

FTS Overwrite



ATLAS would like start overwriting files:

- SURL LFN one2one correlated
 - Important in particular for Tier2/3
- from the WLCG SRM MOU: no overwrite in SRM
 - Clients should delete the file and copy it again
- ...but SRM spec foresee overwrite:
 - just update the file
 - tried at CERN, it works: same file id
- FTS do not SRM rm files but exploit SRM overwrite
 - Ok for CASTOR, ok for DPM
 - for dcache it is configurable:
 - turned off for many sites

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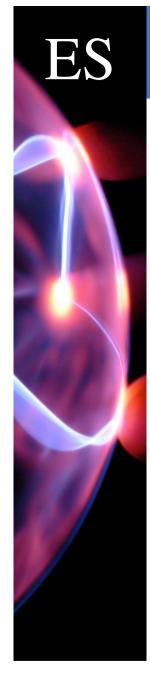
ATLAS options



- Identified 3 options up to now:
 - ATLAS DDM deal with this issue internally:
 - Not easy to do, long time to change the code, test, deploy.
 - FTS deal with it internally:
 - Neither here it seems to be easy (as above): please comment from FTS experts
 - Sites configure their storage to allow SRM overwrite:
 - To be used with caution: ATLAS could start using it for functional tests and for production files at Tier2/3
 - It seems to be the easiest solution for now

ADC Management: ATLAS Tier2s and Tier3s should be asked to allow overwrite

• Tier1s will be considered later based on the experience on T2/3.



BackUp



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ES FTS Overwrite



- ATLAS Workflow:
 - if transfer succeed surl consistent with Ifn
 - if transfer fails: try again the transfer adding a suffix __DQ123243 (timestamp)
 - if transfer fails again retries changing timestamp
- Why:
 - not all the failures leave the storage clean, i.e. next transfer with same surl can fail due to 'file exists'
- Problems:
 - Dark data
 - No easy correlation surl-lfn

guid:a0cc7777-ec11-4f5e-b458-ef29abbdcec5

lfn:/grid/atlas/dq2/step09/RAW/TRIUMF-LCG2 DATADISK/step09.50000030.sonar 1.sonar.RAW.TRIUMF-LCG2 DATADISK/step09.50000030.sonar 1.sonar.RAW.TRIUMF-LCG2 DATADISK. lb0003. 0001.data 1286528527

srm://atlassrm-fzk.gridka.de/pnfs/gridka.de/atlas/disk-only/atlasdatadisk/step09/RAW/TRIUMF-LCG2 DATADISK/ step09.50000030.sonar 1.sonar.RAW.TRIUMF-LCG2 DATADISK/step09.50000030.sonar 1.sonar.RAW.TRIUMF-LCG2_DATADISK._lb0003._0001.data_1286528527

srm://lcg-se0.ifh.de/pnfs/ifh.de/data/atlas/atlasdatadisk/step09/RAW/TRIUMF-LCG2 DATADISK/ step09.50000030.sonar_1.sonar.RAW.TRIUMF-LCG2_DATADISK/step09.50000030.sonar_1.sonar.RAW.TRIUMF-LCG2 DATADISK. lb0003. 0001.data 1286528527 DQ2-1304568479