

Storage Accounting

Adrian Coveney

OMB – 2017-03-30



www.egi.eu

EGI-Engage is co-funded by the Horizon 2020 Framework Programme
of the European Union under grant number 654142



1. Current status
2. Portal views
3. Next steps

- APEL storage accounting is available for dCache and DPM which covers most sites
- About 25 sites are now sending storage accounting records. (A few currently in the process of setting up)
- Currently sending all data to portal. In future we will develop a summary record and send that
- Data viewable in the old development Accounting Portal:
<http://accounting-devel.egi.eu/storage.php>

- Countries
- EMI3
- EGI
 - ▶ AfricaArabia
 - ▶ AsiaPacific
 - ▶ CERN
 - ▶ EGI.eu
 - ▶ ELIXIR
 - ▶ IDGF
 - ▶ NGI_AEGIS
 - ▶ NGI_ARMGRID
 - ▶ NGI_BA
 - ▶ NGI_BG
 - ▶ NGI_BY
 - ▶ NGI_CH
 - ▶ NGI_CHINA
 - ▶ NGI_CYGRID
 - ▶ NGI_CZ
 - ▶ NGI_DE
 - ▶ NGI_FI
 - ▶ NGI_FRANCE
 - ▶ NGI_GE
 - ▶ NGI_GRNET
 - ▶ NGI_HR
 - ▶ NGI_HU
 - ▶ NGI_IBERGRID
 - ▶ NGI_IL
 - ▶ NGI_IT
 - ▶ NGI_MARGI
 - ▶ NGI_MD
 - ▶ NGI_ME
 - ▶ NGI_NDGF
 - ▶ NGI_NL
 - ▶ NGI_PL
 - ▶ NGI_RO
 - ▶ NGI_SI
 - ▶ NGI_SK
 - ▶ NGI_TR
 - ▶ NGI_UA
 - ▶ NGI_UK
 - ▶ ROC_Canada
 - ▶ ROC_LA

Data to graph:	Average Logical Terabytes consumed ▾ undefined			
Period:	Start year: 2017 ▾	Start month: 1 ▾	End year: 2017 ▾	End month: 3 ▾
Groupings:	Show data for: SITE ▾		as a function of: DATE ▾	
VO Groups:	<input type="radio"/> LHC <input type="radio"/> TOP 10 <input checked="" type="radio"/> ALL <input type="radio"/> Custom <input type="checkbox"/> Group the rest of VOs in a new category			
Chart:	Type: GROUP BAR ▾	Scale: LINEAR ▾		
dteam VO:	<input type="checkbox"/> Exclude dteam and ops VOs jobs information			
Local Jobs:	<input type="radio"/> Grid Jobs Only <input checked="" type="radio"/> Grid Jobs and Local Jobs <input type="radio"/> Local Jobs Only			

Refresh

by SITE and DATE.

ALL VOs. January 2017 - March 2017.

