-- HarryRenshall - 06 Mar 2006

Last Updated 1.11.2007: Add link to ASGC Site Capacity Growth Plans 2007/2008

Updated 26.7.2007: Add plans for Atlas M4 cosmics run 23 August to 2 September.

Updated 25.06.2007: Split off 2006 plans into a separate linked page and remove LHC engineering run.

Updated 05.06.2007: Add in 3D database disk and server requirements and ATLAS quantitative requirements for 3Q.

Updated 25.05.2007: Change date of CMS CSA07 from July to September and precise the expected data rates.

Updated 6.3.2007: Add plans for CMS 5-week cycles and CSA07.

Updated 27.02.2007: Precise plans for Atlas February/March Data Distribution tests (see https://twiki.cern.ch/twiki/bin/view/Atlas/TierZero20071). Change Atlas share from 7.7% to 6.2%.

Updated 15.01.2007: Move the ATLAS Tier0 export tests from 15 Jan to new preliminary date of end Feb.

Updated: 28.11.2006: For CMS request backup to tape by end of year of CSA06 data and add activity plans for December and preliminary plans for the first 6 months of 2007. CMS expect to use up to the MoU pledged resources per site in 2007.

Updated 17.11.2006: For ATLAS revise (downwards, especially in disk) MC requirements for first half of 2007.

Updated 2.11.2006: For ATLAS revise 4Q2006 MC requirements, add MC plans up to mid-2007 and add January 2007 Tier-0 and export exercise.

Updated: 18 August to continue ATLAS data export till end September, move CMS raw data export to second half of August and clarify resource requirements and mid-November end date for CMS CSA06.

Updated 12 June to update Atlas June and CMS July plans.

ASGC-Taiwan Site Capacity Growth Plans 2007/2008

AsgcPlans updated 1 November with information from ATLAS Computing Operations meeting of 16 October 2007

ASGC-Taiwan Site Resource Requirements Timetable for 2006

TaiwanTimeTable2006

ASGC-Taiwan Site Resource Requirements Timetable for 2007

Tier 1 ASGC-Taiwan.	To provide 6.2% of Atlas resources	To provide 12% of CMS resources.	
Month	Atlas Requirements	CMS Requirements	Tier 0 Requirements
January 2007	Provide 133 KSi2K of cpu and an additional 6.2 TB of permanent disk plus	Provide 96 KSi2K of cpu per month and an additional 23 TB of	CERN background

	an additional 5.9 TB of permanent tape storage for this quarter for MC event generation.	permanent tape storage for this quarter for MC event generation.	disk-disk top up to 100MB/sec
February	Provide 133 KSi2K of cpu for MC event generation.	Provide 96 KSi2K of cpu for MC event generation. On 12 Feb begin first LoadTest07 5-week cycle (see CMS plans).	CERN background disk-disk top up to 100MB/sec
March	Provide 133 KSi2K of cpu for MC event generation. From 12 March begin 2 week data distribution tests. Rampup to full 2008 rate from Tier 0 during first week. Raw from Tier 0 to reach 20 MB/s, ESD to reach 25 MB/s and AOD to reach 20 MB/s. Raw data to go to tape then can be recycled. ESD and AOD to go to disk and can be recycled but during last two weeks AOD should be distributed to associated Tier 2, requiring up to 5.2 TB of disk buffer, before being recycled. From 26 March participate in all-experiment service challenge milestone taking 65% of the average 2008 rate as above but without AOD redistribution for the next 7 days.	Provide 96 KSi2K of cpu for MC event generation. On 19 March begin second LoadTest07 5-week cycle (see CMS plans). From 26 March participate in WLCG multi-VO 65% milestone so import at 17 MB/s from CERN.	CERN background disk-disk top up to 100MB/sec
April	Provide 267 KSi2K of cpu and an additional 12.4 TB of permanent disk plus an additional 11.7 TB of permanent tape storage for this quarter for MC event generation. Provide a permanent 300 GB of disk space and 3 DB servers for ATLAS conditions and event tag databases.	Provide 115 KSi2K of cpu per month and an additional 9 TB of permanent tape storage for MC event generation. Provide a permanent 300 GB of disk space and 2 squid server nodes for CMS conditions databases.	CERN background disk-disk top up to 100MB/sec
May	Provide 267 KSi2K of cpu for MC event generation. Repeat February/March data distribution tests.	Provide 154 KSi2K of cpu and an additional 12 TB of permanent tape storage for MC event generation.	CERN background disk-disk top up to 100MB/sec
June	Provide 267 KSi2K of cpu for MC event generation	Provide 192 KSi2K of cpu and an additional 15 TB of permanent tape storage for MC event generation.	CERN background disk-disk top up to 100MB/sec
July	Start preparations/testing for October full scale (2008 running) dress rehearsal.	Provide 192 KSi2K of cpu and an additional 15 TB of permanent tape storage for MC event generation.	CERN background disk-disk top up to 100MB/sec
August	Continue rampup of full scale dress rehearsal. From 23 August to 2 September take M4 cosmics data from Tier 0 for 50% of this time: peak rates of raw data at 7 MB/s, esd at 1 MB/s and whole aod at 4 MB/s. Total of 4 TB of	Provide 192 KSi2K of cpu and an additional 15 TB of permanent tape storage for MC event generation.	CERN background disk-disk top up to 100MB/sec

	raw to go to tape for recall in September reprocessing. Total of 3TB of esd+aod to go to permanent disk with aod redistribution to requesting Tier2. All data to be kept until M6 cosmics run at the end of December 2007. See PlanningM4		
September	Reach rates of full scale dress rehearsal. Take raw data from CERN (raw is to go to tape) at 19.8 MB/sec, ESD at 24.8 MB/sec and AOD at 20 MB/sec. Send and receive data from Tier-1 and Tier-2 according to the Megatable spreadsheet values (see link on first page of this Twiki).	Starting 10 September perform 30-day run of CSA07 at twice the rate of CSA06 and adding Tier-1 to Tier-1 and to Tier-2 transfers. Import prompt reco events from Tier-0 at 26 MB/s to go to tape to be deleted when site requires. Run 2500 jobs/day including re-reconstruction and store these data on disk until they have been exported to other Tier-1 at 24 MB/s. Import similar data from other Tier-1 at 40 MB/s. Export samples to Tier-2 at 60 MB/s and import Monte-Carlo from Tier-2 to Tape1Disk0 class storage at 30 MB/s.	CERN background disk-disk top up to 100MB/sec
October	Stable running of full scale dress rehearsal.	Continue and finish CSA07.	CERN background disk-disk top up to 100MB/sec
November	Provide a permanent 1000 GB of disk space and add DB servers if needed for ATLAS conditions and event tag databases.		CERN background disk-disk top up to 100MB/sec
December			CERN background disk-disk top up to 100MB/sec

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