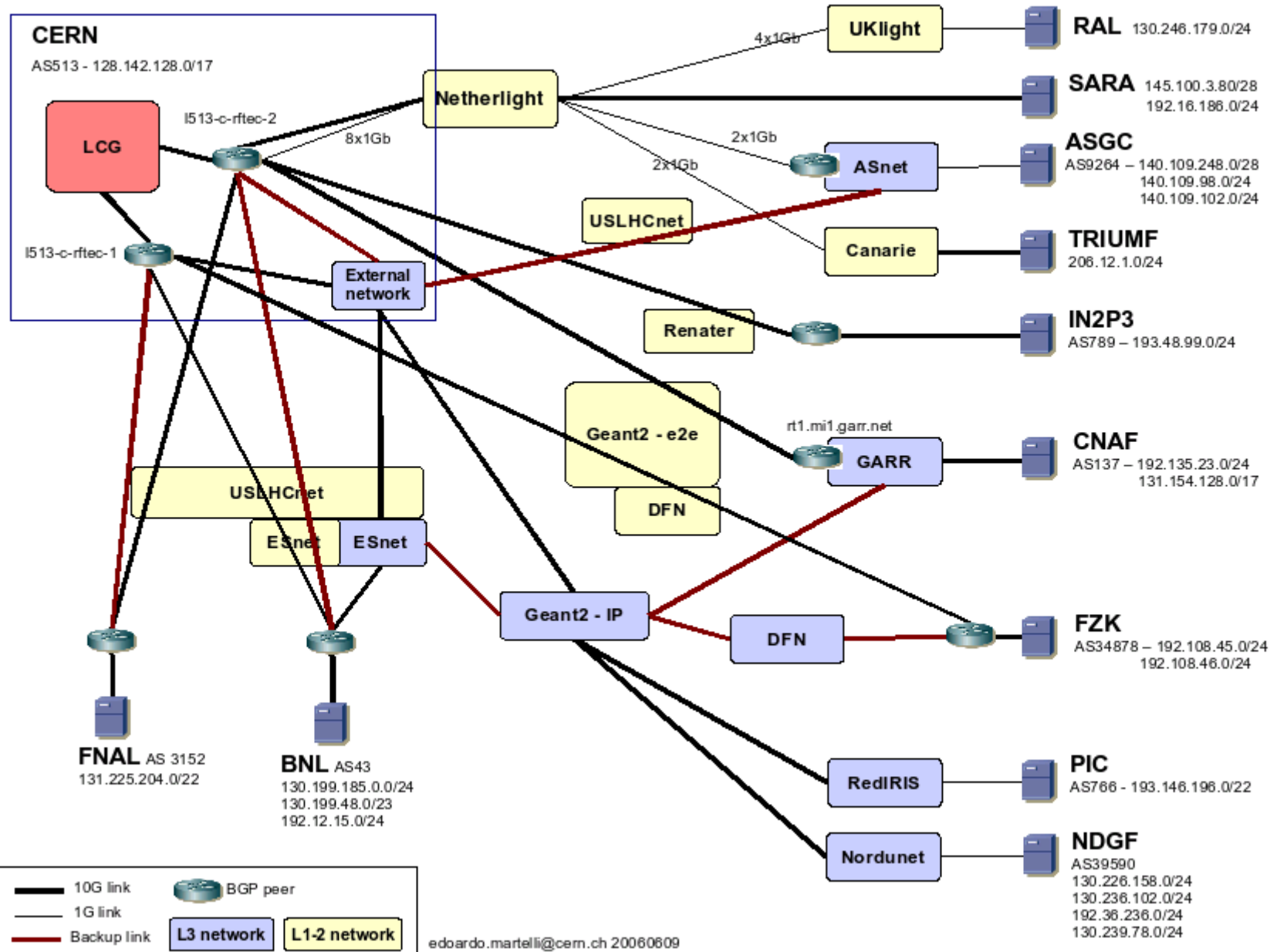


LHCOPN Information

- <https://twiki.cern.ch/twiki/bin/view/LHCOPN/WebHome>
- OPN was started to address the “hard” requirements of T0-T1 connectivity
 - Important to get the data from CERN to the T1’s consistently at well defined data rates.
 - 10Gb/sec link provisioning a sensible unit providing capacity also for “catch up”
 - T1-T1 data transport can be part of this model without perturbing the T0-T1 traffic
- T2 traffic was not part of the model
 - There were many uncertainties
 - Data Rates
 - Link Provisioning
 - Smaller T2’s can use general R&E IP infrastructures to get access to all T1’s
 - Larger T2’s may need/have networking to certain T1’s (CMS)
 - Interaction/Opportunities between the OPN and T2 networking needs to be studied.

LHCOPN – current status



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Working Groups Issues

- Routing (led by CERN)
 - Now working on L3 models for resilience. New links being put in place between centers provide alternate paths.
 - Several Cross Border Fiber Links
- Security (led by UK)
 - Security document being circulated.
- Operations (led by DANTE)
 - Dante will establish a coordination unit (E2ECU). This will coordinate link state information.
 - EGEE (SA2) will create an ENOC to coordinate a service level view of the network.
- Monitoring (led by USA)
 - PerfSonar being deployed by the NREN's as a first step.
 - More advanced monitoring techniques being investigated by the working group.

Other Work Items

- Based on the computing models the actual impact of T1-T1 traffic is being analysed. (Don Petravik)
- Now considering the opportunities for large T2's with high bandwidth capability.
 - Initial survey of hard CMS requirements for the next meeting. (Don Petravik)
- Existing transatlantic bandwidth and its possible availability for LHC use will be studied. (David Foster)
- Create a PerfSonar readiness matrix on the Twiki. Objective is a complete E2ECU service with all providers and operations infrastructure 24x7 by 31/12/2006.