

Commissioning T2Ds

Simone Campana

- T2Ds: T2s directly connected to T1s of different clouds
 - “directly” in the DDM topology
- T2Ds should
 - demonstrate “good” connectivity from/to every T2
 - provide a certain level of commitment
- T2Ds could be de-commissioned if they degrade
- We identified 13 candidates T2Ds
 - US: SLAC, MWT2, AGLT2
 - DE: DESY-ZK, DESY-HH
 - ES: IFAE, IFIC
 - FR: GRIF-LPNHE, TOKYO-LCG2
 - IT: NAPOLI, ROMA1
 - UK: MANCHESTER, GLASGOW
- There is no “maximum number” of T2Ds

- Measurements from http://bourricot.cern.ch/dq2/ftsmon/sonar_view/cached/
 - Last 15 days, include SONAR + production transfers
- See also the single channel history http://bourricot.cern.ch/dq2/ftsmon/test_view/
- Metrics on single file transfer:

Avg(ByteRate)+StD(ByteRate)

SMALL	<0.05MB/s	<0.1MB/s	>=0.1MB/s
MEDIUM	<1MB/s	<2MB/s	>=2MB/s
LARGE	<10MB/s	<15MB/s	>=15MB/s

Number of files transferred

SMALL	<=3	4	>=5
MEDIUM	<=2	3	>=4
LARGE	<=1	2	>=3

Definition of priorities

		SOURCES			
		TIER 0	TIER 1	TIER 2	TIER 3
DESTS	TIER 0	9	9	CLOSE: 7 4	0
	TIER 1	10	9	CLOUD: 8 CLOSE: 7 4	CLOUD: 3 0
	TIER 2	CLOSE: 7 4	CLOUD: 8 CLOSE: 7 4	CLOUD: 6 CLOSE: 5	0
	TIER 3	0	CLOUD: 3 0	CLOUD: 1 0	0

Show entries ←

Search all columns:

