# LHCOPN perfSONAR monitoring

**perfSONAR pro's:**

- 1G bandwidth test (BWCTL / IPERF)
- One Way Delay Active Measurements (OWDAM)
- Traceroute info

**perfSONAR less positive points:**

- Weathermap (because it does not give us the right link status)
- E2EMON (same issue)

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# What would we like pS to do

**pS should:**

- **Continu gathering BWCTL and OWD data**
- **Give us an alarm if BWCTL or OWD data is different from the baseline (indicates layer 2 problems (e.g. after planned works))**
- **Give us an alarm if number of hops to other sites changes (indicates route table changes which we can't see with our own monitoring)**
- **Create (daily) full mesh availability reports based on OWD data**

**Don't know if this is possible.**

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# pS LHCOPN dasboard

We (as a group) should use pS to make a dashboard based on:

- ❑ OWD baseline data
- ❑ BWCTL baseline data
- ❑ Traceroute baseline data
- ❑ Link status (up / down)
- ❑ BGP status (up / down)

(this might be difficult?/ Nagios based?)

DANTE NL-T1 pS servers have SNMP access to NL-T1 border router and are able to see interface and BGP status.

Dashboard should be a web service (like GGUS) accessible with grid certificate for community.

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# Concerns

**What:**

- **If dashboard reports a problem and there isn't any (if your own monitoring system does this you are probably able to solve this yourself and only you see this)**
- **If people with less network knowledge start looking at the dashboard and start asking questions (takes time)**
- **If experiments start to correlate there own problems with LHCOPN problems**
- **If researchers start to do the same**

**We must well define when dashboard status changes from green to orange to red!**

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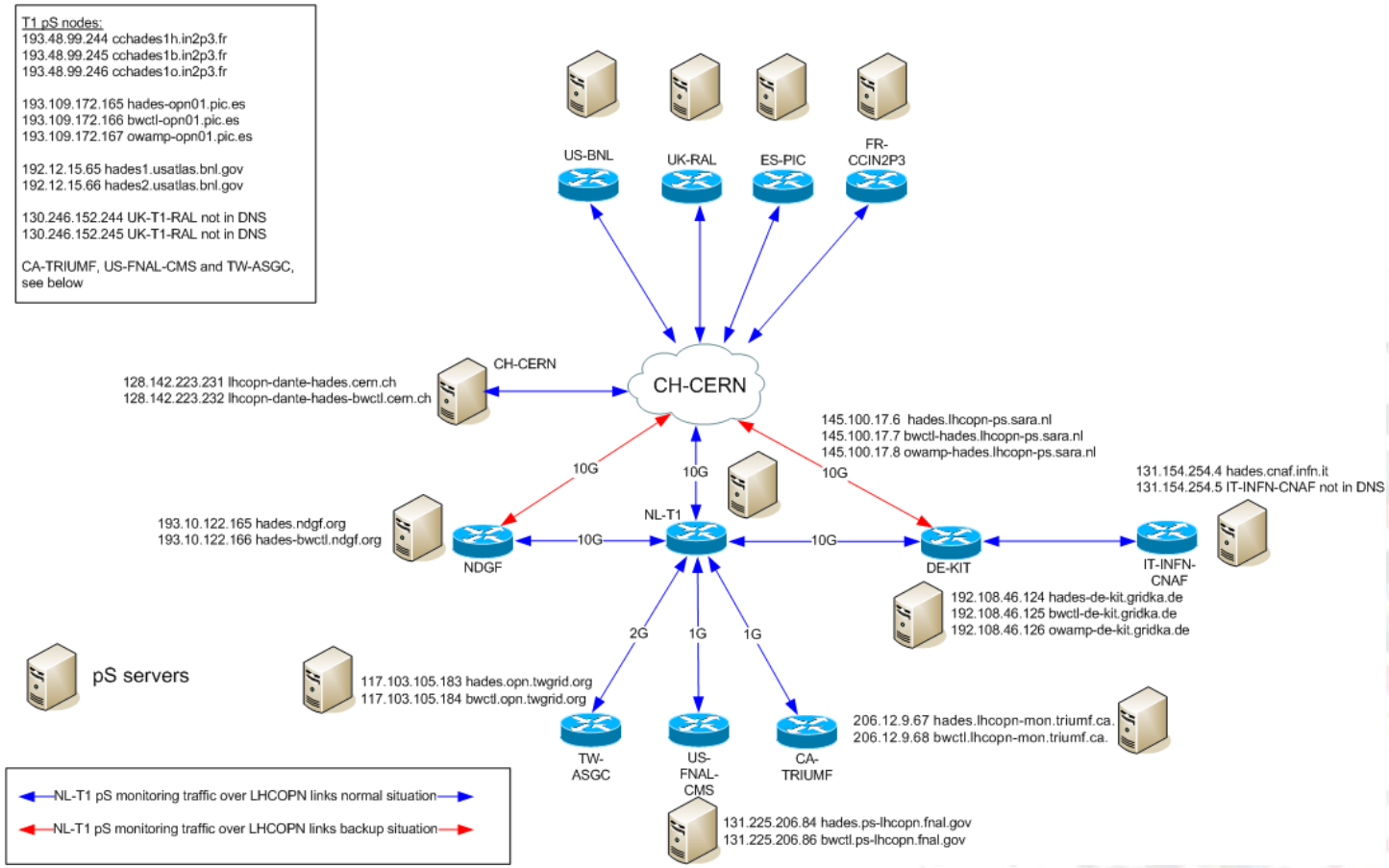
# NL-T1 pS view (also on CERN twiki)

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