

# IPv4 transfers on IPv6 WN update

HEPiX IPv6 Working Group meeting  
*January 24<sup>th</sup> and 25<sup>th</sup>*

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# IPv4 transfers between dual-stack endpoints update (January until yesterday)

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- Total: **409984**
- GridFTP
  - ATLAS: 53
  - CMS: 276720 (67,5%) 258203 are from Alan Malta
  - LHCb: 34
- XRootD
  - ATLAS: 87264 (21,3%)
  - CMS: 11983 (2,9%)
  - LHCb: 2200 (0,5%)
- NFS
  - Others: 31730 (7,7%)

```
[root@td045 ~]# cat /etc/gfal2.d/gsiftp_plugin.conf | grep IPV6
```

```
IPV6=true
```

# CMS Singularity “hack” tests

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- The following configuration breaks Singularity because It doesn't know local paths

```
[root@td045 ~]# cat /etc/cvmfs/config.d/cms.cern.ch.local | tail -1  
export CMS_LOCAL_SITE=/home/T1_ES_PIC
```

```
[root@td045 ~]# ls -ld /cvmfs/cms.cern.ch/SITECONF/local  
lrwxrwxrwx 1 cvmfs cvmfs 15 Sep 19 2017 /cvmfs/cms.cern.ch/SITECONF/local ->  
/home/T1_ES_PIC
```

```
[root@td045 ~]# cat /home/T1_ES_PIC/JobConfig/cmsset_local.sh  
#!/bin/bash  
export GFAL_CONFIG_DIR=/etc/gfal2.d
```

# CMS Singularity “hack” tests

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- Modify T1\_ES\_PIC directory in global cvmfs configuration and add “export GFAL\_CONFIG\_DIR=/etc/gfal2.d”. This also will fail.

```
[root@td045 ~]# cat /cvmfs/cms.cern.ch/SITECONF/T1_ES_PIC/JobConfig/cmsset_local.sh
```

```
#!/bin/bash
```

```
# commented out on Jan 8th, 2018, after
```

```
https://ggus.eu/index.php?mode=ticket\_info&ticket\_id=132744
```

```
# apparently not needed anymore
```

```
#export LD_PRELOAD=/usr/lib64/libdcap.so
```

# Summary

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- ATLAS solved GFTP problem (local mover configuration + gsiftp IPv6 flag true on WN)
- We have to do tests with CMS singularity image enabling gsiftp IPv6 flag locally at PIC
- We have to start to dig into XRootD transfers
- NFS transfer are from astrophysics experiments. It can be some misconfiguration on NFS doors