



CASTOR SRM Status Report

06/09/2005





- CASTOR SRM in Production since 2003
 Fulfills SRM V1.1 spec
- Upgraded in May 2005 to support the new CASTOR Stager
- Feedback from Service Challenge 3
 - After a setup/debug phase, the CASTOR SRM now works satisfactorily
 - The new features to allow for better load balancing/direct disk server access were useful
- SRM V2.1 is required for SC4
 - RAL proposed their help in writing the new CASTOR-SRM



SRM Meeting at RAL (27/28th July) (1)



- 2 day meeting with RAL SRM dev team (3 people) to agree on the CASTOR SRM Design
- Took into account SRM V2.1 Spec and Experiments requirements
- Issues with the new implementation
 - For pin/unpin, a new interface to the new CASTOR stager will be written to change the Garbage Collection Weight of the files
 - ACL implementation will require work on CASTOR Name Server
 - Global Space Reservation is difficult to implement. In any case it will target reservations on the Storage System as a Whole (i.e. disk + tape) and will be managed by the SRM



SRM Meeting at RAL (27/28th July) (2)



- Technical Design
 - Use of gSOAP for the SOAP stub Generation
 - Use CGSI for security
- Both already used by CERN and RAL; this makes development and support easier
 - Use of Umbrello for modeling and DB code generation
 - RAL team therefore acquires knowledge of CASTOR2 DB interface
 - The CASTOR team would be able to take over development and support of SRM V2.1 if needed



Project Milestones



- Project Plan
 - Aug 5 Aug 15
 - Delivery of Architecture design \rightarrow Done
 - Delivery of detailed SRM table structure → Done
 - Sep 26th
 - 1st release with full GET/PUT cycle, support for relative paths
- Joint CERN/RAL go/no-go decision taken at the end of september
 - Oct 31st
 - Second release with pinning/storage reservation
 - Nov 30th
 - Directory functions support except srmLs
 - Jan 31st
 - Final release fully functional



CERN-RAL Cooperation



- RAL Project Team
 - Shaun de Witt (PL), Tara Shah, Jiri Mencak
- Tight cooperation to ensure success of the project:
 - Weekly conf call to discuss issues
 - Face to face meetings at regular interval to check the status of the SRM:
 - Design Meeting at RAL on July 27th/28th
 - CASTOR/Umbrello training at CERN on August 25th/26th
 - Status Meeting at CERN on September 26-30th
- Long Term support
 - RAL Commits to support the SRM throughout 2006
 - One RAL staff present at CERN for the first 5-6 weeks of SC4
 - Remote support after that period