



LCG-France Tier-1 & AF

Réunion de Coordination

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Lyon, 12 juillet 2007

► Table des Matières



- Disponibilité, fiabilité, efficacité du site
- Accounting
- GDB de Juillet 2007
- Thèmes du jour

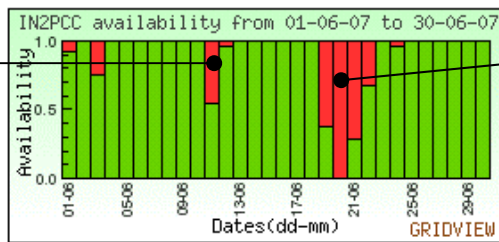
Disponibilité du site (1/3)



- Juin 2007

Overall Service Availability for site IN2PCC : Daily Report

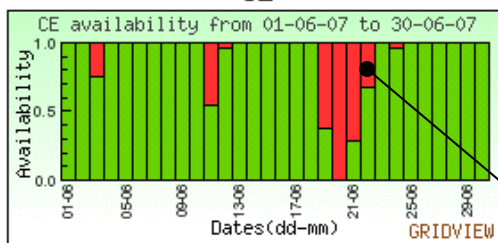
Arrêt programmé
pour le 12/06 et
annulé par la
suite.



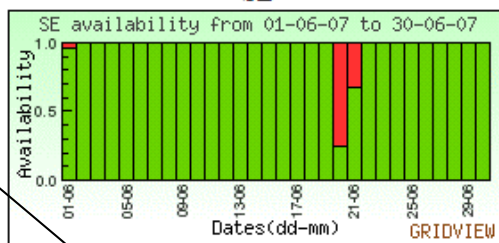
Arrêt programmé
et effectué le
20/06.

Individual Service Availability for site IN2PCC : Daily Report

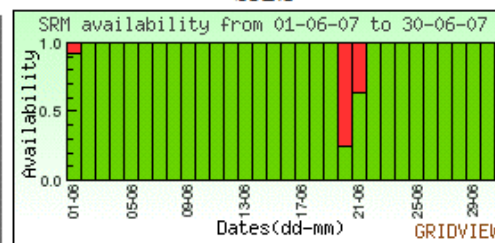
CE



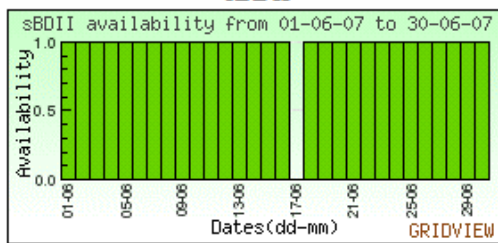
SE



SRM



sBDII



Incident avec le
mécanisme de
renouvellement
automatique des CRLs

Source: <http://gridview.cern.ch>

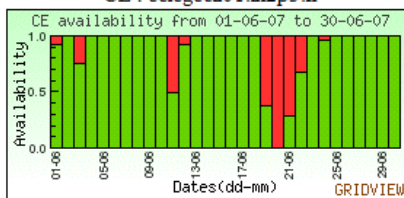
Disponibilité du site (2/3)



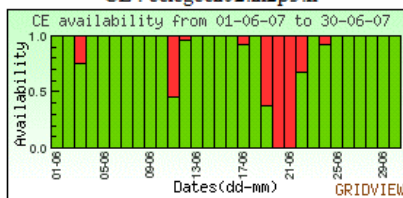
Service Instance Availability for site IN2PCC : Daily Report

