

# DPM xrootd (and UK Cloud) Status

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ATLAS FAX ops meeting  
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# Status

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- Latest DPM xrootd server installed on **test** machine in Glasgow by Sam
- Machine was down for a bit as also being used for Ipv6 test environment – now up.
  - Test environment may be causing some slowness
- New tweaks from David Smith for ATLAS use case global redirector.
  - David has update all instructions on :  
<https://svnweb.cern.ch/trac/lcgdm/wiki/Dpm/Xroot/Setup>

# Functionality Testing

- Copy (and ROOT open) of local file from local path ✓
  - E.g.  
[root://svr025.gla.scotgrid.ac.uk//dpm/gla.scotgrid.ac.uk/home/atlas/atlasppsdisk/user.ilijav.HCtest.4/group.test.hc.NTUP\\_SMWZ.root](root://svr025.gla.scotgrid.ac.uk//dpm/gla.scotgrid.ac.uk/home/atlas/atlasppsdisk/user.ilijav.HCtest.4/group.test.hc.NTUP_SMWZ.root)
- Copy (and open) of remote file from global namespace: ✓
  - E.g.  
[root://svr025.gla.scotgrid.ac.uk//atlas/dq2/mc11\\_7TeV/AOD/e825\\_s1310\\_s1300\\_r2920\\_r2900/mc11\\_7TeV.125265.PythiaWH110\\_ZZ4lep.merge.AOD.e825\\_s1310\\_s1300\\_r2920\\_r2900\\_tid582264\\_00/AOD.582264.\\_000004.pool.root.1](root://svr025.gla.scotgrid.ac.uk//atlas/dq2/mc11_7TeV/AOD/e825_s1310_s1300_r2920_r2900/mc11_7TeV.125265.PythiaWH110_ZZ4lep.merge.AOD.e825_s1310_s1300_r2920_r2900_tid582264_00/AOD.582264._000004.pool.root.1)
- Copy (and open) of local file (registered in LFC) with global name: ✓
  - E.g.  
[root://svr025.gla.scotgrid.ac.uk//atlas/dq2/user/wbhimji/HCtest/user.ilijav.HCtest.1/group.test.hc.NTUP\\_SMWZ.root](root://svr025.gla.scotgrid.ac.uk//atlas/dq2/user/wbhimji/HCtest/user.ilijav.HCtest.1/group.test.hc.NTUP_SMWZ.root)

# One thing that doesn't work

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- ◉ Asking for that local file from global redirector.
  - xrdcp -d 1  
[root://glrd.usatlas.org//atlas/dq2/user/wbhimji/HCTest/user.ilijav.HCTest.1/group.test.hc.NTUP\\_SMWZ.root](root://glrd.usatlas.org//atlas/dq2/user/wbhimji/HCTest/user.ilijav.HCTest.1/group.test.hc.NTUP_SMWZ.root)
- ◉ Not LFC\_HOST; or glrd restrictions
- ◉ Probably not machine slowness
- ◉ Could be way file registered in LFC (?)
  - I did it by hand just with lcg-utils
- ◉ Probably means local files not accessible by wider federation.
- ◉ Investigation ongoing...

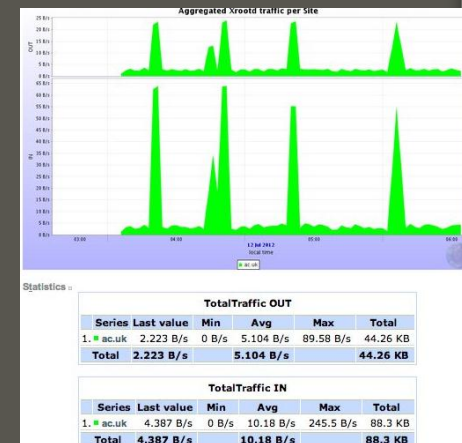
# Monitoring Testing

## Monitoring:

- Following instructions on FAX twiki:
- Seemed to work ?
- But identified as “ac.uk”
  - So is it actually this host?
  - Need to be more specific as all UK sites end in ac.uk

## WAN IO (aka Ilija's) Tests:

- Set up to access test machine from production (ANALY\_GLASGOW) site – not sure if its working



# Summary and Plans

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- Lots works now: file access and monitoring 😊
  - All needed functionality is there (?)
- Some issues could be due to Glasgow test env.
  - Try a new test machine at Edinburgh – maybe this week
- Stress/scale testing: most believable if use production machine (or test PPSDISK in ToA)
- => Probably best to **go ahead and implement on a production machine now**
  - Need for all disk servers on 1.8.3 – any way around this?
  - Perhaps easiest at Edinburgh (less disk servers)
    - – not this week though....