Prio	Source	SCloud	Destination	DCloud	SMALL FILES			MEDIUM FILES			LARGE FILES		
					MB/s	MB	#Ev	MB/s	MB	#Ev	MB/s	GB	#Ev
7	DESY-HH	DE - T2	INFN-T1	IT - T1	0.62+0.12	20.0+0.0	5	6.54+0.12	200.0+0.0	5	36.21+4.86	2.0+0.0	5
7	DESY-HH	DE - T2	PIC	ES - T1	1.01+0.06	20.0+0.0	5	7.4+1.56	200.0+0.0	5	26.8+11.11	1.84+0.39	6
7	DESY-HH	DE - T2	NDGF-T1	NG - T1	1.03+0.08	20.0+0.0	5	8.71+1.81	200.0+0.0	5	31.9+5.1	2.0+0.0	5
7	DESY-HH	DE - T2	RAL-LCG2	UK - T1	0.38+0.07	20.0+0.0	5	1.77+0.36	200.0+0.0	5	4.18+3.03	2.0+0.0	5
7	DESY-HH	DE - T2	TW-FTT	TW - T1	0.52+0.02	20.0+0.0	5	2.41+0.39	200.0+0.0	5	11.91+1.41	2.0+0.0	5
7	DESY-HH	DE - T2	SARA-MATRIX	NL - T1	1.41+0.04	20.0+0.0	5	10.27+0.93	200.0+0.0	5	48.93+11.71	2.0+0.0	5
7	DESY-HH	DE - T2	TAIWAN-LCG2	TW - T1	0.31+0.01	20.0+0.0	5	1.83+0.08	200.0+0.0	5	13.78+0.39	2.0+0.0	5
7	DESY-HH	DE - T2	TRIUMF-LCG2	CA - T1	0.7+0.05	20.0+0.0	5	4.49+0.85	200.0+0.0	5	8.37+1.19	2.0+0.0	5
7	DESY-HH	DE - T2	IN2P3-CC	FR - T1	0.85+0.32	20.0+0.0	5	2.82+0.27	200.0+0.0	5	16.93+4.96	2.0+0.0	5
7	DESY-HH	DE - T2	NIKHEF-ELPROD	NL - T1	0.78+0.41	20.0+0.0	5	8.13+0.18	200.0+0.0	5	38.9+11.68	2.0+0.0	5
7	DESY-HH	DE - T2	BNL-OSG2	US - T1	0.36+0.1	20.0+0.0	5	3.76+0.62	200.0+0.0	5	20.08+1.71	2.0+0.0	5
7	DESY-ZN	DE - T2	INFN-T1	IT - T1	0.7+0.02	20.0+0.0	5	3.11+0.82	200.0+0.0	5	40.15+8.66	2.0+0.0	5
7	DESY-ZN	DE - T2	PIC	ES - T1	0.43+0.19	20.0+0.0	5	4.61+1.76	200.0+0.0	5	20.31+0.85	2.0+0.0	5
7	DESY-ZN	DE - T2	NDGF-T1	NG - T1	0.63+0.09	20.0+0.0	5	3.93+1.35	200.0+0.0	5	27.71+1.71	2.0+0.0	5
7	DESY-ZN	DE - T2	RAL-LCG2	UK - T1	0.43+0.02	20.0+0.0	5	3.58+0.15	200.0+0.0	5	11.21+2.19	2.0+0.0	5
7	DESY-ZN	DE - T2	TW-FTT	TW - T1	0.24+0.05	20.0+0.0	5	1.14+0.09	200.0+0.0	5	12.74+1.25	2.0+0.0	5
7	DESY-ZN	DE - T2	SARA-MATRIX	NL - T1	1.04+0.06	20.0+0.0	5	4.66+0.83	200.0+0.0	5	59.7+9.47	2.0+0.0	5
7	DESY-ZN	DE - T2	TAIWAN-LCG2	TW - T1	0.26+0.04	20.0+0.0	5	1.23+0.09	200.0+0.0	5	9.55+1.82	2.0+0.0	5
7	DESY-ZN	DE - T2	TRIUMF-LCG2	CA - T1	0.6+0.06	20.0+0.0	5	4.05+0.6	200.0+0.0	5	7.23+1.06	2.0+0.0	5
7	DESY-ZN	DE - T2	IN2P3-CC	FR - T1	0.72+0.08	20.0+0.0	5	4.46+1.11	200.0+0.0	5	18.86+1.17	2.0+0.0	5
7	DESY-ZN	DE - T2	NIKHEF-ELPROD	NL - T1	0.48+0.26	20.0+0.0	5	3.86+0.96	200.0+0.0	5	50.35+12.11	2.0+0.0	5
7	DESY-ZN	DE - T2	BNL-OSG2	US - T1	0.43+0.12	20.0+0.0	5	3.57+0.46	200.0+0.0	5	24.44+2.62	2.0+0.0	5

7 Filter source DE Filter dest T1

Showing 1 to 22 of 22 entries (filtered from 5,682 to 22 entries)

First Previous 1 Next Last

LEGEND



- General:
 - transfers from T1 to T2D (25 problematic channels) generally more efficient than T2D to T1 (46 problematic channels)
 - No “transatlantic” issue
- US sites look OK
 - I propose to promote **SLAC**, **MWT2** and **AGLT2** to T2Ds
- DE sites look OK
 - I propose to promote **DESY-ZK** and **DESY-HH** to T2Ds
- ES
 - IFAE is trouble, transfers did not even succeed. Need to look.
 - **IFIC** looks good. I would promote (ES cloud support should comment)
- FR
 - **GRIF-LPNHE** looks good (I hope I picked the right GRIF). I would promote.
 - Traffic INTO Tokyo is good, out of Tokyo is problematic. On probation.
- IT
 - **Napoli** looks good. I would promote.
 - Roma suffers the Tokyo syndrome (problems exporting, OK in importing). On probation.
- UK sites need attention
 - issue in both directions for Manchester and Glasgow.

- For the sites not passing the criteria
 - CLOUD SQUADS should react
 - FTS ad-hoc transfers
 - Investigation at the level below that (iperf to T1s)
 - Follow up in two weeks
- For commissioned T2Ds
 - please look into remaining issues (attached file)
 - FTS channels
 - For each T2D, create a “cloud channel”:
 - ALLT1-T2 (in the FTS serving the T1)
 - If you want to avoid, fine, but you better watch it.
 - In principle, all T1s should create ALLT2D-T1
 - Wait for this
 - We will change ToA tomorrow