SRM v2.2 ROLL-OUT PLAN				
Project Name			**Date**	
SRM Storage Services			**11.07.2007**	
Author Name				
Flavia Donno				
Milestones			**Status**	**Comments**
Key Tier-1 sites **Details published here: https://twiki.cern.ch/twiki/bin/view/LCG/GSSD**				
SRM-01	**11.07.07**	FZK configured for ATLAS and LHCb tests	In progress	People assigned to task: **Doris Ressmann (FZK)**. Installation and configuration of dCache 1.8.0-7 with MSS connectivity. Total disk available **10.4TB**. **3.3TB** for LHCb exercises. **5TB** for ATLAS exercise. The rest for dteam tests.
SRM-02	**11.07.07**	IN2P3 configured for ATLAS and LHCb tests	In progress	People assigned to task: **Lionel Schwarz (IN2P3)**. Installation and configuration of dCache 1.8.0-7 with MSS emulation. Total disk available **20TB**. **5.7TB** for LHCb exercises. **13TB** for ATLAS exercise. The rest for dteam tests.
SRM-03	**11.07.07**	BNL configured for ATLAS tests	In progress	People assigned to task: **Carlos Fernando Gamboa (BNL)**. Installation and configuration of dCache 1.8.0-7 with MSS connectivity. Total disk available **20TB** for ATLAS exercise.
SRM-04	**18.07.07**	SARA configured for LHCb tests	In progress	People assigned to task: **Ron Trompert, Mark van de Sanden (SARA)**. Installation and configuration of dCache 1.8.0-7 with MSS connectivity. Total disk available **5.1TB** for LHCb exercise.
SRM-05	**11.07.07**	CERN configured for LHCb tests	Done	People assigned to task: **Jan Van Eldik, (CERN)**. Installation and configuration of CASTOR version 2.1.3-15/17 with MSS connectivity. Total disk available **20.4TB** for LHCb exercise.
SRM-06	**18.07.07**	NDGF configured for ATLAS tests	In progress	People assigned to task: **Mattias Wadenstein (NDGF)**. Installation and configuration of dCache 1.8.0-7 disk only. Total disk available for ATLAS exercise **2TB**
SRM-07	**18.07.07**	CNAF configured for ATLAS and LHCb tests	In progress	People assigned to task: **Giuseppe Lo Re (INFN-CNAF)**. Upgrade and configuration of CASTOR 2.1.3-15/17. Total disk available for ATLAS and LHCb exercises 6TB. 3.1TB dedicated to LHCb, the rest for ATLAS.
SRM-08	**11.07.07**	LAL configured with DPM as a Tier-2 for ATLAS in production.	In progress	No experiments have asked for Tier-2s configured for testing. However, this instance is made available in production and in pre-production.

SRM-09	**11.07.07**	Edinburgh configured with dCache and DPM as a Tier-2 for ATLAS and LHCb	Done	No experiments have asked for Tier-2s configured for testing. However, this instance is made available in pre-production.
SRM-10	**from 11.07.07 to 31.07.07**	Testing experiment scenarions for the tests with experiment specific certificates. All sites should pass this tests.	New	People assigned to task: **Flavia Donno**. Covered by **Lana Abadie** and **Stephen Burke** while on vacation (14/7-3/8). This is preliminary for experiment testing
S2 Stress Tests				
SRM-11	**31.10.07**	S2 stress tests of SRM v2.2 development endpoints: CASTOR, dCache, DPM, StoRM.	In progress	People assigned to task: Flavia Donno, Giuseppe Lo Presti (CERN), Shaun De Witt (RAL), Timur Perelmutov (FNAL), Tigran Mkrtchyan (DESY), Jean-Philippe Baud (CERN), Luca Magnoni, Riccardo Zappi (INFN-CNAF). This activity is done in coordination with SRM v2.2 developers and Storage Service providers. Patches will be provided by the developers as soon as possible and a patch roll-out strategy published by them. Roll-out of new releases and patches will be announced and coordinated through GSSD.
SRM-12	**31.10.07**	S2 stress tests of SRM v2.2 dedicated CASTOR and dCache endpoints to simulate experiment patterns and traffic. Sites involved: DESY, Edinburgh, CERN.	New	People assigned to task: **Flavia Donno, Lana Abadie (CERN), Stephen Burke (RAL), Mirco Ciriello (INFN), Patrick Fuhrmann (DESY), Greig Alan Cowan (Edinburgh), Jan Van Eldik (CERN).** This activity is done in coordination with SRM v2.2 developers and Storage Service providers. The goal is to reach and demonstrate the following: 1. Detemining which load can be handled without degradation for more than 7 days in a row. Demonstrate stability (no server crash, no memory leaks) over this period under the established load. 2. Downtime of only one day is tolerated. 3. Failure rate of less than 1%. A server should be able to protect itself under a load which exceeds its maximum managable load. The server should be free to deny access for peaks but should become available again after the peak. The time this takes depends on the peak value. 4. Degradation of performance of less than 15% for requests in the queue. A more detailed document is being drafted with details. Patches provided and installed following the established strategy (SRM-09)
High-level Tools/APIs tests				

