PerfSONAR deployment

Campana, McKee
Shawn’s presentation in Oslo summarizes perfectly the current situation and the forthcoming challenges

- [https://indico.cern.ch/getFile.py/access?contribId=3&resId=1&materialId=slides&confId=196896](https://indico.cern.ch/getFile.py/access?contribId=3&resId=1&materialId=slides&confId=196896)

Increasing number of sites demands to reconsider the deployment, operations and monitoring model

- How to configure perfSONAR boxes in a large NxN channel matrix (today static)?
- How to operate in a way that all channels are tested but not congested?
- How to visualize a $O(100) \times O(100)$ number of links?
How to start: some ideas

• Focus on the sites (and links) of primary importance for experiments
  – list to be built

• Get perfSONAR properly handled at the WLCG level
  – Publication in GOC, downtimes etc ..

• Get perfSONAR installed and configured at least for testing cloud/region/country links
  – Instructions from various experiments need some consolidation
With some new development

• Very promising development from Internet2 on mesh configuration: test and deploy on candidate region
  – US is the obvious candidate, then extend

• Define with the experiments rates and frequency of tests for various classes of links
  – Testing the full mesh at the current rate would congest many links

• Extend perfSONAR dashboard so that it can cope with the full mash
  – Sorting, filtering, ...
Conclusions

• This is not going to be a short time effort.

• Some development is also needed

• Main experts from various experiments will be contacted soon