



LCG-France Tier-1 & AF

Réunion mensuelle de coordination

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Lyon, 27 mai 2010



l r f u
cea
saclay

► Reconnaissance

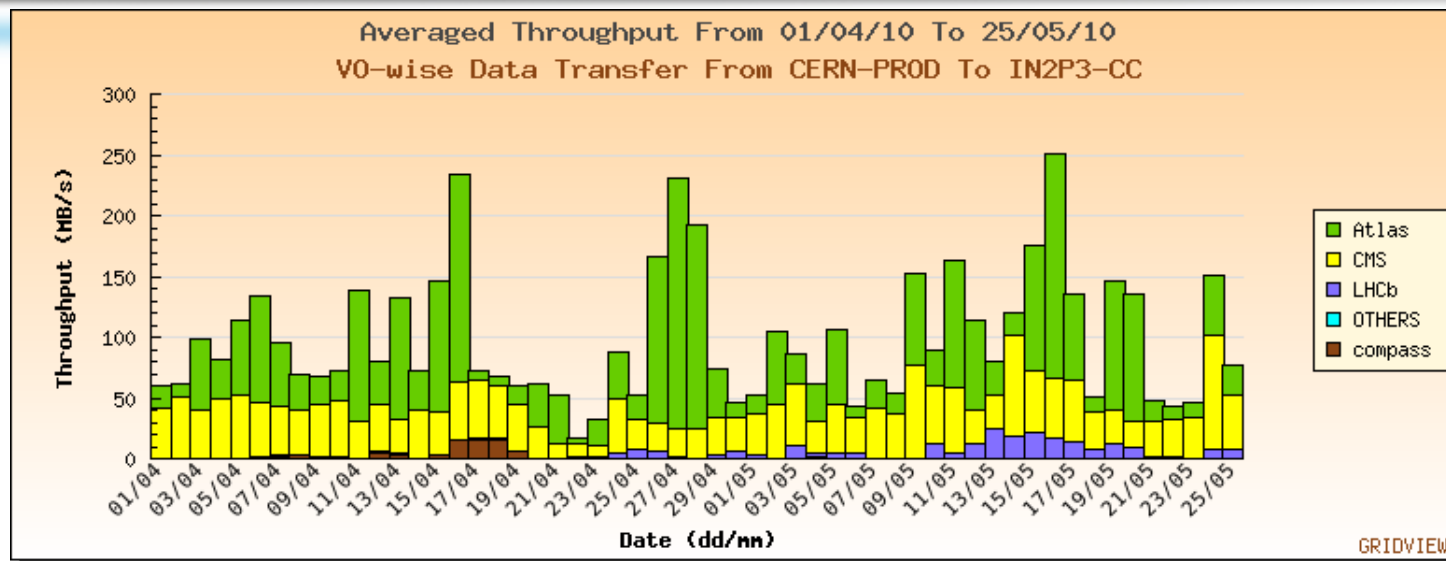


« One thing that it is important to note from both the RRB and LHCC meetings was that both meetings agreed that **a clear message should be sent to all of the Tier 1, Tier 2 (and Tier 0) staff** recognising that all of the hard work they have put in over the past several years has really paid off **in enabling the very fast progress from raw data to physics and that the experiments and CERN management all really appreciate the fact that the computing system is in such a good shape.**

We will endeavour to get this message passed in a more formal and public way, but please communicate this to your sites and staff. »

- Message de Ian Bird envoyé à WLCG Overview Board daté du 07/05/2010

Transfert de données depuis tier-0

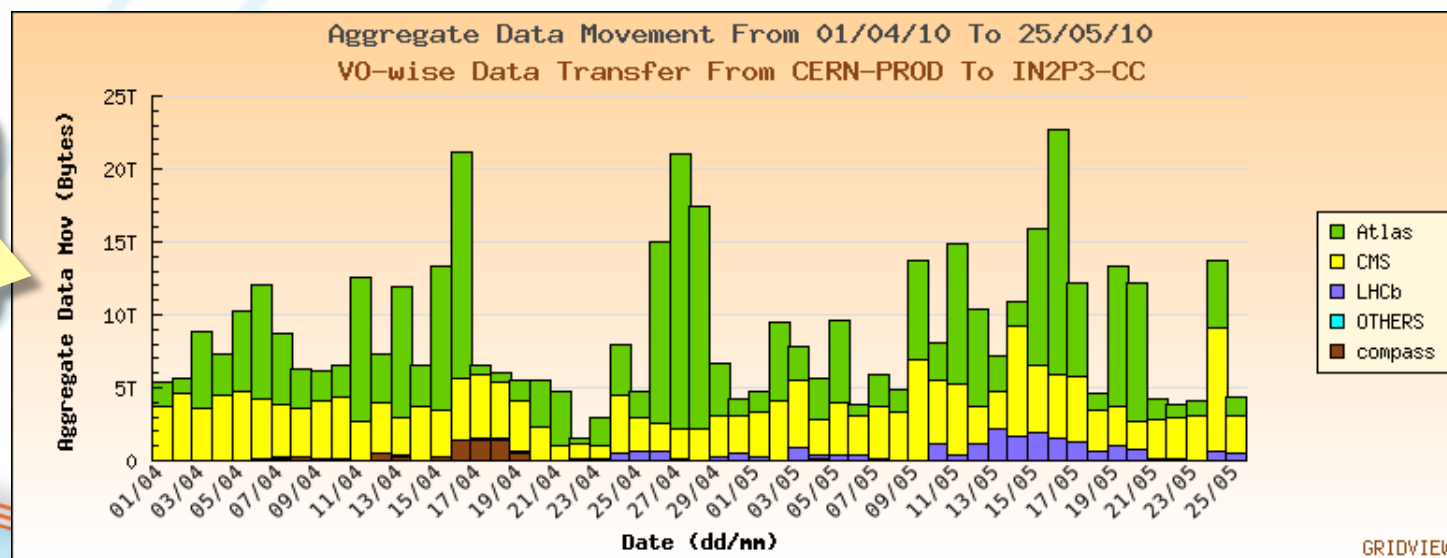


Importation des données de collisions en provenance du tier-0.

Période: 01/04 au 25/05.

Volume des données importées du tier-0

Période: 01/04 au 25/05.



