

25-Nov-08		WLCG High Level Milestones – 2008/09														
ID	Date	Milestone	Done (green)				Late < 1 month (orange)				Late > 1 month (red)					
			ASGC	CC IN2P3	CERN	DE-KIT	INFN CNAF	NDGF	PIC	RAL	SARA NIKHE	TRIUM F	BNL	FNAL		
VOBoxes Support																
WLCG-07-04	Apr 2007	VOBoxes SLA Defined Sites propose and agree with the VO the level of support (upgrade, backup, restore, etc) of VOBoxes	Aug 2008	Aug 2008						Aug 2008						
WLCG-07-05	May 2007	VOBoxes SLA Implemented VOBoxes service implemented at the site according to the SLA	Aug 2008	Aug 2008					Mar 2008	Aug 2008		Apr 2008				
WLCG-07-05b	Jul 2007	VOBoxes Support Accepted by the Experiments VOBoxes support level agreed by the experiments	ALICE	n/a							n/a		n/a	n/a	n/a	
			ATLAS							n/a					n/a	
			CMS							n/a				n/a	n/a	n/a
			LHCb	n/a						n/a				n/a	n/a	n/a
VOMS Job Priorities																
VOMS Milestones below suspended until the VOMS Working Group defines new milestones.																
WLCG-07-06b	Jun 2007	New VOMS YAIM Release and Documentation VOMS release and deployment. Documentation on how to configure VOMS for sites not using YAIM	EGEE-SA1													
WLCG-07-06	Apr 2007	Job Priorities Available at Site Mapping of the Job priorities on the batch software of the site completed and information published														
WLCG-07-07	Jun 2007	Job Priorities of the VOs Implemented at Site Configuration and maintenance of the jobs priorities as defined by the VOs. Job Priorities in use by the VOs.														
WLCG High Level Milestones - 2008																
MSS/Tape Metrics																
WLCG-08-03	April 2008	Tape Efficiency Metrics Published Metrics are collected and published weekly				June 2008										
Tier-1 Procurement																
WLCG-07-17	1 Apr 2008	MoU 2008 Pledges Installed To fulfill the agreement that all sites procure they MoU pledged by April of every year	Sept 2008	CPU OK May Disk Sep 08	July 2008	Apr 2008	CPU Jul 08 Disk Sep 08	CPU OK May Disk Sep 08	CPU OK May Disk	Apr 2008	Nov 2008	Apr 2008	CPU OK Disk Nov 08	CPU OK May Disk		
WLCG-08-04	Sep 2008	Sites Report on the Status of the MoU 2009 Procurement Reporting whether is on track with the MoU pledges by April. Or which is the date when the pledges will be fulfilled.		Tender Sept Jan Install May	Tender Sept Dec Install Apr	Tender Sept Oct Install Apr	Tender Sept Install May	Tender Sept Install Apr	Tender Oct	Tender CPU Sep Disk Oct	Tender Sept Install	Tender CPU Disk Oct	Tender CPU Sep Disk Oct	Tender Sep Install Apr		
glExec/Pilot Jobs																
WLCG-08-14	May 2008	Pilot Jobs Frameworks studied and accepted by the Review working group Working group proposal complete and accepted by the Experiments.	ALICE			ATLAS			CMS			LHCb				
	Dec 2008	SCAS Solutions Available for Deployment Certification successful and SCAS packaged for deployment														
	Jan 2009	SCAS Verified by the Experiments Experiment verify that the SCAS implementation is working (available at CNAF and NL-T1)	ALICE n/a			ATLAS			CMS n/a ?			LHCb				
	Feb 2009	SCAS + glExec Deployed and Configured at the Tier-1 Sites SCAS and glExec ready for the Experiments.														
	Feb 2009	SCAS + glExec Deployed and Configured at the Tier-2 Sites SCAS and glExec ready for the Experiments.														
SAM VO-Specific Tests																
WLCG-08-08	Jun 2008	VO-Specific SAM Tests in Place With results included every month in the Site Availability Reports.	ALICE			ATLAS			CMS			LHCb				
Tier-2 Federations Milestones																
WLCG-08-09	Jun 2008	Weighted Average Reliability of the Tier-2 Federation above 95% for 80% of Sites Average of each Tier-2 Federation weighted according to the sites resources	See separated table of Tier-2 Federations.													
