Pacific Wave International Exchange

David Reese
Managing Director, Pacific Wave
Pacific Wave

- Collaboration between CENIC and PNWGP
- Began as first geographically distributed exchange in 2004
- Pacific Wave is an open exchange supporting both commercial and R&E peers
- Currently serves 29 countries peering across the Pacific and Western United States
- With PNWGP and TransPac, announced the first 100Gbps Trans-Pacific link from Tokyo to Seattle in 2015
CENIC is a non-profit created to serve California’s K-20 research & education institutions with cost-effective, high-bandwidth networking

Six Charter Associates:

- California K-12 System
- California Community Colleges
- California State University System
- Stanford, Caltech, USC
- University of California
- California Public Libraries
CENIC in California

CENIC Provides a World Class Network | CENIC connects the state's research and education institutions to peers around the world, with an estimated 20 million Californians using CENIC’s services. CENIC is part of a global ecology of research and education, government, and commercial networks, and manages a vast portfolio of integrated networks on behalf of its members and partners, delivering quality, efficiency, and value for all.
Pacific Wave and GNA

• Pacific Wave:
  – has always operated open exchange points
  – has initially listed Seattle, Sunnyvale and Los Angeles as GNA Exchange Points
  – is including backbone links between exchange points
  – is including (with TransPac) 100G link from Seattle to Tokyo
Pacific Wave and GNA

• GNA compliance means various policies and documentation readily available online
  – PW is working to draft and publish: Privacy Policy, PW backbone link AUP, Service Expectations
Nx100G Across the Pacific

• CURRENT:
  – TransPac/Pacific Wave (Tokyo-Seattle)
  – SINGAREN/Internet2 (Singapore-Los Angeles)
  – SINET/SoftBank/Pacific Wave (Tokyo-Los Angeles)
  – AARNET/PIREN/Pacific Wave (Australia-SEA)
  – AARNET/PIREN/Pacific Wave (Australia-LA)

• FUTURE:
  – UH/PIREN/Pacific Wave (Guam-Hawaii-LA)
Pacific Wave and NSF/IRNC

• Pacific Wave has been partially supported through three separate five-year National Science Foundation grants supporting growth, connectivity and innovation

• Current award promotes 100G expansion and implementation of SDX capabilities within Pacific Wave (ACI-1451050)
QUESTIONS AND COMMENTS

Please direct questions regarding Pacific Wave to:

info@pacificwave.net
-or-
Celeste Anderson, Director Customer Relations
celestea@pacificwave.net
-or-
Dave Reese, Managing Director
dave@pacificwave.net