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



Avancement des chantiers

▶ dCache – Restrictions de staging



- Configuration de dCache modifiée pour activer les restrictions de la fonctionnalité de staging uniquement aux utilisateurs autorisés
- Détails: réunion du 25/03/2010
 - <http://indico.in2p3.fr/conferenceDisplay.py?confId=3788>
- Mise en production différée en attendant la possibilité d'activation sélective par expérience
 - A venir dans une prochaine version de dCache
 - De plus, conflit potentiel entre des librairies gsidcap et des librairies Oracle utilisées par les jobs (LHCb et ATLAS)
 - Détails: <https://savannah.cern.ch/bugs/?65722>

► Ferme batch



- Modification de la configuration d'ANASTASIE le 30/04/2010
 - Activation de l'inspection de la mémoire effectivement consommée (par opposition à la mémoire demandée), lors de la mise en exécution des nouveaux jobs sur un worker
 - Bilan à ce jour?
- Prochaine étape, modification des limites supérieures de classe G en ce qui concerne la mémoire et le disque scratch

► Computing Elements



- LHCb autorisé à soumettre des jobs (longs) sur la classe J (publiée comme `verylong`) sur les CEs du tier-1
 - Détails: <http://cctools.in2p3.fr/elog/operations-CE/80>
- 18/05: Introduction en production d'un nouveau CE CREAM attaché au tier-2
 - Détails: <http://cctools.in2p3.fr/elog/operations-CE/77>

▶ Computing Elements



Tier Level	CE hostname [.in2p3.fr]	CE Type	ALICE	ATLAS	CMS	LHCb
Tier-1	cclcgceli02	LCG	✓	✓		
	cclcgceli04	LCG			✓	✓
	cclcgceli07	LCG	✓	✓		
	cclcgceli08	LCG			✓	✓
	cccreamceli01	CREAM	✓	✓	✓	✓
Tier-2	cclcgceli06	LCG	✓	✓	✓	✓
	cclcgceli09	LCG	✓	✓	✓	✓
	cccreamceli03	CREAM	✓	✓	✓	✓

Source: <http://grid.in2p3.fr/index.php?chap=3&tit1=1&tit2=3>

▶ ATLAS: software area



- Problèmes persistants dans le mécanisme de réplication automatique des releases du software ATLAS
 - Détails: relevé des conclusions de la réunion du 07/04/2010
 - <http://indico.in2p3.fr/conferenceDisplay.py?confId=3848>
- Présentation dans la dernière réunion ATLAS-France Computing (alias CAF)
 - <http://indico.in2p3.fr/conferenceDisplay.py?confId=3861>
- Efforts actuels concentrés sur:
 - prompte détection des problèmes de réplication
 - découplage entre l'installation et réplication
 - partage des tags des versions installées entre les différents CEs

▶ VO Boxes



- 26/04/2010 Installation sous SL5 d'une VO box LHCb
 - cclcg lhcb01
 - Est-elle en production?
- Installation sous SL5 de plusieurs VO box CMS
 - 27/04: cclcg cms03
 - 17/05: cclcg cms01, cclcg cms02
 - Sont-elles en production?

▶ ATLAS: FroNTTier/Squid



- Service FroNTtier/Squid pour ATLAS en production
 - Les résultats des tests approfondis sont-ils disponibles?
- Demande de ATLAS d'installer la version v2.7.STABLE9-3.7 de Squid datée du 26/04/2010
 - Détails:
<https://twiki.cern.ch/twiki/bin/view/PDBService/SquidRPMsTier1andTier2>
 - Quelle est la situation sur notre site?

Système d'information



Name ▲	Status ▼	CPUs			Online Storage Space (GB)		Nearline Storage Space (GB)		Grid Jobs		
		Physical ▼	Logical ▼	SI2000 ▼	TotalSize ▼	UsedSize ▼	TotalSize ▼	UsedSize ▼	Total ▼	Running ▼	Waiting ▼
CGG-LCG2	WARNING	140	140	140,000	4,787	3%	0	0%	90	0%	100%
GRIF	CRITICAL	1,336	5,426	11,042,512	1,610,004	49%	0	0%	10,587	991%	95%
IBCP-GBIO	OK	100	406	184,468	10,068	6%	0	0%	3	0%	100%
IN2P3-CC	CRITICAL	2,166	8,664	18,724,488	3,580,468	76%	20,987,084	39%	6,806	7%	89%
IN2P3-CC-T2	CRITICAL	1,974	10,068	21,354,228	233,472	71%	0	0%	1	0%	0%
IN2P3-CPPM	CRITICAL	158	469	938,000	66,002	57%	0	0%	385	0%	100%
IN2P3-IPNL	CRITICAL	158	616	1,106,952	57,010	61%	0	0%	1,092	0%	100%

Information publiée pas conforme aux conventions

Capture d'écran faite le 25/05/2010

Source: http://gstat-prod.cern.ch/gstat/summary/EGEE_ROC/FR/

► Système d'information (suite)



• Exemples de problèmes

- ERROR: GlueSALocalID=dteam,GlueSEUniqueID=ccsrmt2.in2p3.fr,Mds-Vo-name=IN2P3-CC-T2,o=grid, Manditory attribute does not exist in the GlueSA entry., **The attribute GlueSAReservedOnlineSize is missing**
- ERROR: GlueSALocalID=dteam,GlueSEUniqueID=ccsrmt2.in2p3.fr,Mds-Vo-name=IN2P3-CC-T2,o=grid, Manditory attribute does not exist in the GlueSA entry., **The attribute GlueSAFreeOnlineSize is missing**
- ERROR: GlueSALocalID=dteam,GlueSEUniqueID=ccsrmt2.in2p3.fr,Mds-Vo-name=IN2P3-CC-T2,o=grid, Manditory attribute does not exist in the GlueSA entry., **GlueSACapability does not exist in the entry**
- WARNING: GlueSEUniqueID=ccsrmt2.in2p3.fr,Mds-Vo-name=IN2P3-CC-T2,o=grid, Deprecated attribute exist in the GlueSE entry., **The attribute SEPort is deprecated**
- ERROR: ['IN2P3-CC-T2'], None of the fields in the GlueSiteOtherInfo contain EGEE_ROC and EGEE_SERVICE. , EGEE Site: ['IN2P3-CC-T2'].

► Système d'information (suite)



- Publication de CPUScalingReferenceSI00 dans les CEs
 - Utilisé par LHCb pour la sélection des sites d'exécution
 - Détails: https://gus.fzk.de/ws/ticket_info.php?ticket=58308

- 19/04 Mise à jour du logiciel des LFC ATLAS et LHCb
- 12/05 Changement de machine pour le LFC ATLAS
 - Nouvelle machine: cclcglfcli05

► Accounting CPU



- Tests en cours sur certain tier-2s de ActiveMQ en tant que mécanisme de transport des données d'accounting vers le repository au RAL
 - Quelle est la situation sur notre site?
 - Quel est l'impact de ce changement y compris pour les sites français utilisant la MonBox du tier-1 ?



