FAX status report

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US ATLAS Computing Integration and Operations Meeting

April 16, 2014

Global Deployment Status

Cloud	T1s		T2Ds		T2	
	Done	Total	Done	Total	Done	Total
CA	0	1	1	4	0	1
US	1	1	5	6	1	2
FR	0	1	2	8	0	6
DE	1	1	7	9	2	5
IT	1	1	3	3	1	1
ES	0	1	0	4	0	2
NL	0	2	1	2	1	9
UK	1	1	8	10	2	7
TW	1	1	-	-	0	1
ND	0	1	-	-	0	3
CERN	1	1	-	-	-	-
RU	0	1	-	-	-	-
Total	6	13	27	46	7	37

- **SFU-LCG2 (CA cloud) joined**
  - Direct dCache
  - Connected to xrd-central
- **Mayor T1s missing**
  - CA –TRIUMF – good progress
  - ES – pic – working with them
  - FR – Lyon – progress stalled
  - NL – Sara, Nikhef – no progress
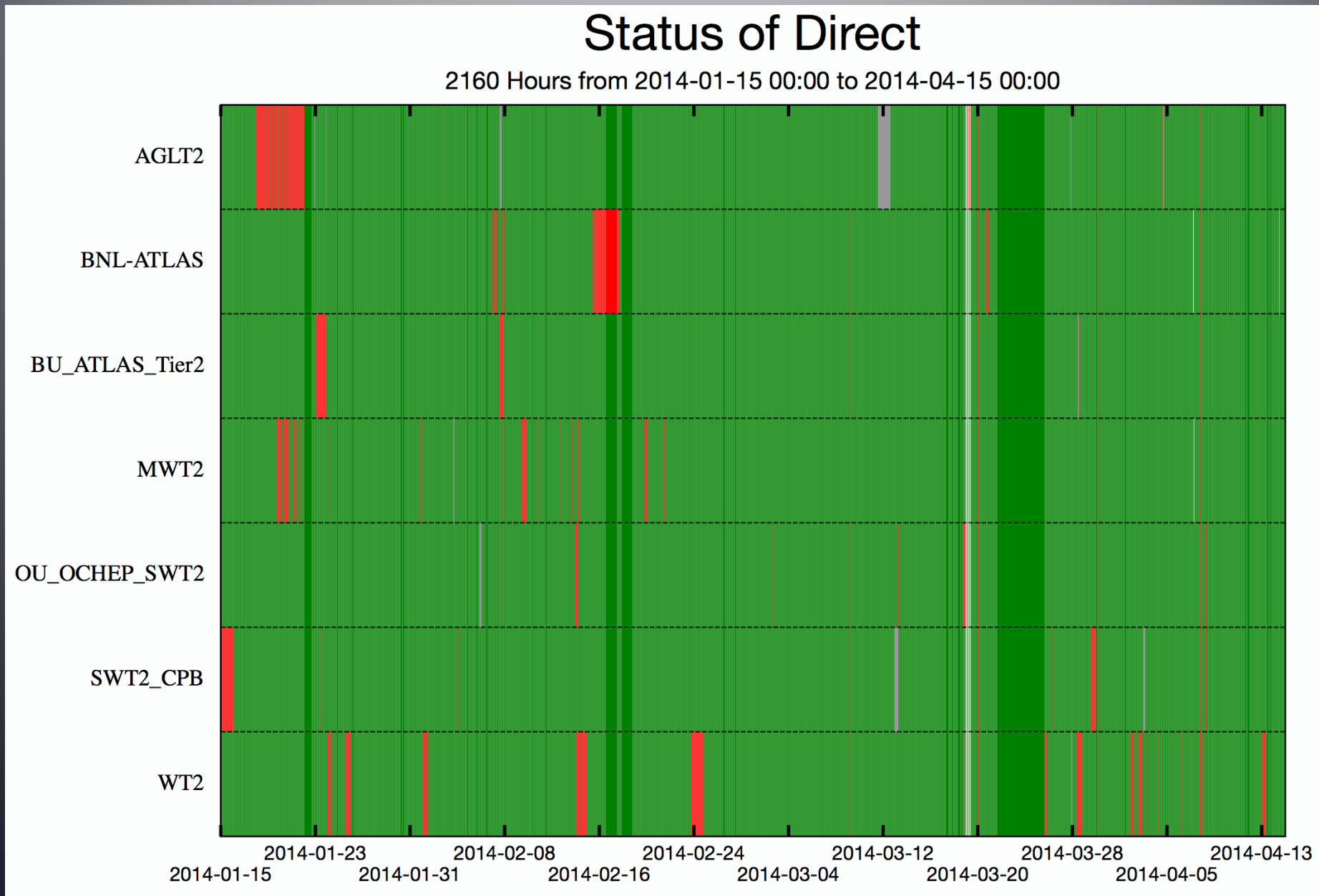
North American Redirectors

