

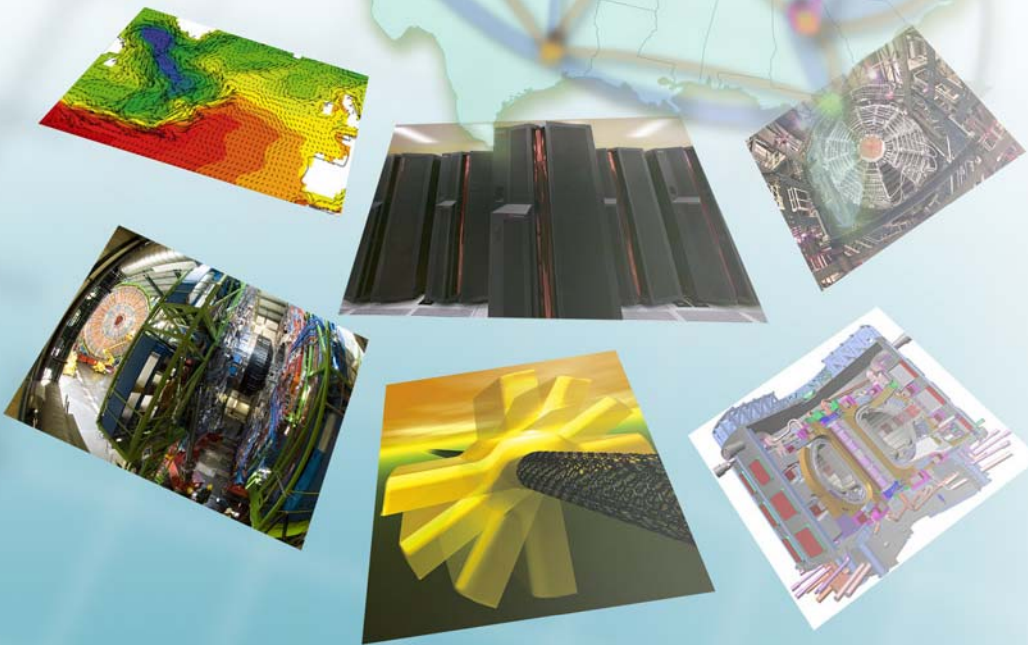


# perfSONAR Status

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LHCOPN meeting



*Networking for the Future of Science*



# perfSONAR Collaboration Status

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- Software
  - perfSONAR MDM 3.0
    - A bundle of all perfSONAR applications that pass the GN2 JRA1 driven release management process
    - Minor polishing issues left before release candidate scheduled for March 14.
    - Details at
      - [http://wiki.perfsonar.net/jra1-wiki/index.php/PerfSONAR\\_v3.0](http://wiki.perfsonar.net/jra1-wiki/index.php/PerfSONAR_v3.0)
  - perfSONAR PS
    - A bundle of perfSONAR applications distributed via CPAN
    - 1st release January 21
    - 2nd release due out March 11
    - Details at
      - <http://www.internet2.edu/performance/pS-PS/index.html>
      - <http://search.cpan.org/~perfsonar/>
  - Note: these are not mutually exclusive!
    - Some components of perfSONAR PS are part of perfSONAR MDM 3.0.
- Services
  - MDM
    - FCCN, GARR, HUNGARNET, PIONIER & SWITCH
  - LHCOPN MDM
    - Proposal by Dante to deploy perfSONAR appliances at the LHC Tier1 sites.

# perfSONAR Futures

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- AAA
  - perfSONAR MDM 3.0 has authentication support
- Adding new metrics
- Improved discovery
- Improved ability to correlate measurements
- Integration with network management systems

# Review our Measurement Objectives

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- Customers
  - Currently poorly defined
- Goals
  - Measure & Document network characteristics
    - If the network is working correctly:
      - Demonstrate & Publish that information
    - If the network is not working correctly:
      - Publish the information so:
        - » People who can fix it have actionable information.
        - » People who can't fix it don't waste time trying to track it down.
    - Supporting debugging efforts
      - Put the infrastructure in place ahead of time to debug difficult problems

# Deployment Options

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- Comprehensive Tier 1 Plan
  - MDM Service Proposal
    - Hans' talk.
    - **Must decide ASAP**
  
- Incremental Growth
  1. Circuit Monitoring
    - Mostly done!
  2. Latency Tests
    - ICMP Measurement Points at CERN, GridKA & BNL might cover entire LHCOPN.
    - A full mesh of One Way Delay tests would provide 'better' data
  3. Bandwidth Tests
    - A mesh of Tier 0 & 1's per experiment would provide useful data
      - But that is almost a full mesh, which might be easier to manage.

# Path Forward

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1. Decide on Tier 1 Monitoring Direction
2. Develop Measurement MOU
3. Start Deployment