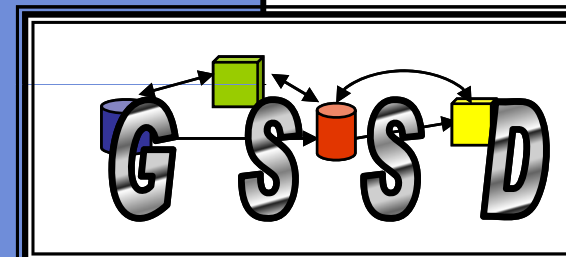


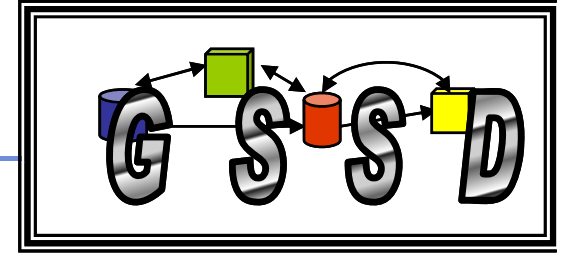
# GSSD Status Report

**Flavia Donno**  
**CERN/IT-GD**

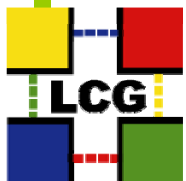
*Grid Deployment Board*  
*5 December 2007*



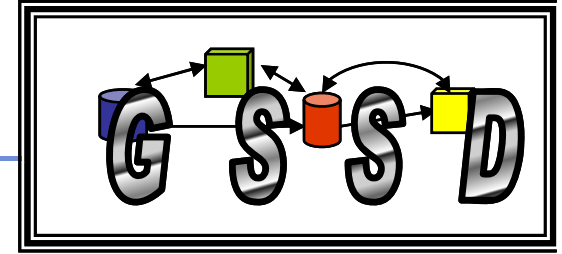
# Agenda



- Status of the implementations
- Site Status
- Experiment tests
- Status of high-level tools (GFAL, lcg-utils, FTS)
- Site Availability Monitor (SAM)
- Storage Support



# Implementations Status



## ■ CASTOR:

- PrepareToPut with not supported protocol returning invalid status
- CASTOR returns not fully specified TURLs
- Lost file being investigated

## ■ dCache:

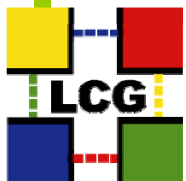
- GetSpaceMetadata not returning correct space value
- Ls recently fixed to report correctly the status of a file (NEARLINE/ONLINE) and space tokens
- ReleaseFiles not working without requestID

## ■ DPM:

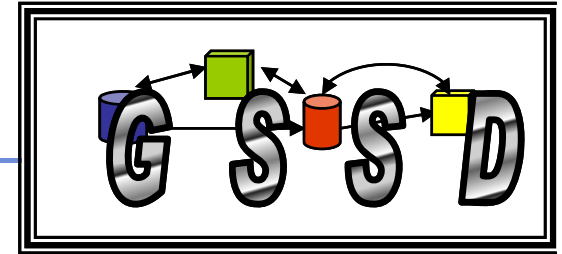
- Abort sometime not returning correct status at file and request level
- ReleaseFiles not working without requestID

## ■ StoRM:

- RemainingPinTime not returned by Get/BringOnline
- ReleaseFiles not working without requestID



# BringOnline/Get operations

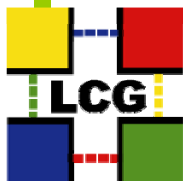


## ■ CASTOR:

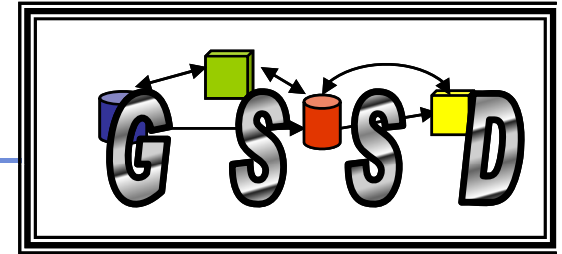
- It does not ignore a token if passed
- If the token is not passed, then it tries to match requested storage class or protocol
- If nothing is passed, and a copy of the file exists on disk it is served
- If no copy of the file exist on disk, the file is retrieved in a “default” area
- Automatic copy of files between pools can be enabled
- Users can be stopped from recalling files in specific “production” space tokens.