- Restructuring of the redirection tree in North America
- Hosted at BNL; FAX operations team provides configuration and operational support
  - atlas-xrd-us.usatlas.org
    - North American region
  - atlas-xrd-east.usatlas.org
    - -BNL, BU, Victoria, Scinet
  - atlas-xrd-central.usatlas.org
    - MWT2, AGLT2, OU, SWT2
  - atlas-xrd-west.usatlas.org
    - SLAC, TRIUMF, McGill, SFU
- Status and timeframe:
  - Hosts and configurations ready. Waiting for git repository's connection.

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Global SSB: most sites are stable

Site Name	Direct	Upstream redirection	Downstream redirection	ATLAS readonly
UKI-NORTHGRID-LANCS-HEP	OK	OK	OK	On
GRIF-IRFU	OK	OK	OK	On
UKI-SCOTGRID-ECDF	OK	OK	OK	On
UKI-NORTHGRID-LIV-HEP	OK	OK	OK	On
wuppertalprod	OK	OK	OK	Off
CERN-PROD	OK	OK	OK	On
BNL-ATLAS	OK	OK	OK	On
OU_OCHEP_SWT2	OK	OK	OK	On
GRIF-LPNHE	OK	OK	OK	On
SFU-LCG2	OK	OK	NoFirstLevelRedirection	Off
UNI-FREIBURG	OK	OK	OK	On
MWT2	OK	OK	OK	On
INFN-ROMA1	OK	OK	OK	On
UKI-NORTHGRID-SHEF-HEP	OK	OK	OK	On
WT2	OK	OK	OK	On
INFN-MILANO-ATLASC	OK	OK	OK	Off
SWT2_CPB	OK	OK	OK	On
JINR-LCG2	OK	OK	OK	On
DESY-HH	OK	OK	OK	On
MPPMU	OK	OK	OK	On
RAL-LCG2	OK	OK	OK	On
INFN-FRASCATI	OK	OK	OK	On
DESY-ZN	OK	OK	OK	On
AGLT2	OK	OK	OK	Off
UNIGE-DPNC	OK	OK	OK	On
LRZ-LMU	OK	OK	OK	On
praguelcg2	OK	OK	OK	On
INFN-NAPOLI-ATLAS	OK	OK	OK	On
PSNC	OK	OK	OK	On
Taiwan-LCG2	OK	OK	NoFirstLevelRedirection	On
UKI-SCOTGRID-GLASGOW	OK	OK	OK	On
UKI-LT2-QMUL	OK	OK	OK	Off
UKI-SOUTHGRID-CAM-HEP	OK	OK	OK	On
UKI-SOUTHGRID-OX-HEP	OK	OK	OK	On
IN2P3-LAPP	OK	OK	OK	On
BU_ATLAS_Tier2	OK	OK	NoFirstLevelRedirection	On
FZK-LCG2	OK	OK	OK	On
INFN-T1	OK	OK	OK	Off
UNIBE-LHEP	noDirect	NoUpstreamRedirection	NoFirstLevelRedirection	Off
IN2P3-LPSC	noDirect	NoUpstreamRedirection	NoFirstLevelRedirection	Off
UKI-SOUTHGRID-RALPP	noDirect	NoUpstreamRedirection	NoFirstLevelRedirection	Off
UKI-LT2-RHUL	noDirect	NoUpstreamRedirection	NoFirstLevelRedirection	Off
GRIF-LAL	noDirect	NoUpstreamRedirection	NoFirstLevelRedirection	Off
CYFRONET-LCG2	noDirect	NoUpstreamRedirection	NoFirstLevelRedirection	Off
IN2P3-CPPM	noDirect	NoUpstreamRedirection	NoFirstLevelRedirection	Off
UKI-NORTHGRID-MAN-HEP	noDirect	NoUpstreamRedirection	NoFirstLevelRedirection	Off
RU-Protvino-IHEP	noDirect	NoUpstreamRedirection	NoFirstLevelRedirection	Off
GoeGrid	offline	offline	offline	offline