SLC5 Milestones																
	Dec 2008	SLC5 gcc 4.3 (WN 4.1 binaries) Tested by the Experiments Experiments should test whether the MW on SL5	ALICE			ATLAS			CMS			LHCb				
	Jan 2009	SLC5 Deployed by the Sites (64 bits nodes) Assuming the tests by the Experiments were successful. Otherwise a real gcc 4.3 porting of the WN software is needed.														
Tier-1 Sites Reliability - Dec 2008																
WLCG-08-11	Dec 2008	Tier-1 Sites Reliability above 97% Considering each Tier-0 and Tier-1 site	Jul 95%		94		79	88			91					
			Aug 95%					43								

ID	Date	Milestone	ASGC	CC IN2P3	CERN	DE-KIT	INFN CNAF	NDGF	PIC	RAL	SARA NIKHE F	TRIUM F	BNL	FNAL
			Sept 95%			90	82				94			
			Oct 95%			84	90	92			83			
			Nov 95%											
			Dec 97%											
WLCG-08-12	Dec 2008	Average of ALL Tier-1 Sites above 98% The average across ALL Tier-1 sites should reach a reliability above 97%												
WLCG-08-11	Dec 2008	VO-Specific Tier-1 Sites Reliability Considering each Tier-0 and Tier-1 site	Nov 2008											
			Dec 2008											
			Jan 2009											
Tier-1 Sites Procurement - 2009														
WLCG-09-01	1 Apr 2009	MoU 2009 Pledges Installed To fulfill the agreement that all sites procure they MoU pledged by April of every year *TBC*												
Accounting Milestones														
		Wall-Clock Time Included in the Tier-2 Accounting Reports The APEL Report should include CPU and wall-clock accounting												
		Tier-2 Sites Report Installed Capacity in the Info System Both CPU and Disk Capacity is reported in the agreed GLUE 1.3 format.												
		User Level Accounting (verify with the Experiments)												
SRM Milestones														
	Dec 2008	SRM Short-Term Solutions Available for Deployment The SRM implementation are ready for deployment			CASTOR			dCache		DPM		StoRM		BestMan
	Jan 2009	SRM Short-Term Solutions Deployed at the Tier-1 Sites Installation at the Tier-1 Sites												
FTS Milestones														
	Jan 2009	FTS Deployed on SL4 at the Tier-1 Sites FTS is ready to be installed on SL4 at the Tier-1 Sites												
Metrics and Monitoring Milestones														
	Nov 2008	Experiments Dataflows clear for the Tier-1 Sites Experiments should present the data flows they expect to reach at the Sites (a la LHCB)			ALICE			ATLAS		CMS				LHCb
	Dec 2008	Tier-1 Sites Define Their MSS Metrics Tier-1 Sites specify which metrics are going to be collected to demonstrate the dataflow supported												
	Jan 2009	Tier-1 Sites Show Their MSS Metrics Tier-1 Sites specify where their MSS metrics are available+A56												
	Feb 2009	Nagios (or equiv) Installed at the Tier-1 Sites Tier-1 Sites should be able to receive and handle alarms and problem notifications via Nagios												
		Monitoring of the Storage Systems The Storage systems used provide monitoring information to Sites and Experiments			CASTOR			dCache		DPM		StoRM		BestMan
		Performance Metrics? User Response, Services Downtimes?												
CPU Benchmarks/Units Milestones														
	Dec 2008	CPU New Unit Working Group Completed Agreement on Benchmarking Methods Conversion Proposal and Test Machines												
	Jan 2009	Experiments Requirement in the CPU New Unit Experiments should convert their requirements to the new unit (or by LCG Office?)			ALICE			ATLAS		CMS				LHCb
	Jan 2009	Sites Pledges in the CPU New Unit Pledged from the Sites should be converted to the new unit												LCG Office
Other Milestones?														
