



Enabling Grids for E-scienceE

Critical Services Monitoring What is missing

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WLCG Service Reliability Workshop

www.eu-egee.org



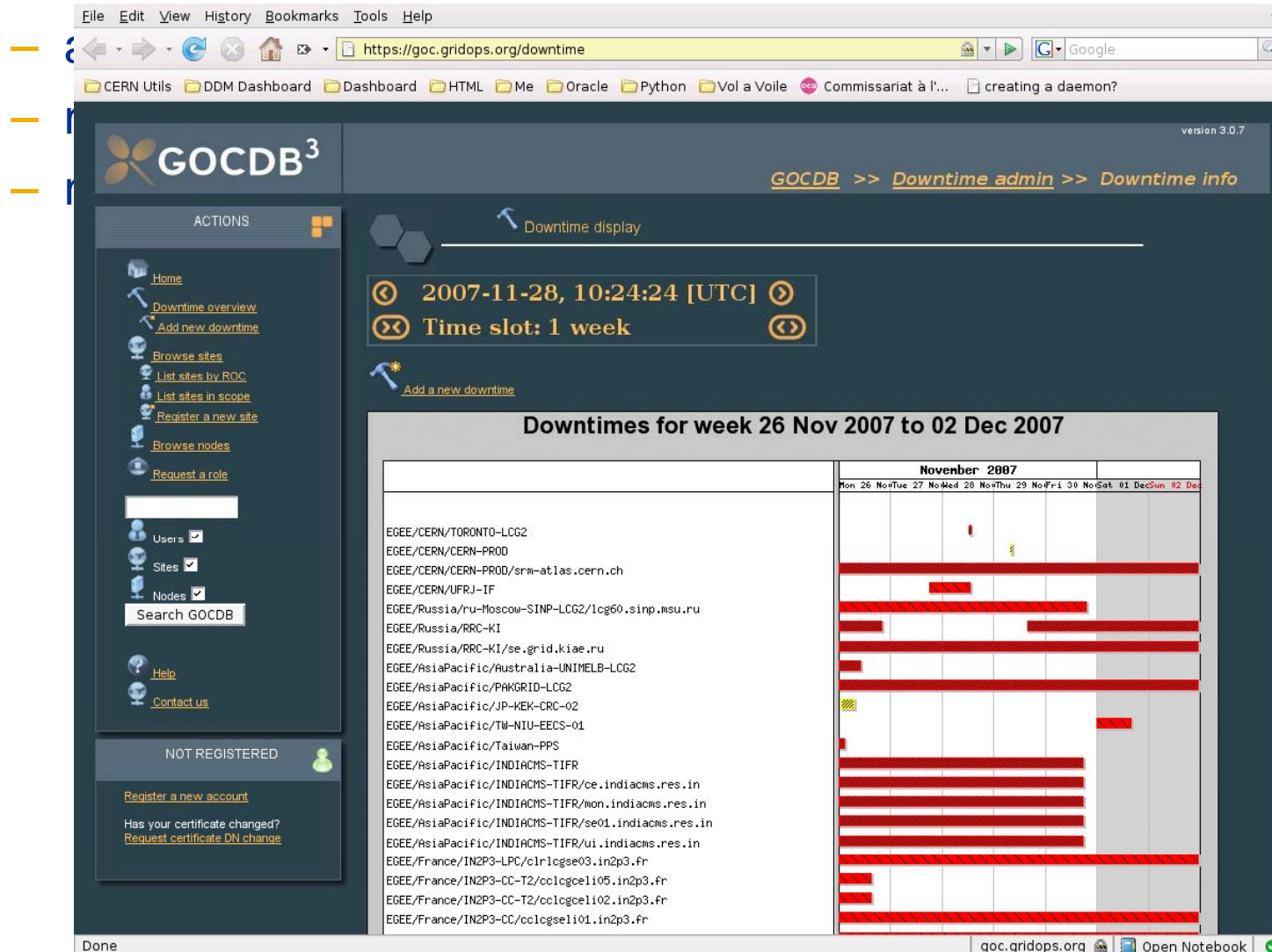
Information Society
and Media



- **Site Availability**
- **Data Management Specific**

- **Scheduled Downtime**
 - available in the GOCDB
 - need to integrate with the ATLAS dashboards
 - need to propagate to ATLAS services

- Scheduled Downtime**



File Edit View History Bookmarks Tools Help

https://goc.gridops.org/downtime

CERN Utils DDM Dashboard Dashboard HTML Me Oracle Python Vol a Voile Commissariat à l'... creating a daemon?

