LHC Computing Grid Project

LCG Verification Milestones

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To be done

- **Agree between experiments and projects on verification milestones with**

    - Realistic dates (delta-dates after delivery of product)

    - Extended description of milestone with metrics on what will be measured/verified

    - Iteration procedure on possible improvements/upgrades during the verification

    - Identification of responsible person/group within the experiment

    - The milestones should include documents summarizing the results and identifying necessary improvements.

- **Can we converge towards a set of milestones for the baseline in a meeting between the area managers and the experiments e.g. at the next PEB (30 Sep)?**

Applications - POOL

Responsible	Name	Date_MS
LCG-APPS	**General release of POOL hybrid data store**	**15 Jul '03**
ATLAS	ATLAS POOL integration: POOL persistency in Release 7	21 Aug '03
ATLAS	ATLAS POOL validation with DC1 data	31 Oct '03
ATLAS	ATLAS POOL Metadata/Event collection validation	31 Jan '04
CMS	Distributed production environment using Grid tools integrated with POOL & SEAL	30 Nov '03
LHCb	POOL integration with Gaudi	19 Dec '03

Responsible	Name	Date_MS
LCG-APPS	**Release of POOL implementation of conditions DB**	**31 Mar '04**
ATLAS	ATLAS validation of POOL beta conditions DB	31 Dec '03

Applications – SEAL, PI & Simulation

Responsible	Name	Date_MS
LCG-APPS	**SEAL V1 release**	**30 Aug '03**
ATLAS	SEAL integration into Athena	31 Dec '03
LHCb	Integration of SEAL plugin manager in Gaudi	19 Dec '03

Responsible	Name	Date_MS
LCG-APPS	**PI**	
ATLAS	ROOT implementation of AIDA histograms in Athena	30 Nov '04
CMS	Fully functional analysis environment integrated with PI	31 Jan '04
CMS	Scalable production environment by LCG	1 Jul '04
CMS	Scalable analysis environment by LCG 31 May '05	31 May '05

Responsible	Name	Date_MS
LCG-APPS	**Generic simulation framework prototype available (G4 & FLUKA)**	**31 Dec '03**
LCG-APPS	**First generic simulation framework production release**	**1 Oct '04**
ATLAS	ATLAS evaluation of generic simulation framework	30 Apr '04

Fabrics

Responsible	Name	Date_MS
LCG-FAB	**Concept of pluggable scheduler and high rate request handling demonstrated**	**1 Oct '03**
LCG-FAB	**Full functional Castor release available**	**1 Mar '05**
ALICE	Verification of new release of CASTOR	Nov '03
ATLAS	Full CASTOR support for ATLAS DC3	30 Jun '05
CMS	Full functional release of Castor LCG integrated (MSS on Grid)	31 Dec '03
LCG-FAB	**Tier0 available - no specific milestone yet**	
CMS	Deployment of Tier0 proto-functionality for CMS DC04	1 Jan '04
CMS	Scalable Tier0 architecture implementation for CMS DC05	1 Jan '05
CMS	Full CERN Fabric LCG worldwide integrated (Tier0 + Tier1)	1 Jul '05
LCG-ALICE	**ALICE DC5**	**1 Oct '03**
ALICE	Verification of target performance for ADC V	Nov '03
LCG-ALICE	**ALICE DC6**	**1 Oct '04**
ALICE	Verification of target performance for ADC VI	Nov '04
LCG-ALICE	**ALICE DC7**	**1 Oct '05**
ALICE	Verification of target performance for ADC VII	Nov '05

GTA

Responsible	Name	Date_MS
LCG-GTA	**Initial software package delivered**	**30 May '03**
ALICE	AliEn production interface to LCG-1 readiness review (prototype design and functionality)	Nov '03
ALICE	AliEn analysis interface to LCG-1 readiness review (prototype design and functionality)	Apr '04
ALICE	AliEn production interface to LCG-1 performance evaluation	Jul '04
ALICE	LCG-1 middleware evaluation	Jul '04
ALICE	AliEn analysis interface to LCG-1 performance evaluation	Oct '04
CMS	Grid components CMS selected for production	1 Apr '04
CMS	Grid analysis components integrated in LCG system for analysis	1 Sep '04

GDA

Responsible	Name	Date_MS
LCG-GDA	**First global service (LCG-1) - Initial availability**	**15 Sep '03**
ALICE	LCG-1 PDC3 production environment verification	Jul '04
ALICE	LCG-1 PDC3 analysis environment verification	Oct '04
ATLAS	ATLAS validation of LCG-1	31 Oct '03
ATLAS	ATLAS production on LCG-1	31 Jan '04
CMS	LCG-1.x fully functional for CMS DC04	30 Nov '03
CMS	LCG-2.x worldwide deployed for CMS Data Challenges	1 Sep '04
LHCb	Deployment of DIRAC in LCG1	28 Nov '03
LHCb	MC production in LCG environment (50% of production in LCG1 by June)	1 Apr '04
LHCb	LHCb analysis environment in LCG - GANGA	1 Jul '04
LHCb	LHCb "final" computing/analysis model	22 Dec '04
LCG-GDA	**Fully operationa LCG-3 service**	**28 Jan ''05**
ALICE	LCG-1 PDC4 production environment verification	Jul '06
ALICE	LCG-1 PDC4 analysis environment verification	Oct '06
CMS	LCG-3.x scalable system for LHC (all experiments share)	1 Apr '05