

CASTOR SRM-2 status and plans

March 19th 2007

CASTOR dev team
Presented by Germán Cancio

- SRM v2.2 endpoint in service on November 1st.
- Unfortunately, many problems with gSOAP prevented real testing of the endpoint functionality until January
 - C++ support in gSOAP 2.6 not satisfactory, so decided to use gSOAP 2.7
 - However, cgsi (security) plugin for gSOAP 2.7 was very recent and had to be stabilised
- During February, extensive and intensive debugging of multi-threaded server code in close collaboration with GD Group.
 - Basic tests were succeeding for all supported functions by end-February



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Summary of S2 SRM v2.2 use-case tests - Mozilla Firefox

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Service Level Status ... Lemon Monitoring We... Quattor open bugs

SRM test	CERN ASTOR	FNAL DCACHE	CERN DPM	LBNL DRM	STORM
ExtendFileLifeTime	Out	Out	Out	Out	Out
FileNames01	Out	Out	Out	Out	Out
GetRemoved01	Out	Out	Out	Out	Out
GetStatusPartialEx	Out	Out	Out	Out	Out
GetStatusPartialNe	Out	Out	Out	Out	Out
LeDirCountOffset	Out	Out	Out	Out	Out
LeDirDetail	Out	Out	Out	Out	Out
LeDirFull	Out	Out	Out	Out	Out
LeFullDetail	Out	Out	Out	Out	Out
LeNonExistent	Out	Out	Out	Out	Out
LeTopDir	Out	Out	Out	Out	Out
Mkdir00	Out	Out	Out	Out	Out
MvBeingPut	Out	Out	Out	Out	Out
MvDirBeingPutIno	Out	Out	Out	Out	Out
MvDir	Out	Out	Out	Out	Out
MvIntoDir	Out	Out	Out	Out	Out
MvSameFile	Out	Out	Out	Out	Out
OverwritePin	Out	Out	Out	Out	Out
Pin01	Out	Out	Out	Out	Out
Pin02	Out	Out	Out	Out	Out
Pin03	Out	Out	Out	Out	Out
PrepareToPutNEVER	Out	Out	Out	Out	Out
PutGet01	Out	Out	Out	Out	Out
PutNearline	Out	Out	Out	Out	Out
PutNo Overwrite	Out	Out	Out	Out	Out
PutOverwrite	Out	Out	Out	Out	Out
PutRemoved01	Out	Out	Out	Out	Out
PutRemoved02	Out	Out	Out	Out	Out
PutRemoved03	Out	Out	Out	Out	Out
PutStatusPartialE	Out	Out	Out	Out	Out
PutStatusPartialN	Out	Out	Out	Out	Out
ReleaseFiles	Out	Out	Out	Out	Out
ReserveSpace	Out	Out	Out	Out	Out
Rmdir01	Out	Out	Out	Out	Out
RmdirBeingPutInto	Out	Out	Out	Out	Out
Space00	Out	Out	Out	Out	Out
Space01	Out	Out	Out	Out	Out
Space02	Out	Out	Out	Out	Out
Space03	Out	Out	Out	Out	Out
TokenSens Case	Out	Out	Out	Out	Out

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Service Level Status ... Lemon Monitoring We... Quattor open bugs SRM tests

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GetRemoved01	Out	Out	Out	Out	Out
GetStatusPartialEx	Out	Out	Out	Out	Out
GetStatusPartialNe	Out	Out	Out	Out	Out
LeDirCountOffset	Out	Out	Out	Out	Out
LeDirDetail	Out	Out	Out	Out	Out
LeDirFull	Out	Out	Out	Out	Out
LeFullDetail	Out	Out	Out	Out	Out
LeNonExistent	Out	Out	Out	Out	Out
LeTopDir	Out	Out	Out	Out	Out
Mkdir00	Out	Out	Out	Out	Out
MvBeingPut	Out	Out	Out	Out	Out
MvDirBeingPutInto	Out	Out	Out	Out	Out
MvDirBeingPutInto	Out	Out	Out	Out	Out
MvDir	Out	Out	Out	Out	Out
MvIntoDir	Out	Out	Out	Out	Out
MvSameFile	Out	Out	Out	Out	Out
OverwritePin	Out	Out	Out	Out	Out
Pin01	Out	Out	Out	Out	Out
Pin02	Out	Out	Out	Out	Out
Pin03	Out	Out	Out	Out	Out
PrepareToPutNEVE	Out	Out	Out	Out	Out
PutGet01	Out	Out	Out	Out	Out
PutGet0File1	Out	Out	Out	Out	Out
PutGet0File	Out	Out	Out	Out	Out
PutNearline	Out	Out	Out	Out	Out
PutNo Overwrite	Out	Out	Out	Out	Out
PutNo Overwrite Transf	Out	Out	Out	Out	Out
PutOverwrite	Out	Out	Out	Out	Out
PutOverwrite Transf	Out	Out	Out	Out	Out
PutRemoved01	Out	Out	Out	Out	Out
PutRemoved02	Out	Out	Out	Out	Out
PutRemoved03	Out	Out	Out	Out	Out
PutStatusPartialEx	Out	Out	Out	Out	Out
PutStatusPartialNe	Out	Out	Out	Out	Out
ReleaseFiles	Out	Out	Out	Out	Out
ReserveSpace	Out	Out	Out	Out	Out
Rmdir01	Out	Out	Out	Out	Out



CASTOR SRMv2.2 test/deployment plans Q1/2 2007

- See MS Project file ([link](#))
- Most important milestones:
 - Remaining use cases + robustness items solved end of this week
 - Stress testing starting this week
 - New CASTOR stager with improved scheduling stress tested April 23 and deployed in production mid-May
 - Tier-1 SRMv2.2 deployment starting this week at CNAF, RAL will deploy as from May 10th
 - Final SRMv2.2 available on CASTOR2 mid-June
 - Ready for experiments July 1st