GridPP perfSONAR refresh

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on behalf of the Group

Plan

- In the first instance refresh just the hardware
- In the past we installed two hosts, one throughput, one latency and loss
- Now only need one perfSONAR host with three interfaces - throughput, loss/latency and management
  - already being done at Jisc, RALPPD and Bristol
- Tier-2s do not need to worry about funding for this host
  - will either be receiving some extra capital this year, in which case you will be expected to buy your perfSonar box out of this grant or
  - RAL will provide it for you
- Who might need a host?
  - RALPPD and Bristol have already updated hosts themselves – but do we want them to be the same specification as others?
  - Leaves RHUL, Oxford, Liverpool, Edinburgh, Brunel, Sussex, Cambridge, Birmingham, Durham, Sheffield, UCL

Specification

- Needs to start of being capable of 100G
  - over ~5 year timescale that this hardware will be in service it is likely that sites may have upgraded to 100G
  - don’t want to have to upgrade them midway through lifetime
- All same specification

- Redundant features such as PSU, hot swap RAID etc

Draft specifications

1. 10G version - R440 - for most sites

2. Same R440 but with 40/100G Mellanox ConnectX-5 card – for sites already on 100G (Imperial) or soon to be…

3. Also economy version - R340 10G capable