Réunions GDB & MB

Storage -- dCache



dCache news (I)

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- **Do not upgrade** to 1.9.5-18!
 - SRM becomes **unresponsive**
 - A restart helps only for some minutes
- Will provide dcap++ as soon as possible
- Building a larger testbed at DESY for NFS 4.1 to run ATLAS and CMS applications
- Kerberos security in NFS 4.1 coming soon
 - X.509 under investigation in contact with DPM

dcap++ est la version intégrant une gestion améliorée du cache chez le client, ce qui permet d'augmenter significativement les performances

Tape protection in dCache sites

CERN IT
Department

Site	Protocol	Tape protection policy
BNL	(gsi)dcap, SRM	Disabled (some protection for stage requests from WNs)
FNAL	dcap, SRM	Read/write access restricted to authenticated and authorized users. On-site writing via SRM for normal users, via dcap for production users . Read/write requests independently limited. Investigating need for additional controls. No plans to use gsidcap and ACLs
CC-IN2P3	(gsi)dcap, SRM	Disabled because CMS needs dcap with no tape protection. Desired by ATLAS and LHCb
KIT		Disabled
NDGF	(gsi)dcap, SRM	Disabled
NL-T1	(gsi)dcap, SRM	Enabled for ATLAS (only /cms/Role=production allowed). Disabled for the other VOs (note: separate instances by VO)
PIC	(gsi)dcap, SRM	Disabled because CMS needs dcap with no tape protection. Desired by ATLAS and LHCb
TRIUMF	(gsi)dcap, SRM	Disabled but plans to enable

► Storage – dCache (suite)



Proposed change

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- dCache will allow to provide a white list saying **who** can stage **which** “**directories**” (actually storage classes)
- Example: in CMS anybody could stage but in ATLAS only the production manager could stage
- **Can this be rolled out?**
 - The code is already **available**
 - Would **violate** the rule “no new features added to the golden release”
 - If it is decided to be worth it, a site should **volunteer** for proper **testing**

J'ai pris l'engagement d'contribuer à valider cette modification sur l'instance dCache de test.

Néanmoins, le déploiement en production est incertain.

Source: A. Sciabà, GDB , 12/05/2010
<http://indico.cern.ch/conferenceDisplay.py?confId=72055>

► FTS & LFC



FTS news

CERN IT
Department

- All sites upgraded to FTS 2.2.3
- myproxy-fts.cern.ch can be decommissioned
- FTS 2.2.4 being built
 - Better handling of timeouts ([bug #65664](#))
 - FTS removes destination (and not source) file if checksum mismatch is detected and filenames are identical – seen by ATLAS ([bug #66744](#))
 - Case-insensitive checksum comparisons ([bug #66507](#))
- Deployment strategy
 - Staged rollout at two Tier-1 sites
 - Installation at all Tier-1 sites

FTS v2.2.4 déployé à TRIUMF et CERN.
Déploiement progressif sur les autres tier-1s à venir dans les prochaines semaines

LFC, DPM news

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- LFC 1.7.4-6 certified
 - Added SURL **bulk method** needed by ATLAS
 - Fixes a problem seen at BNL (too many DB connections)
 - Allows coexistence of 32-bit and 64-bit libraries on 64-bit platforms

► gLExec -- Déploiement



Deployment status

- gLExec working for "ops" at these EGEE/EGI sites
 - CERN
 - KIT
 - NIKHEF
 - PIC (T1)
 - Glasgow
- Test results
 - https://sam-swe-roc-val.cern.ch/nagios/cgi-bin/status.cgi?servicegroup=SERVICE_CE&style=detail
- OSG
 - FNAL reported OK for CMS
 - Test results?
 - BNL?

Jalon pour (presque tous) les tier-1s: gLExec en production fin mai 2010.

Orientation générale vers l'utilisation de ARGUS (par opposition à SCAS).

ALICE avance dans le travail d'adaptation de ALIEN pour le rendre compatible avec l'utilisation de gLExec. Tests réalisés à KIT.

▶ Hepix Virtualization Working Group



Summary

- ◆ A year ago, sites were rejecting any possibility of running remotely generated virtual machine images.
- ◆ Today, we have the skeleton of a **scheme that will enable sites to treat trusted VM images exactly as normal worker nodes.**
 - This enables
 - » VOs to be 100% sure of the worker node environment
 - » (potentially) inclusion in the VM image of the pilot job framework enabling “cloud like” submission of work to sites.
- ◆ **Active involvement of VOs is now highly desirable** as we move towards delivering a proof-of-concept system.
- ◆ Nothing in what is being done
 - prevents sites that wish to do so from implementing Amazon EC2-style instantiation of user generated images, or
 - precludes use of CERNvm.

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- concept or endorser and trust to an endorser by sites using the VM images
- working towards supporting several hypervisors
- set of protocols to be supported by VM image providers
- notion of endorsed image catalogue and their location

Source: T. Cass, GDB , 12/05/2010

<http://indico.cern.ch/conferenceDisplay.py?confId=72055>

Latest requirement: CREAM1.6

- CREAM-CE 1.6 has been released in production for gLite 3.2/sl5_x86_64
 - <https://savannah.cern.ch/patch/?3959>
 - The relevant version for gLite 3.1/sl4_i386 is already released in the staged-rollout
- ALICE sites encouraged to migrate to CREAM1.6 as soon as possible:
 1. A large number of bugs reported by ALICE sites admins have been solved in the mentioned version
 2. It will allow a lighter distribution of the current gLite3.2 VOBOX

La liste détaillée des défauts corrigés dans cette version est dans la présentation de Patricia Mendez

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Source: P. Mendez Lorenzo, GDB , 12/05/2010
<http://indico.cern.ch/conferenceDisplay.py?confId=72055>

▶ ALICE (suite)



The future VOBOS

- ▣ Automatic purge procedures
 - Already included in CREAM1.5 according to a configurable policy
 - Sandbox area for a job deleted while purging the job
 - <http://grid.pd.infn.it/cream/field.php?n=Main.HowToPurgeJobsFromTheCREAMDB>
- ▣ Limiters
 - New feature included in CREAM1.6
 - Several users asking for the possibility to save the OSB in CREAM-CE
- ▣ CREAM1.6 exposes for the 1st time the possibility to leave the OSB in the CREAM-CE
 - If OSB can be left in the CREAM-CE a gridftp server at the VOBOS is not longer needed
- ▣ Feature successfully tested by ALICE in Torino (CREAM1.5) trusting the available purge procedure
- ▣ The implementation in AliEn is very simple but not backward compatible

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Utilisation du CE CREAM en tant que repository des output sandbox des jobs.

Approche risquée dans le cas des CE partagés par plusieurs VOs.

