

# Dashboard update

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LHC OPN Dashboard - Mozilla Firefox

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## LHCOPN Dashboard

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### Current status

Last update: Fri, 10 Jun 2011 13:36:38 GMT

From / To	CA-TRIUMF	CH-CERN	DE-KIT	ES-PIC	FR-CCIN2P3	IT-INFN-CNAF	NDGF	NL-T1	TW-ASGC	UK-T1-RAL	US-FNAL-CMS	US-T1-BNL
CA-TRIUMF												
CH-CERN												
DE-KIT												
ES-PIC												
FR-CCIN2P3												
IT-INFN-CNAF												
NDGF												
NL-T1												
TW-ASGC												
UK-T1-RAL												
US-FNAL-CMS												
US-T1-BNL												

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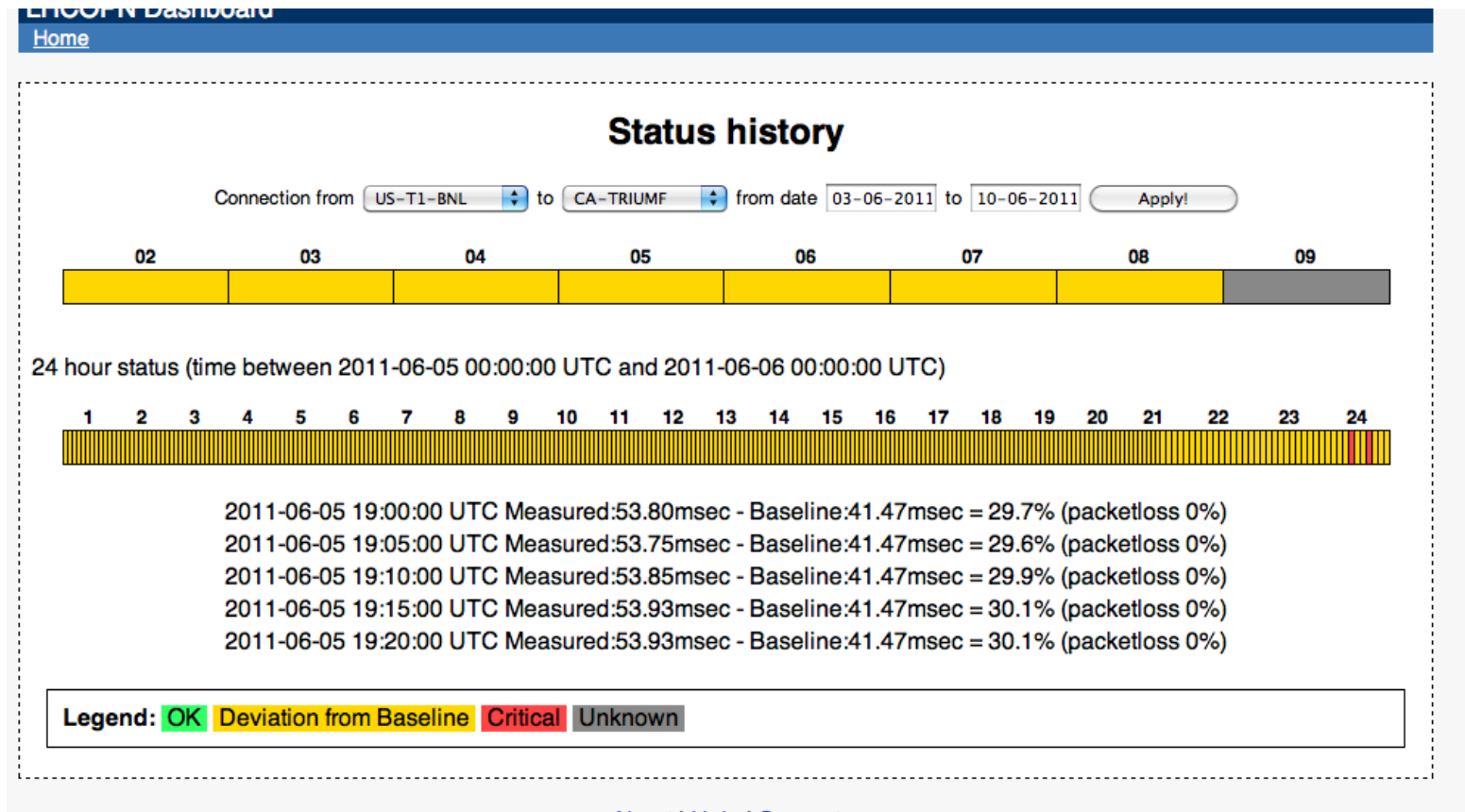
**Legend:** OK Deviation from Baseline Critical Unknown

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# **Past work**

- **Performance tweaks made the dashboard much faster.**
- **Baseline OWD's still change every now and then.**

# Baselines that are off



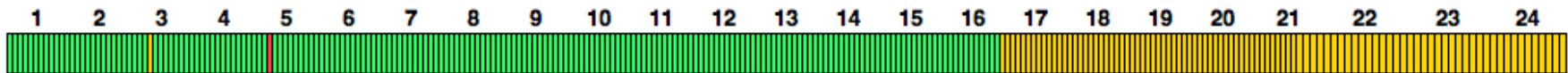
# Another example

## Status history

Connection from  to  from date  to



24 hour status (time between 2011-06-06 00:00:00 UTC and 2011-06-07 00:00:00 UTC)