GOCDB³ version 3.0.7

GOCDB >> Downtime admin >> Downtime info

ACTIONS

- Home
- Downtime overview
- Add new downtime
- Browse sites
- List sites by ROC
- List sites in scope
- Register a new site
- Browse nodes
- Request a role

Users Sites Nodes

Search GOCDB

Help Contact us

NOT REGISTERED

Register a new account

Has your certificate changed?
Request certificate DN change

Downtime display

2007-11-28, 10:24:24 [UTC]

Time slot: 1 week

Add a new downtime

Downtimes for week 26 Nov 2007 to 02 Dec 2007

	November 2007							01 Dec	02 Dec
	Mon 26	Tue 27	Wed 28	Thu 29	Fri 30	Sat 01	Sun 02		
EGEE/CERN/TORONTO-LCG2									
EGEE/CERN/CERN-PROD									
EGEE/CERN/CERN-PROD/srm-atlas.cern.ch									
EGEE/CERN/UFRJ-IF									
EGEE/Russia/ru-Moscow-SINP-LCG2/lcg60.sinp.msu.ru									
EGEE/Russia/RRC-KI									
EGEE/Russia/RRC-KI/se.grid.kiae.ru									
EGEE/AsiaPacific/Australia-UNIMELB-LCG2									
EGEE/AsiaPacific/PAKGRID-LCG2									
EGEE/AsiaPacific/JP-KEK-CRC-02									
EGEE/AsiaPacific/TW-NIU-EECS-01									
EGEE/AsiaPacific/Taiwan-PPS									
EGEE/AsiaPacific/INDIACMS-TIFR									
EGEE/AsiaPacific/INDIACMS-TIFR/ce.indiacms.res.in									
EGEE/AsiaPacific/INDIACMS-TIFR/mon.indiacms.res.in									
EGEE/AsiaPacific/INDIACMS-TIFR/se01.indiacms.res.in									
EGEE/AsiaPacific/INDIACMS-TIFR/ui.indiacms.res.in									
EGEE/France/IN2P3-LPC/cl1cgs03.in2p3.fr									
EGEE/France/IN2P3-CC-T2/cc1cgs1105.in2p3.fr									
EGEE/France/IN2P3-CC-T2/cc1cgs1102.in2p3.fr									
EGEE/France/IN2P3-CC/cc1cgs1101.in2p3.fr									

goc.gridops.org Open Notebook

- **SAM Tests Integration**
 - visualization of SAM test results in the ATLAS dashboards (both generic and ATLAS specific)
 - collector agent already implemented
 - integration ongoing

