SRM 2.2: status



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Tests executed

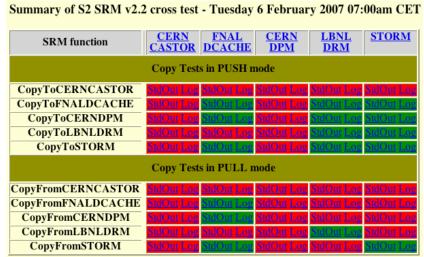
- S2 test suite:
 - Availability: Ping and full put cycle (putting and retrieving a file)
 - Basic: basic functionality checking only return codes and passing all basic input parameters
 - <u>Usecases</u>: testing boundary conditions, exceptions, real use cases extracted from the middleware clients and experiment applications.
 - Interoperability: servers acting as clients, cross copy operations
- 52 tests cron job running 6 times a day (overnight for US sites)

http://cern.ch/grid-deployment/flavia

- More usecase tests in development:
 - Checking of decisions taken at WLCG workshop in Jan.2007
 - Deep checking of transfer methods functionality.

Tests executed: red and green





Summary of S2 SRM v2.2 use-case test - Tuesday 6 February 2007 04:21am CET

SRM test	CERN CASTOR	FNAL DCACHE	CERN DPM	LBNL DRM	STORM
ExtendFileLifeTime	StdOut Log	StdOut Log	StdOut Log	StdOut Log	StdOut Log
GetRemoved01	StdOut Log	StdOut Log	StdOut Log	StdOut Log	StdOut Log
LsDirDetail	StdOut Log	StdOut Log	StdOut Log	StdOut Log	StdOut Log
LsDirFull	StdOut Log	StdOut Log	StdOut Log	StdOut Log	StdOut Log
LsFullDetail	StdOut Log	StdOut Log	StdOut Log	StdOut Log	StdOut Log
LsNonExistent	<u>StdOut</u>	StdOut Log	StdOut Log	StdOut Log	StdOut Log
Pin01	StdOut Log	StdOut Log	StdOut Log	StdOut Log	StdOut Log
Pin02	StdOut Log	StdOut Log	StdOut Log	StdOut Log	StdOut Lo
Pin03	StdOut Log	StdOut Log	StdOut Log	StdOut Log	StdOut Log
Pin04	StdOut Log	StdOut Log	StdOut Log	StdOut Log	StdOut Log
PrepareToPutNEVER	<u>StdOut</u>	StdOut Log	StdOut Log	StdOut Log	StdOut Log
PutGet01	<u>StdOut</u>	StdOut Log	StdOut Log	StdOut Log	StdOut Lo
PutNearline	<u>StdOut</u>	StdOut Log	StdOut Log	StdOut Log	StdOut Log
PutNoOverwrite	StdOut Log	StdOut Log	StdOut Log	StdOut Log	StdOut Log
PutOverwrite	StdOut Log	StdOut Log	StdOut Log	StdOut Log	StdOut Log
PutRemoved01	StdOut Log	StdOut Log	StdOut Log	StdOut Log	StdOut Lo
ReleaseFiles	StdOut	StdOut Log	StdOut Log	StdOut Log	StdOut Log
ReserveSpace	<u>StdOut</u>	StdOut Log	StdOut Log	StdOut Log	StdOut Log
Rmdir01	StdOut Log	StdOut Log	StdOut Log	StdOut Log	StdOut Log
Space00	StdOut Log	StdOut Log	StdOut Log	StdOut Log	StdOut Log
Space01	StdOut Log	StdOut Log	StdOut Log	StdOut Log	StdOut Log
Space02	<u>StdOut</u>	<u>StdOut</u>	StdOut Log	StdOut Log	StdOut Log
Space03	StdOut Log	StdOut Log	StdOut Log	StdOut Log	StdOut Log
TokenSensCase	StdOut Log	StdOut Log	StdOut Log	StdOut Log	StdOut Los

