

JET Tasking for FY 2016 included:

1. Continuation of the JET Big Data Task
2. LSN Workshops
 - SDN planning workshop: Next steps
 - Integration of mobile wireless technology with SDN and GENI resources: building on the NSF November workshop
 - Enabling Extreme Data Science: Routinize engineering and resources for E2E support of data intensive science (e.g., 98 Gbps over 100G links, 9.5 Gbps over 10G links).
3. Track technologies: SDN/SDX, TICs, perfSONAR, IPv6, cooperation among JET/GENI/US Ignite
4. Continue co-located JET meetings
 - Internet2 Global Summit: April 2015
 - SC14
5. Explore an Emerging Technology Coordination (ETC)
6. Develop a plan for addressing SDN/cloud integration to include:
 - Reservation of bandwidth across domains
 - Integration of wireless
 - Reservation of computational and storage resources
 - Authorization policy frameworks
 - Performance monitoring

During FY2016 the JET addressed Tasks 1, 3, 4, and 5. The LSN supported a workshop on:

- Broadband Opportunity Commission planning (June 2016)

For Task 6, the JET received briefings from Internet2 on their use of SDN in their backbone network and the performance of the SDN capabilities which resulted in an Internet2 redesign based on MPLS backbone technology with an SDN overlay. JET also received briefings on the ESnet SDN testbed.

The Emerging Technology Cooperation (ETC) evolved into cooperation between Internet 2 and ESnet on their deployment of SDN technology and testbeds.

Based on this experience in the JET, and planning forward, JET tasks for FY17 are proposed:

1. Continuation of the JET Big Data Task to demonstrate Big Data and SDN applications and technology at SC16 and to plan for demonstrations at SC17.
2. LSN Workshops
 - Identify one or more LSN workshops
3. Track technologies: SDN/SDX, TICs, perfSONAR, cooperation among JET/GENI/US Ignite
4. Continue co-located JET meetings
 - Internet2 Global Summit: April 2015

■ SC17