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US FAX status: past three months

Status of Direct
2160 Hours from 2014-01-15 00:00 to 2014-04-15 00:00

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Cost Matrix - US

- ## Averaged over last week

	BNL-OSG2	MWT2	NET2	OU_OCHEP_SWT2	SLACXRD	SWT2_CPB	
AGLT2	19.5	15.2	4.4	8.6	8.7	9.1	
BNL-OSG2	47.7	18.1	16.8	16.3	13.6	10.6	
MWT2	19	54.6	2.3	5	10.1	3.7	Storage site
NET2	32.3	9.5	45.4	13.3	10.6	8.9	
OU_OCHEP_SWT2	20	25.9	7.7	62.8	20.2	24.6	
SLACXRD	11.5	6.1	2.8	12	58.7	9.9	
SWT2_CPB	20.1	24.7	8.6	29.6	20.4	81	

Computing site

5 - 20 MB/s
23 links

< 5 MB/s
4 links

>20 MB/s
15 links
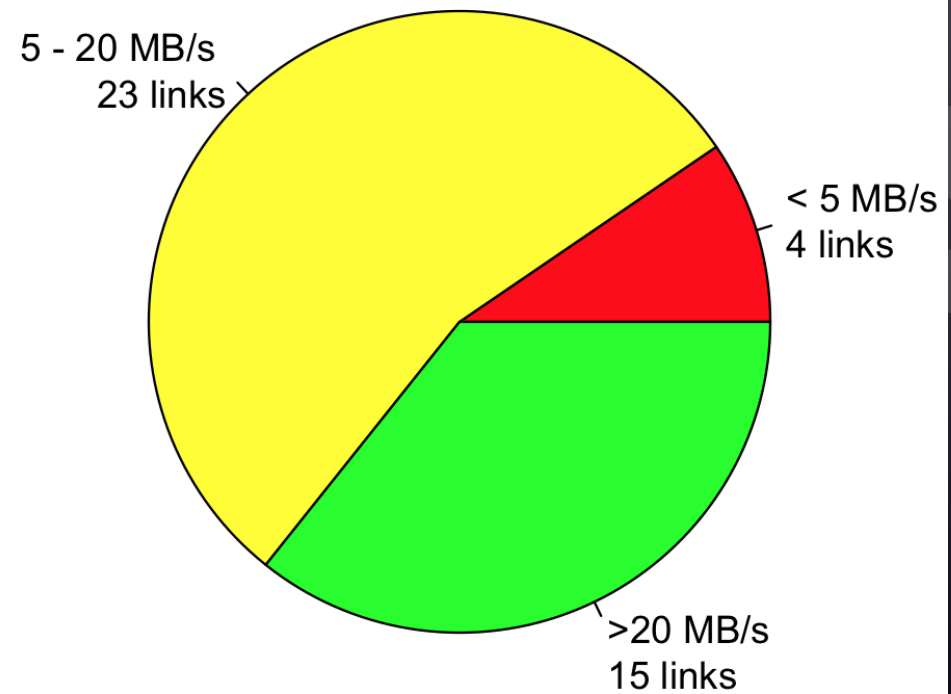
Failover Statistics – last two weeks

