DM & SM Topics and their Interdependencies

	Timescale
Federation	Medium
1 HTTP plugin to xroot	
2 Monitoring of federation network bandwidth	
3 Topical working groups	
Point-to-Point Transfer	Medium
4 gridFTP: use recent versions, exploit session reuse	
5 Ensure xrootd support in all storage	
6 HTTP: continue tests; explore at scale.	
Managed Transfer	Long
7 Update FTS3 design and workplan with requirements expressed here	
8 Cross-experiment test of FTS3 features matched to requirements	
Catalogs and Namespaces	Medium
9 LFC not required for LHC in medium-term	
Archive/Disk Seperation	Short
10 Maintain support for HSM in managing disk buffer in front of archive	
11 Adapt experiment workflows to support archive/disk management in transfer	
Storage Interfaces (SRM and Clouds)	Long
12 Maintain SRM at archive sites at which there is no replacement.	
13 Evaluation of proposed SRM alternatives by working group	
14 Monitor and evaluate emerging developments in other storage interfaces	

Site Performance	Medium
15 Benchmarking and I/O requirement gathering	
16 Protocol evolution: develop direct-access, nfs 4.1 and http	
17 Explicitly determine storage error types and ensure application handling	
18 Storage technology review.	
19 Research on high-throughput computing	
Site Operations	Medium
20 Site involvement in protocol and requirement evolution	
21 Expectations on data availability and access and the handling of data losses	
22 Improved activity monitoring	
23 Storage accounting: support StAR accounting record	
POOL persistency	Medium
24 POOL development not required in medium term	
Security	Medium
25 Remove backdoors from CASTOR	
26 Checks actual permissions implemented by SEs	
27 Resolve issues with data ownership (Ch. 3)	

Data & Storage Management

- Recommended several WGs
 - defined topics
 - defined (to first approximation) mandates
- Missing:
 - Dependencies between the WGs
 - Link to pilots, tests and benchmarks
 - list of missing facts

Sequence

- Access Patterns and Data Popularity (AP &DP)
- Benchmarks (BM)
- Read-only with relaxed AA (RRAA)
- Federations (Fed)
 - cache/populate
 - repair / repopulate (local/central management)
- WN staging/not staging (WNS)