Site Services

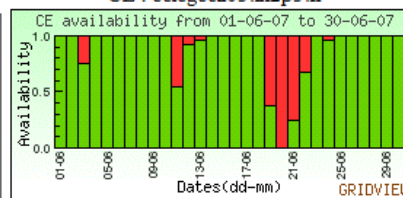
CE : cclcgceli01.in2p3.fr



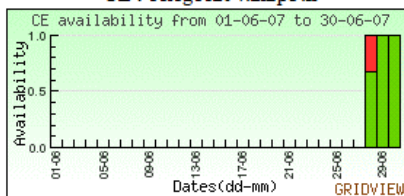
CE : cclcgceli02.in2p3.fr



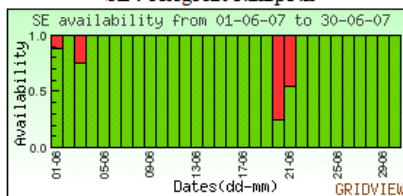
CE : cclcgceli03.in2p3.fr



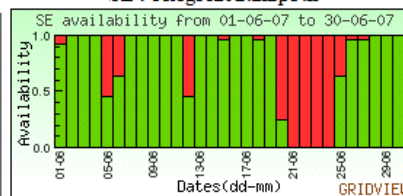
CE : cclcgceli04.in2p3.fr



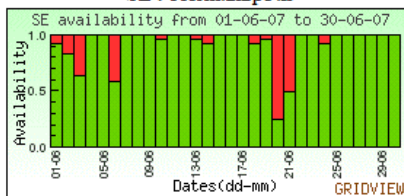
SE : cclcgceli01.in2p3.fr



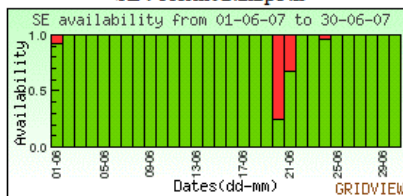
SE : cclcgceli02.in2p3.fr



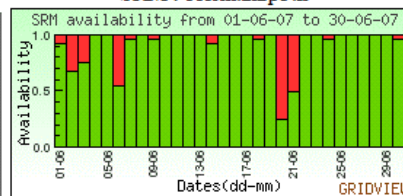
