

perfSONAR mesh rollout

- In the past admins manually added sites to test against
- Tiresome and fault prone
- New method is to use a centrally held configuration file
- US and IT clouds also using mesh
- Manually generated file – xml style uk.conf

- <https://grid-deployment.web.cern.ch/grid-deployment/wlwg-ops/perfsonar/conf/uk.conf>

- Converted to json file which is accessed directly by perfsonar host

- <https://grid-deployment.web.cern.ch/grid-deployment/wlwg-ops/perfsonar/conf/uk.json>

```

<organization>
  # A human-readable description of the organization
  description London Tier-2

  # There can be one or more 'measurement_archive' blocks. These have a 'read'
  # URL which corresponds to the perfSONAR-speaking MA where test results can
  # be obtained from. The blocks also have a 'write' URL which tells tests
  # where the results can be written to. These 'measurement_archive' blocks
  # apply to all tests, and to all hosts in all sites in this organization,
  # unless they are overridden by 'measurement_archive' blocks at the 'site' or
  # 'host' level.

  # There can be one or more 'site' blocks. Each 'site' block corresponds to a
  # logical site in the organization which may contain one or more hosts.
  # Elements in the 'site' block apply to all the 'host' blocks contained
  # within them, and inherit the properties from the 'organization'.

<site>
  description UKI-LT2-Brunel
  # A human-readable description of where the site is located (e.g. a city or state)
  <location>
    city Uxbridge, UK
    # The latitude and longitude where the site is located
    latitude 51.5307
    longitude -0.4741
  </location>

  # Individual sites can have specific administrators associated with them.
  <administrator>
    name UKI-LT2-Brunel
    email lcg-admin@brunel.ac.uk
  </administrator>

  # There can be one or more 'host' blocks. Each 'host' block corresponds to a single host at a site.
  <host>
    # An optional human-readable description of the host
    description UKI-LT2-Brunel Bandwidth Host in Uxbridge, UK
    address dc2-grid-ps-00.brunel.ac.uk

    <measurement_archive>
      type perfsonarbuoy/bwctl
      read_url http://dc2-grid-ps-00.brunel.ac.uk:8085/perfSONAR_PS/services/psb
      write_url dc2-grid-ps-00.brunel.ac.uk:8570
    </measurement_archive>

    <measurement_archive>
      type perfsonarbuoy/owamp
      read_url http://dc2-grid-ps-00.brunel.ac.uk:8085/perfSONAR_PS/services/psb
      write_url dc2-grid-ps-00.brunel.ac.uk:8569
    </measurement_archive>
  </host>
</site>

```



https://grid-deployment.web.cern.ch/grid-deployment/wlwg-ops/perfsonar/conf/uk.json

```
    "description" : "RAL-LCG2"
  },
  {
    "sites" : [
      {
        "hosts" : [
          {
            "measurement_archives" : [
              {
                "read_url" : "http://dc2-grid-ps-00.brunel.ac.uk:8085/perfSONAR_PS/services/pSB",
                "write_url" : "dc2-grid-ps-00.brunel.ac.uk:8570",
                "type" : "perfsonarbuoy/bwctl1"
              },
              {
                "read_url" : "http://dc2-grid-ps-00.brunel.ac.uk:8085/perfSONAR_PS/services/pSB",
                "write_url" : "dc2-grid-ps-00.brunel.ac.uk:8569",
                "type" : "perfsonarbuoy/owamp"
              }
            ],
            "addresses" : [
              "dc2-grid-ps-00.brunel.ac.uk"
            ],
            "description" : "UKI-LT2-Brunel Bandwidth Host in Uxbridge, UK"
          }
        ],
        "administrators" : [
          {
            "email" : "lwg-admin@brunel.ac.uk",
            "name" : "UKI-LT2-Brunel"
          }
        ],
        "location" : {
          "longitude" : "-0.4741",
          "city" : "Uxbridge, UK",
          "latitude" : "51.5307"
        },
        "description" : "UKI-LT2-Brunel"
      }
    ],
  },
}
```

- Upgrade instructions here

http://www.usatlas.bnl.gov/twiki/bin/view/Projects/PerfSONAR_PS_Mesh

```
yum update
```

```
reboot
```

```
yum install perl-perfSONAR_PS-MeshConfig-Agent
```

```
wget https://grid-deployment.web.cern.ch/grid-deployment/wlwg-ops/perfsonar/conf/
```

```
perfSONARMesh_ukcloud_setup.sh
```

```
./perfSONARMesh\_ukcloud\_setup.sh
```