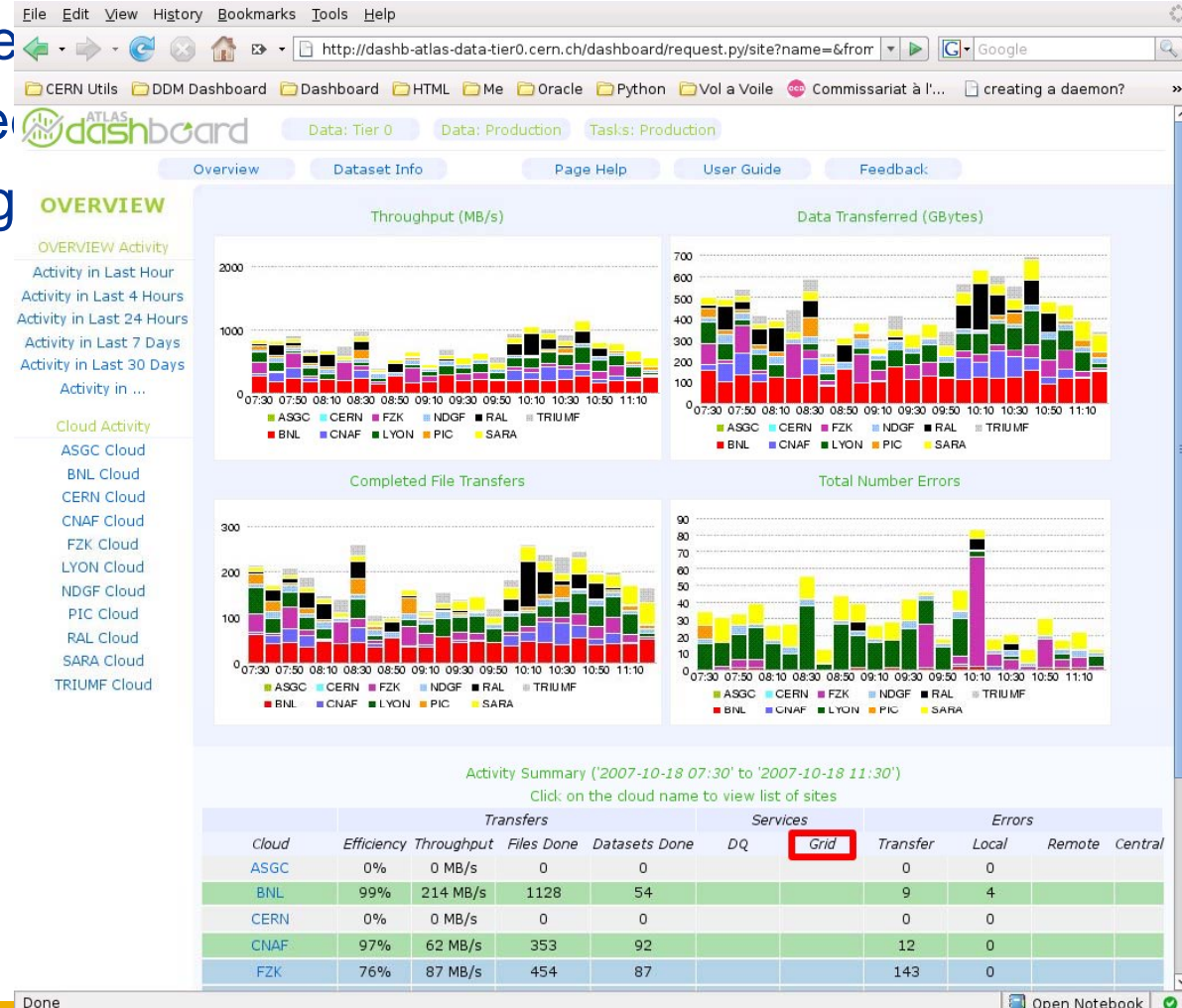
- **SAM Tests Integration**

- visualization of SAM test results in the ATLAS dashboards (both

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The screenshot shows the ATLAS dashboard with the following components:

- Overview Activity:** Activity in Last Hour, Activity in Last 4 Hours, Activity in Last 24 Hours, Activity in Last 7 Days, Activity in Last 30 Days, Activity in ...
- Cloud Activity:** ASGC Cloud, BNL Cloud, CERN Cloud, CNAF Cloud, FZK Cloud, LYON Cloud, NDGF Cloud, PIC Cloud, RAL Cloud, SARA Cloud, TRIUMF Cloud
- Throughput (MB/s):** Stacked bar chart showing activity from 07:30 to 11:10 for sites ASGC, CERN, FZK, NDGF, RAL, TRIUMF, BNL, CNAF, LYON, PIC, SARA.
- Data Transferred (GBytes):** Stacked bar chart showing activity from 07:30 to 11:10 for the same sites.
- Completed File Transfers:** Stacked bar chart showing activity from 07:30 to 11:10 for the same sites.
- Total Number Errors:** Stacked bar chart showing activity from 07:30 to 11:10 for the same sites.
- Activity Summary ('2007-10-18 07:30' to '2007-10-18 11:30')**