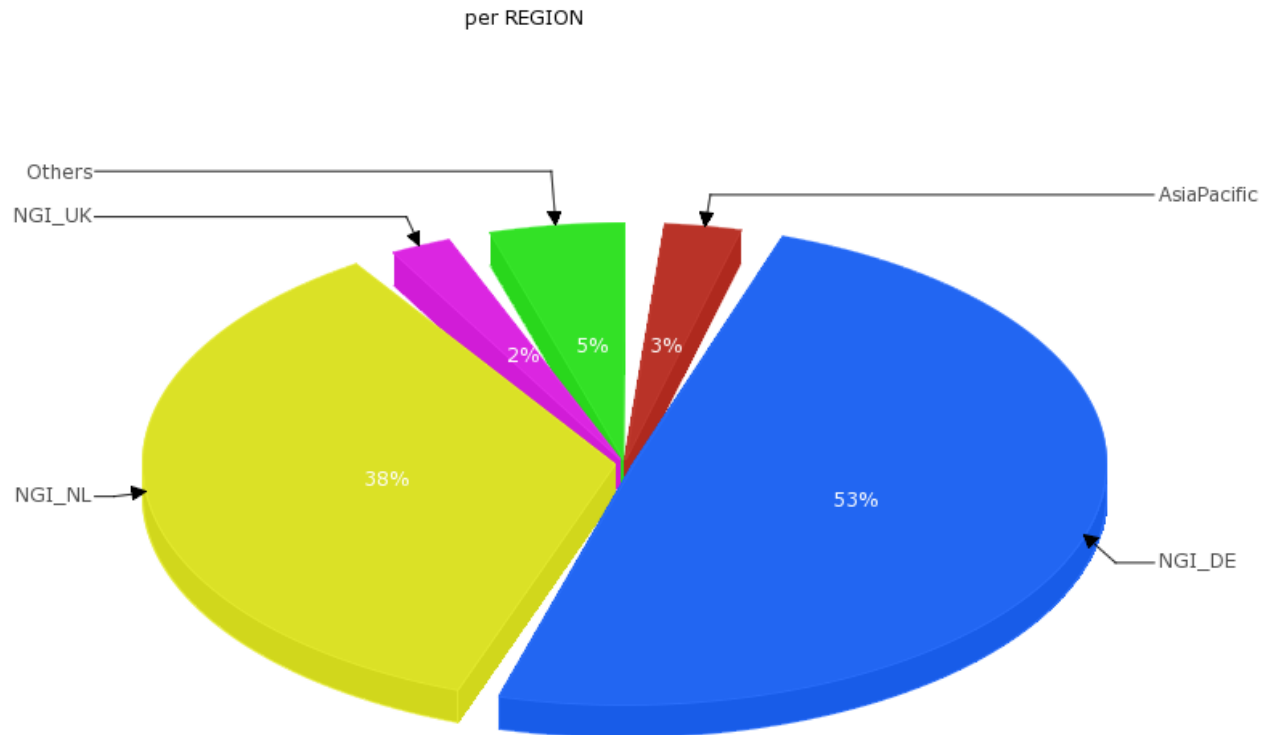
The following table shows the distribution of grouped by SITE and DATE.

by SITE and DATE					
SITE	Jan 2017	Feb 2017	Mar 2017	Total	%
AM-01-IIAP	0	0	0	0	0.00%
ARNES	0	1.54 TB	1.55 TB	3.09 TB	0.03%
BEgrid-ULB-VUB	0	0	2.80 PB	2.80 PB	28.68%
BEIJING-LCG2	0	19.18 TB	17.07 TB	36.25 TB	0.36%
BUDAPEST	0	28.16 TB	27.80 TB	55.96 TB	0.55%
CBPF	0	5.81 TB	5.70 TB	11.52 TB	0.11%
CSC	0	0	0.25 TB	0.25 TB	0.00%
FMPH-UNIBA	0	11.52 TB	11.49 TB	23.01 TB	0.22%
GE-01-GRENA	0	0.02 TB	0.01 TB	0.04 TB	0.00%
HG-06-EKT	0	0	0.51 TB	0.51 TB	0.00%
IEPSAS-Kosice	0	106.13 TB	102.09 TB	208.23 TB	2.07%
IN2P3-IRES	10.77 TB	11.76 TB	11.29 TB	33.83 TB	0.33%
INFN-NAPOLI-ATLAS	15.61 TB	15.62 TB	15.69 TB	46.93 TB	0.46%
LRZ-LMU	1.16 PB	1.27 PB	1.48 PB	3.92 PB	40.11%
praguefcg2	8.57 TB	8.58 TB	8.57 TB	25.73 TB	0.25%
RO-14-ITIM	0	0	4.38 TB	4.38 TB	0.04%
Taiwan-LCG2	0	106.04 TB	104.20 TB	210.24 TB	2.09%
TR-10-ULAKBIM	1.84 TB	1.85 TB	1.87 TB	5.57 TB	0.05%
TRIUMF-LCG2	0	0	2.27 TB	2.27 TB	0.02%
UKI-LT2-IC-HEP	0.66 PB	0.68 PB	0.67 PB	2.02 PB	20.71%
UKI-NORTHGRID-LANCS-HEP	20.75 TB	20.85 TB	20.73 TB	62.35 TB	0.62%
UKI-NORTHGRID-LIV-HEP	0	12.41 TB	11.57 TB	23.98 TB	0.23%
UKI-SCOTGRID-ECDF	47.19 TB	48.49 TB	20.10 TB	115.79 TB	1.15%
UKI-SOUTHGRID-BRIS-HEP	21.14 TB	20.36 TB	21.92 TB	63.43 TB	0.63%
UKI-SOUTHGRID-CAM-HEP	4.38 TB	4.45 TB	4.47 TB	13.31 TB	0.13%
UKI-SOUTHGRID-RALPP	51.87 TB	51.96 TB	0	103.83 TB	1.03%
Total	2.00 PB	2.42 PB	5.35 PB	9.78 PB	
Percentage	20.52%	24.75%	54.71%		

