INDIS 2015:
Innovating the Network for Data Intensive Science

November 16, 2015
Austin, TX
• Total bandwidth delivered: 1.63 Tbps
• 89 mi/143 km of fiber deployed on exhibit floor
• Over $22 million in loaned equipment
• Over 130 international volunteers from over 15 countries
• 337 SCinet Wireless Access Points Configured
• 7 Distributed NOCs (DNOC) on exhibit floor
• 39 managed and 73 unmanaged switches
Austin Wide Area Network
### Connection Request System

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<th>100-Gigabit Ethernet</th>
<th>40-Gigabit Ethernet</th>
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What Good is SCinet?

Unrivaled International Networking Laboratory

- Leading experts from government, industry and academia
- Diverse networking equipment
- Innovative philosophy of advancing networking

SC as a premier HPC, networking, and storage conference

- Rich technical program
- Extensive exhibits component
- Vendor, service provider, and customer participation
Innovating for 25 years

- Amazing transformations in networking with advances every year
- Pursuing richer capabilities and more functionality in networking
- SCinet 25.0

Long History of Software Defined Networking

- Database driven network design going back a decade
- Auto routing infrastructure
- SDN advances and implementation this year
• Continued Exploration at this crucial time in networking development
• Provide a platform to herald the importance of network research
• Open application with a peer review process
• Continue the 25 years of progress through:
  • Innovation in production networking and demonstrations
  • Open pursuit of ways to advance networking for HPC
  • https://scinet.supercomputing.org/workshop/node/8