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LFC and DPM Work Plan

Here is the Data Management Work Plan until the end of the year :

Common to LFC and DPM

Item	What ?	When ?	Who ?	Priority	Status
1	integration with VOMS/LCAS/LCMAPS		Jean-Philippe/Jiri		DONE
2	Mysql backups		Lana		
3	integrate to build system		Akos		DONE
4	build RPMs on SLC4/ia64		Akos		IN PROGRESS
5	Implement automatic reconnection to database when connection lost		Jean-Philippe		DONE
6	gSOAP 2.7.6 -> 2.7.9		Akos (to provide recipe)		
7	bulk delete function, given a list of GUIDs (ATLAS)	End of June	Sophie	Critical	not started
8	limited wildcard support on LFNs for query/delete catalogue operations (ATLAS)	End of July	Sophie	High	not started
9	query/delete the catalog content using the combination of list of GUIDs and host field (ATLAS)	End of July	Sophie	Medium	not started
10	possibility to modify the "logically deleted" flag (ATLAS)	End of July	Sophie	High	not started
11	Python interface for items 7, 8, 9 and 10	End of June/July	Robert	High	not started
12	special thread for special operations (like bulk update of paths <code>oldStorageEndpoint</code> to <code>newStorageEndpoint</code> instead of script run by admin)	after items 7, 8, 9, 10, 11	Sophie	Medium	not started

LFC

Here are listed the requests received about the LFC, together with a timescale estimate.

Item	What ?	When ?	Who ?	Priority	Status
1	CLI for listreplicax (to get for example the list of files at a given SE)				
3	LFC Mysql catalogue replication				GO SEE PIOTR/NUNO
4	LFC fail over, load balancing				won't do
5	selection of LFC according to the operation (read versus rw)				won't do
6	extension of <code>lcg_util</code> to replace lfc client (<code>lcg_mkdir...</code>)				
7	implement "lfc-ls --replica"			Low	
8	keep case for GUIDs		Jean-Philippe	High (LHCb)	DONE
11	script to remove the port number in all LFC entries	End of July	Sophie	Medium	not started

DPM

Item	What ?	When ?	Who ?	Priority	Status	Needs
1	DPM with disk servers on several network domains (distributed Tier2)		Jean-Philippe		DONE	
2	maximum pin time (possibly with different values depending on VOMS role)					
3	pool hierarchy (+ default pool)					
4	relative path (VO HOME, not chdir)					
5	drain		Jean-Philippe		DONE	
6	(automatic) replication inside a pool					
7	global space reservation with max lifetime (possibly with different values depending on VOMS role)					
8	limit number of streams per disk server (may be useful for some applications like bulk replication, so pool dependent)					
9	port of SRM V2 component to new LBNL wsdl					
10	srmCopy					
11	give the possibility to RFIO access DPM files residing on the client host (needed for AIOD used in gLiteIO)					
12	RFIO client library compatible with CASTOR (old and new)					
13	test of SRM compatibility with FNAL+LBNL					
14	test of multiple instances of SRM daemons with a single backend					
15	test of DPM with multiple disk servers	13/08/2005	Sophie		DONE (tests through SC3) - OK	
16	test of compatibility between dCache client utility srmcp and DPM					
17	implementation of a migrator/recaller to either recall/migrate files automatically between Tier1 and Tier2 or interface to a tape/DVD backend					

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18	dpm-gsiftp with last Globus version	June 2007	Yaodong + Jean-Philippe		DONE	Item 11
19	Perl/Python interface		Jean-Philippe + Sophie		DONE - NEEDS IMPROVEMENTS	
20	DPM dynamic info script		Graeme		DONE	Item 19
21	Classic SE -> DPM migration script		Yvan		High	TEST THE LAST VERSION
22	Support for Large File Systems	in 1.3.8 release	Jean-Philippe	DONE	High (for UK)	
23	Checking file integrity after copy (file size, checksum)				Critical	
24	Python interface to lcg_util/gfal				Critical	CHECK WHAT DAVID HAD ALREADY DONE
25	Attributes on replicas				High	
25	Bulk operations				Critical	
26	Find best replica (lcg_util/gfal)				Medium	
27	ACLs propagation between SEs				Medium	
28	Bulk deletion				Critical	
29	Dataset staging				Medium	
30	Quotas					

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