SE : cccrm.in2p3.fr



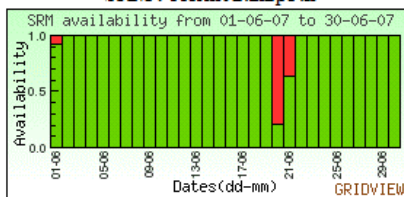
SE : cccrm02.in2p3.fr



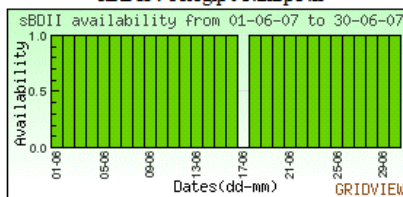
SRM : cccrm.in2p3.fr



SRM : cccrm02.in2p3.fr

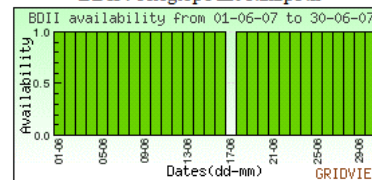


sBDII : cclcgip01.in2p3.fr

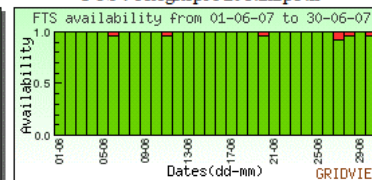


Central Services

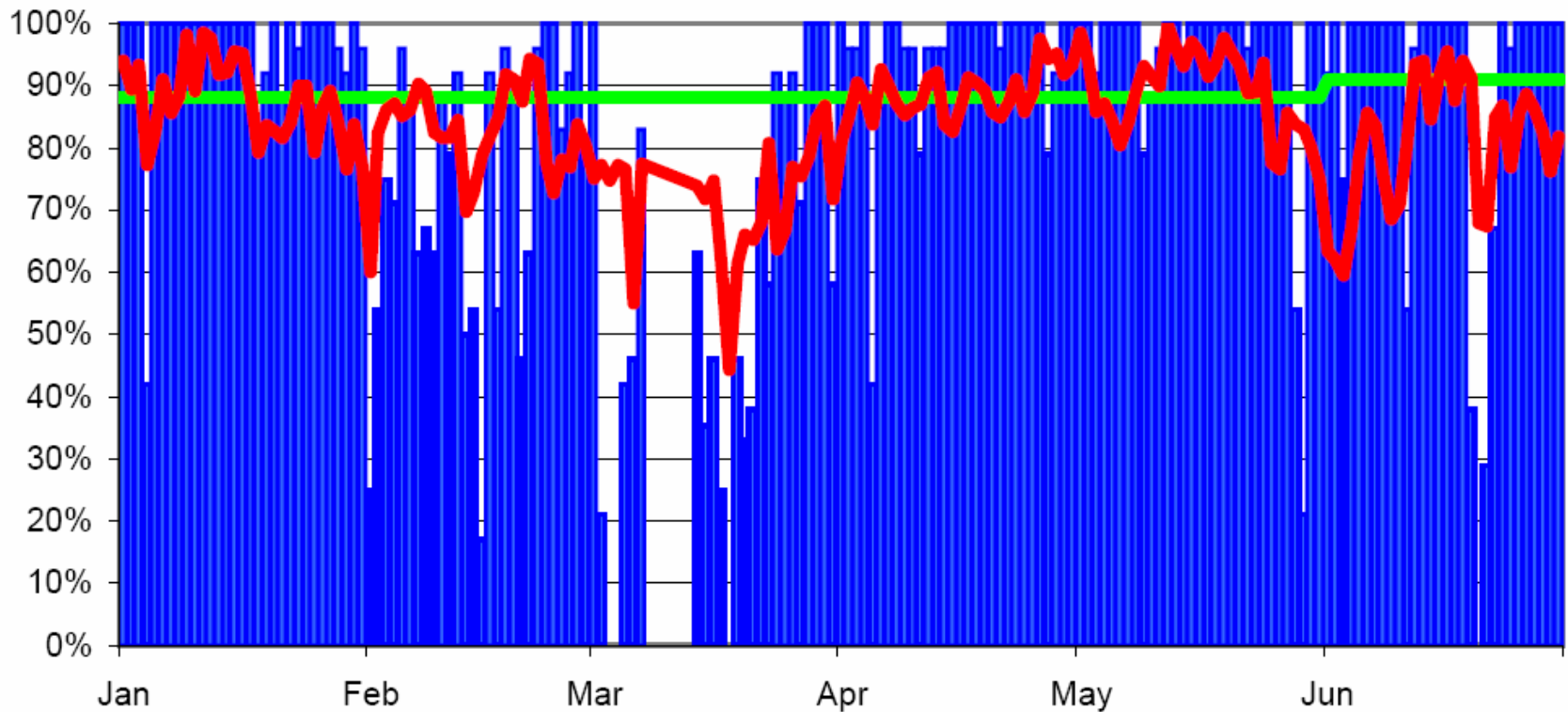
BDII : cclcgtopbdi01.in2p3.fr



FTS : cclcgftsprod01.in2p3.fr



Disponibilité du site (3/3)