WLCG services news: VOBOS

- ▣ For the 2009 approach, ALICE required a 2nd VOBOS at those sites providing both submission backend (LCG-CE vs. CREAM)
 - Motivation extensively explained during previous GDB meetings
- ▣ 2010 approach foresees a single backend: CREAM-CE
 - In principle a single VOBOS is needed
 - What to do with the 2nd VOBOS?
 - ▣ Rescue it: FAILOVER MECHANISM
 - ▣ This approach has been included in AliEnv2.18 to take advantage of the 2nd VOBOS deployed in several ALICE sites
 - ~25 sites currently providing >=2 VOBOS

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Source: P. Mendez Lorenzo, GDB , 12/05/2010
<http://indico.cern.ch/conferenceDisplay.py?confId=72055>

Data Distribution

- System is being pushed to very high levels by simultaneous data and MC reprocessing, plus LHC data taking
- This is revealing week spots in the data transfer rates between sites
 - Issues at both T1s and T2s
 - Time consuming to debug, but essential

BEST 7 DAYS of STEP09

CLOUD	RATE	FILES	RATE	FILES
ASGC	155 MB/s	49,347	207 MB/s	285,051
BNL	640 MB/s	791,691	940 MB/s	1,113,927
CERN	208 MB/s	92,425	182 MB/s	584,935
CNAF	264 MB/s	83,217	237 MB/s	337,651
FZK	364 MB/s	184,151	568 MB/s	948,435
LYON	468 MB/s	227,413	388 MB/s	633,515
NDGF	152 MB/s	44,325	128 MB/s	209,555
PIC	339 MB/s	106,994	272 MB/s	314,142
RAL	405 MB/s	272,820	467 MB/s	637,770
SARA	320 MB/s	104,545	265 MB/s	364,706
TRIUMF	321 MB/s	120,007	264 MB/s	312,129

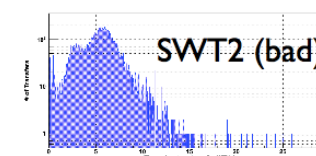
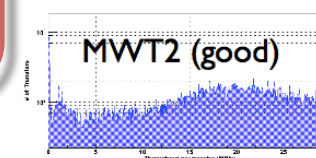
7 DAYS REPRO DISTRIB

Problèmes de transfert des données depuis le tier-1 vers les tier-2s associés (en France et à l'étranger) pendant la campagne de reprocessing de mai 2010

Some Transfer Problems in Detail

- For slow transfers in the FR cloud Lyon seems to be the bottleneck
- Tokyo can get 2x as many files from ASGC on a shared star channel as from a dedicated channel from IN2P3
- Raising IN2P3-TOKYO to 30 slots almost killed IN2P3
- Slow transfers in the US seem to be caused by issues at T2s
- Transferring from other T2s or increasing channel slots from BNL don't improve the situation

TOKYO-LCG2_DATADISK	100%	62 MB/s	26111
BNL-OSG2_DATADISK	100%	19 kB/s	255
IN2P3-CC_DATADISK	100%	17 MB/s	8640
IN2P3-LAPP_DATADISK	100%	5 kB/s	2
IN2P3-LPC_DATADISK	0%	0 kB/s	0
TAIWAN-LCG2_DATADISK	100%	45 MB/s	17214



Source: G. Stewart, GDB, 12/05/2010
<http://indico.cern.ch/conferenceDisplay.py?confId=72055>

Grid Deployment Board, May 12

▶ ATLAS (suite)



- Analyse du problème: 1 des 9 machines utilisées pour exporter les données ATLAS présentait un taux d'échec des transferts particulièrement élevé et ce depuis avril
 - Raisons encore indéterminées
 - Détails: <http://cctools.in2p3.fr/elog/support-atlas/284>
 - GGUS: https://gus.fzk.de/ws/ticket_info.php?ticket=57931

Période: 04/04/2010 – 12/05/2010

Atlas transfer pools	Total number of transfers		Successful transfers		Failed transfers		% failure	
	April	May	April	May	April	May	April	May
pool-atlas-xferout-sn109a	30587	22071	30214	21971	373	100	1.22%	0.45%
pool-atlas-xferout-sn110a	29633	22768	29198	22680	435	88	1.47%	0.39%
pool-atlas-xferout-sn111a	22858	16697	22546	16643	312	54	1.36%	0.32%
pool-atlas-xferout-sn136a	26937	18290	25474	13370	1463	4920	5.43%	26.90%
pool-atlas-xferout-sn137a	28698	21140	28292	21065	406	75	1.41%	0.35%
pool-atlas-xferout-sn138a	27766	21135	27409	21064	357	71	1.29%	0.34%
pool-atlas-xferout-sn150a	28155	21153	27770	21086	385	67	1.37%	0.32%
pool-atlas-xferout-sn151a	28750	22221	28327	22130	423	90	1.47%	0.41%
pool-atlas-xferout-sn152a	26843	21094	26438	21020	405	74	1.51%	0.35%
Sum:	250227	186569	245668	181029	4559	5539		

Source: Y. Calas, 12/05/2010



Current Operational issues 1/2

- ▶ **Staging:** CMS still working on *gsidcap* support natively in the CMS application.
 - ▶ Sites are susceptible to unauthorized staging meanwhile.
 - ▶ Generally pre-staging as a best effort activity by Data Operations is in progress and a variety of techniques are used.
- ▶ **Network:**
 - ▶ We see the peak traffic on the OPN can reach very high values, in some cases dominated by ATLAS T1↔T1 transfers.
 - ▶ Throttles in place will ensure an equitable division of the available bandwidth, but CMS needs to verify this in a resource constrained environment.
 - ▶ There is an effort to improve T1→T2 transfers as well, by having a deep look into FTS performances and configurations.
 - ▶ Sites were asked to provide latest FTSmonitor: https://forge.in2p3.fr/projects/list_files/ftsmonitor

Est-ce que l'instance du FTSmonitor déployée au CC-IN2P3 est accessible aux expériences?

► CMS (suite)



Current Operational issues 2/2

- ▶ **Authorization:** Validation of Multi User Pilot Jobs at Tier-1s in Tier-2s is just starting.
 - ▶ CMS would like to validate the Tier-1s first.
- ▶ **CREAM-CE's:** Used in Production (WMs driven, not pilots).
 - ▶ Integration tests ongoing, as well as monitoring integration.
- ▶ **VOBOXes SL5 migration** at the sites:
 - ▶ mandatory for end of June, where PhEDEx release will be sl5-only.
- ▶ Integrating **HammerCloud** in CMS:
 - ▶ Test instance exists and integration is progressing. The tool will help to identify bottlenecks at the sites and improve job performances.
- ▶ The **CMS VO-card** for WNs is under a full revision.
- ▶ T2's **Physics groups affiliation** is under revision as well.

