

Integration Program: what's ahead?

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US ATLAS Facilities Meeting / OSG All Hands Boston
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Evolving the Integration Program






- Now in Phase I6 (FY11Q2), our 4th year of the IP!
- Readiness for computing model changes
- At SLAC (October 2010 meeting) a major focus was responding to user analysis and emerging Tier 3 infrastructure
- We've seen good analysis performance across the facility while maintaining production throughput
- Storage scaling issues (data access) and capacity (PD2P) not a problem or mitigated - so far






























































Phase 16 - work to do

- Fabric upgrades (capacity and infrastructure)
- Network monitoring (latency & throughput)
- Analysis milestones - capacities & performance
- Federating data layers - xrootd - for access and management
- CVMFS evaluation @T2
- OSG compute element upgrade
- And more...

Site Certification Matrix

- Mark progress, links to relevant info

Notation:  completed  work is in progress  not applicable  defer to next phase  table to be updated

Site	Fabric upgrades	NetperfSONAR	NetLoadtest	AnalyMilestones	FAX	CVMFS	OSG update
TIER1							
AGLT2							
MWT2_IU							
MWT2_UC							
NET2_BU							
NET2_HU							
SWT2_CPB							
SWT2_OU							
WT2							

...“more”

- Getting accounting issues sorted out (processor normalization factors, HT)
- Evaluating AthenaMP - main goal may be memory footprint reduction, but will it relieve stress on local IO?
- gLexec ... readiness and strategy
- CREAM - coming soon to an ITB site

today

0 - ATLAS Requirements and the US ATLAS Computing Facility <i>Harvard Medical School</i>	Requirements and resources	ERNST, Michael 09:00 - 09:30
1 - Facilities Integration Topics <i>Harvard Medical School</i>	Facilities Integration program	GARDNER, Robert W 09:30 - 09:50
2 - ATLAS Roadmap for Data Management and Caching <i>Harvard Medical School</i>	Production and data caching	DE, Kaushik 09:50 - 10:30
3 - CVMFS at Tier 2 <i>Harvard Medical School</i>	cvmfs eval	WILLIAMS, Sarah 10:50 - 11:10
4 - Data Distribution Performance <i>Harvard Medical School</i>	Performance	ITO, Hironori 11:10 - 11:40
5 - Physics Analysis Experiences, Feedback <i>Harvard Medical School</i>	Analysis - user feedback	BLACK, Kevin 14:00 - 14:30
6 - Analysis Metrics <i>Harvard Medical School</i>	Analysis - performance	PANITKIN, Sergey 14:30 - 14:50
7 - Athena multi-core and the Facility <i>Harvard Medical School</i>	Multicore	CALAFIURA, Paolo 14:50 - 15:10
8 - USATLAS Networking: Status and Discussion <i>Harvard Medical School</i>	Network	MCKEE, Shawn 15:10 - 15:40
9 - Discussion <i>Harvard Medical School</i>	Discussion topics - glEXEC, WLCG accounting, ...	16:00 - 17:00

tomorrow

10 - US Atlas Tier 3 Introduction/Status <i>Harvard Medical School</i>	Tier-3	BENJAMIN, Doug 09:00 - 09:15
11 - Tier 3 Panda status and plans <i>Harvard Medical School</i>	Tier-3 & Panda analysis	STRADLING, Alden 09:15 - 09:45
12 - Proof Analysis Clusters <i>Harvard Medical School</i>	Tier-3 & Proof analysis	PANITKIN, Sergey 09:45 - 10:15
13 - XRootd federation <i>Harvard Medical School</i>		WALDMAN, Charles George 10:45 - 11:15
16 - Xrootd Federation discussion <i>Harvard Medical School</i>	Federating storage	BENJAMIN, Doug et al. 11:15 - 11:45