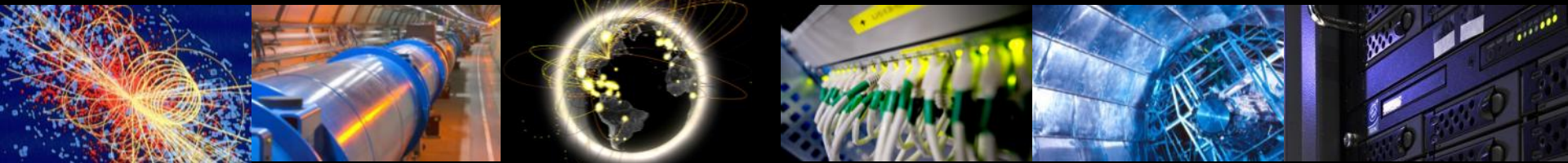


PerfSONAR deployment

Campana, McKee



From Oslo ...

- 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>
- 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