## ■ dCache:

- Space Token cannot be provided by users to retrieve files from tape. “default space” is always used.
  - Paths can be used to select pools.
- The use cases provided by the experiments and the implications of the above behavior will be summarized in a document that will be discussed during CCRC08 phone conferences



# Site Status



- The rollout plan is being followed
- Only SARA, CNAF, CERN and IN2P3 publish the production SRM v2.2 endpoints in production.
  - SARA has not configured space tokens for ATLAS/LHCb
  - FZK will publish the pre-production endpoint soon

Summary of S2 SRM v2.2 bdi tests - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://lxdev25.cern.ch/s2test/bdi/s2\_logs/ Antonio Corina

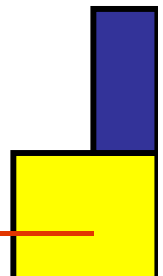
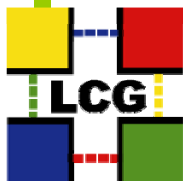
GDB Meeting (05 Decemb... Summary of S2 SRM v2.2... Antonio Corina zurich sunr... Summary of S2 SRM v...

**Summary of S2 SRM v2.2 bdi test - Wednesday 5 December 2007 12:01pm CET**

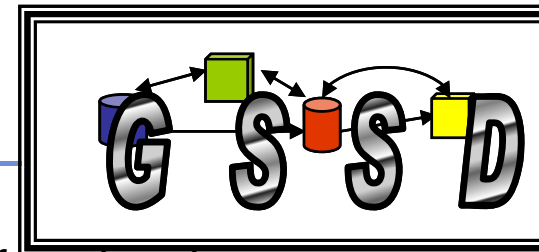
SRM test	CERN ALICE	CERN ATLAS	CERN C2	CNAF C2	CERN LHCb	RAL C2	BNL2 dCache	FZK dCache	IN2P3 dCache	IN2P3 PROD dCache	NDGF dCache	SARA dCache	SARA PROD dCache	LAL DPM	CNAF StoRM2
<a href="#">GlueCESEBind</a>	Log	Log	Log	Log	Log	Log	Log	Log	Log	Log	Log	Log	Log	Log	Log
<a href="#">Protocols</a>	Log	Log	Log	Log	Log	Log	Log	Log	Log	Log	Log	Log	Log	Log	Log
<a href="#">SA</a>	Log	Log	Log	Log	Log	Log	Log	Log	Log	Log	Log	Log	Log	Log	Log
<a href="#">SE</a>	Log	Log	Log	Log	Log	Log	Log	Log	Log	Log	Log	Log	Log	Log	Log
<a href="#">SRM</a>	Log	Log	Log	Log	Log	Log	Log	Log	Log	Log	Log	Log	Log	Log	Log

Find: VOInfo Next Previous Highlight all Match case

Source: Pioneer Commissioning Deployment Board, CERN 5 December 2007



# Site Status



- The pre-production SRM v2.2 endpoints are not kept functional enough for the experiments to use
- No Tier-2s yet.

Summary of S2 SRM v2.2 basic tests - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://fxdev25.cern.ch/s2test/basic/history/2007-12-04/9:28/ Antonio Corina

GDB Meeting (05 December ...) Summary of S2 SRM v2.2 bd... Antonio Corina zurich sunrise ... Summary of S2 SRM v2.2 ...