15/03/10

CMS Ops - GDB 12 May 2010

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Source: J. Flix, GDB , 12/05/2010
<http://indico.cern.ch/conferenceDisplay.py?confid=72055>



Site issues

○ GridKA:

- ❑ 3rd : SQLite problems due to the usual nfslock mechanism getting stuck. Restarted the nfs server.
- ❑ 5-14 (April): Shared area performances: site banned during real data taking. Concurrent high load put by ATLAS...added more h/w on their NFS servers
- ❑ 26th April: MDST Space full (ALARM ticket sent due to the missed response to the automatic notification on the week end)
- ❑ 28 April: PNFS to be restarted: 1 day off.

○ IN2P3:

- ❑ Only Reported instabilities of the SRM endpoint according SAM unit test on MARCH
- ❑ 24-25 April: LRMS database down
- ❑ 26-27 AFS major issue.
- ❑ SIGUSR1 signal sent instead of SIGTERM before sending the SIGKILL

► Sondes NAGIOS & Disponibilité



- [•••] **from May 2010 onwards, the official OPS availability reports will be generated from Nagios.**
- The OPS tests based on SAM will continue in parallel until a recipe (and a script if necessary) is provided for sites downloading the SAM results for their local use.
- No date was agreed for turning off the SAM OPS tests but Ian Bird stated that this needed to be done as soon as possible.
- Concerning the VO tests, these are also being moved to Nagios. For ALICE the work has already been completed. The current planning is LHCb: by end of June, ATLAS and MS: by end of July.

Source: Minutes de la réunion du MB du 11/05/2010
<https://twiki.cern.ch/twiki/pub/LCG/MbMeetingsMinutes/MB-Minutes-100511-F2F.htm>



Incidents

► Incidents



- 22/04: incident Oracle impactant plusieurs expériences et le CIC portail
 - Détails: <https://cctools.in2p3.fr/operations/wiki/doku.php?id=incidents:problemeoracle20100422>
- 24/04: SAPHIR indisponible, impact direct sur BQS
 - Service batch arrêté pendant 4 heures le 25/04
 - Détails: <https://cctools.in2p3.fr/operations/wiki/doku.php?id=incidents:problemeoracle20100422>
- 26/04: Indisponibilité d'AFS
 - Fonctionnement partiel pendant 19 heures
 - Impact sur LFC, FTS, TopBDII
 - Détails: <https://cctools.in2p3.fr/operations/wiki/doku.php?id=incidents:problemeafs20100426>
- 17/05: Problèmes liés à la software area LHCb
 - Détails: https://gus.fzk.de/ws/ticket_info.php?ticket=5828

► Incidents (suite)



- 20/05 15h: problème matériel sur le serveur maître BQS
 - Détails: <http://cctools.in2p3.fr/elog/exploitation/3807>
- 21/05: 14 fichiers ATLAS perdus suite à la perte d'une bande HPSS (JT6311)
 - Détails: <http://cctools.in2p3.fr/elog/dCache/469>
- 25/05: problème récurrent de machines gelées
 - Détails: <http://cctools.in2p3.fr/elog/exploitation/3810>

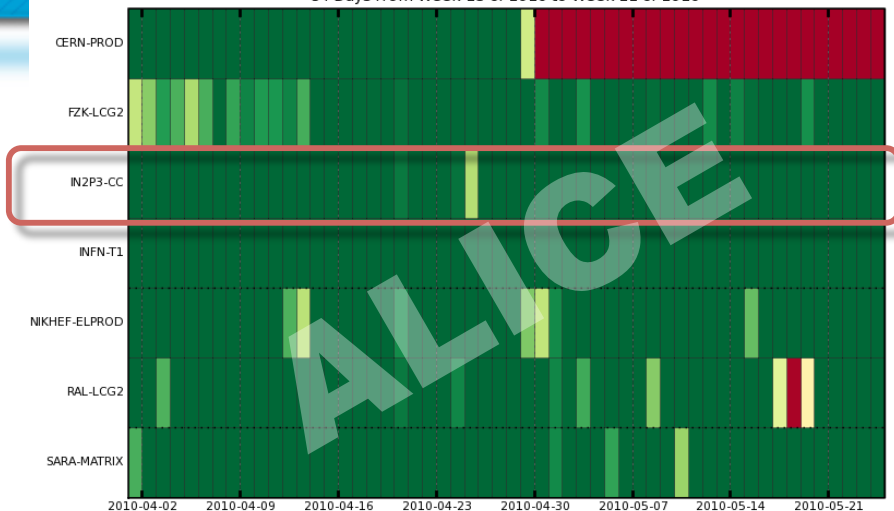


Disponibilité du site

Disponibilité tier-1

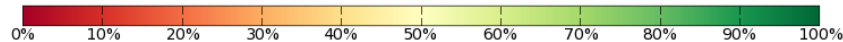
Site Availability using WLCG Availability (FCR critical)

54 Days from Week 13 of 2010 to Week 21 of 2010



Site Availability

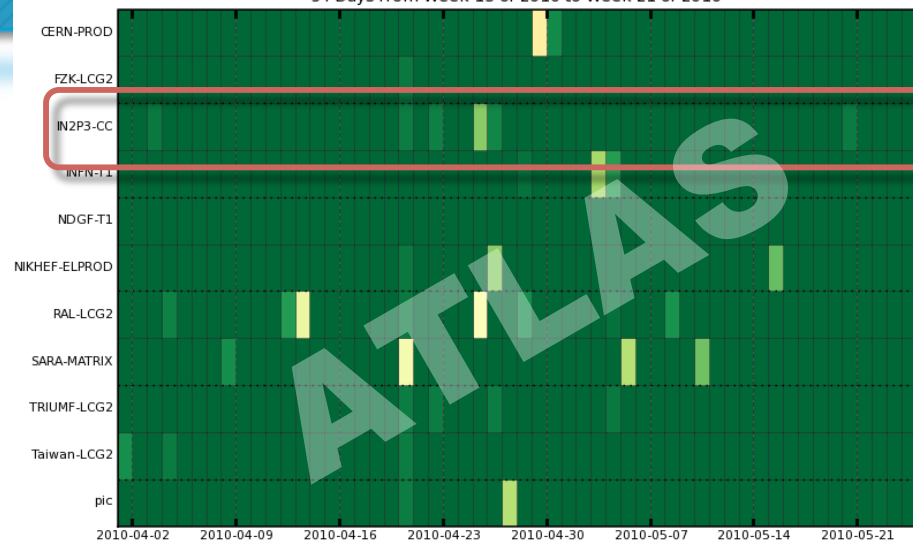
54 Days from Week 13 of 2010 to Week 21 of 2010



