

Gratia Transfer Probes

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Outline

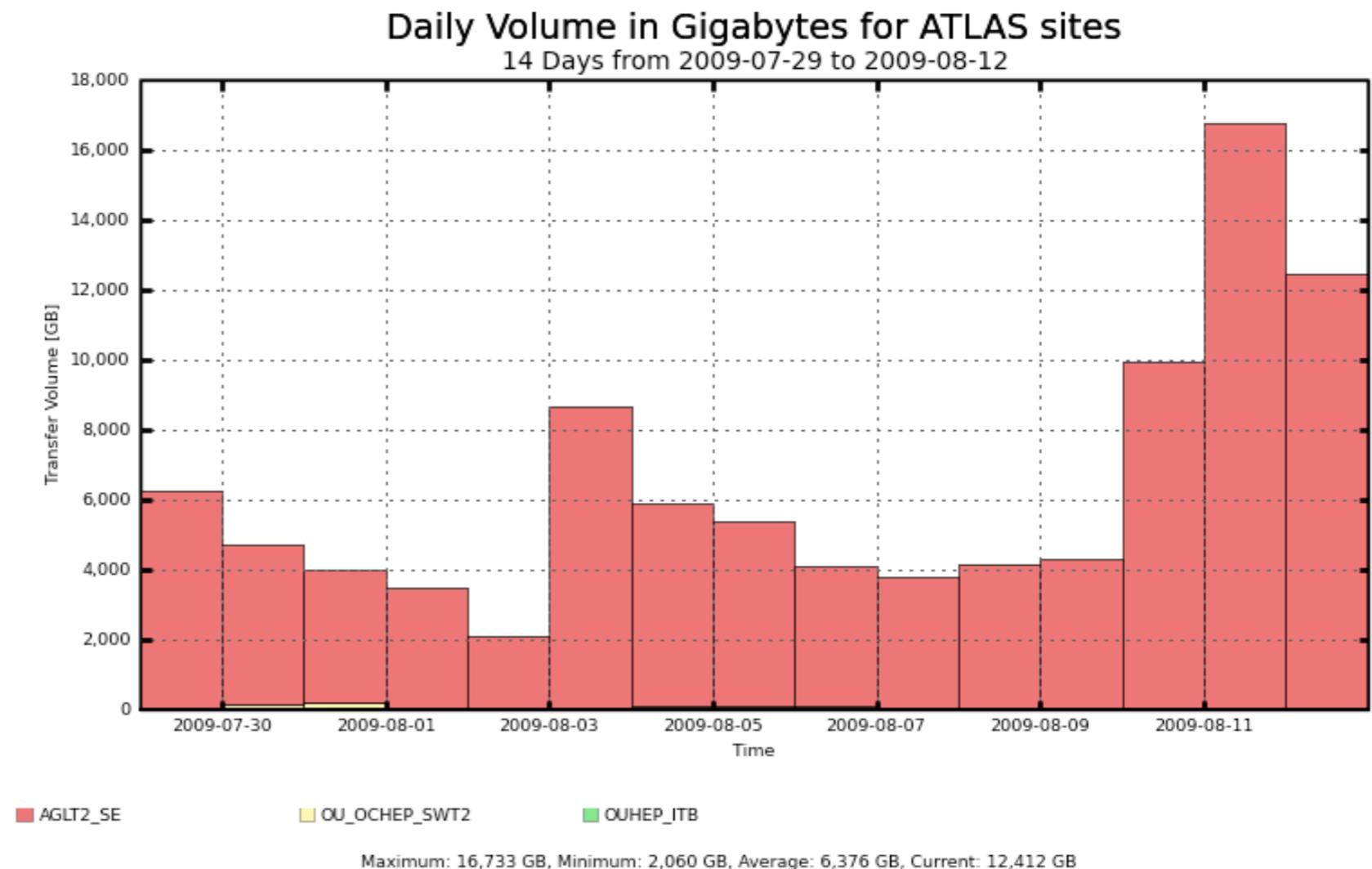
- What we collect and what we do with it.
- Installation: dCache
- Installation: GridFTP