Record count: 60389

Show 75 entries   Search:

	Site	Jobs	WithFAX [files]	WithoutFAX [files]	WithFAX [GB]	WithoutFAX [GB]
⊕	US: ANALY_BNL_LONG	8255	8719	249	7711.93	677.29
⊕	DE: DESY-ZN	5560	14996	228	7548.89	347.69
⊕	TW: ANALY_TAIWAN_PNFS_SL6	4747	4867	18675	493.61	26359.99
⊕	DE: MPPMU	4691	19055	1024	11788.78	1075.44
⊕	FR: ANALY_GRIF-LPNHE	3733	4195	11859	12594.70	11090.77
⊕	IT: INFN-T1	2876	4680	6241	2516.80	5087.41
⊕	FR: IN2P3-CC_MCORE	2740	2740	40	444.00	19.37
⊕	NL: SARA-MATRIX	1983	5108	3387	3648.68	1995.06
⊕	US: ANALY_OU_OCHEP_SWT2	1308	1440	5	1336.56	3.77
⊕	US: ANALY_BNL_SHORT	1198	1423	735	1268.52	1320.71
⊕	UK: UKI-LT2-RHUL_SL6	1121	3141	2402	1296.17	900.45
⊕	US: ANALY_BNL_CLOUD	935	1768	1835	10651.40	4854.16
⊕	DE: FZK-LCG2	818	3659	0	1561.08	0.00
⊕	FR: ANALY_ROMANIA02	745	814	2125	2488.99	3558.73
⊕	DE: GoeGrid	706	717	495	104.88	60.78
⊕	DE: wuppertalprod_MCORE	676	3667	0	1701.37	0.00
⊕	TW: Taiwan-LCG2_VL	628	740	6201	306.43	2890.24
⊕	UK: ANALY_RALPP_SL6	579	778	6106	1143.24	5906.50
⊕	NL: ANALY_NIKHEF-ELPROD_SHORT	576	748	3161	1141.59	3793.83
⊕	NL: ANALY_NIKHEF-ELPROD	571	853	2098	1591.78	2884.36
⊕	CA: CA-SCINET-T2	556	2482	225	1308.94	93.58
⊕	IT: ANALY_INFN-MILANO-ATLASC	544	544	812	871.57	619.76
⊕	NL: NIKHEF-ELPROD	536	868	4488	310.94	1711.86
⊕	UK: RAL-LCG2_HIMEM_SL6	520	639	5421	283.63	2198.78

Testing & Development

- New dCache redirector plugin developed

  – Provides simpler federating, improves efficiency and stability of dCache endpoints.

- 100Gbps tests as soon as MWT2-BNL circuit available

- Testing overflow now the new test pilot is available

- Working with EOS on finding solution to a too many DDM endpoints issue

- Wei continuously testing using input files from analysis jobs.

- Restarting frameworks measuring and following IO characteristics of ATLAS data formats – in particular xAOD.