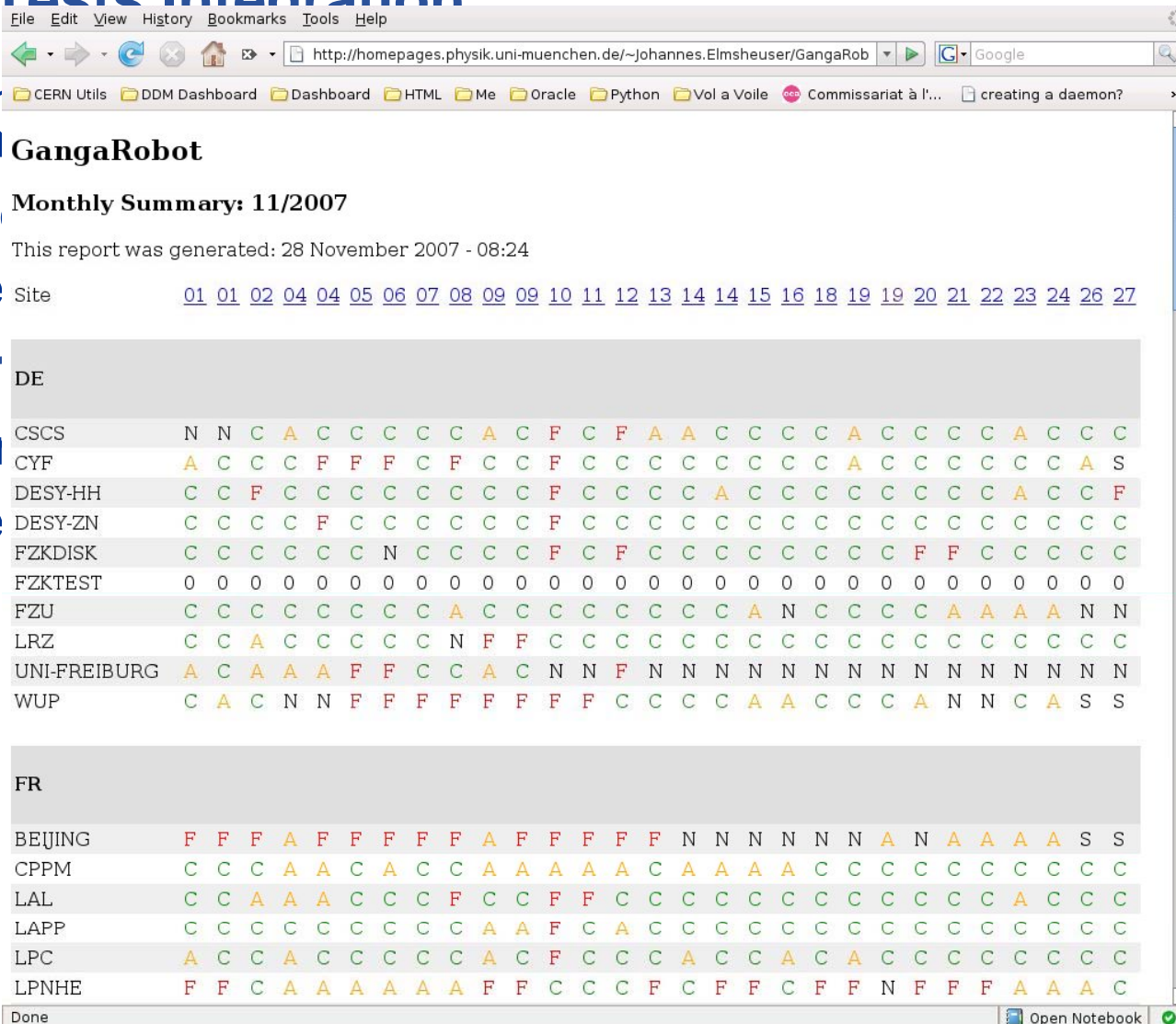
Click on the cloud name to view list of sites

Cloud	Transfers				Services			Errors		
	Efficiency	Throughput	Files Done	Datasets Done	DQ	Grid	Transfer	Local	Remote	Central
ASGC	0%	0 MB/s	0	0			0	0		
BNL	99%	214 MB/s	1128	54			9	4		
CERN	0%	0 MB/s	0	0			0	0		
CNAF	97%	62 MB/s	353	92			12	0		
FZK	76%	87 MB/s	454	87			143	0		

- **SAM Tests Integration**
 - visualization of SAM test results in the ATLAS dashboards (both generic and ATLAS specific)
 - collector agent already implemented
 - integration ongoing
- **Integration of ATLAS specific procedures**
 - currently done by the GANGARobot
 - check for proper configuration, software versions, ...