Transfer data

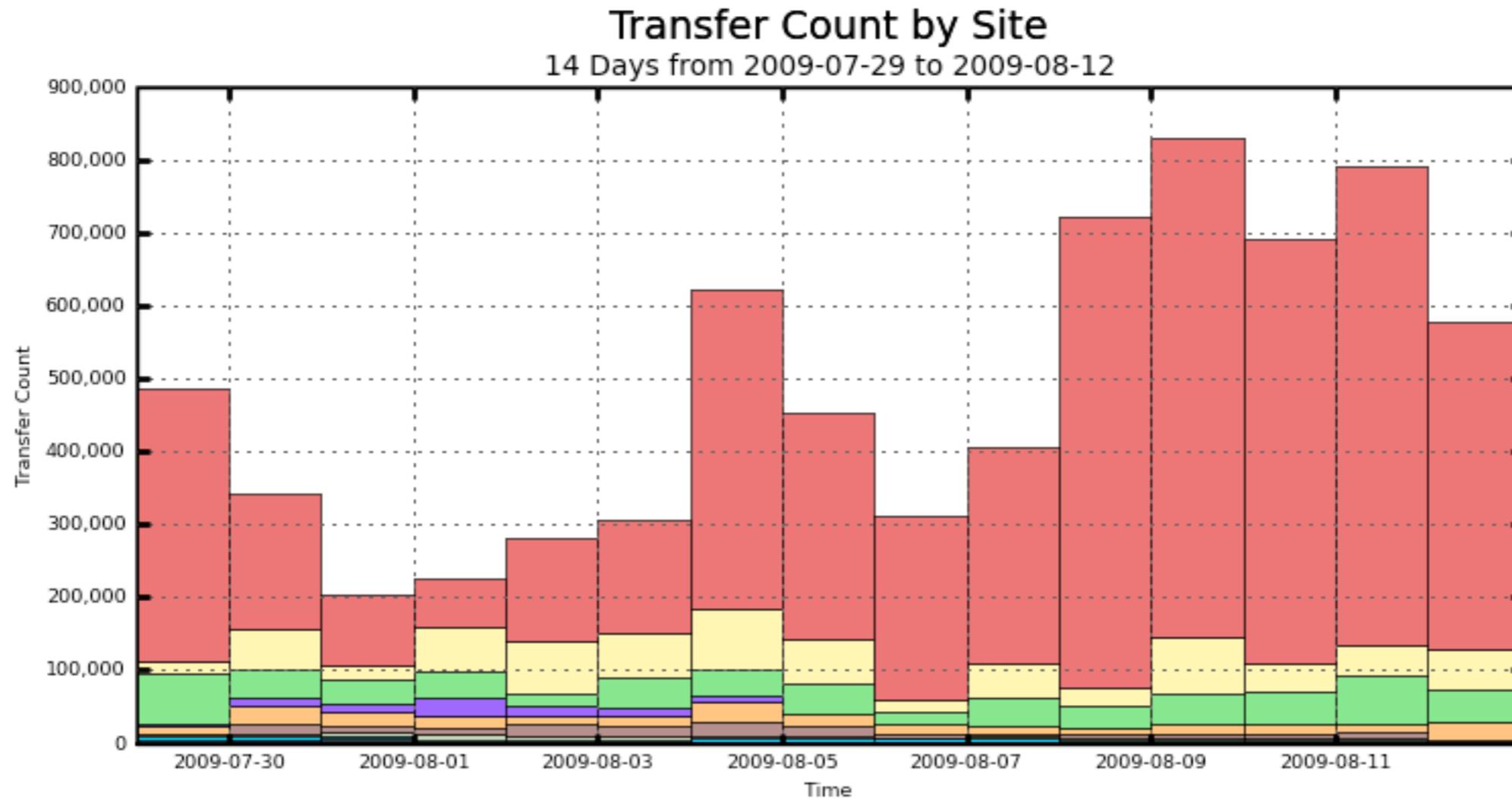
- We attempt to collect the following information, per transfer:
 - Filename
 - VO
 - User / DN
 - Bytes transferred
 - Protocol
 - Source and Dest
 - Duration

Transfer Data

- This gets summarized on a daily basis, and allows us to construct graphs like the following:



Transfer Data Examples

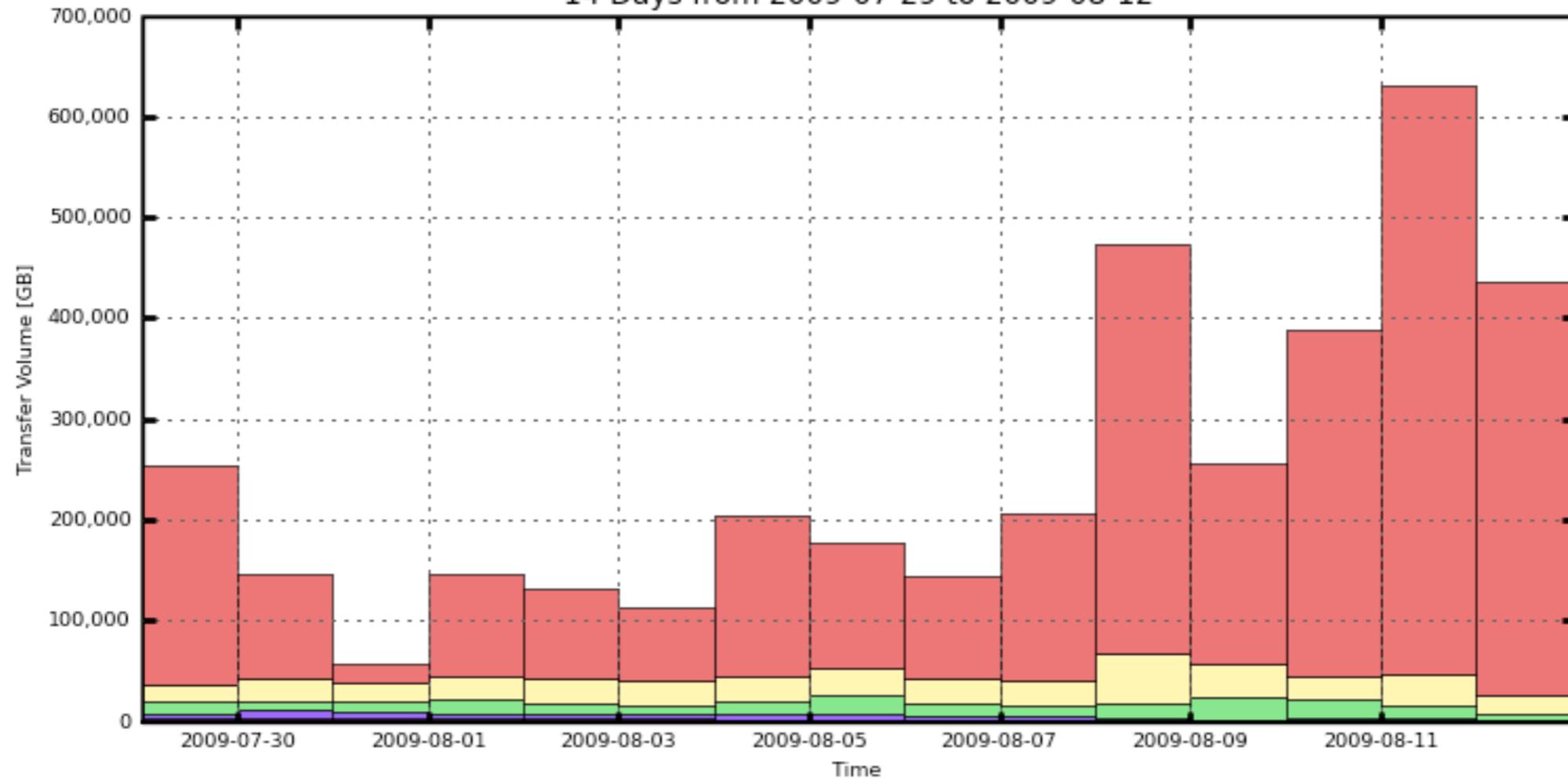


USCMS-FNAL-SE1 GLOW-CMS-SE AGLT2_SE UFlorida-SE UCSDT2-SE
Purdue-CMS-SE Nebraska CT_CMS_SE IllinoisHEP-SE OU_OCHEP_SWT2
OUHEP_ITB

Maximum: 829,460 , Minimum: 203,043 , Average: 483,348 , Current: 578,243

Transfer Data Examples

Volume of Gigabytes Transferred By Protocol
14 Days from 2009-07-29 to 2009-08-12



DCap-3.0
gsiftp

Gftp-1.0
DCapClient-1.1

RemoteGsiftpTransfer-1.1
Http-1.1

Gftp-2.0
Xrootd-2.7

Maximum: 630,405 GB, Minimum: 57,778 GB, Average: 250,652 GB, Current: 435,495 GB

State of the Art

- We have probes written for:
 - dCache (includes all transfers in the system)
 - GridFTP (can be deployed at any site using Globus GridFTP)
- Currently, AGLT2, BNL, and OU are reporting.

Installation: dCache

- The probes come with VDT packaging of dCache, and are available as RPMs.
- Install RPM on host that can access billing DB.
- Needs `osg-user-vo-map` for VO determination.
- <https://twiki.grid.iu.edu/bin/view/ReleaseDocumentation/GratiaDcacheProbes>

Installation: GridFTP

- Installation is done on all gridftp hosts.
- Can be done in a separate pacman install from GridFTP server (but this shouldn't be necessary)
- <https://twiki.grid.iu.edu/bin/view/ReleaseDocumentation/GratiaTransferProbe>

General Steps

- Both dCache and GridFTP follow this path:
 - Install RPMs or pacman packages.
 - Get osg-user-vo-map generated.
 - Make sure probe is running in crontab.
 - Run once by hand.
 - Verify your site is reporting - either use the sample commands or call an expert (osg-storage@opensciencegrid.org).

Summary

- Gratia transfer probes provide us with useful accounting of SE activity at your site.
- Transfer probes are available for every SE ATLAS uses.
- We have about 1/2 the sites participating - we'd like to cover the missing sites!
Currently, looking for WT2, BU, MWT2.