EXTRA

UC/BNL-via-ESnet-100G Utilization

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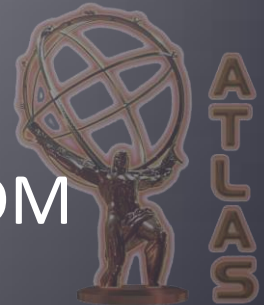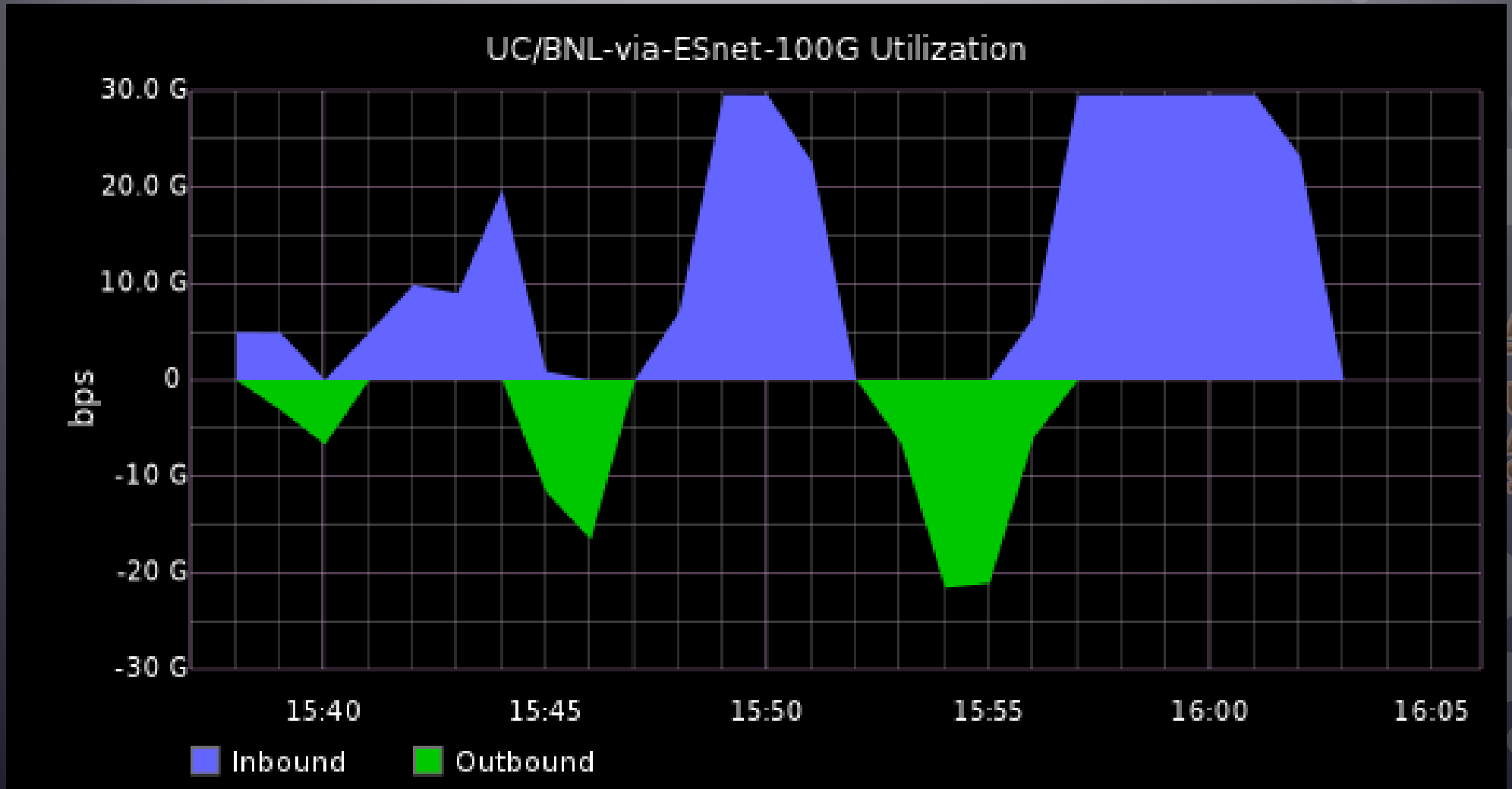
Cost matrix

Yesterday

Last 30 days

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