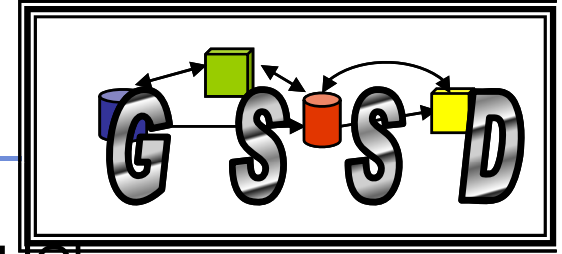
Summary of S2 SRM v2.2 basic test - Tuesday 4 December 2007 09:28am CET

SRM function	CERN ATLAS	CERN C2	CNAF C2	CERN LHCb	RAL C2	BNL2 dCache	DESY dCache	FZK dCache	IN2P3 dCache	NDGF dCache	SARA dCache	FNAL dCache	UCSD dCache	CERN DPM	LAL DPM	LBNL BeStMan	CNAF StoRM	CNAF StoRM2
WLCG MoU SRM v2.2 methods																		
Ping	Out Log	Out Log	Out Log	Out Log	Out Log	Out Log	Out Log	Out Log	Out	Out Log	Out Log	Out Log	Out	Out Log	Out Log	Out Log	Out Log	Out
PIP	Out Log	Out Log	Out Log	Out Log	Out Log	Out Log	Out Log	Out Log	Out	Out Log	Out Log	Out Log	Out	Out Log	Out Log	Out Log	Out Log	Out
StoPut	Out Log	Out Log	Out Log	Out Log	Out Log	Out Log	Out Log	Out Log	Out	Out Log	Out Log	Out Log	Out	Out Log	Out Log	Out Log	Out Log	Out
PutDone	Out Log	Out Log	Out Log	Out Log	Out Log	Out Log	Out Log	Out Log	Out	Out Log	Out Log	Out Log	Out	Out Log	Out Log	Out Log	Out Log	Out
PlG	Out Log	Out Log	Out Log	Out Log	Out Log	Out Log	Out Log	Out Log	Out	Out Log	Out Log	Out Log	Out	Out Log	Out Log	Out Log	Out Log	Out
StoGet	Out Log	Out Log	Out Log	Out Log	Out Log	Out Log	Out Log	Out Log	Out	Out Log	Out Log	Out Log	Out	Out Log	Out Log	Out Log	Out Log	Out
BoL	Out Log	Out Log	Out Log	Out Log	Out Log	Out Log	Out Log	Out Log	Out	Out Log	Out Log	Out Log	Out	Out Log	Out Log	Out Log	Out Log	Out
StoBoL	Out Log	Out Log	Out Log	Out Log	Out Log	Out Log	Out Log	Out Log	Out	Out Log	Out Log	Out Log	Out	Out Log	Out Log	Out Log	Out Log	Out
AbortR	Out Log	Out Log	Out Log	Out Log	Out Log	Out Log	Out Log	Out Log	Out	Out Log	Out Log	Out Log	Out	Out Log	Out Log	Out Log	Out Log	Out
AbortF	Out Log	Out Log	Out Log	Out Log	Out Log	Out Log	Out Log	Out Log	Out	Out Log	Out Log	Out Log	Out	Out Log	Out Log	Out Log	Out Log	Out
RelFiles	Out Log	Out Log	Out Log	Out Log	Out Log	Out Log	Out Log	Out Log	Out	Out Log	Out Log	Out Log	Out	Out Log	Out Log	Out Log	Out Log	Out

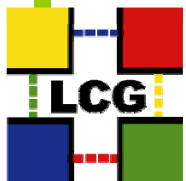
Find: VOInfo Next Previous Highlight all Match case

