27-Ap	or-09		V	<b>VLCG</b>	High	Level	Miles	tones	5							
				D	one (gree	en)	Late <	1 month (	orange)		Late:	> 1 month	(red)			
ID	Date	Milestone		ASGC	CC IN2P3	CERN	DE- KIT	INFN CNAF	NDGF	PIC	RAL	SARA NIKHE	TRIUM F	BNL	FNAL	
	,	VOBoxes Support										_				
WLCG-	Apr	VOBoxes SLA Defined		Aug	Aug					Aug		Jan				
07-04	2007	Sites propose and agree with the VO the level		2008	2008					2008		2009				
14/1 00		support (upgrade, backup, restore, etc) of VOE	Boxes													
WLCG- 07-05	May 2007	VOBoxes SLA Implemented VOBoxes service implemented at the site according to the site ac	ording to	Aug	Aug				Jan	Aug		Jan				
07-03	2007	the SLA	Jiding to	2008	2008				2009	2008		2009				
WLCG-	Jul	VOBoxes Support Accepted by the	ALICE	n/a						n/a			n/a	n/a	n/a	
07-05b	2007	Experiments	ATLAS						n/a	n/a			TI/ CI	11/4	n/a	
		VOBoxes support level agreed by the								11/a			,	,	II/a	
		experiments	CMS						n/a			n/a	n/a	n/a		
			LHCb	1.0 -					n/a				n/a	n/a	n/a	
			CG Higl	h Lev	el Mile	estone	es - 20	800								
		Pilot Jobs Frameworks														
WLCG-	May	Pilot Jobs Frameworks studied and accepte	d by the													
08-14	2008	Review working group Working group proposal complete and accepted by the			ALICE			ATLAS			CMS			LHCb Nov 2007		
		Experiments.	ed by tile											.2. 200		
		Tier-2 and VOs Sites Reliability Reports														
WLCG-	Jun	Weighted Average Reliability of the Tier-2 F	ederation				See	separat	ed table	of Tier-3	? Feder:	ations				
08-09	2008	above 95% for 80% of Sites Weighted according to the sites CPU resources VO-Specific Tier-1 Sites Reliability Apr 2009					See separated table 80% of the Sites a									
WLCG-												1				
08-11	Apr 2009	VO-Specific Tier-1 Sites Reliability Considering each Tier-0 and Tier-1 site	May 2009													
00 11		(and by VO?)														
			Jun 2009													
		WLO	CG Higl	h Lev	el Mile	estone	es - 20	009								
		SL5 Milestones														
WLCG-	Mar	SL5 gcc 4.3 (WN 4.1 binaries)Tested by the														
09-21	2009 Experiments				ALICE			ATLAS		CMS				LHCb		
		Experiments should test whether the MW on S	SL5													
WLCG-	Jul	SL5 Deployed by the Sites (64 bits nodes)														
09-22	2009	Assuming the tests by the Experiments were successful. Otherwise a real gcc 4.3 porting o	f the WN													
		software is needed.														
		Tier-1 Sites Procurement - 2009														
WLCG-	Sept	MoU 2009 Pledges Installed														
09-01	2009	To fulfill the agreement that all sites procure the	ney MoU													
		pledged by April of every year														
	;	SCAS/glExec Milestones														
WLCG-	Jan	SCAS Solutions Available for Deployment														
09-17	2009	Certification successful and SCAS packaged	for						Done in N	larch 200	19					
WLCG-	Apr	deployment SCAS Verified by the Experiments								OMO						
09-18	2009	Experiment verify that the SCAS implementati	on is	ALICE n/a			ATLAS				CMS n/a ?		LHCb			
		working (available at CNAF and NL-T1)			1#4			1	1		1 * 4 :				1	
WLCG-		SCAS + glExec Deployed and Configured at	the Tier-													
09-19	+ 1 Month	1 Sites SCAS and glExec ready for the Experiments.														