IN2P3-CC

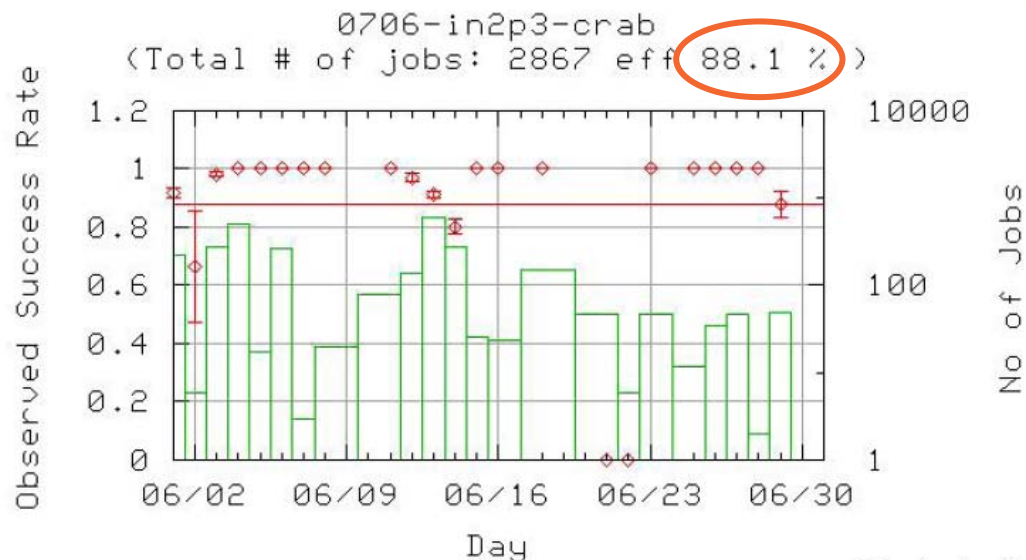
av.reliability last 3 mths 92%

Source: http://lcg.web.cern.ch/LCG/MB/availability/site_reliability.pdf

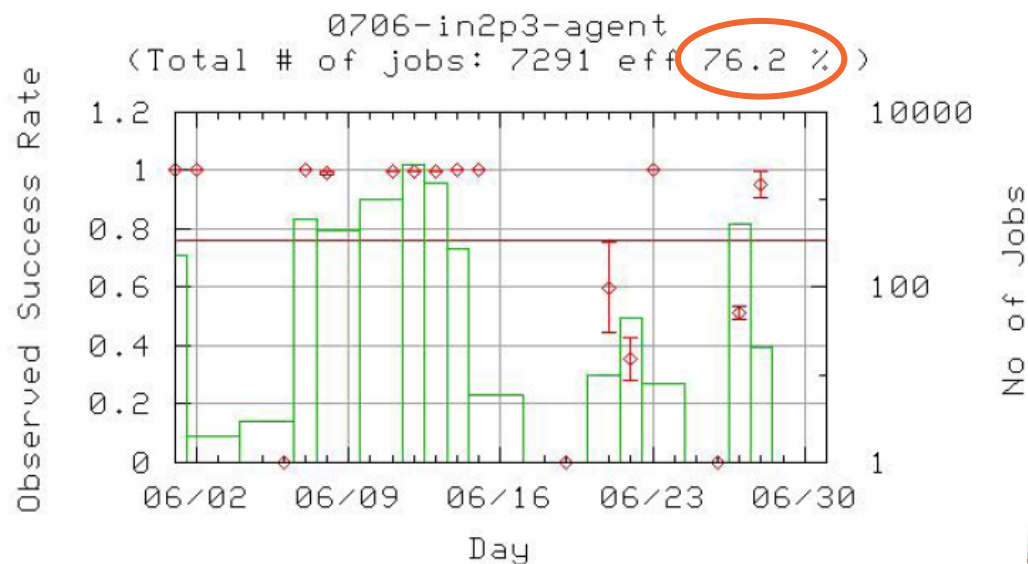
Effacité du site – Jobs (1/2)



CMS (Crab)