- **SAM Tests Integration**

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GangaRobot
Monthly Summary: 11/2007
 This report was generated: 28 November 2007 - 08:24

Site [01](#) [01](#) [02](#) [04](#) [04](#) [05](#) [06](#) [07](#) [08](#) [09](#) [09](#) [10](#) [11](#) [12](#) [13](#) [14](#) [14](#) [15](#) [16](#) [18](#) [19](#) [19](#) [20](#) [21](#) [22](#) [23](#) [24](#) [26](#) [27](#)

DE	
CSCS	N N C A C C C C C A C F C F A A C C C C A C C C C A C C C
CYF	A C C C F F F C F C C F C C C C C C C C A C C C C C C A S
DESY-HH	C C F C C C C C C C C F C C C C A C C C C C C C C A C C F
DESY-ZN	C C C C F C C C C C C F C C C C C C C C C C C C C C C C C
FZKDISK	C C C C C C N C C C C F C F C C C C C C C C C F F C C C C C
FZKTEST	0 0
FZU	C C C C C C C C A C C C C C C C C C C C A N C C C C A A A A N N
LRZ	C C A C C C C C N F F C C C C C C C C C C C C C C C C C C C
UNI-FREIBURG	A C A A A F F C C A C N N F N N N N N N N N N N N N N N N N
WUP	C A C N N F F F F F F F F C C C C A A C C C A N N C A S S
FR	
BEIJING	F F F A F F F F F A F F F F F N N N N N N A N A A A A S S
CPPM	C C C A A C A C C A A A A A C A A A A C C C C C C C C C C C
LAL	C C A A A C C C F C C F F C C C C C C C C C C C C C C C C C
LAPP	C C C C C C C C C A A F C A C C C C C C C C C C C C C C C C
LPC	A C C A C C C C C A C F C C C A C C A C A C C C C C C C C C
LPNHE	F F C A A A A A A F F C C C F C F F C F F N F F A A A C

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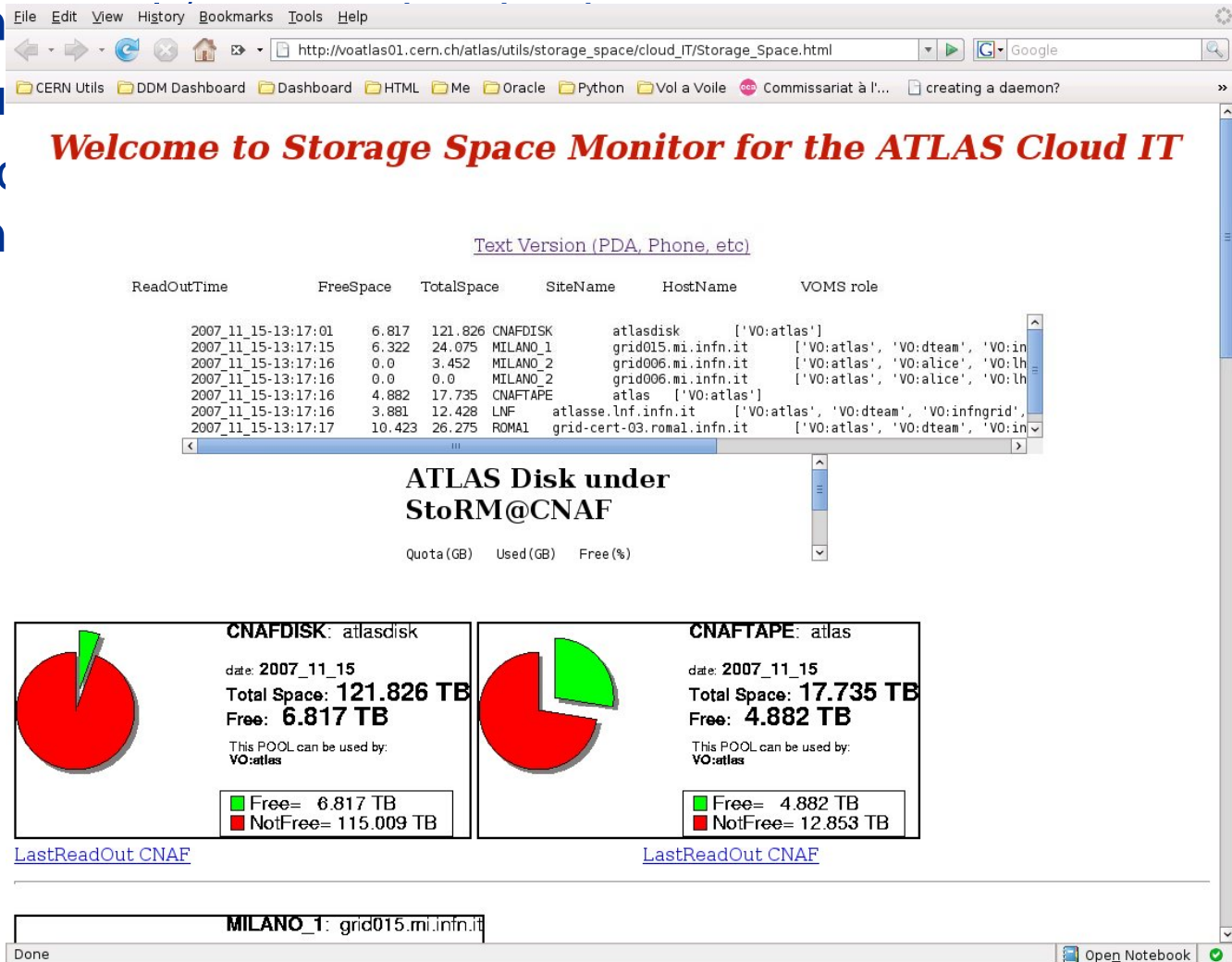
- **Integr**
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- **Space Availability**
 - on a pool / space token basis
 - quota usage per group/user
 - prototyped for the IT cloud, foreseen to be extended to all clouds and information propagated to the DDM dashboard

