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Deployment and usage of perfSonar Networking tools for non-HEP communities

perfSonar is a network monitoring tool set which enables performance of wide area communications to be analysed and eases problem identification across distributed centres. It has been widely used within WLCG since 2012 and has been crucial in identifying network problems and confirming network changes have the desired effect. We report on examples of this within this presentation.

In addition, at Rutherford Appleton Laboratory (RAL), we have been extending the use of perfSonar to communities outside of High Energy Physics (HEP) such as photonics and climatology. We describe how the knowledge base gained from our experience in WLCG has been used to help these non-HEP communities to deploy perfSonar hosts and incorporate these into the current test infrastructure. We demonstrate improvements that have resulted from the monitoring information obtained such as identification of packet loss across the firewall which had not previously been identified by any other tools used.

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