Source: Pioneer Commissioning Deployment Board, CERN 5 December 2007

# Experiment tests

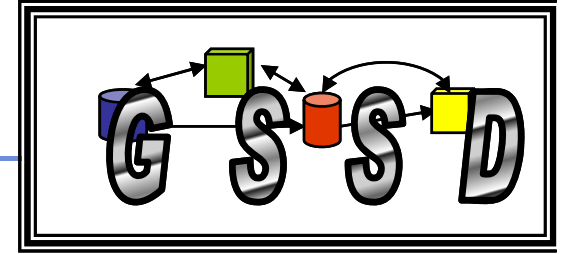


- Preliminary tests executed only by ATLAS and LHCb
- Still only basic functionality tests to get familiar with SRM v2.2 and with the high-level tools
- Some requests concerning functionality needed is being made. A list is being compiled and discussed with the developers
- Stress tests are also needed to understand the bottleneck of SRM v2.2
- What about CMS and Alice ?

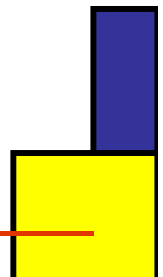
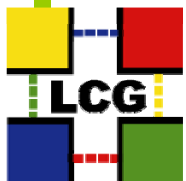




# High-level tools

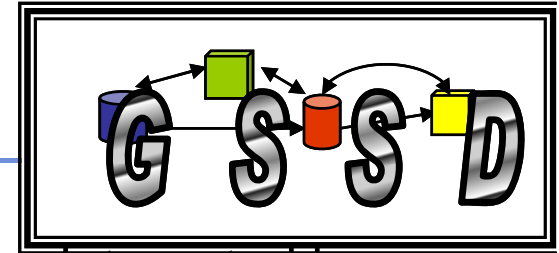


- The current version of GFAL (1.10.5) and lcg-utils (1.6.4) tested by the experiment is distributed by GSSD as a tarball and installed on lxplus in a test area.
- It is also distributed in the AA external area
- Not yet in production (some of the SRM v1 functionalities are broken)
- Some functionalities available only through APIs (prestage, pin)
- Tested OK in OSG (distribution via VDT ?)
- The space token can be specified as input on Get/prestage
- FTS 2.0 does not offer the possibility of specifying the space token for the source. However, the file is assumed to be available on disk (no prestage).





# Site Availability Monitor



- The current tests (S2, lcg-utils, gfal, bdii) are being integrated in SAM.
- Probably available with next release.

Summary of S2 SRM v2.2 lcg-utils tests - Mozilla Firefox

File Edit View History Bookmarks Tools Help

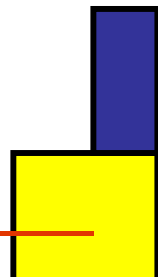
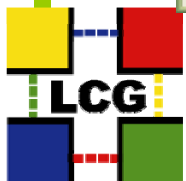
http://lxdev25.cern.ch/s2test/lcg-utils/s2\_logs/ Antonio Corina

GDB Meeting (05 Decem... Summary of S2 SRM v2... Antonio Corina zurich su... Summary of S2 SRM ...

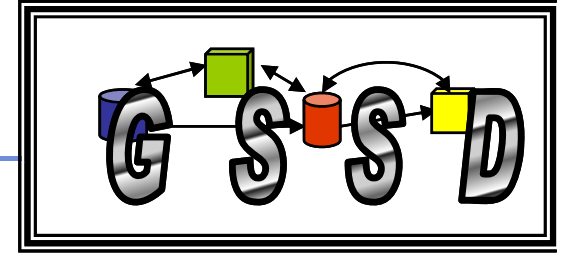
Summary of S2 SRM v2.2 lcg-utils test - Wednesday 5 December 2007 10:26am CET