WLCG-		SCAS + glExec Deployed and Configured at	the Tier-													
09-20	+ 3	2 Sites														
		SCAS and glExec ready for the Experiments.  Accounting Milestones														
WLCG-		Wall-Clock Time Included in the Tier-2 Acco	unting													
09-02	Apr 2009	Reports							EI							
		The APEL Report should include CPU and wall-clock							AF	EL						
WI CC	TDD	accounting														
WLCG-	TBD	Tier-2 Sites Report Installed Capacity in the System					0/	4 TO O''	na D	mation or						
09-03		Both CPU and Disk Capacity is reported in the					% C	of T2 Site	s kepo	rung						
09-03																
	TEE	GLUF 13 format														
WLCG-	TBD	User Level Accounting														
		User Level Accounting (verify with the Experiments)														
WLCG- 09-04	:	User Level Accounting (verify with the Experiments) STEP 2009 - Tier-1 Validation														
WLCG- 09-04 WLCG-	Jun	User Level Accounting (verify with the Experiments)	ALICE	n/a						n/a			n/a	n/a	n/a	
WLCG- 09-04	:	User Level Accounting (verify with the Experiments) STEP 2009 - Tier-1 Validation	ALICE ATLAS	n/a					n/a	n/a n/a			n/a	n/a	n/a n/a	
WLCG- 09-04	Jun	User Level Accounting (verify with the Experiments) STEP 2009 - Tier-1 Validation	-	n/a					n/a n/a			n/a	n/a n/a	n/a n/a	_	

ID	Date	Milestone	ASGC	CC IN2P3	CERN	DE- KIT	INFN CNAF	NDGF	PIC	RAL	SARA NIKHE	TRIUM	BNL	FNAL
		CREAM CE Rollout		INZES		KH	CIVAL							
WLCG- 09-25	Apr 2009	Release of CREAM CE for deployment												
WLCG- 09-26	May 2009	All European T1 + TRIUMF and CERN at least 1 CE. 5 T2s supporting 1 CE												
WLCG- 09-27	Jul 2009	2 T2s for each experiment provide 1 CREAM-CE each.		ALICE			ATLAS			CMS			LHCb	
WLCG- 09-28	Sep 2009	50 sites in addition to the ones above												
		SRM Milestones												
WLCG- 09-05	Dec 2008	SRM Short-Term Solutions Available for Deployment	CASTOR		dCache		DPM		StoRM		Bes	tMan		
WLCG- 09-06	TBD	SRM Short-Term Solutions Deployed at Tier-1 Sites Installation at the Tier-1 Sites		***************************************										
		FTS Milestones											,	
WLCG- 09-07		FTS Deployed on SL4 at the Tier-1 Sites FTS is ready to be installed on SL4 at the Tier-1 Sites												
WLCG-	Nov	Metrics and Monitoring Milestones  Experiments Dataflows clear for the Tier-1 Sites												
09-08	2008	Experiments should present the data flows they expect to reach at the Sites (a la LHCb)		ALICE			ATLAS			CMS		١	LHCb Nov 200	7
WLCG- 09-09	TDB	Tier-1 Sites Define Their MSS Metrics Tier-1 Sites specify which metrics are going to be collected to demonstrate the dataflow supported												
WLCG- 09-10	TDB	Tier-1 Sites Show Their MSS Metrics Tier-1 Sites specify where their MSS metrics are available												
WLCG- 09-11	TDB	Automatic Alarms (SAM, etc) at the Tier-1 Sites Tier-1 Sites should be able to automatically send, receive and handle alarms and problem notifications												
WLCG- 09-12	TDB	Monitoring of the Storage Systems The Storage systems used provide monitoring information to Sites and Experiments	CASTOR		dCache		1	DPM		StoRM		BestMan		
WLCG- 09-13	TDB	Performance Metrics? User Response, Services Dowtimes Operations KPI		-										
		CPU Benchmarks/Units Milestones											,	
WLCG- 09-14	Dec 2008	CPU New Unit Working Group Completed Agreement on Benchmarking Methods Conversion Proposal and Test Machines				CPU	J New Be	enchmarki	ng Unit W	/orking G	roup			
WLCG- 09-15	Feb 2009	Sites Pledges in HEPSPEC-06 Pledged from the Sites should be converted to the new unit						LCG (	Office					
WLCG- 09-16	Apr 2009	New Experiments Requirement in HEPSPEC-06 Experiments should convert their requirements to the new unit (or by LCG Office)		ALICE			ATLAS			CMS			LHCb	
WLCG- 09-24	May 2009	Sites Report capacity in the HEPSPEC-06 Pledged from the Sites should be converted to the new unit												
		Completed / Ca	ncelle	ed Hig	<mark>h Lev</mark>	el Mil	eston	es						
		24x7 Support												
WLCG- 07-01	Feb	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			

ID	Date	Milestone		ASGC	CC IN2P3	CERN	DE- KIT	INFN CNAF	NDGF	PIC	RAL	SARA NIKHE	TRIUM	BNL	FNAL