2011-06-06 15:45:00 UTC Measured:59.89msec - Baseline:59.47msec = 0.7% (packetloss 0%)  
 2011-06-06 15:50:00 UTC Measured:59.86msec - Baseline:59.47msec = 0.7% (packetloss 0%)  
 2011-06-06 15:55:00 UTC Measured:59.76msec - Baseline:59.47msec = 0.5% (packetloss 0%)  
 2011-06-06 16:00:00 UTC Measured:72.03msec - Baseline:59.47msec = 21.1% (packetloss 0%)  
 2011-06-06 16:05:00 UTC Measured:73.78msec - Baseline:59.47msec = 24.1% (packetloss 0%)

**Legend:** OK Deviation from Baseline Critical Unknown



# Current work (traceroute)

Match this:

From US-FNAL-CMS-HADES to NL-T1-HADES at commonTime: 2011-06-10  
09:08:15 +0200 (1307689695)  
131.225.207.207-198.151.133.130-198.151.133.141-145.100.17.6

With this:

<https://twiki.cern.ch/twiki/bin/view/LHCOPN/RoutingPolicies>

From \ To ->	CA-TRIUMF	CH-CERN	DE-KIT	ES-PIC	FR-CCIN2P3	IT-INFN-CNAF	NDGF	NL-T1	TW-ASGC	UK-T1-RAL	US-FNAL-CMS	US-T1-BNL
CA-TRIUMF	X	Direct	CH-CERN	CH-CERN	CH-CERN	CH-CERN	CH-CERN	Direct	CH-CERN	CH-CERN	CH-CERN	Direct
CH-CERN	Direct	X	Direct	Direct	Direct	Direct	Direct	Direct	Direct	Direct	Direct	Direct
DE-KIT	CH-CERN	Direct	X	CH-CERN	Direct	Direct	CH-CERN	Direct	CH-CERN	CH-CERN	NL-T1	CH-CERN
ES-PIC	CH-CERN	CH-CERN	CH-CERN	X	CH-CERN	CH-CERN	CH-CERN	CH-CERN	CH-CERN	CH-CERN	CH-CERN	CH-CERN
FR-CCIN2P3	CH-CERN	Direct	Direct	CH-CERN	X	DE-KIT	CH-CERN	DE-KIT	CH-CERN	CH-CERN	CH-CERN	CH-CERN
IT-INFN-CNAF	CH-CERN	Direct	Direct	CH-CERN	DE-KIT	X	GARR-GEANT	DE-KIT	GARR-GEANT	CH-CERN	CH-CERN	CH-CERN
NDGF	CH-CERN	Direct	CH-CERN	CH-CERN	CH-CERN	CH-CERN	X	Direct	CH-CERN	CH-CERN	NL-T1	CH-CERN
NL-T1	Direct	Direct	Direct	CH-CERN	CH-CERN(1)	DE-KIT--> IT-INFN-CNAF	Direct	X	Direct	CH-CERN	Direct	CH-CERN
TW-ASGC	CH-CERN	Direct	CH-CERN	CH-CERN	CH-CERN	CH-CERN	Abilene --> GEANT	Direct	X	CH-CERN	Direct	ESNET
UK-T1-RAL	CH-CERN	CH-CERN	CH-CERN	CH-CERN	CH-CERN	CH-CERN	CH-CERN	CH-CERN	CH-CERN	X	CH-CERN	CH-CERN
US-FNAL-CMS	ESnet	Direct	NL-T1	CH-CERN	CH-CERN	CH-CERN	ESnet	Direct	Direct	CH-CERN	X	ESnet
US-T1-BNL	Direct	Direct	CH-CERN	CH-CERN	CH-CERN	CH-CERN	CH-CERN	ESnet	ESnet	CH-CERN	ESnet	X



# Possible qualifications

- **Primary route**
- **On backup path**
- **On external path (via internet)**
- **Unknown**





# Traceroute problems

- Lots of unknowns: 2 examples:

From CA-TRIUMF-HADES to CH-CERN-HADES at  
commonTime: 2011-06-10 09:08:15 +0200 (1307689695)  
206.12.9.78-UNKNOWN-UNKNOWN-UNKNOWN-UNKNOWN-  
UNKNOWN-UNKNOWN-UNKNOWN-UNKNOWN-UNKNOWN-  
UNKNOWN-UNKNOWN-UNKNOWN-UNKNOWN-UNKNOWN-  
UNKNOWN-UNKNOWN-UNKNOWN-UNKNOWN-  
UNKNOWN-

From DE-KIT-HADES to US-FNAL-CMS-HADES at  
commonTime: 2011-06-10 09:27:02 +0200 (1307690822)  
192.108.46.114-192.108.46.181-192.108.46.178-192.16.166.106-  
UNKNOWN-UNKNOWN-UNKNOWN-UNKNOWN-UNKNOWN-  
UNKNOWN-UNKNOWN-UNKNOWN-UNKNOWN-UNKNOWN-  
UNKNOWN-UNKNOWN-UNKNOWN-UNKNOWN-UNKN  
OWN-UNKNOWN-





# Traceroute solution

For traceroute to work, the routers need to allow outgoing and incoming UDP traffic to/from the involved HADES interfaces on ports 60900-60930 as well as incoming ICMP TTL exceeded and port unreachable messages.