SRM test	CERN ALICE	CERN ATLAS	CERN C2	CNAF C2	CERN LHCb	RAL C2	BNL2 dCache	FZK dCache	IN2P3 dCache	IN2P3 PROD dCache	NDGF dCache	SARA dCache	SARA PROD dCache	CERN DPM	LAL DPM	CNAF StoRM2
lcg-cp	Log	Log	Log	Log	Log	Log	Log	Log	Log	Log	Log	Log	Log	Log	Log	Log
lcg-cr	Log	Log	Log	Log	Log	Log	Log	Log	Log	Log	Log	Log	Log	Log	Log	Log
lcg-gt-rm-gt	Log	Log	Log	Log	Log	Log	Log	Log	Log	Log	Log	Log	Log	Log	Log	Log
lcg-gt-root-prot	Log	Log	Log	Log	Log	Log	Log	Log	Log	Log	Log	Log	Log	Log	Log	Log
lcg-gt	Log	Log	Log	Log	Log	Log	Log	Log	Log	Log	Log	Log	Log	Log	Log	Log
lcg-ls-dir	Log	Log	Log	Log	Log	Log	Log	Log	Log	Log	Log	Log	Log	Log	Log	Log
lcg-ls	Log	Log	Log	Log	Log	Log	Log	Log	Log	Log	Log	Log	Log	Log	Log	Log

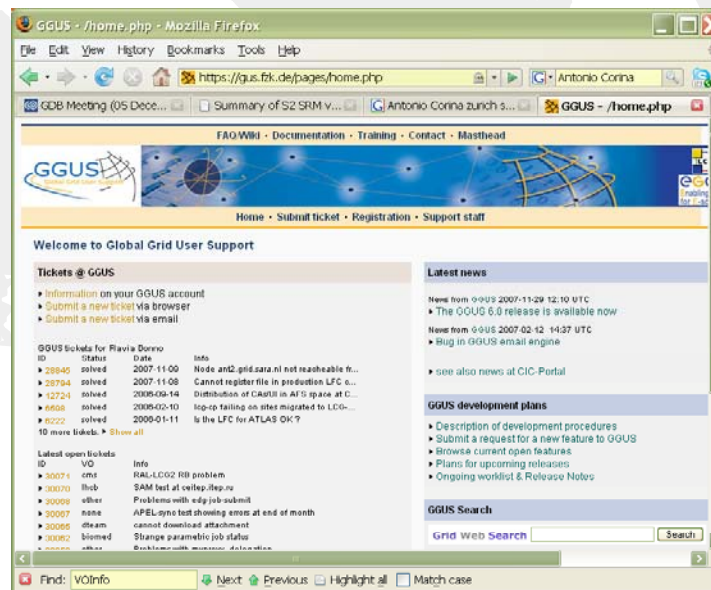
Find: VOInfo Next Previous Highlight all Match case



# Storage Support

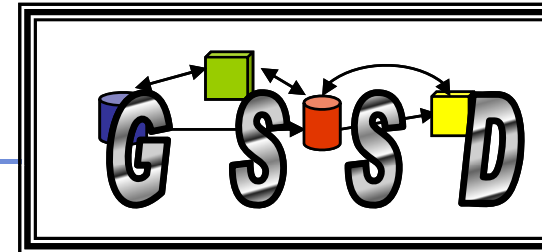


- Working with sites to create second level support for dCache and StoRM
- User forum already well established. They can be published in the GGUS portal
- Already well established GGUS channels.
- Working on hooking up second level support to GGUS

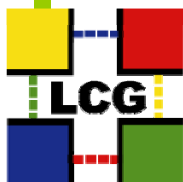


Grid Deployment Board, CERN 5 December 2007

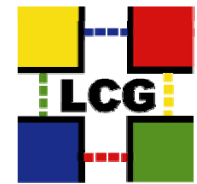
# Storage Support



- SRM v2.2 deployment workshop in Edinburgh
  - Reached limit in attendance (50 people)
  - Tutorials and hands-on for dCache, DPM, and StoRM
  - Input received: very useful, good material produced
  - The event should be repeated
  - Good forum to discuss encountered problems
  - Thank you to GridPP, NeSC and WLCG for supporting the event



Thank You



*Grid Deployment Board  
5 December 2007*