Pie Chart showing the share in per REGION.

Developed by CESGA 'EGI View': / logical_tb_used_avg / 2017:1-2017:3 / REGION-DATE / all (x) / GRBAR-LIN / 1

2017-03-29 08:46



Storage View -> Production

Data to graph:	Average Logical Terabytes consumed	undefined		
Period:	Start year: 2017	Start month: 1	End year: 2017	End month: 3
Groupings:	Show data for: VO	as a function of: DATE		
VO Groups:	<input checked="" type="radio"/> LHC <input type="radio"/> TOP 10 <input type="radio"/> ALL <input type="radio"/> Custom	<input type="checkbox"/> Group the rest of VOs in a new category		
Chart:	Type: GROUP BAR	Scale: LINEAR		
dteam VO:	<input type="checkbox"/> Exclude dteam and ops VOs jobs information			
Local Jobs:	<input type="radio"/> Grid Jobs Only <input checked="" type="radio"/> Grid Jobs and Local Jobs <input type="radio"/> Local Jobs Only			

Refresh

by VO and DATE.

LHC VOs. January 2017 - March 2017.

The following table shows the distribution of grouped by VO and DATE.

by VO and DATE					
VO	Jan 2017	Feb 2017	Mar 2017	Total	%
alice	0	0	0	0	0.00%
atlas	183.28 TB	0.26 PB	242.80 TB	0.67 PB	38.54%
cms	0.32 PB	0.27 PB	0.25 PB	0.85 PB	48.54%
lhcb	111.85 TB	71.68 TB	49.59 TB	233.12 TB	12.90%
Total	0.61 PB	0.61 PB	0.53 PB	1.76 PB	
Percentage	34.67%	34.73%	30.59%		

[Click here for XML encoded data](#)

- Some tweaks needed to records sent to the Portal
 - Planned to be done within the next week
 - Numbers in Portal not correct until complete
- Once done, ask sites to check their numbers
 - We should not do a full rollout until existing test sites are happy
- Migrate storage view to new development Portal
 - Work mostly done

- Agree an endpoint type for GOCDDB (for Portal display and sender authorisation)
 - 'SRM' is currently used provisionally for storage
 - For all accounting, endpoint must be defined with one of the following types to appear in Portal: CE, ARC-CE, CREAM-CE, gLite-CE, eu.egi.cloud.accounting
 - WLCG may stop using SRM so can't rely on it
- Change broker queue name to a production one
- Ready for deployment!

Thank you for your attention.

Questions?



www.egi.eu

This work by Parties of the EGI-Engage Consortium is licensed under a [Creative Commons Attribution 4.0 International License](https://creativecommons.org/licenses/by/4.0/).

