

News from SC4 ATLAS

Coord. Stéphane Jézéquel (LAPP), Ghita Rahal (CCIN2P3)

- **Wiki pages :**
 - ATLAS Service Challenge
<https://uimon.cern.ch/twiki/bin/view/Atlas/ATLASServiceChallenges>
 - LCG-France ATLAS SC4
<http://lcg2.in2p3.fr/wiki/index.php/Atlas:SC4>
- **19/06 – 8/07: Dataset transfer exercice T0 → T1 → T2**
- **Conditions :**
 - Production of dummy files (1-2 GB) at CERN
 - Daily dcache transfers to Lyon in dedicated area
[/pnfs/in2p3.fr/data/atlas/disk/sc4](http://pnfs.in2p3.fr/data/atlas/disk/sc4)
 - 24 h lifetime in Lyon Tier-1
 - T2 participation on voluntary basis (not the priority)
 - ATLAS dataset transfert with DDM running in Lyon's VObox



News from SC4 ATLAS

- ATLAS SC4 Nominal rates :

https://uimon.cern.ch/twiki/pub/Atlas/ATLASServiceChallenges/Tier0_SC4.pdf

- out of the Tier-0 : 720 MB/s
- to Lyon Tier-1 (on 13,5 % basis)
 - ◆ 43 MB/s to TAPE (Raw Data)
 - ◆ 47 MB/s to Disk (ESD+AOD)
- from Lyon to each Tier-2 (on full AOD set basis)
 - ◆ 20 MB/s

- ATLAS T2 requirements

- SRM-based Storage Element
- FTS channel definition
- keep the data for 24 h (min. capacity 2 TB)

News from SC4 ATLAS

- Practical work of ATLAS and CC support teams (GR,SJ, DB, LS, JS, FS,FW...) :
 - Exercise DDM functionalities & monitoring
<http://atlas-ddm-monitoring.web.cern.ch/atlas-ddm-monitoring/>
 - Installation and test of new DDM versions
 - Dcache and FTS tuning, Services load survey...
 - Tier2 of ATLAS (ToA) updating
 - Test transfer stability and scalability
 - very first transfers to T2 initiated when data available in Lyon :
 - ◆ first step : one by one
 - ◆ not a throughput test
 - ◆ Priority given to T0 to T1 exercise
 - ◆ second step : transfer simultaneously to all T2s

SC4 ATLAS: LCG-France T2-T3

- Tiers-2 and Tiers-3 SRM SEs involved for now :
 - GRIF (LAL, Saclay, LPNHE), LPC Clermont, Tokyo, Beijing, LAPP
- Disk space availability for ATLAS :

▪ LAL : grid05.lal.in2p3.fr	no information published *	
▪ LPNHE : lpnse01.in2p3.fr	no information published *	
▪ SACLAY : node12.datagrid.cea.fr	Available : 2.5 TB	Used : 2.2 TB
▪ LPC Clermont : clrlcgse03.in2p3.fr	Available : 2.2 TB	Used : 267 GB
▪ Tokyo : dgse0.icepp.jp	Available : 6.4 TB	Used : 1.1 TB
▪ LAPP : lapp-se01.in2p3.fr	Available : 866 GB	Used : 67 GB
▪ Beijing : lcg004.ihep.ac.cn	Available : 119 GB	Used : 600 GB

