



# NOvA LHCONE Status Update

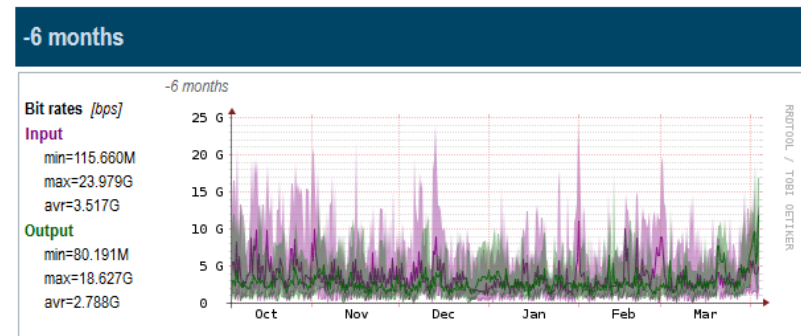
Phil DeMar  
LHCOPN / LHCONE Meeting  
April 4, 2017

# Current Status of NOvA use of LHCONE (I)

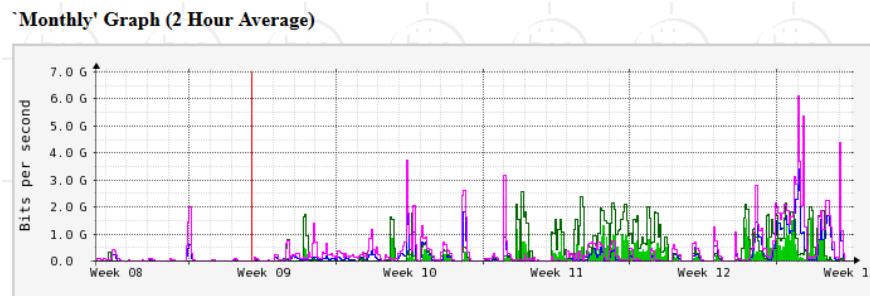
- FNAL/FZU NOvA traffic rerouted over LHCONE in October (2016)
- Several new FNAL netblocks (storage) advertised to LHCONE:
  - 131.225.67.0/24; 131.225.69.0/24; 131.225.13.128/25
  - No additional LHCONE netblocks for NOvA on the FZU end
- AUP conformance:
  - Storage resources on FNAL end are primarily used by NOvA
  - Policy routing (src/dest) on FNAL end limits risk of AUP non-conformance

# Current Status of NOvA use of LHCONE (II)

- CESnet LHCONE connection upgraded to 100GE
  - Traffic limited to 40Gb/s
  - Still plenty of headroom



- LAN configuration enhancements at FNAL & FZU have established 20Gb/s b/w capacity into/out of LHCONE
- NOvA traffic traffic loads on LHCONE have been modest:



Mid-Feb  
Thru  
Late-March

## Misc...

- Performance across new (LHCONE) path has been “below expectations”:
  - Not believed to be a problem with LHCONE
  - Investigations are ongoing at several levels
- perfSONAR monitoring between FNAL & FZU put in place:
  - FNAL end uses CMS Tier-1 latency & b/w PS servers
    - Should be migrating to new PS systems on NOvA dCache server subnets soon
- No new NOvA site requests for using LHCONE
  - Nor expectations there will be in the near future...