



LCG Service Report – October 30 2006 (Week 44)

General Status

The total outgoing SC4 traffic has ranged from at least 600 to at least 800 MB/s as daily average. The real numbers are estimated to be about a factor 1.5 higher, when the GridView plots are compared with rates shown by Lemon and by the monitoring of the experiments themselves.

We tried a few more ideas to get to the cause(s) of the discrepancies, including a downgrade of the R-GMA python client, which did rid us of the complaints from http://httplib.py, but did not change much else. We keep having to restart tomcat on the MON box every hour, to avoid that it steadily grinds to a halt: it does not consume a lot of memory, the CPU gets more and more idle, and the number of connections is not higher than in the past when things were working fairly well, and yet it somehow manages to become more and more autistic. Each restart causes the unconsumed buffered data to be lost, which could account for all of the losses. Because of other activities we have not been able to try and thoroughly debug the matter.

CMS are still running their CSA'06 Challenge without major problems, though transfer timeouts have had to be increased on various channels to allow files of 4 GB and bigger to be transferred.

Atlas have stopped their T0 export exercise and hardly send any data, also due to problems with their srm-durable-atlas CASTOR instance.

Alice have run at 200 MB/s or more for two days in a row now and currently are at 300 MB/s or better, comparable with CMS rates.

In the weekend the GridView service suffered from yet another problem with the Oracle servers, with the usual symptom on the client side, viz. the application freezes and does not recover when the server is rebooted. This implies that also the Oracle client library has a bug.



File Transfer Report

A somewhat unstable week for file transfers and for services in general.

Channel Name	VO Name	Total	% Failures	# Succ.	# Fail.	1st Failure Reason	% 1st Failure Reason	2nd Failure Reason	% 2nd Failure Reason	3rd Failure Reason	% 3rd Failure Reason	Avg. Size (GB)	Avg. Duration (sec)	Avg. Tx Rate (MB/sec)	Est. Tx Bytes (GB)	Tx Bytes (GB)
CERN-STAR	[All]	2139	91	193	1946	Dest SRM	87	Transfer	12	0.65	250.8	1.92	125.48	129.42		
CERN-GRIDKA	alice	133194	79	27816	105378	Transfer	44	Dest SRM	40	0.91	235.9	4.64	25408.61	25655.61		
	atlas	16374	59	6771	9603	Transfer	65	Dest SRM	34	1.8	389.77	8.27	12205.27	12332.27		
	cms	25866	60	6671	9904	Source SRM	76	Transfer	18	0.11	72.73	2.08	727.02	728.15		
	dteam	37573	87	3262	22604	Transfer	59	Dest SRM	24	2.73	470.88	8.59	8893.17	9004.98		
	lhcb	36800	91	3434	34139	Dest SRM	59	Transfer	27	0.85	280.81	6.08	2932.62	2939.13		
	ops	6	100	0	6	Other	100		0	0	0	0	0			
CERN-SARA	[All]	102019	72	28274	73745	Dest SRM	97	Transfer	1	1.53	154.67	15.35	43216.47	43339.01		
	alice	24793	22	19272	5521	Dest SRM	92	Transfer	6	1.84	163.29	17.87	35393.07	35490.29		
	atlas	116	37	73	43	Dest SRM	60	Transfer	37	0	78.66	0.02	0.04	0.04		
	dteam	76412	89	8456	67956	Dest SRM	98	Other	1	0.92	136.5	10.58	7802.74	7828.06		
	lhcb	697	32	472	225	Dest SRM	84	Transfer	14	0.04	140.07	0.55	20.63	20.63		
	ops	1	0	1	0				0	34	0.02	0	0			
CERN-CERN	[All]	2396	64	868	1528	Source SRM	97	Dest SRM	2	0.06	114.7	0.68	50.93	50.93		
CERN-PIC	[All]	99730	63	36710	63020	Dest SRM	78	Transfer	18	1.23	713.12	1.6	45254.76	45546.71		
	atlas	8714	98	180	8534	Dest SRM	85	Source SRM	14	0.38	258.62	0.38	67.61	67.61		
	cms	9461	7	8834	627	Transfer	78	Source SRM	21	2.88	1024.48	3.17	25469.85	25469.85		
	dteam	73171	73	19463	53708	Dest SRM	78	Transfer	20	0.98	816.63	1.26	18981.46	19272.79		
	lhcb	8384	2	8233	151	Source SRM	95	Other	3	0.09	144.25	0.73	735.84	736.46		
CERN-ASCC	[All]	32805	47	17495	15310	Dest SRM	74	Transfer	16	1.63	1741.55	1.04	28556.98	32032.66		
	atlas	372	9	338	34	Transfer	53	Source SRM	32	0.31	354.25	0.39	103.11	132.52		
	cms	9476	40	5662	3814	Dest SRM	51	Transfer	34	3.05	3072.09	1.15	17247.8	19470.55		
	dteam	22956	50	11494	11462	Dest SRM	82	Transfer	10	0.97	1127.06	1.04	11206.06	12429.59		
	ops	1	0	1	0				0	53	0.01	0	0			
CERN-BNL	[All]	60720	36	38800	21920	Source SRM	57	Dest SRM	27	0.95	439.75	4.08	36834.93	37067.88		
	atlas	15098	84	2440	12658	Source SRM	95	Transfer	3	0.56	186.95	3.92	1372.04	1380.05		
	dteam	45622	20	36360	9262	Dest SRM	60	Transfer	34	0.98	456.72	4.1	35462.89	35687.83		
CERN-INFN	[All]	45568	35	29546	16022	Transfer	50	Dest SRM	28	1.68	444.6	5.21	48652.9	58500.17		
	alice	12999	19	10522	2477	Transfer	76	Dest SRM	21	1.84	421.81	7.57	19398.93	21587.78		
	atlas	3290	92	256	3034	Other	59	Dest SRM	29	0.59	109.92	8.48	149.9	157.93		
	cms	20007	48	10480	9527	Transfer	60	Dest SRM	26	2.8	723.89	6.05	29368.43	36010.26		
	dteam	24	13	21	3	Other	67	Dest SRM	33	0	78.57	0.01	0.01	0.01		
	lhcb	9245	11	8267	978	Dest SRM	63	Source SRM	19	0.09	130.86	1.05	735.64	744.19		
	ops	3	100	0	3	Other	67	Dest SRM	33	0	0	0	0	0		
CERN-TRIUMF	[All]	33736	21	26653	7083	Source SRM	62	Dest SRM	27	0.98	278.97	4.06	26134.54	26165.4		
	atlas	6725	87	872	5853	Source SRM	71	Dest SRM	28	1.13	316.47	3.62	984.14	990.72		
	dteam	27010	5	25780	1230	Transfer	55	Dest SRM	24	0.98	277.71	4.08	25150.4	25174.68		
	ops	1	0	1	0				0	26	0.02	0	0			