- **Space Availability**

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all clouds



ReadOutTime	FreeSpace	TotalSpace	SiteName	HostName	VOMS role
2007_11_15-13:17:01	6.817	121.826	CNAFDISK	atlasdisk	['VO:atlas']
2007_11_15-13:17:15	6.322	24.075	MILANO_1	grid015.mi.infn.it	['VO:atlas', 'VO:dteam', 'VO:in
2007_11_15-13:17:16	0.0	3.452	MILANO_2	grid006.mi.infn.it	['VO:atlas', 'VO:alice', 'VO:lh
2007_11_15-13:17:16	0.0	0.0	MILANO_2	grid006.mi.infn.it	['VO:atlas', 'VO:alice', 'VO:lh
2007_11_15-13:17:16	4.882	17.735	CNAFTAPE	atlas	['VO:atlas']
2007_11_15-13:17:16	3.881	12.428	LNF	atlas.lnf.infn.it	['VO:atlas', 'VO:dteam', 'VO:infngrid',
2007_11_15-13:17:17	10.423	26.275	ROMA1	grid-cert-03.roma1.infn.it	['VO:atlas', 'VO:dteam', 'VO:in

Quota (GB)	Used (GB)	Free (%)

Storage Element	Total Space	Free Space	NotFree Space
CNAFDISK: atlasdisk	121.826 TB	6.817 TB	115.009 TB
CNAFTAPE: atlas	17.735 TB	4.882 TB	12.853 TB

MILANO_1: grid015.mi.infn.it

- **Inconsistencies between local file catalogs and storage**
- **API available for reporting bad file replicas**
 - reports stored in the data management dashboard
- **Consistency agent checking new bad file replicas**
- **In some cases, automated procedures exist**
 - in others, manual intervention is required

- **Monitoring of channels**
 - channel configuration
 - channel status
- **Monitoring of who is using the channel**
 - probably also at the level of the SRMs
 - helps to verify the computing model is followed
- **Categorization of errors**
 - ongoing effort with the FTS team
- **Different monitoring pages exist**