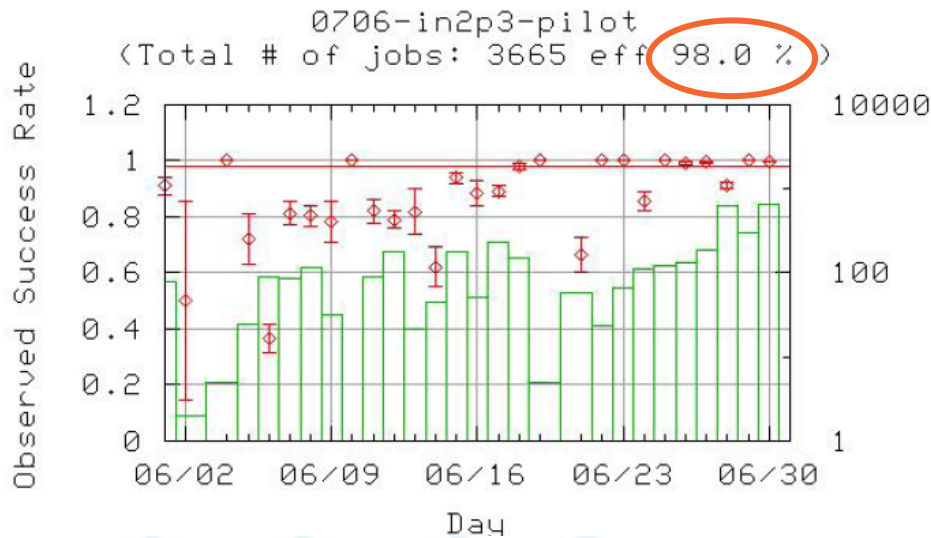
Alice



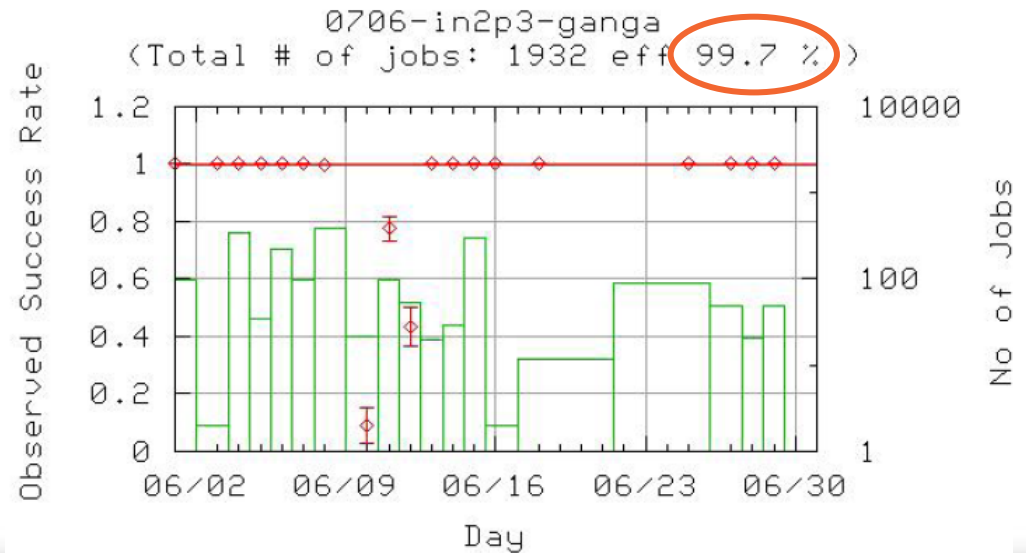
Effacité du site – Jobs (2/2)



LHCb



Atlas (Ganga)



Accounting: CPU (1/2)



France Normalised CPU time by SITE and VO.

LHC VOs. June 2007 - June 2007.

The following table shows the distribution of Normalised CPU time grouped by SITE and VO (only information about **LHC VOs** is showed in detail. The rest of VOs will be grouped in a new category).

Normalised CPU time [units 1K.SI2K.Hours] by SITE and VO							
SITE	alice	atlas	cms	lhcb	Other VOs	Total	%
AUVERGRID	8	9,288	0	15,761	19,650	44,707	2.56%
CGG-LCG2	1	308	0	6,262	5,601	12,172	0.70%
GRIF	78,523	30,963	30,703	4,338	33,069	177,596	10.18%
IN2P3-CC	124,263	169,443	59,065	50,332	354,728	757,831	43.46%
IN2P3-CC-T2	0	5,789	7,036	0	5	12,830	0.74%
IN2P3-CPPM	0	30,547	0	18	6,780	37,345	2.14%
IN2P3-IPNL	0	0	0	0	15	15	0.00%
IN2P3-IRES	37,880	0	0	0	2,478	40,358	2.31%
IN2P3-LAPP	0	57,740	0	98,347	125	156,212	8.96%
IN2P3-LPC	129,688	74,984	0	36,812	78,147	319,631	18.33%
IN2P3-SUBATECH	182,332	0	0	0	13	182,345	10.46%
IPSL-IPGP-LCG2	3	0	0	2,527	207	2,737	0.16%
Total	552,698	379,062	96,804	214,397	500,818	1,743,779	
Percentage	31.70%	21.74%	5.55%	12.29%	28.72%		

[Click here for a csv dump of this table](#)

Accounting: Storage (2/2)



- Portal
 - <http://goc02.grid-support.ac.uk/storage-accounting/view.php?queryType=storage&ExecutingSite=IN2P3-CC>
- Situation de notre site au 11/07/2007 22h35

Disk Usage Reported in the last Hour (TB)

- GridPP Wiki **Storage Accounting**
- The term **Allocated** is defined as **GlueSAStateSpaceUsed + GlueSAStateSpaceAvailable**
- The table reports what is actually published into the information system from sites.
- Storage areas that are shared by VOs are **not** treated in any special way.
- **Savannah Bug 25139** There is a problem in adding together the allocated storage for each V of resources.