		3D DB Milestones			INZP3		KH	CNAF				-			
WLCG-	Mar	3D Oracle Service in Production													
07-09	2007	Oracle Service in Production, and certified by the Experiments	Э												squid frontier
WLCG- 07-10	May 2007	3D Conditions DB in Production Conditions DB in operations for ATLAS, CMS, at	nd												squid frontier
		LHCb. Tested by the Experiments.													Homaci
		Site Reliability - June 2007													
WLCG-	Jun	Site Reliability above 91%	Apr 88%												
07-12	2007	Considering each Tier-0 and Tier-1 site	May 88% Jun 91%												
		(Note: orange means > 90% of target)	Jul 91%												
			Aug 91% Sept 91%												
WLCG-	Jun	Average of Best 8 Sites above 93%	OCP1 3170				Δvera	nes of ti	ne 8 Bes	et sites	Anr-Sei	of 2007			
07-13		Eight sites should reach a reliability above 93%				Apr 9			lun 87 -				ept 93		
		Procurement													
WLCG- 07-16		MoU 2007 Pledges Installed	2007												
07-16	2007	To fulfill the agreement that all sites procure the MoU pledged by July 2007	2007												
	l	FTS 2.0													
WLCG- 07-18	Jun 2007	FTS 2.0 Tested and Accepted by the Experime In production at CERN and accepted tested by Experiment			ALICE			ATLAS			CMS			LHCb	
WLCG-	Jun	Experiment  Multi-VO Tests Executed and Tested by the													
07-19	2007	Experiments				(	will be p	oart of C	CRC in	Februar	y and M	ay 2008	3)		
WLCG-	Sept	Scheduled at CERN for last week of June FTS 2.0 Deployed in Production													
07-20		Installed and in production at each Tier-1 Site													
		·													
		BDII													
WLCG-	Jun	BDII Guidelines Available			GEE - S										
07-21	2007	On how to install BDII on a separated node		(no	t reques	ted)									
WLCG- 07-22	Jun 2007	Top-Level BDII Installed at the Site For each Tier-1 site													
07-22															
WLCG-	Jul	glexec Decision on Usage of glexec and Guidelines t	10												
07-24		Follow			GDB										
		Accounting													
WLCG-	Mar	Accounting Data published in the APEL Repo	sitory												
07-08	2007	The site is publishing the accounting data in API	EL.												
		Monthly reports extracted from the APEL Reposit	itory.												
		MSS Main Storage Systems													
WLCG-	Jun	MSS Main Storage Systems													
07-25	Jun 2007	CASTOR 2.1.3 in Production at CERN MSS system supporting SRM 2.2 deployed in		CF	ERN Tie	r-0									
		production at the site		- 51											
WLCG-	Nov	SRM: CASTOR 2.1.6 Tested and Accepted by	the		ALICE			ΛTI ΔΩ			CNAC			LUCK	
07-26	2007	Experiments at all Sites			ALICE n/a		ATLAS Nov 2007			CMS Nov 2007			LHCb Nov 2007		
MII 6.5	N.	From the SRM Roll-Out Plan (SRM-16 to -19)													
WLCG- 07-27	Nov 2007	SRM: dCache 1.8 Tested and Accepted by the Experiments	•		ALICE		ATLAS Nov 2007				CMS		LHCb		
01-ZI	2001	From the SRM Roll-Out Plan (SRM-16 to -19)			n/a					Nov 2007		7	Nov 2007		7
WLCG-	May	SRM Missing MoU Features Implemented													
07-30b	2008	With full features agreed in the HEP MoU (srmCopy,		CASTOR			DCache				DPM				
		etc).													
MII 6 5		CAF CERN Analysis Facility													
WLCG- 07-40	Oct 2007	Experiment provide the Test Setup for the CA Specification of the requirements and setup nee			ALICE			ATLAS			CMS			LHCb	
07-40	2007	each Experiment	u <del>c</del> u Dy		ALIOE		N	May 200	8	J	une 200	18	N	1ay 200	8
		MSS Main Storage Systems													
WLCG- 07-28	Sept 2007	Demonstrated Tier-0 Performance (Storage, D Demonstration that the highest throughput (ATL)		CE	ERN Tie	r-0									
MII 6.5	0 - 1	2008) can be reached.													
WLCG- 07-28b	Sept 2007	Demonstrated Tier-0 Export to Tier-1 Sites  Demonstration that the highest throughput (ATL)	ΔS	CI	ERN Tie	r-0									
U1-28D	2007	2008) can be reached.	no	CI		. 0									
WLCG-	Feb	SRM: CASTOR 2.1.6/dCache in Production at	T1												
07-29	2008	From the SRM Roll-Out Plan (SRM-20 to -21a)													
WLCG-	Dec	SRM Implementations with HEP MoU Feature		(	CASTOR	?		DCache			DPM				
07-30	2007	With features agreed in HEP MoU (srmCopy, etc.	c)												

