



LCG-France Project Status

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Réunion Sites LCG-France Annecy, May 18-19 2009



Contents

- LCG-France contribution to WLCG
- Ongoing work
- Progress since last meeting
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Global infrastructure



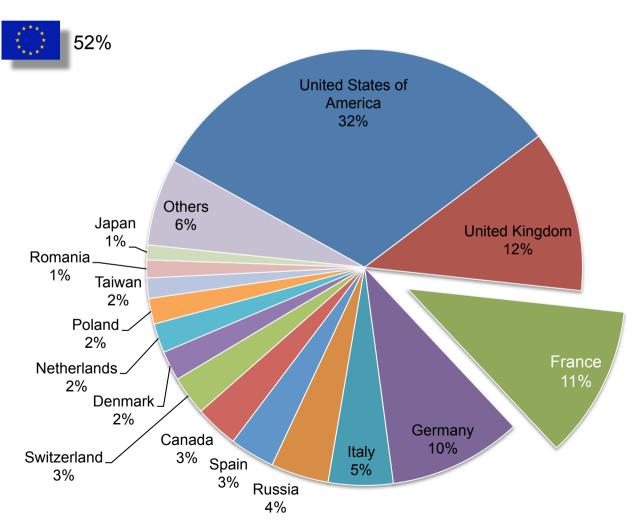
to a grid infrastructure
which provided CPU
resources to LHC
experiments in 2008 (43
countries)

Users currently registered in LHC VOs have certificates issued by authorities in these countries

Actual contribution: CPU All sites



All LHC VOs – Jan 2008-Apr 2009



43 countries contribute CPU to the LHC experiments

Top 10 countries crontribute 85% of CPU

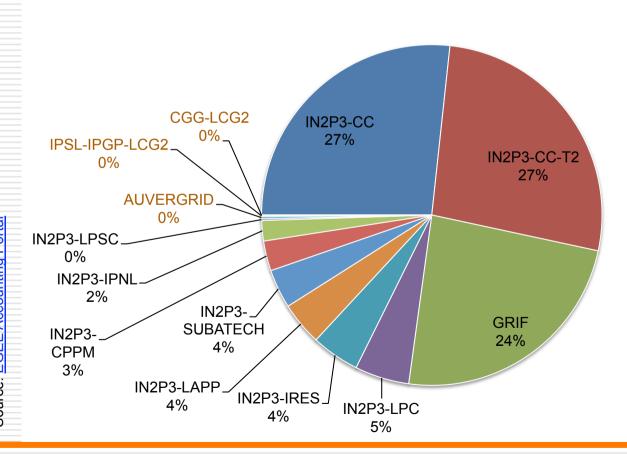


Source: EGEE Accounting Portal

Actual contribution: CPU All sites (cont.)

LCG-France - CPU contribution per site

All LHC VOs -- Jan2008-Apr2009

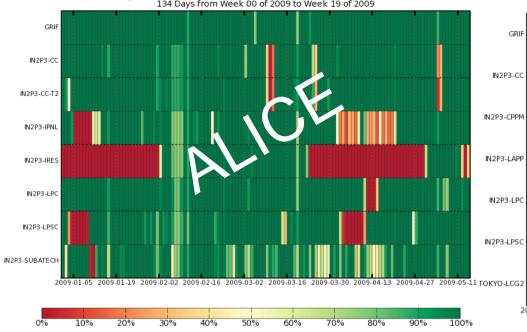


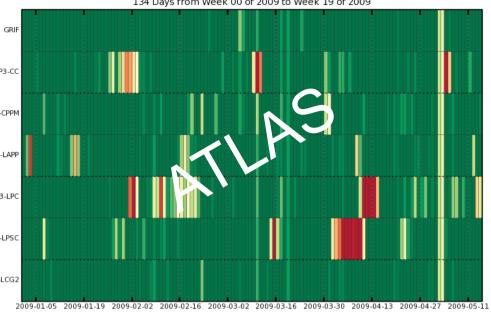
Role	Site	ALICE	ATLAS	CMS	LHCb
Tier-1	IN2P3-CC	✓	✓	✓	✓
	IN2P3-CC-T2	✓	✓	✓	✓
	GRIF	✓	✓	✓	✓
Tion 2	IN2P3-LPC	✓	✓		✓
Tier-2	IN2P3-IRES	✓		✓	
	IN2P3-LAPP		✓		✓
	IN2P3-SUBATECH	✓			
	IN2P3-CPPM		✓		✓
Tier-3	IN2P3-IPNL	✓		✓	
	IN2P3-LPSC	✓	✓		