* Check : `/opt/lcg/var/gip/plugin/lcg-info-dynamic-se`

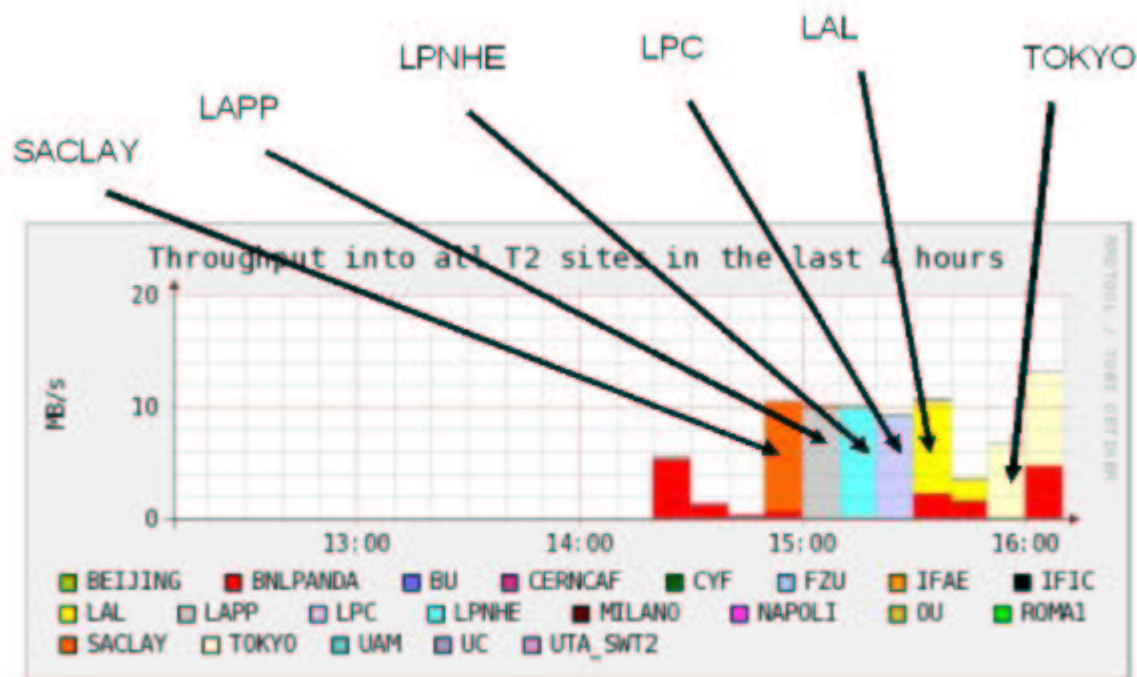
SC4 ATLAS: LCG-France T2-T3

- ToA (Tiers of ATLAS) registration

<http://atlas.web.cern.ch/Atlas/GROUPS/DATABASE/project/ddm/releases/TiersOfATLASCache.py>

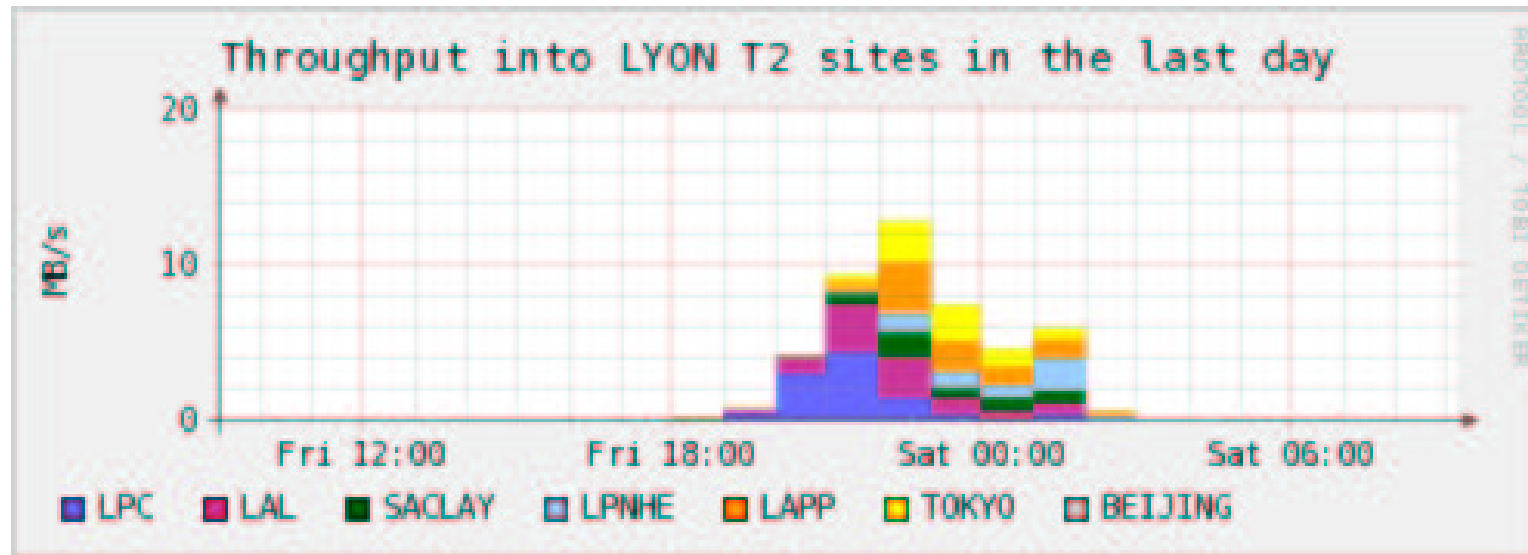
- Define the set of sites offering resources to ATLAS and the topology
- Change has been requested for all these SEs having the same domain entry 'in2p3.fr'
- 'FRANCESITES': ['LYON', 'LPC', 'LAL', 'SACLAY', 'LPNHE', 'LAPP', 'CPPM', 'TOKYO', 'BEIJING']
- Stéphane Jézéquel is taking care of that

SC4 ATLAS: Transfers to T2 & T3(01/07/06)



- 12 MB/s during 1 hour
- 15 concurrent files and 10 streams for LYON-TOKYO
- 10 concurrent files and 10 streams for LYON-French T2s except LAPP (5 concurrent files and 1 stream)
- 5 concurrent files and 5 streams for LYON-BEIJING
- Cleanup of the files was performed by Stéphane's script
- DDM version was unable to support transfer to all sites at the same time

SC4 ATLAS: Transfers to T2 & T3(06/07/06)



- Test of new DDM version
- Transfer to all sites at the same time
- Not a significant throughput test (limited by DDM)
- Work on DQ2 and mysql to reduce the load on the VObox