Période: Avril 1 – Mai 25 2010

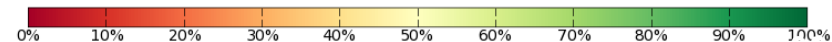
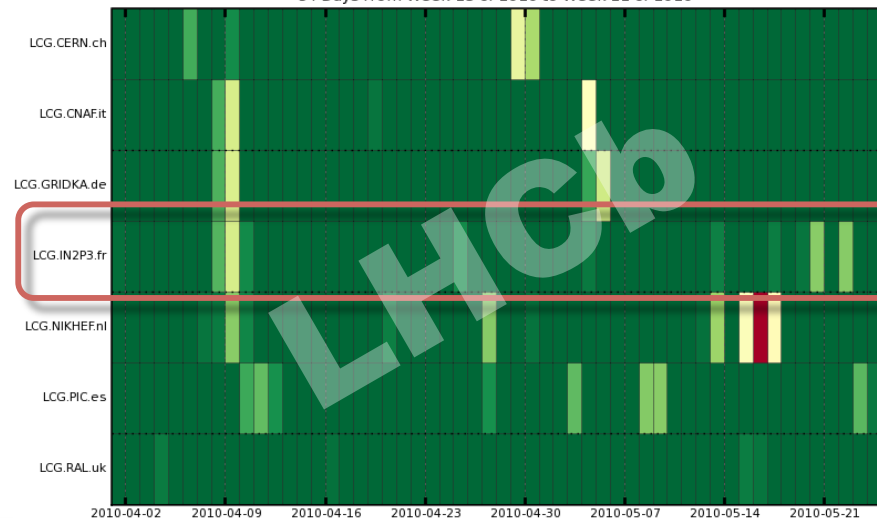
Site Availability using WLCG Availability (FCR critical)

54 Days from Week 13 of 2010 to Week 21 of 2010



Site Availability using WLCG Availability (FCR critical)

54 Days from Week 13 of 2010 to Week 21 of 2010



Source: LHC experiments dashboard <http://dashboard.cern.ch/>

F.Hen

CMS: site readiness status



Tier-1

T1_FR_CCIN2P3																										
Site Readiness Status: NR R R R R R R R R R R R R R R R R R																										
Daily Metric: E O E O O E O O O O O O O O O O O O O O O																										
Maintenance: Up																										
Job Robot: 100% 100% 100% 100% 99% 100% 99% 100% 100% 99% 100% 99% 100% 99% 99% 99% 99% 99% 100% 100% 99% 100%																										
SAM Availability: 88% 100% 88% 92% 100% 84% 100% 100% 92% 100% 100% 100% 96% 96% 100% n/a* 100% 100% 100% 100% 96%																										
Good T1 links from T0: 1/1																										
Good T1 links from T1s: 6/6 6/6 6/6 6/6 6/6 6/6 7/7 6/6 5/6 5/6 6/6 6/6 6/6 6/6 6/6 6/6 6/6 6/6 6/6 6/6 6/6																										
Good T1 links from T2s: 32/32 32/32 32/32 32/32 31/32 30/32 30/32 30/32 30/32 31/32 31/32 30/31 30/31 30/31 29/32 30/32 29/31 29/32 31/32 28/32 30/32																										
Good T1 links to T1s: 7/7 7/7 7/7 6/7 7/7 7/7 7/7 6/7 6/7 7/7 7/7 7/7 7/7 7/7 7/7 7/7 7/7 7/7 7/7 7/7 7/7																										
Good T1 links to T2s: 37/48 37/48 42/48 41/48 41/48 40/48 41/48 43/47 42/47 46/48 45/49 44/48 45/50 44/48 40/49 45/49 43/48 40/49 40/49 39/48 40/48																										
Active T1 links from T0: 1																										
Active T1 links from/to T1s: 7(d)-7(u)																										
Active T1 links to T2s: 45 45 45 45 45 n/a 45 45 45 45 45 45 45 45 46 46 n/a 46 46 46																										
05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26																										
May																										
Report made on 2010-05-26 09:25:40 (UTC)																										

Report made on 2010-05-26 09:25:40 (UTC)

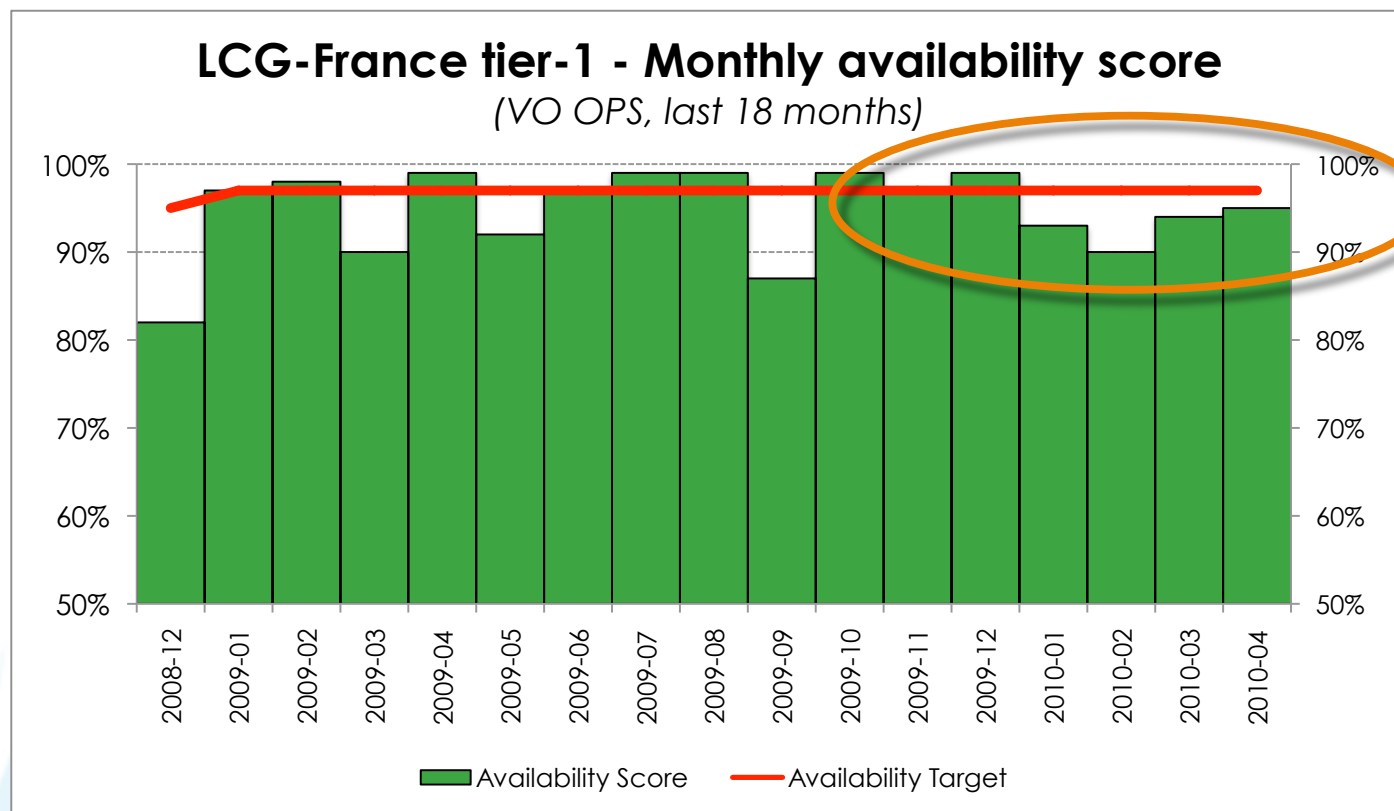
Echecs récurrents des tests SAM (particulièrement SRM) ont un impact négatif sur la disponibilité de ces sites telle que perçue par CMS

