

## perfSONAR roadmap update

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### perfSONAR

- The perfSONAR Collaboration
- Roadmap
  - Strategy
  - Annual Survey Results
  - What's coming in the next release









### The perfSONAR Collaboration

- Open Source project lead by ESnet, GÉANT, Indiana University, and Internet2
  - Each organisation has committed 1.5 FTE effort to the project
  - Additional help from many in the community (OSG, RNP, SLAC and more ...)
- The perfSONAR roadmap is influenced by
  - requests on the project issue tracker
  - annual user surveys
  - meetings with VOs such as WLCG, OSG
  - discussions at various perfSONAR related workshops
- Based on the above, every 6-12 months the perfSONAR Steering Group meets to prioritise features







### perfSONAR Vision

 Grow perfSONAR to be the ubiquitous, indispensible performance monitoring framework for R&E network customers that meets their needs in the long-term, supported in a self-sustaining way so as to enable frictionfree science





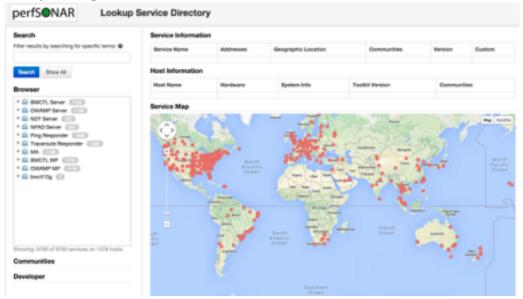


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# Who is running perfSONAR

### ~2000 publicly registered servers



#### http://stats.es.net/ServicesDirectory/

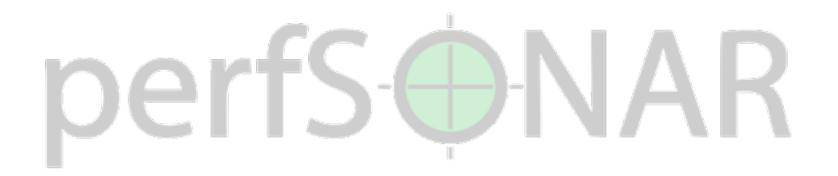
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INTERNET.



## perfSONAR: What's next in the roadmap







### Roadmap Strategy

- 2 releases per year
  - 1 major, 1 minor
- Exploratory tasks in parallel during each release schedule
  - Ideas from user groups, results of annual survey, developers
  - Results and CBA-based analysis to decide if it makes it into the next version as a feature

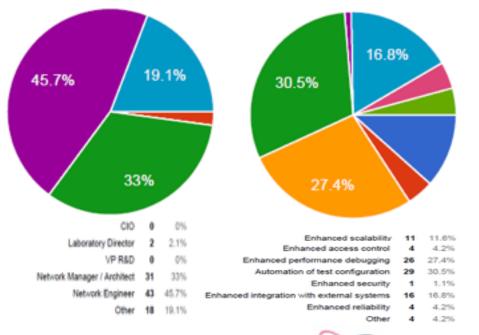






### Annual Survey Results

• Conducted in January 2016



Satisfaction

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- 71% satisfied/highly satisfied
- 26% neutral, 2% dissatisfied
- Technical trends
  - Need for Debian 8 and CentOS 7 support
  - Enhanced performance debugging
  - Integration with other tools...



## Upcoming Release: perfSONAR v4.0

### Themes

- Control
  - Better control over tests (authorisation, schedule management)
- Scalability
  - Robustness to scale deployment per campus to 100 nodes
- Was expected to be released in late September/ October, got pushed to December







### perfSONAR v4.0 - Features

- New and improved test scheduler: pScheduler
  - For fine-grained, better control (authorisation, schedule management)
  - Shared awareness of resource usage by other tests
- Web interface for test meshes
- Easier selection of endpoints, based on
  - geographic location
  - accessibility
  - custom searches
- Increased support on Debian 8, CentOS 7 debian







CentOS



### Post 4.0

- Roadmap still in discussion, 4 tracks:
  - Operations Efficiency
  - Automation of Configuration, Execution and Analysis
  - Performance of the Cloud
  - Care and Feeding
- Both Research and Development tasks
- 4.0.1 Early 2017
- 4.1 September 2017 (I2 TechEX)



