AmLight ExP
Americas Lightpaths Express & Protect

AmLight Express and Protect (ExP)

Further Defining a Global Network Architecture
Internet2 Global Summit, Chicago
May 17, 2016

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U.S.-Latin America 100G Link

PRESS RELEASE
FOR IMMEDIATE RELEASE
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Americas Lightpaths Express and Protect Activates First US – Latin America 100G Networking Link Enhancing Infrastructure for Research and Education

Miami, Florida, May 11, 2016 – Florida International University's Center for Internet Augmented Research and Assessment (CIARA) is pleased to announce the first 100G research and education network link between the U.S. and Latin America, a major component of the five-year AmLight ExP (IRNC BACKBONE: Americas Lightpaths Express and Protect) NSF Award#ACI-1451018.

On April 18, 2016 the AmLight Consortium activated the first 100G link of the AmLight-ExP project. It has 106ms delay and it goes via the Atlantic between Miami, FL and Sao Paulo, Brazil. The 100G link is under evaluation for the next 30 days. "To date, we have not seen any packet loss or errors and, to evaluate it, we are using an IXIA 100G packet generator," said Jeronimo Bezerra AmLight Chief Network Engineer.

The AmLight Consortium is a group of not-for-profit universities, state, national and regional research and education networks including the AmLight ExP project at Florida International University, RNP, ANSP, RedClara, REUNA, FLR, AURA, Latin American Nautilus, and Internet2.

https://www.internet2.edu/news/detail/10882/

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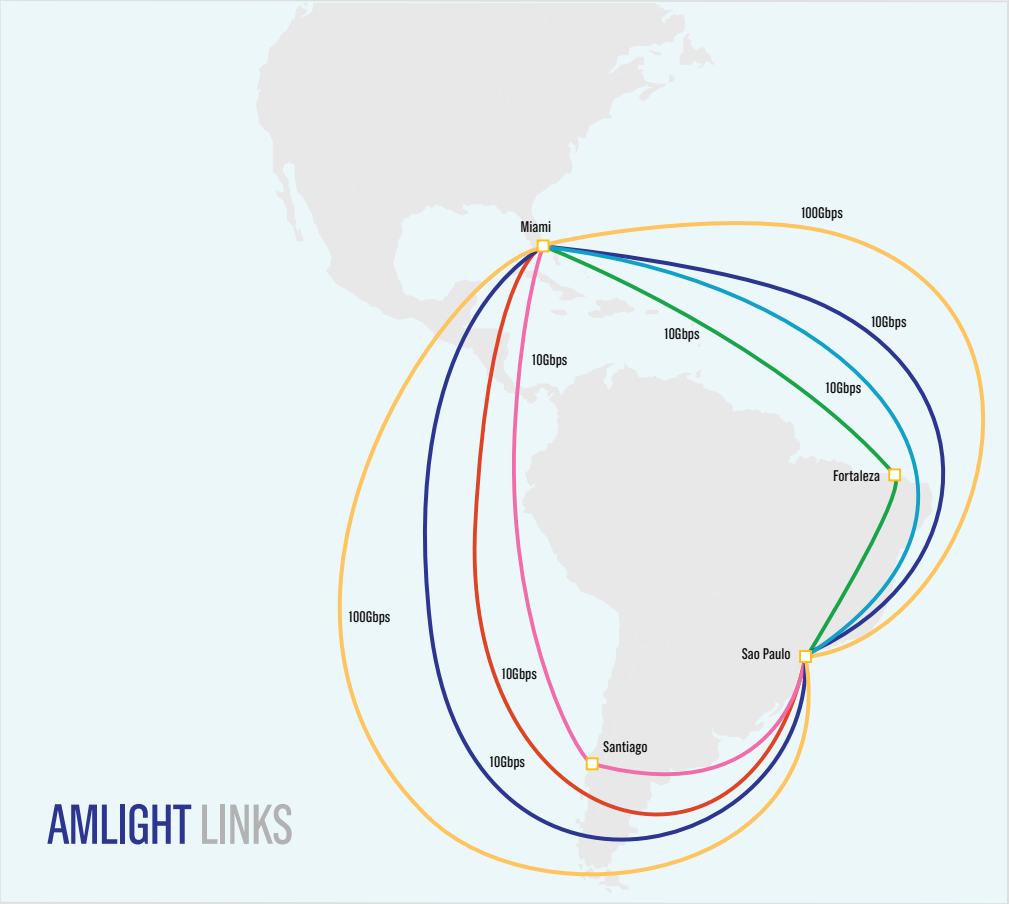
AmLight-ExP Today

