

LHCONE Support

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**INTERNATIONAL
NETWORKING**

at Indiana University

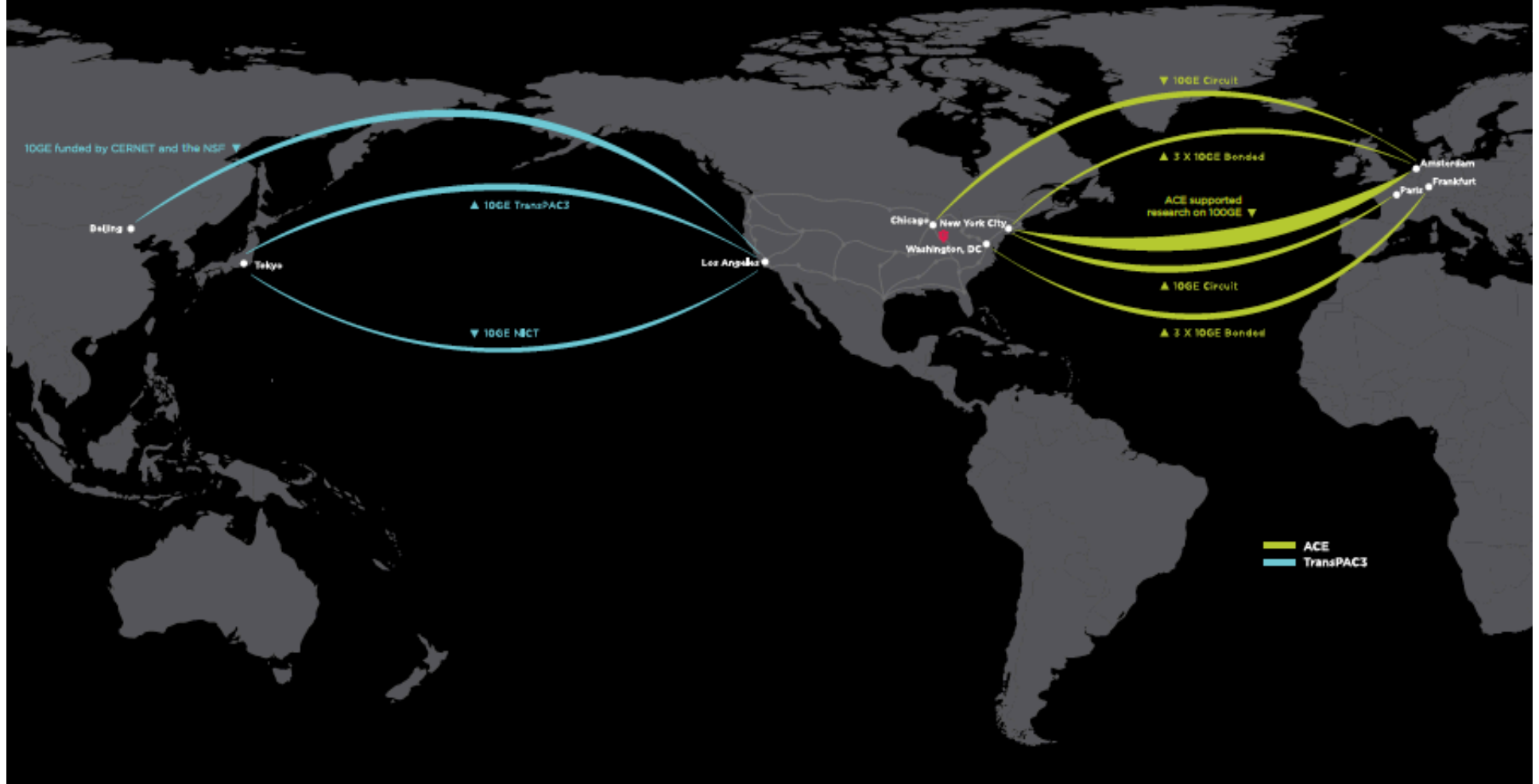


INDIANA UNIVERSITY

Overview

- IU currently has two international networking projects
 - Funded by the US National Science Foundation
 - Part of the International Research Network Connections (IRNC) Program
- America Connects to Europe (ACE)
- TransPAC, focuses on Asia
- <http://internationalnetworking.indiana.edu/>

Supporting Global Research and Education Collaboration



ACE

- In response to the NSF's 2009 IRNC Solicitation
- Partnership between IU and DANTE/GEANT
- Directly funds a set of circuits between the US and Europe
 - 30G New York-Amsterdam
 - 30G McLean, VA-Frankfort
 - 10G Starlight-Amsterdam
- More than just circuits, we focus on operational and science support, engineering research, and collaboration

LHCONE and the issues facing us

- LHCONE is a complicated network which overlays many different R&E networks – on the national, regional, and campus levels
- There is a subset of end-to-end issues that are Hard to deal with
- There are some users of the network who do not even know where to begin when facing a performance issue (who might not even know who their 'local NOC' is)

What we are proposing

- Short term (6 month) support mechanism
- Email address/phone number as a point of contact of last resort for issues for end sites
 - We will help end sites get in contact with the appropriate parties, and facilitate testing among them
- Serve as a communications hub for inter-domain troubleshooting

What we are proposing

- This would last for 6 months
- Provide frequent reports to the group of active issues tracked and what the status of those issues are
- Provide a report at the end of the 6 month period summarizing activity
- This would provide the group with some insight as to how many people are experiencing performance issues and where

Goals

- Identify end users who are having issues before they get frustrated
- Document these issues rather than letting them stew as folklore/rumors discussed only in hallways at conferences
- Correlate performance problems to help isolate hot spots (both congestion and errors)
- Determine just how many issues there are and how frequent they are

Points of collaboration

- If you are involved in a multi-domain performance problem, let us know so we can track it
- Provide as much update information as possible for whom to contact with performance issues

Thanks!

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Discussion/Questions