- Monitoring of channels

- char
- char

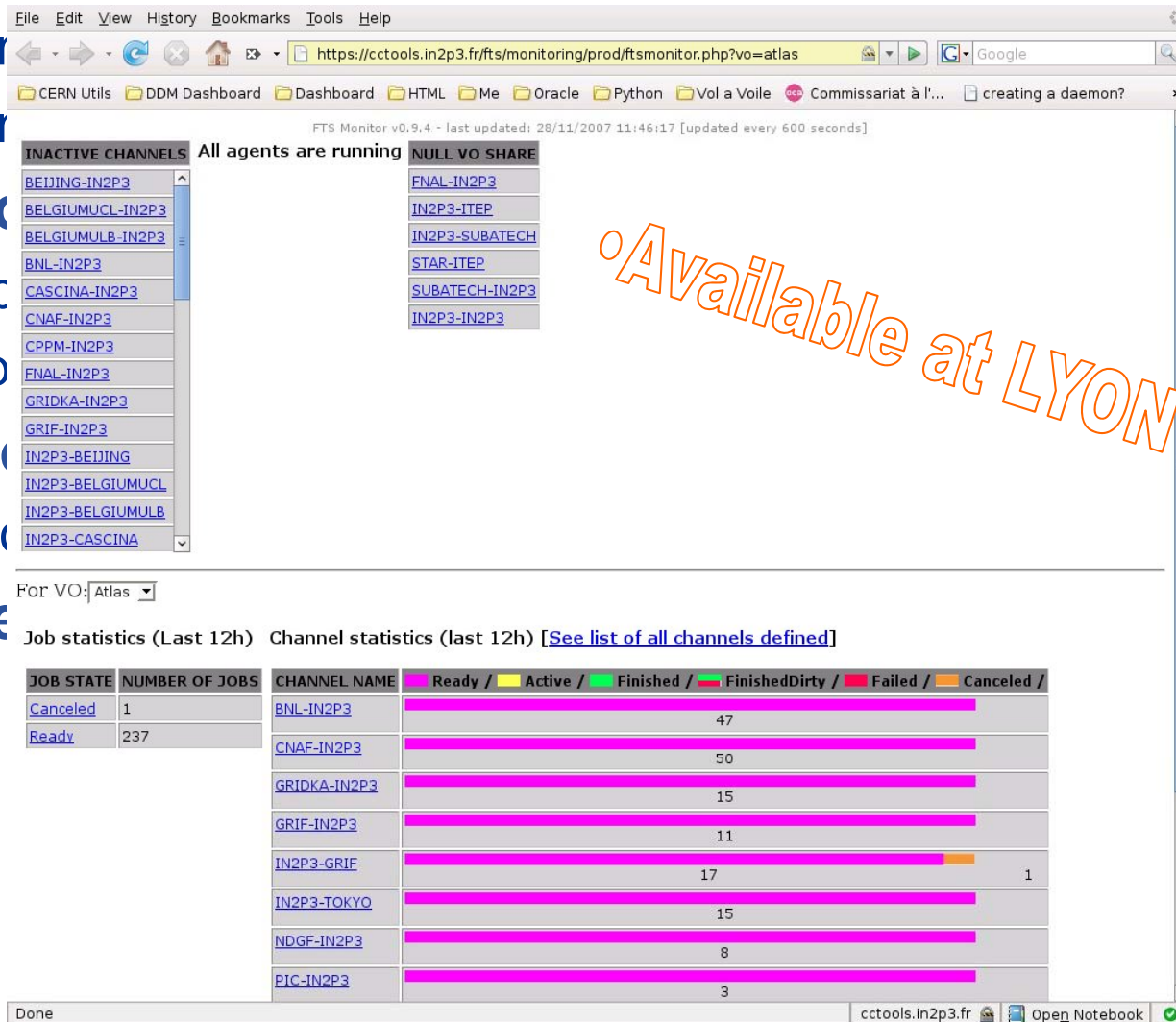
- Monitoring

- prob
- help

- Categories

- ongo

- Differences



FTS Monitor v0.9.4 - last updated: 28/11/2007 11:46:17 [updated every 600 seconds]

INACTIVE CHANNELS All agents are running **NULL VO SHARE**

Channel Name	State
BEIJING-IN2P3	Running
BELGIUMUCL-IN2P3	Running
BELGIUMULB-IN2P3	Running
BNL-IN2P3	Running
CASCINA-IN2P3	Running
CNAF-IN2P3	Running
CPPM-IN2P3	Running
FNAL-IN2P3	Running
GRIDKA-IN2P3	Running
GRIF-IN2P3	Running
IN2P3-BEIJING	Running
IN2P3-BELGIUMUCL	Running
IN2P3-BELGIUMULB	Running
IN2P3-CASCINA	Running
FNAL-IN2P3	Running
IN2P3-ITEP	Running
IN2P3-SUBATECH	Running
STAR-ITEP	Running
SUBATECH-IN2P3	Running
IN2P3-IN2P3	Running

For VO: Atlas

Job statistics (Last 12h) Channel statistics (last 12h) [See list of all channels defined]

JOB STATE	NUMBER OF JOBS	CHANNEL NAME	Ready / Active / Finished / FinishedDirty / Failed / Canceled
Canceled	1	BNL-IN2P3	47
Ready	237	CNAF-IN2P3	50
		GRIDKA-IN2P3	15
		GRIF-IN2P3	11
		IN2P3-GRIF	17
		IN2P3-TOKYO	15
		NDGF-IN2P3	8
		PIC-IN2P3	3

Available at LYON and CNAF

- Monitoring of channels

- char

- char

- Monitoring

- prob

- help

- Categories

- ongo

- Differences

