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## Testing WAN access to storage over IPv4 and IPv6 using multiple transfer protocols

In the lead up to Run 2 of the LHC the WLCG grid middleware, storage access protocols and LHC computing models are in a state of flux. The LCG utilities and SRM middleware are being phased out, IPv6 is being rolled out across the WLCG and LHC experiments are making increasing use of xrootd federated access to storage elements over the WAN. However, both client and server software and WLCG sites vary in their readiness for IPv6.

Sites within GridPP will need to enable IPv6, support it on relevant software and ensure everything is working correctly. Comprehensive monitoring will help and we report on work to extend existing monitoring of WAN transfer capability that GridPP has been doing for a number of years. WAN access from storage elements to worker nodes over both IPv4 and IPv6 is systematically checked. The gsiftp protocol is checked with *lcf-cp* and *gfal-copy* clients, https with *curl* and xrootd with *xrdcp*. Future work will include job submission and data handling tests using the GridPP DIRAC service.

Results can be viewed at [http://pprc.qmul.ac.uk/~lloyd/gridpp/nettest\\_v6.html](http://pprc.qmul.ac.uk/~lloyd/gridpp/nettest_v6.html)

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