

Monitoring: perfSONAR and ETF

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HEPiX IPv6 WG F2F

perfSONAR News

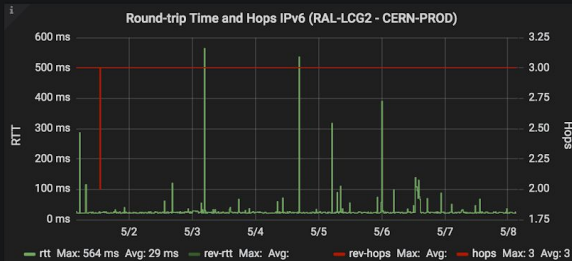
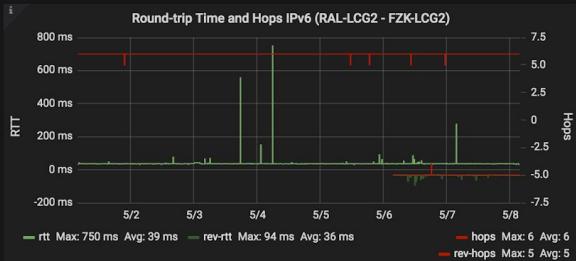
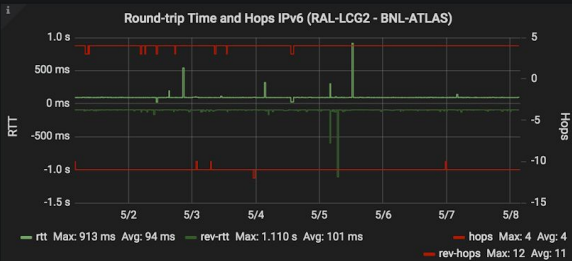
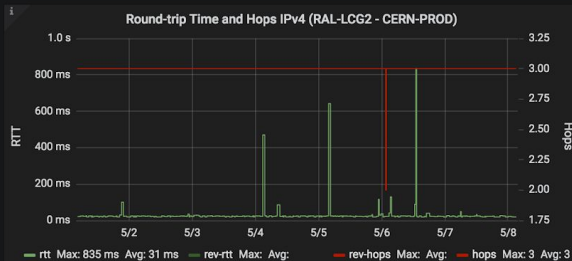
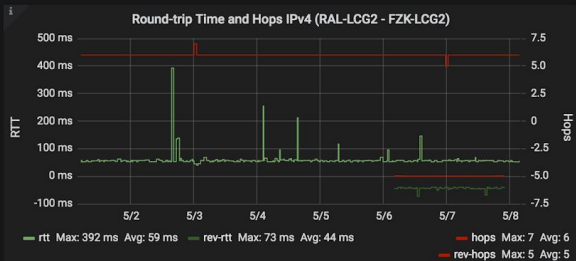
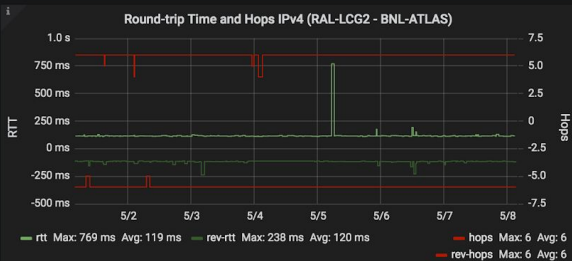
- 4.1 beta is scheduled to be released in the next weeks
 - Introduces psconfig - replacement component that handles configuration of instances
 - It will also address issues related to performance and stability that were reported
- Currently ongoing campaign to update all perfSONARs to CC7 and 4.0
 - We have 86 instances on CC7 so far (out of 204)
- GEANT deployed IPv6 perfSONAR [instances](#) on LHCONE
 - At AMS, GVA, LON, FRA and PAR
- Grafana [dashboards](#) updated to version 5
 - IPv6 dashboard was introduced
- All central services were migrated from OSG GOC to AGLT2
 - Planning and deployment required considerable effort
 - But migration was successful and all changes were transparent to sites
- Network Throughput support: No major incidents reported, some IPv6-related investigations were done, e.g. Florida - Kharkov MTU stepdown on IPv6

perfSONAR Dual-stack Mesh

- Meshes re-configured following discussion at the last F2F
- Proposal to replace dual-stack meshes (from last F2F)
 - Create dual-stack LHCOPN with both IPv4 and IPv6 for all tests (Done)
 - Change all current experiments meshes to contain IPv6 throughput and tracepath
 - Create a dedicated IPv6/IPv4 latency mesh that would only be used for debugging specific cases
 - Retire dual-stack mesh
- LHCOPN changes seems to be working well, but we'll need to understand the lack of measurements shown on the dashboards before moving on to the experiments meshes

Source **RAL-LCG2** Destination1 **BNL-ATLAS** Destination2 **FZK-LCG2** Destination3 **CERN-PROD**

Network Throughput WG OSG Networking





ETF News

- ETF IPv6 instance
 - Switched to IPv6-only in February to test for possible issues (https://etf-ipv6.cern.ch/etf/check_mk/)
 - Myproxy is still IPv4 and is on a critical path as we're unable to get credentials otherwise
- Experiments instances running
 - CMS and LHCb IPv6 instances were created
 - https://etf-cms-ipv6.cern.ch/etf/check_mk/
 - https://etf-lhcb-ipv6.cern.ch/etf/check_mk/
 - Currently still dual-stack - waiting for myproxy
 - Missing input from ATLAS
- For both LHCb and CMS we have started to publish results to SAM3 (QA)
 - We're able to aggregate IPv6 results and compute IPv6-only profiles - sample profile already exists in SAM3 QA
 - We're still testing a combined profile - aggregation of both IPv4 and IPv6 results, e.g.
 - (all SRMv6 + all XROOTv6 + all SRMv4 + all XROOTv4)