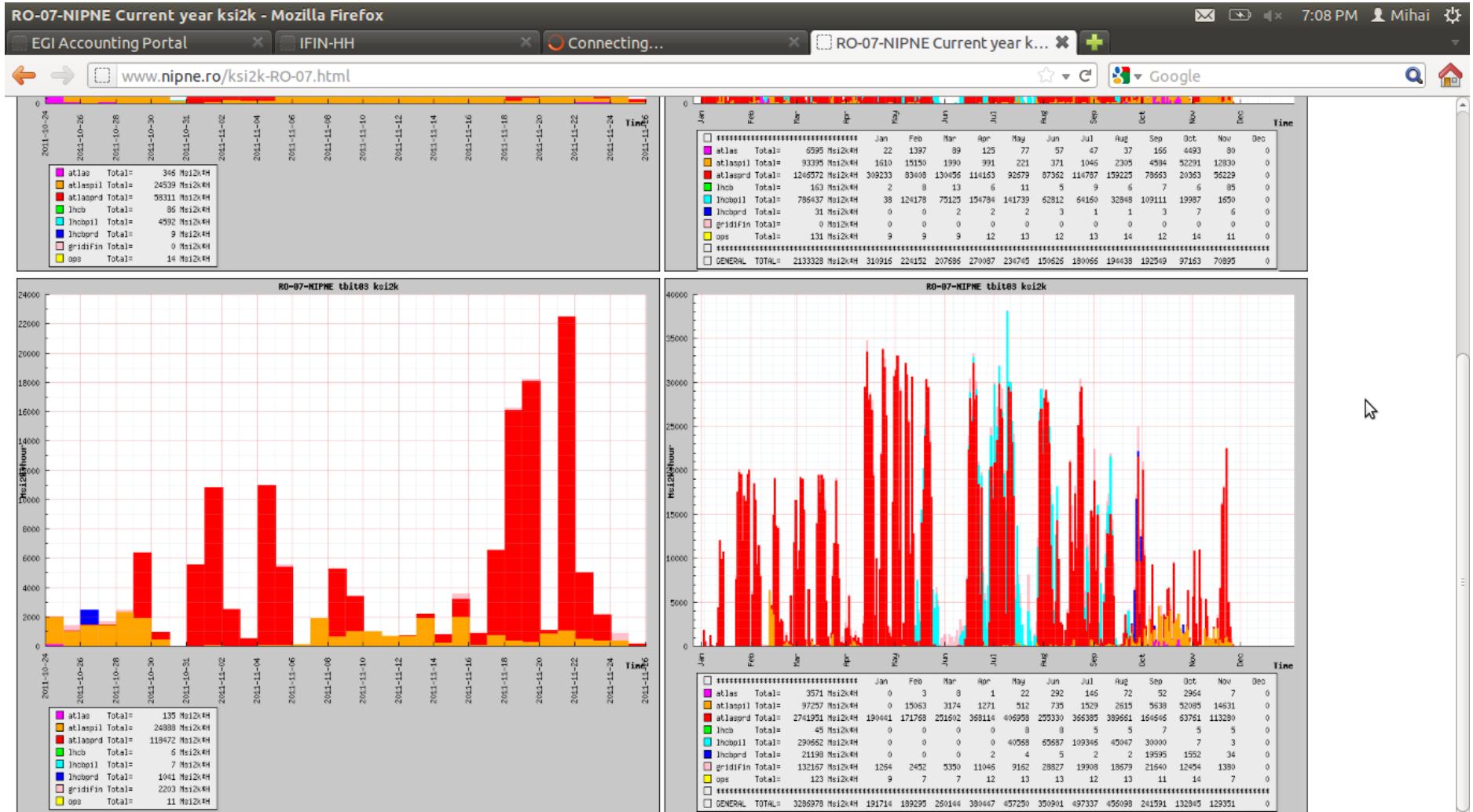
RO-07-NIPNE

- Present – accounting
 - We are making our own accounting for the site
 - Measurements of the kSI2k and job number

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- Present
 - GRIDIFIN site – for local non-LCG users and tests
 - GRIDIFIN site – supporting non-LCG VO's gridifin and ifops
 - GRIDIFIN site – is a functional gLite site with MPI support

RO-07-NIPNE

- Future
 - Deploying cvmfs in RO-07-NIPNE
 - Installing a squid server
 - Transform tbit01.nipne.ro from lcg-CE to CREAM
 - Adding another 50TB to actual storage -ready to install

R0-07-NIPNE

- Future
 - Install a new DPM head node server with new dpm disks - ready to install 120TB capacity
 - Deploy MPI support for future ATLAS needs
 - Increase the number of CPU's up to 1300 for the next year
 - Migrating to EMI software smoothly

RO-07-NIPNE

Still poor bandwidth with France ATLAS Cloud- we don't know why- To investigate!