Summary of S2 SRM v2.2 basic test - Tuesday 6 February 2007 09:03am CET									
SRM function	CERN CASTOR	FNAL DCACHE	CERN DPM	LBNL DRM	STORM				
WLCG MoU SRM v2.2 methods									
Ping	StdOut Log	StdOut Log	StdOut Log	StdOut Log	StdOut Log				
PrepareToPut	StdOut Log	StdOut Log	StdOut Log	StdOut Log	StdOut Log				
StatusOfPutRequest	StdOut Log	StdOut Log	StdOut Log	StdOut Log	StdOut Log				
PutDone	StdOut Log	StdOut Log	StdOut Log	StdOut Log	StdOut Log				
PrepareToGet	StdOut Log	StdOut Log	StdOut Log	StdOut Log	StdOut Log				
StatusOfGetRequest	StdOut Log	StdOut Log	StdOut Log	StdOut Log	StdOut Log				
BringOnline	StdOut Log	StdOut Log	StdOut Log	StdOut Log	StdOut Log				
StatusOfBringOnlineRequest	StdOut Log	StdOut Log	StdOut Log	StdOut Log	StdOut Log				
AbortRequest	StdOut Log	StdOut Log	StdOut Log	StdOut Log	StdOut Log				
AbortFiles	StdOut Log	StdOut Log	StdOut Log	StdOut Log	StdOut Log				
ReleaseFiles	StdOut Log	StdOut Log	StdOut Log	StdOut Log	StdOut Log				
GetRequestSummary	StdOut Log	StdOut Log	StdOut Log	StdOut Log	StdOut Log				
GetRequestTokens	StdOut Log	StdOut Log	StdOut Log	StdOut Log	StdOut Log				
GetTransferProtocols	StdOut Log	StdOut Log	StdOut Log	StdOut Log	StdOut Log				
Ls	StdOut Log	StdOut Log	StdOut Log	StdOut Log	StdOut Log				
Mkdir	StdOut Log	StdOut Log	StdOut Log	StdOut Log	StdOut Log				
Rmdir	StdOut Log	StdOut Log	StdOut Log	StdOut Log	StdOut Log				
Rm	StdOut Log	StdOut Log	StdOut Log	StdOut Log	StdOut Log				
Mv	StdOut Log	StdOut Log	StdOut Log	StdOut Log	StdOut Log				
ReserveSpace	StdOut Log	StdOut Log	StdOut Log	StdOut Log	StdOut Log				
StatusOfReserveSpaceRequest	StdOut Log	StdOut Log	StdOut Log	StdOut Log	StdOut Log				
ReleaseSpace	StdOut Log	StdOut Log	StdOut Log	StdOut Log	StdOut Log				
GetSpaceTokens	StdOut Log	StdOut Log	StdOut Log	StdOut Log	StdOut Log				
GetSpaceMetaData	StdOut Log	StdOut Log	StdOut Log	StdOut Log	StdOut Log				
ExtendFileLifeTime	StdOut Log	StdOut Log	StdOut Log	StdOut Log	StdOut Log				
WLCG MoU SRM v2.2 methods needed by end of 2007									
Сору	StdOut Log	StdOut Log	StdOut Log	StdOut Log	StdOut Log				
StatusOfCopyRequest	StdOut Log	StdOut Log	StdOut Log	StdOut Log	StdOut Log				
ChangeSpaceForFiles	StdOut Log	StdOut Log	StdOut Log	StdOut Log	StdOut Log				
StatusOfChangeSpaceForFilesRequest	StdOut Log	StdOut Log	StdOut Log	StdOut Log	StdOut Log				



Tests executed: status of the implementations

- DPM All MoU methods pass Basic tests. 3 usecases fixed in 1.6.2. Major problems this week since the machine was accidentally wiped out by Quattor.
- DRM and StoRM: No news. StoRM still missing implementation ExtendFileLifeTime for SURLs. Copy in PULL mode not available in StoRM. Implementations rather stable. No more communication issues with DRM.
- <u>dCache</u>: Still missing ExtendFileLifeTime. Problems with usecases and interoperability tests reported but not yet fixed.
- <u>CASTOR</u>: Still some problems with basic tests. This week some SRM methods were hanging. Not yet at usecase analysis.

LCG

Plan

- Plan for 1Q of 2007 :
 - Phase 1: From 16 Dec 2006 until end of January 2007:
 - Availability and Basic tests
 - Collect and analyze results, update page with status of endpoints: https://twiki.cern.ch/twiki/bin/view/SRMDev/ImplementationsProblems
 - Plot results per implementation: number of failures/number of tests executed for all SRM MoU methods.
 - Report results to WLCG MB.
 - Phase 2: From beginning until end of February 2007:
 - Perform tests on use-cases (GFAL/lcg-utils/FTS/experiment specific), boundary conditions and open issues in the spec that have been agreed on.
 - Plot results as for phase 1 and report to WLCG MB.
 - Phase 3: From 1 March until "satisfaction/end of March 2007":
 - Add more SRM 2.2 endpoints (some T1s?)
 - Stress testing
 - Plot results as for phase 2 and report to WLCG MB.
- This plan has been discussed during the WLCG workshop. The developers have agreed to work on this as a matter of priority.





Working group:

- https://twiki.cern.ch/twiki/bin/view/LCG/GSSD
- Mailing list: <u>storage-class-wg@cern.ch</u>

Membership defined

- People involved: developers (SRM and clients), storage providers (CASTOR, dCache, DPM, StoRM developers), site admins, experiments
- But we will proceed in smaller sub-groups.

Draft working plan

- Clear input from LHCb, taken as example for other experiments.
- Exercise by M. Litmaath to translate the requirements in a possible configuration for FZK.
- Example is being discussed at pre-GDB meeting today.
- SARA, IN2P3 and FZK will be the first targets deploying dCache SRM 2.2 (v1.7/v1.8 when available)