- NSF International Research Network Connections, award# ACI-1451018, U.S.-Latin American connectivity
- 100G Connectivity
  - Miami-São Paulo, Atlantic – in service
  - Miami-São Paulo, Pacific – June
  - Fortaleza – July
  - Santiago, Chile - November
- 6x10G links, landings in São Paulo, Fortaleza, Santiago
- 260G of aggregate bandwidth capacity



http://www.amlight.net

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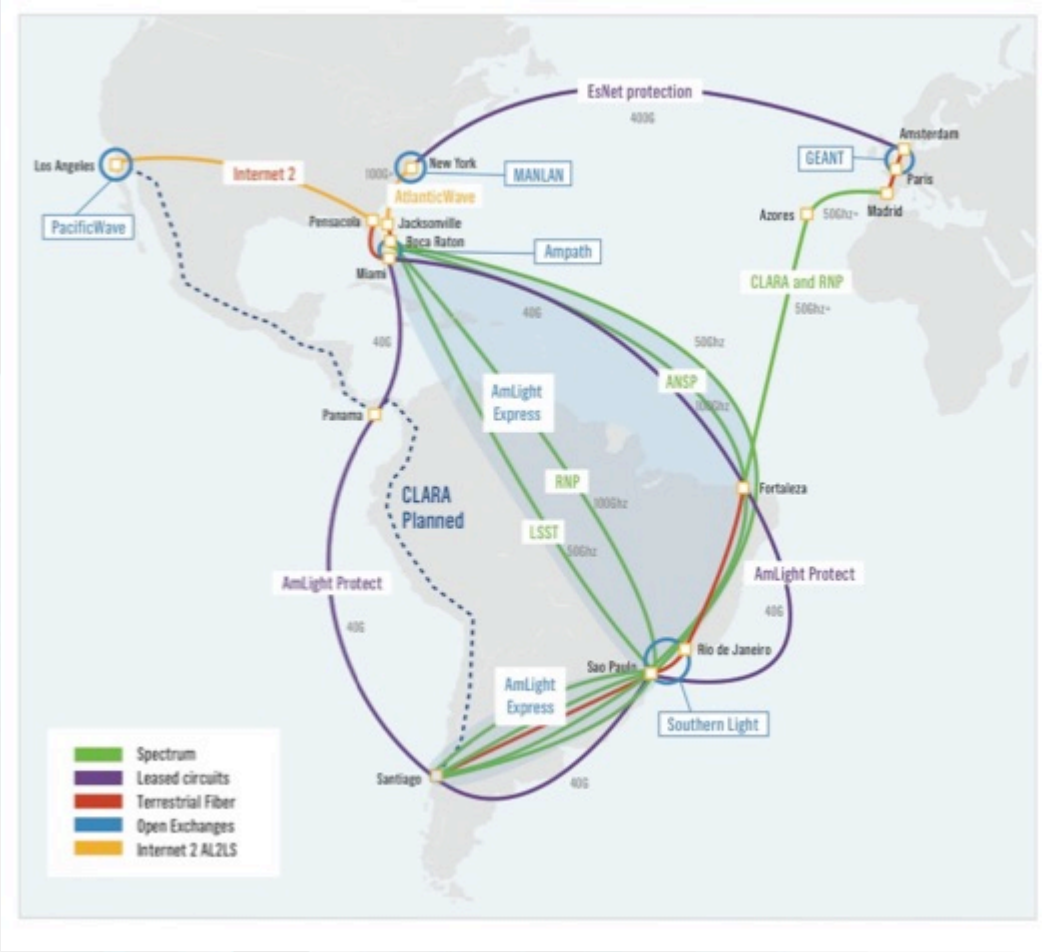
AmLight-ExP Future

- AmLight ExP 2017:
  - 600G of aggregate bandwidth to be added:
    - Santiago-São Paulo, and São Paulo-Miami
  - 100G for Panama in 2018
- Fortaleza as a south Atlantic hub
  - EulaLink submarine cable from Fortaleza to Portugal
  - SACS submarine cable to Angola (Q3 2018)
  - CBCS submarine cable to Cameroon (Q4 2017)
- Path finding opportunity with Africa to be explored



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Thank You!

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  - FAPESP, ANSP – grant no. 2008/52885-8
  - Rede Nacional de Ensino e Pesquisa (RNP)
  - Association of Universities for Research in Astronomy (AURA)
  - Florida International University
  - Latin American Research and Education community
  - The many national and international collaborators who support our efforts