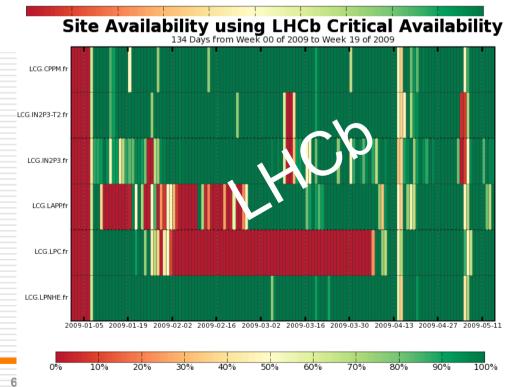
Site Availability using WLCG Availability (FCR critical 134 Days from Week 00 of 2009 to Week 19 of 2009

Site Availability using WLCG SRM2 134 Days from Week 00 of 2009 to Week 19 of 2009

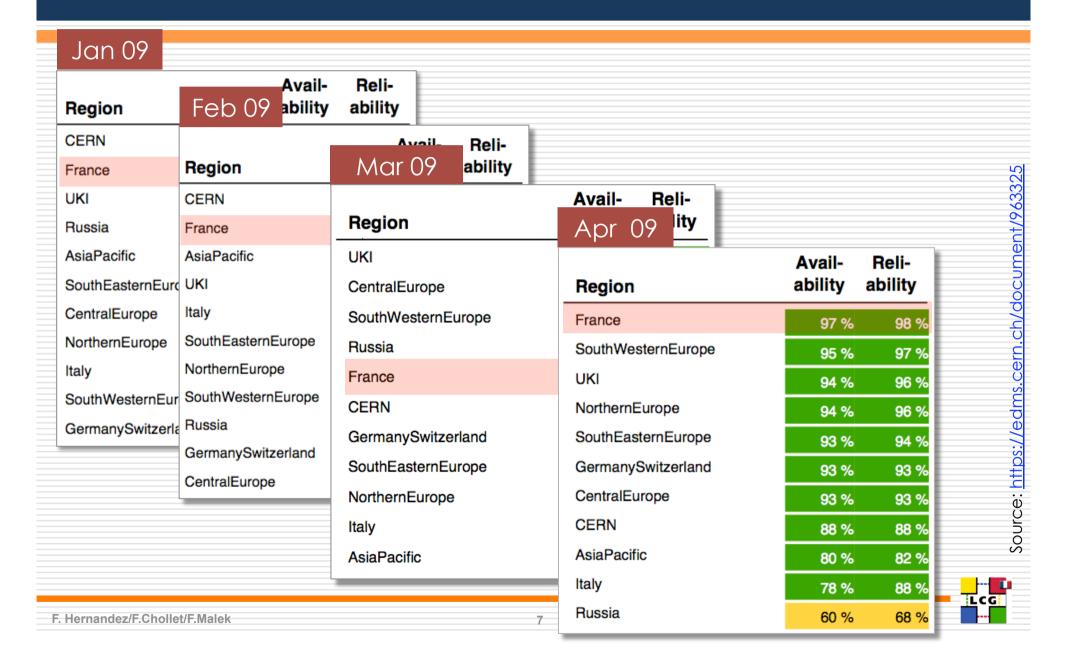




Site Availability 134 Days from Week 00 of 2009 to Week 19 of 2009 T1 FR CCIN2P3 T2_FR_CCIN2P3 T2_FR_GRIF_IRFU T2_FR_GRIF_LLR T2_FR_IPHO T3_FR_IPNL 2009-01-05 2009-01-19 2009-02-02 2009-02-16 2009-03-02 2009-03-16 2009-03-30 2009-04-13 2009-04-27 2009-05-11 30% 50% 60% 100% 20% 70% 80% 90%



Availability & Reliability – EGEE Regions



Availability & Reliability – EGEE France

Apr 09

Region Site France (France)