Tier-2

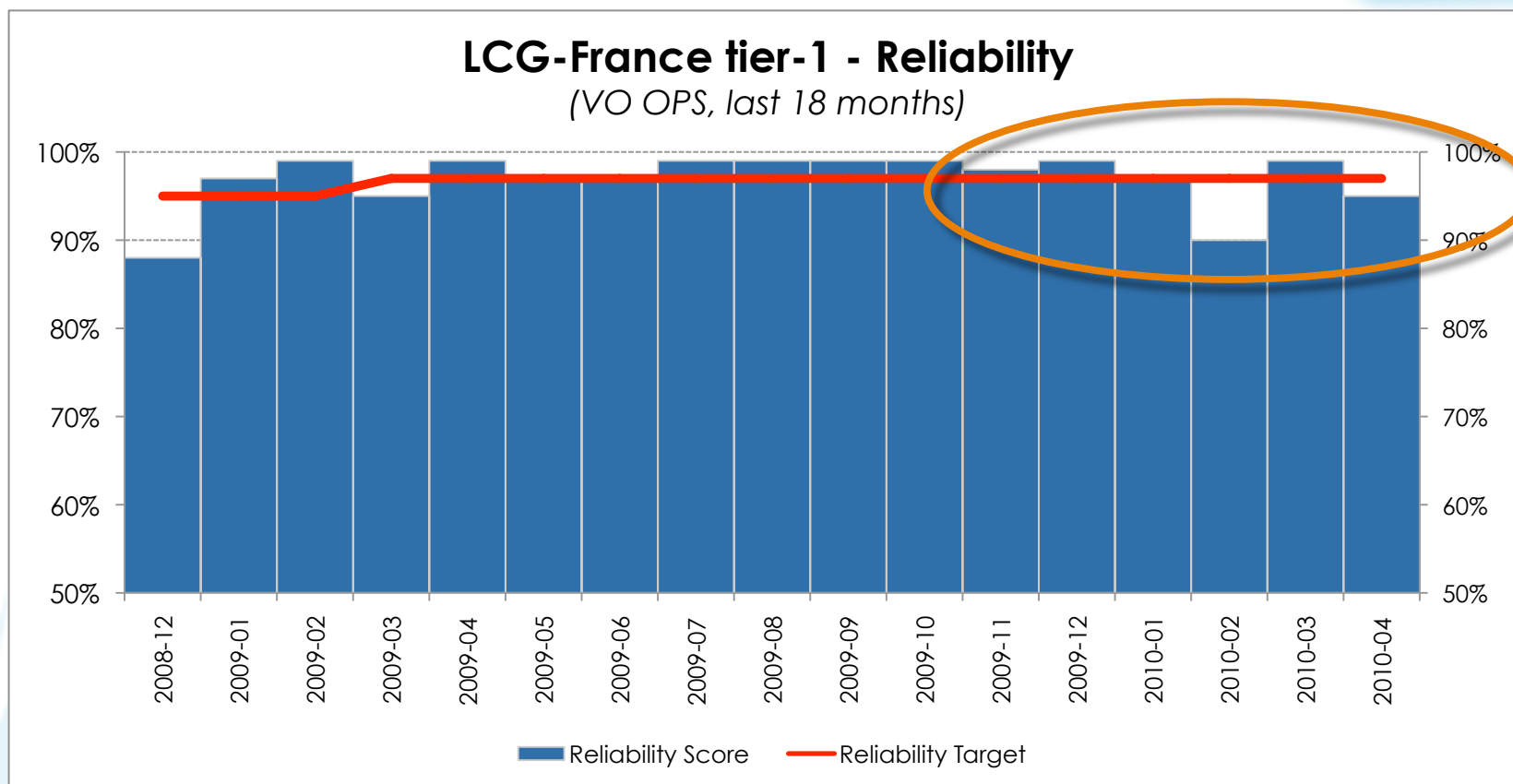
T2_FR_CCIN2P3																										
Site Readiness Status: R R R R R R R R R R W R R R R																										
Daily Metric: O O O O O O O O O O O O O O O E O O O O																										
Maintenance:	Up	Up	Up	Up	Up	Up	Up	Up	Up	Up	Up	Up	Up	Up	Up	Up	Up	Up	Up	Up	Up	Up	Up	Up	Up	Up
Job Robot:	100%	100%	100%	100%	100%	100%	100%	100%	100%	99%	100%	100%	100%	100%	99%	100%	100%	100%	87%	99%	100%	99%	99%	99%	99%	99%
SAM Availability:	88%	100%	88%	92%	100%	84%	100%	100%	96%	100%	100%	100%	96%	100%	n/a*	76%	84%	93%	100%	96%						
Good T2 links from T1s:	8/8	7/8	7/8	8/8	8/8	8/8	8/8	8/8	7/8	7/8	8/8	8/8	8/8	8/8	8/8	8/8	8/8	8/8	8/8	8/8	8/8	8/8	8/8	8/8	8/8	8/8
Good T2 links to T1s:	8/8	8/8	8/8	8/8	8/8	8/8	8/8	8/8	8/8	8/8	8/8	8/8	8/8	8/8	8/8	8/8	8/8	8/8	8/8	8/8	8/8	8/8	8/8	8/8	8/8	8/8
Active T2 links from T1s:	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Active T2 links to T1s:	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26																										
May																										

Report made on 2010-05-26 09:25:40 (UTC)

