



The SRM MoU

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05 March 2008

Some background



- The CCRC08 exercise uncovered some of the missing features of SRM v2.2 implementations
 - Some of them were already known (GSSD)
- A first meeting was organized on February 4th between developers and experiments to understand how to overcome some of the uncovered limitations
- The dCache developers proposed to compile a document describing the set of new features requested and the use cases for them
- J. Shiers proposed to make an addendum to the WLCG SRM v2.2 MoU

The CCRC08 SSWG



- The CCRC08 Storage Solution Working Group goal is to finalize the SRM v2.2 MoU addendum and to verify that what described is actually provided.
 - The addendum would be “lightweight”
 - It would detail what has to be changed, with this being based on operational experience
 - This would then be checked by the technical people
- Members of the group are storage providers developers, experiment representatives, storage experts.
- A first meeting was organized on February 11th and a list of issues to comment and prioritize has been compiled.

Draft List of SRM v2.2 Issues



Priorities to be discussed & agreed:

- Protecting spaces from (mis-)usage by generic users
 - Concerns dCache, CASTOR
- Tokens for *PrepareToGet/BringOnline/srmCopy* (input)
 - Concerns dCache, DPM, StoRM
- Implementations fully VOMS-aware
 - Concerns dCache, CASTOR
- Correct implementation of *GetSpaceMetaData*
 - Concerns dCache, CASTOR
 - Correct size to be returned at least for T1D1
- Selecting tape sets
 - Concerns dCache, CASTOR, StoRM
 - by means of tokens, directory paths, ??

ATLAS



- Top priority based on our current experience:
 - Protecting spaces from (mis-)usage by generic users
 - ... followed by implementations fully VOMS-aware
- Our next top priority cannot be enforced properly without the points above in place:
 - Tokens for PrepareToGet/BringOnline/srmCopy (input)
- Selecting tape sets:
 - Unclear, assuming we will either use directories or tokens
 - but nonetheless, we first need to be able to enforce and protect them
- Correct implementation of GetSpaceMetaData
 - T1D1: Total vs Used

LHCb



- Tokens for PrepareToGet/BringOnline/srmCopy (input)
 - Top priority. Should not allow to get a file recalled from tape into a T0D1 space, for T1D1 only if the file was put there in a first instance
- Protecting spaces from (mis-)usage by generic users, Implementations fully VOMS-aware
 - Both are closely linked. LHCb wants to set ACLs such that users do not pollute controlled space
- Correct implementation of GetSpaceMetaData
 - Should be for TxD1: total space and used space
- Selecting tape sets
 - LHCb would be happy with space token assignment. Important that the SPath be not connected to the space!

CMS



**Warning: Not official
CMS statement**

- Protecting space from (mis)-use
 - Top priority
- Tokens for srmBringOnline
 - (Almost) top priority; CMS needs improved prestaging
- Implementations fully VOMS-aware
 - (?) I'm sorry, I don't understand what is lacking. (B. Bockelman)
- Correct implementation of GetSpaceMetadata
 - Low Priority
- Selecting tape sets
 - Medium priority; most sites have not complained heavily about the current abilities.

Conclusions reached



- The top two issues are:
 - protecting spaces from misuse combined with implementations being fully voms aware
 - handling space tokens for 'more than write'
- VOMS awareness has been defined to mean:
 - access control on spaces based on voms groups and roles via the primary FQAN in a VOMS proxy.
- Storage developers would quantify the amount of coding effort and report to the group
- The planning is to fix all known problems by May leaving the misuse protection/voms awareness and tokens on recall till later (next year ?)