AUVERGRID

CGG-LCG2

ESRF

GRIF

IBCP-GBIO

IN2P3-CC

IN2P3-CC-T2

IN2P3-CPPM

IN2P3-IPNL

IN2P3-IRES

IN2P3-LAPP

IN2P3-LPC

IN2P3-LPSC

IN2P3-SUBATECH

IPSL-IPGP-LCG2

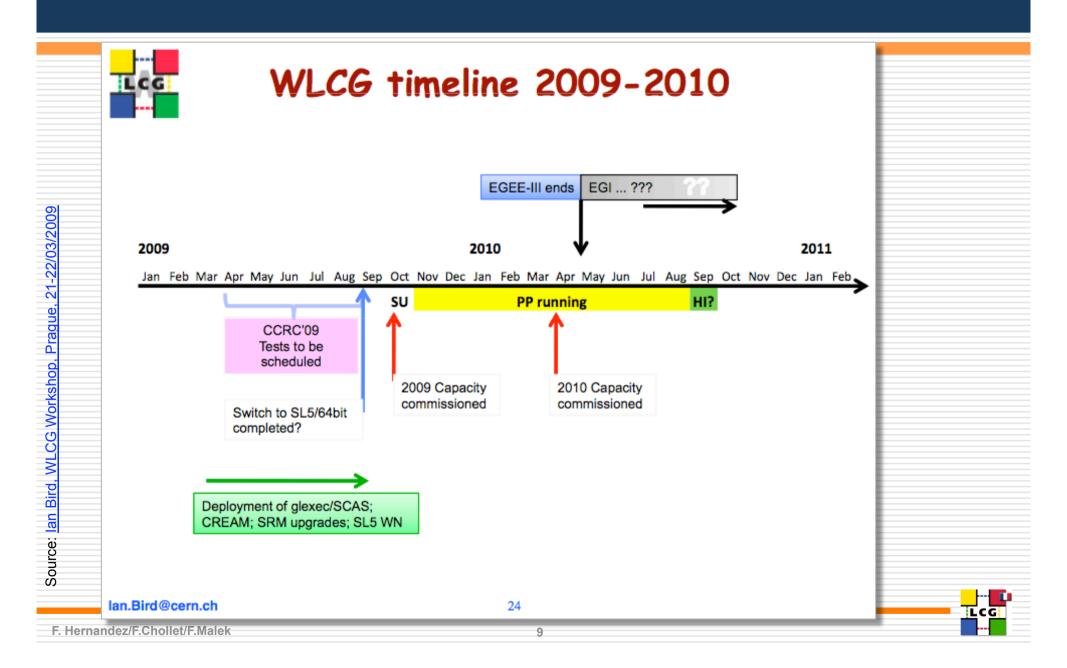
Ces chiffres
paraissent suspects
pour certains sites
(Phy.CPU =
Log.CPU)

Phy.	Log.		Avail-	Reli-	Availability History		
CPÚ	_	KSI2K	ability	ability	Jan-09	Feb-09	Mar-09
42	42	75	98 %	98 %	98 %	100 %	98 %
80	80	49	91 %	91 %	46 %	73 %	96 %
16	16	43	86 %	86 %	83 %	89 %	98 %
3,338	2,180	3,908	100 %	100 %	99 %	100 %	92 %
10	10	5	55 %	97 %	60 %	67 %	94 %
1,074	4,296	3,832	99 %	99 %	97 %	98 %	90 %
1,074	4,296	3,832	99 %	99 %	96 %	97 %	89 %
358	358	537	98 %	99 %	99 %	97 %	95 %
452	440	656	98 %	99 %	98 %	96 %	98 %
664	628	1,526	84 %	84 %	95 %	96 %	93 %
512	512	1,133	96 %	98 %	94 %	100 %	98 %
448	448	802	84 %	99 %	94 %	93 %	99 %
120	112	43	71 %	96 %	97 %	99 %	94 %
275	380	803	97 %	97 %	99 %	96 %	99 %
34	34	41	96 %	96 %	94 %	100 %	96 %

Source: https://edms.cern.ch/document/963325



Calendrier



WLCG - Ongoing work

- User-level accounting
- Improving monitoring tools for various users
 - Experiments & sites
- Automated collection of and reporting on installed CPU and storage capacity
- Initial deployment of Scientific Linux v5 for worker nodes, for validation purposes
 - Bulk CPU capacity not expected running SL5 before September 2009
- Switch to new CPU unit SPEC-HEP 2006
 - https://hepix.caspur.it/benchmarks/doku.php?id=homepage
- Virtualization
- STEP'09



Progress since previous meeting

- Core of a dedicated farm for end-user analysis in place and tests started (CC)
- Pilot testing or early adopters of some services at several sites
 - WMS (GRIF), CREAM CE (Subatech), glexec & SCAS (CC), ...
- Several software and hardware updates
 - FTS, VO boxes, WMS, CEs, ...



Project Management

- Contribution of LCG-France to the funding of the tier-2s and tier-3s: on time
- Risk analysis: belated
- Quarterly all-sites meetings: first experience seems worth to continue



Concerns

- Connectivity of LAPP to the national network, before LHC starts
- Infrastructure of tier-1
- Performance of the access to mass storage at tier-1
 - Yet to demonstrate that it can cope with requirements by LHC experiments
- Stability of the storage components
- Requirements for data analysis not yet understood
- Lack of sufficient regulation mechanisms
 - Inter-site data transfering
 - Different activities by the same experiment within a single site



This meeting

- Update on tier-1 activities and infrastructure
- Updates on some other sites
- Experiments
- Transition to the French NGI
 - organization and day-to-day operations
- Updates on working groups
 - accounting and monitoring
- Connectivity update
 - WAN and LANs
- LHC data analysis



More Information

- LCG-France website http://lcg.in2p3.fr
- Agendas
 - http://indico.in2p3.fr/categoryDisplay.py?categId=59



Questions