► Disponibilité & Fiabilité tier-1



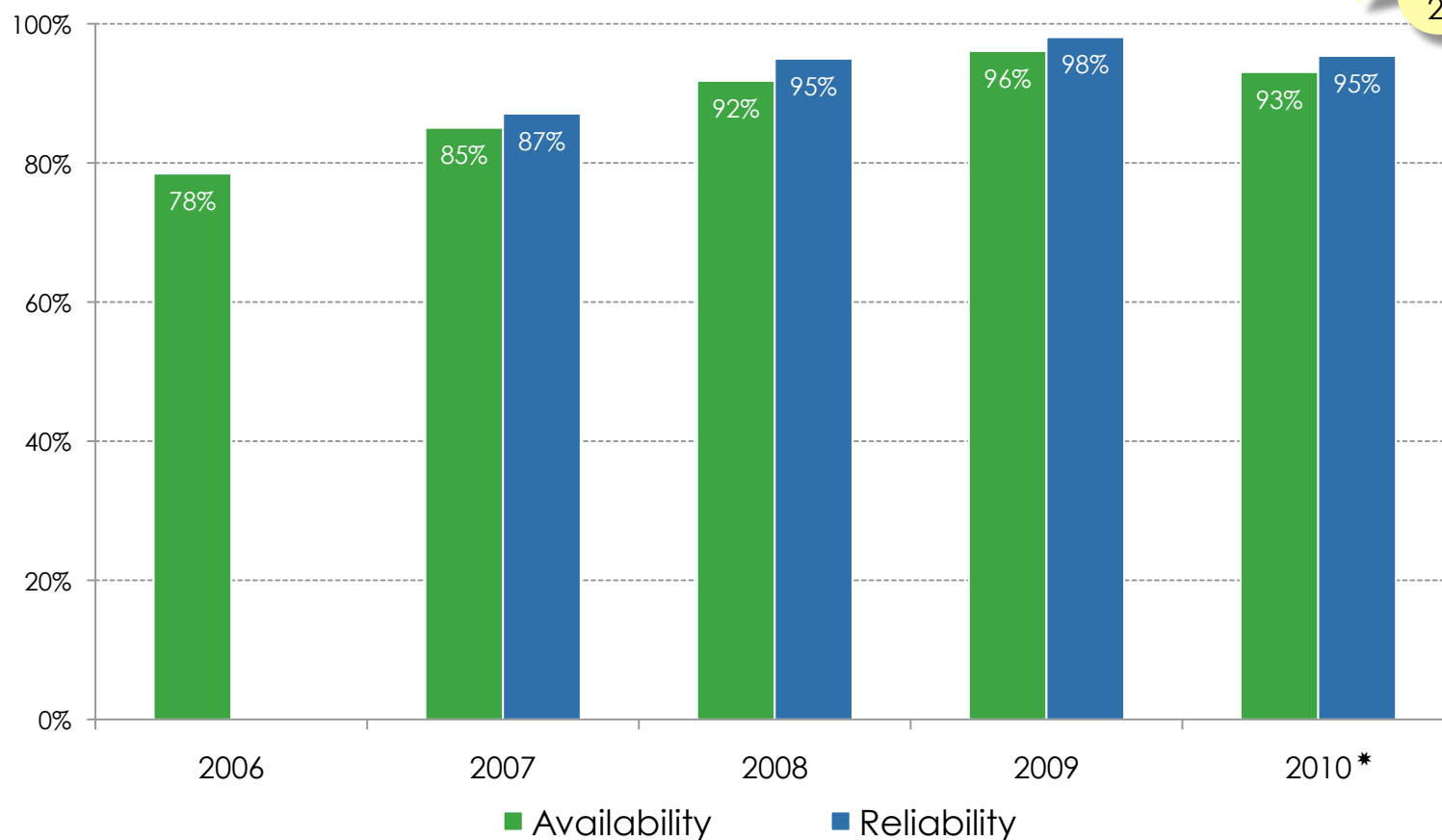
► Disponibilité & Fiabilité tier-1 (suite)



► Disponibilité & Fiabilité tier-1 (suite)

Nous avons de la marge de progression pour revenir sur le niveau de disponibilité et de fiabilité atteint en 2009

LCG-France tier-1: yearly evolution of availability and reliability
(VO OPS)



*janvier-avril 2010



Chantiers en cours ou à venir

► Stockage



- Activation de la possibilité de staging pour les storage elements xrootd de ALICE
 - En attente de validation de cette nouvelle fonctionnalité par ALICE



Petites Annonces

▶ Événements à venir



- Jamboree on Evolution of WLCG Data & Storage Management
 - Amsterdam, 16-18 juin 2010
 - <http://indico.cern.ch/conferenceDisplay.py?confId=92416>
- Workshop on adapting applications and computing services to multi-core and virtualization
 - CERN, 21-22 juin 2010
 - <http://indico.cern.ch/conferenceDisplay.py?confId=89681>
- Réunion des sites LCG-France
 - Marseille, 24-25 juin 2010
 - <http://indico.in2p3.fr/conferenceDisplay.py?confId=3760>
- WLCG Collaboration Workshop
 - Londres, 7-9 juillet 2010
 - <http://indico.cern.ch/conferenceDisplay.py?confId=82919>
- CHEP 2010
 - Taiwan, 18-22 octobre 2010
 - <http://event.twgrid.org/chep2010/index.html>

► Aujourd'hui et à venir



- Aujourd'hui
 - Bilan de la contribution du CC-IN2P3 aux premières semaines de prise de données
- Réunions premier semestre 2010
 - ✓ 14 janvier
 - ✓ 11 février
 - ✓ 25 mars
 - ✓ 15 avril
 - ✓ 27 mai
 - 17 juin
 - 22 juillet
 - Agendas: <http://indico.in2p3.fr/categoryDisplay.py?categId=102>

▶ A venir



- Changement des coordinateurs
 - Pierre Girard assurera la coordination des activités liées aux expériences LHC au CC-IN2P3
 - Frédérique Chollet (LAPP) assurera le rôle de responsable technique du projet LCG-France
 - *Fairouz Malek reste responsable scientifique du projet*
 - A partir du 01/07/2010
- Prochaine réunion de coordination tier-1 & AF
 - Préparée et présidée par Pierre
 - Frédérique sera invitée

► Merci



- Il ne me reste qu'à vous remercier pour vos contributions respectives à ce projet pendant ces 6 dernières années
- Nous avons préparé notre site à jouer le rôle attendu au sein de la collaboration WLCG
 - Même si beaucoup de travail reste devant nous
- La contribution française est très visible et ceci pour une partie significative est grâce à cet effort collectif

► Merci !



- Histoire de mettre en pratique

谢谢

[xiè xiè]

► Questions/Commentaires