ATLAS Transfers

- Awaiting a plan for ramping up to 300MB/s from CERN to BNL (new rates with 1MB ESD size).
- Multi-VO issues will be discussed offline at the pre-GDB next week with IN2P3.

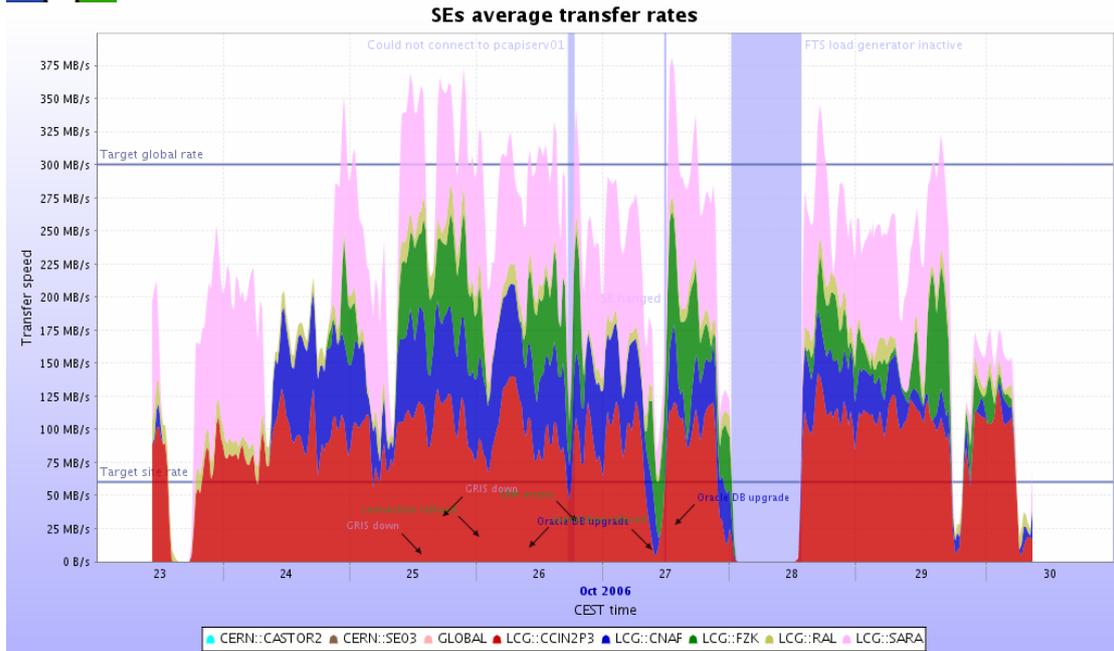
Alice Transfers

A big improvement in per-site rates was seen over the last week, although improvements in stability are still required. Compared to a realistic target that could be reached with the participating sites and their long-term targets – some 200MB/s – the daily and weekly averages are already close to target.

The timescale for adding US-ALICE and NDGF needs to be understood.

Further details: <https://twiki.cern.ch/twiki/bin/view/LCG/AliceTransfers>

Tier1 site	SC4 Target	SC4 Peak	Megatable (pp)	2007 Request (HI?)
CCIN2P3	60	100	28	50
CNAF	60	40	35	50
FZK	60	30	60	80
RAL	30	15	9	5
SARA	30	60	14	30
NDGF	N/A	-	21	50
US-ALICE	60	-	46	40
TOTAL	300		188	305



Site Action List

CERN	ALICE	
	ATLAS	
	CMS	
	LHCb	
BNL	ATLAS	
ASGC	ATLAS	
	CMS	
CNAF	ALICE	
	ATLAS	
	CMS	
	LHCb	
LYON	ALICE	
	ATLAS	
	CMS	
	LHCb	
FZK	ALICE	
	ATLAS	



	CMS	
	LHCb	
PIC	ATLAS	
	CMS	
	LHCb	
RAL	ALICE	
	ATLAS	
	CMS	
	LHCb	
SARA	ALICE	
	ATLAS	
	LHCb	
TRIUMF	ATLAS	
NDGF	ALICE	Site not available for SC4 Service.
	ATLAS	Ditto
	CMS	Ditto
US ALICE	ALICE	Site not available for SC4 Service.