SRM-13	**31.07.07**	Definition of tests to be performed. Definition of testing plan. This includes tests on SRM v1.	In progress	People assigned to task: **Flavia Donno, Lana Abadie (CERN), Stephen Burke (RAL)**. This includes tests to demonstrate full compatibility between SRM v1 and v2.
SRM-14	**From 1.08.07 to 31.10.07**	Testing High-Level Tools/APIs as defined by the plan	New	People assigned to task: **Flavia Donno, Lana Abadie (CERN), Stephen Burke (RAL)**. Problems reported to SRM developers, Storage Service Providers, High-Level Tools developers. Patches provided and installed following the established strategy (SRM-11)
SRM-15	**31.10.07**	High-level tools will be modified to set v2.2 as the default version of SRM	New	People assigned to task: High-level tools and APIs developers.
Experiments testing schedule				
SRM-16	**31.08.07**	Experiments to provide details and plan for their tests	In progress	
SRM-17	**From 1.08.07 to 31.08.07**	LHCb transfer exercise from CASTOR@CERN with SRM v2 production data to CNAF, FZK, IN2P3, SARA (all with SRM v2) using FTS 2.0 Production service at CERN. Data reprocessing will also be done using high-level utility and exercising pinning and metadata retrival. Data will be registered in production catalogue.	New	People assigned to task: various people from LHCb already involved in the production exercise**, Nick Brook (Bristol)**. Details on the testing plan can be found at https://twiki.cern.ch/twiki/bin/view/LCG/GSSDLHCBPLANS. Patches will be provided by the developers as soon as problems are reported and fixed. Roll-out of new releases and patches will be announced and coordinated through GSSD.
SRM-18	**From 1.09.07 to 30.09.07**	ATLAS transfer exercise from CASTOR@CERN with SRM v1 to BNL, FZK, IN2P3, NDGF (all with SRM v2) using FTS 2.0 PPS service at CERN.	New	People assigned to task: **Kors Bos (NIKHEF), Miguel Branco (CERN), Mario Lassnig (Innsbruck)**. Patches will be provided by the developers as soon as problems are reported and fixed. Roll-out of new releases and patches will be announced and coordinated through GSSD. The use of the CASTOR@CNAF has to be negotiated.
SRM-19	**After CSA07**	CMS transfer exercises from Tier-1s to Tier-2s and between Tier-1s using PhEDEx and FTS 2.0.	New	People assigned to task: **Daniele Bonacorsi (CNAF)**. Preliminary tasks will be performed already in August 2007 in coordination with Flavia Donno and some of the sites. Needed resources for this test need to be negotiated. The actual time window for tests has also to be better defined with CMS.
Deployment in production				

SRM-20	**From 15.10.07 to 30.11.07**	Upgrade and configuration of the production Storage Instance to dCache 1.8.0-n at FZK and FNAL.	New	If no major show-stoppers found.
SRM-21	**30.11.07**	Upgrade and configuration of the production Storage Instance at Key Tier-1 sites to the new versions of dCache and CASTOR.	New	If no major show-stoppers found
SRM-21	**30.11.07**	SRM v2.2 configuration for all Vos at Key Tier-1 sites.	New	
SRM-22	**15.10.07**	Start the upgrade and configuration of Tier-2 sites using DPM and StoRM to SRM v2	New	To be finished in January 2008
SRM-23	**From 05.01.08 to 31.01.08**	Upgrade and configuration of the production Storage Instance with SRM v2.2 at all Tier-1 and Tier-2 sites.	New	
SRM-24	**28.02.08**	Have all sites fully functional in production with SRM v2.2	New	
Summary of Progress				

Progress will be reported at the montly MB. Report major show-stoppers or missed targets at the weekly MB. Flavia will follow very closely with sites and experiments. Ad hoc phoneconf will be organized to solve specific issues. During the Data Management sessions at the CHEP conference progress will be reviewed. A GSSD face-to-face meeting will be organized at the beginning of October 2007 to make the point.
Milestones Changes and Actions
References and Hyperlinks
https://twiki.cern.ch/twiki/bin/view/SRMDev https://twiki.cern.ch/twiki/bin/view/LCG/GSSD http://glueschema.forge.cnaf.infn.it/Spec/V13
Comments and Additional Information