CREAM														
Dashboards														

ID	Date	Milestone	ASGC	CC IN2P3	CERN	DE-KIT	INFN CNAF	NDGF	PIC	RAL	SARA NIKHE F	TRIUM F	BNL	FNAL	
Completed / Cancelled High Level Milestones															
24x7 Support															
WLCG-07-01	Feb 2007	24x7 Support Definition Definition of the levels of support and rules to follow, depending on the issue/alarm													
WLCG-07-02	Apr 2007	24x7 Support Tested Support and operation scenarios tested via realistic alarms and situations				Apr 2008	June 2008								
WLCG-07-03	Jun 2007	24x7 Support in Operations The sites provides 24x7 support to users as standard operations				July 2008	June 2008		Apr 2008		July 2008				
3D DB Milestones															
WLCG-07-09	Mar 2007	3D Oracle Service in Production Oracle Service in production, and certified by the Experiments												squid frontier	
WLCG-07-10	May 2007	3D Conditions DB in Production Conditions DB in operations for ATLAS, CMS, and LHCb. Tested by the Experiments.												squid frontier	
Site Reliability - June 2007															
WLCG-07-12	Jun 2007	Site Reliability above 91% Considering each Tier-0 and Tier-1 site (Note: orange means > 90% of target)	Apr 88%												
			May 88%												
			Jun 91%												
			Jul 91%												
			Aug 91%												
Sept 91%															
WLCG-07-13	Jun 2007	Average of Best 8 Sites above 93% Eight sites should reach a reliability above 93%	Averages of the 8 Best sites Apr-Sept 2007 Apr 92 - May 94 - Jun 87 - Jul 93 - Aug 94 - Sept 93												
Procurement															
WLCG-07-16	1 Jul 2007	MoU 2007 Pledges Installed To fulfill the agreement that all sites procure the 2007 MoU pledged by July 2007													
FTS 2.0															
WLCG-07-18	Jun 2007	FTS 2.0 Tested and Accepted by the Experiments In production at CERN and accepted tested by each Experiment	ALICE		ATLAS		CMS		LHCb						
WLCG-07-19	Jun 2007	Multi-VO Tests Executed and Tested by the Experiments Scheduled at CERN for last week of June	(will be part of CCRC in February and May 2008)												
WLCG-07-20	Sept 2007	FTS 2.0 Deployed in Production Installed and in production at each Tier-1 Site													
BDII															
WLCG-07-21	Jun 2007	BDII Guidelines Available On how to install BDII on a separated node	EGEE - SA1 (not requested)												
WLCG-07-22	Jun 2007	Top-Level BDII Installed at the Site For each Tier-1 site													
glxexc															
WLCG-07-24	Jul 2007	Decision on Usage of glxexc and Guidelines to Follow	GDB												
Accounting															
WLCG-07-08	Mar 2007	Accounting Data published in the APEL Repository The site is publishing the accounting data in APEL. Monthly reports extracted from the APEL Repository.													
MSS Main Storage Systems															
WLCG-07-25	Jun 2007	CASTOR 2.1.3 in Production at CERN MSS system supporting SRM 2.2 deployed in production at the site	CERN Tier-0												
WLCG-07-26	Nov 2007	SRM: CASTOR 2.1.6 Tested and Accepted by the Experiments at all Sites From the SRM Roll-Out Plan (SRM-16 to -19)	ALICE n/a		ATLAS Nov 2007		CMS Nov 2007		LHCb Nov 2007						
WLCG-07-27	Nov 2007	SRM: dCache 1.8 Tested and Accepted by the Experiments From the SRM Roll-Out Plan (SRM-16 to -19)	ALICE n/a		ATLAS Nov 2007		CMS Nov 2007		LHCb Nov 2007						
WLCG-07-30b	May 2008	SRM Missing MoU Features Implemented With full features agreed in the HEP MoU (srmCopy, etc).	CASTOR		DCache		DPM								
CAF CERN Analysis Facility															
WLCG-07-40	Oct 2007	Experiment provide the Test Setup for the CAF Specification of the requirements and setup needed by each Experiment	ALICE		ATLAS May 2008		CMS June 2008		LHCb May 2008						
MSS Main Storage Systems															
WLCG-07-28	Sept 2007	Demonstrated Tier-0 Performance (Storage, DM) Demonstration that the highest throughput (ATLAS 2008) can be reached.	CERN Tier-0												