Disk Used and Allocated per VO (Units are TB)								
Org Unit	Site	Disk	VO				Total (TB)	Percentage
France			alice	atlas	cms	lhcb		
	IN2P3-CC	Used	0.005	0.000	0.002	0.001	0.008	100 %
		Allocated	1001.795	1000.000	1001.792	1001.790	n/a	n/a
	IN2P3-CC-T2	Used	0	0	0	0	0	0 %
		Allocated	0	0	0	0	n/a	n/a
Table Summaries								
		Used (TB)	0.005	0	0.002	0.001	0.008	
		Percentage	62.5%	0%	25%	12.5%	100%	
 CSV dump of this table								

Ces valeurs ne correspondent pas à ce qui est publié sur le système d'information du site

- Agenda
 - <http://indico.cern.ch/conferenceDisplay.py?confId=8485>
- Sujets
 - Simplification de la matrice des systèmes vs. services supportés
 - Accounting (CPU & stockage)
 - Utilisation du disque scratch des workers nodes (Atlas)
 - Présentation relations tier-1 et tier-2s associés
 - *LCG-France*
 - Résumé du storage workshop
 - Sécurité

► Systèmes supportés



Enabling Grids for E-science

Suggestion

- **Release the changes that are in the pipeline**
 - In their current incarnation (mostly SL3 + VDT 1.2)
 - WMS, gLite-CE, FTS-2, gfal, lcg-utils
- **Then concentrate for updates and new releases on:**
 - SL4 and VDT-1.6
 - Services and clients
 - First 32 bits
 - Then 64bits for clients and selected services (DPM)
- **What about the SL3 sites????**
 - They stay with the versions that they have until they can move
 - The gLite build system will be maintained for security updates
- **Which LCG site/experiment would suffer???**

GDB: Accounting Development



SAM Tests

■ SAM Tests

- Determine which sites have NOT synchronised their accounting data with the GOC.
- Compares the data in the site's APEL database, to the data in the GOC's database
- Tests cannot tell us about sites that do not use APEL.
- Tests available as RSS feeds and ready to be published into SAM.

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Source: Dave Kant, [GDB 04/07/2007](#)



SAM Tests

- Two tests available as RSS feeds and described in [ApelFaq](#) pages on [GocWiki](#)
- [ApelSyncHist Test](#)
 - Sites which have a significant GAP are in an ALERT state
- [ApelLastPub Test](#)
 - Sites which have not published accounting data in the
 - last 7 days are in WARNING state
 - Last 31 days are in ALERT state

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Questions



- On nodes with 4 dual-core cpu's
 - Site may decide for 12 job slots
 - But then we could need $12 \times 25 = 300$ GB disk
 - This is worst case scenario
 - But can we avoid 12 jobs of the same type?
- Can we detect that a WN does not have enough disk space?
- Is 2 drives better than 1?

► Déploiement de SRM v2.2



The roll-out plan: a summary

- Following recent progress with SRM v2.2 implementations, we are now able to define a roll-out schedule, together with acceptance criteria and intermediate milestones
- The experiments' and LHC schedule give two slots for such deployment:
 1. October 15-31 for a small number of key sites that can be supported with priority (and other sites "best-effort")
 2. Early January 2008 for remaining sites
- High-level tools will be modified to set v2.2 as the default version of SRM. This will happen by October 15th, 2007
- The status will be followed on a regular basis by the WLCG MB
- It is understood that full scale production shake-down will only occur once the main sites have upgraded and that this will take several months. This means that the schedule should not be delayed if the services are to be ready well ahead of 2008 data taking

WLCG GDB - CERN, 04 July 2007

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Source: Flavia Donno, [GDB 04/07/2007](https://twiki.cern.ch/twiki/pub/LCG/GSSD/SRM-Rollout-Plan-2007.pdf)

Plan définitif: <https://twiki.cern.ch/twiki/pub/LCG/GSSD/SRM-Rollout-Plan-2007.pdf>

- Etat des services de grille
- Etat de l'intégration à l'exploitation des services grille (suite)
- Prochaine réunion
 - 13 septembre (après CHEP)

► Questions/Commentaires

