# Advanced Internet Connectivity in the Americas: AmericasPATH (AmPATH)


By

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# The AmPATH Project

- The AmPATH project is a collaboration between Florida International University and Global Crossing to interconnect the Research and Education networks in South and Central America, the Caribbean, Mexico and other international countries to Internet2, US and non-US National Research Networks.

# AmPATH Project Goals

- To enable participating countries to contribute to the research and development of applications for the advancement of Internet technologies.
- To extend the Internet2 research and education community for high-performance networking to South and Central America, the Caribbean and Mexico.

# AmPATH Project Mission

***To Serve as the Pathway for Reseach and Education Networking in the Americas and to the World.***

# March 8th Meeting in Miami

- FIU and Global Crossing announced the AmPATH project to representatives from Argentina, Brazil, Chile, Columbia, Costa Rica, Puerto Rico, Venezuela, and US Virgin Islands.
- Participating in the meeting and supporting the AmPATH project were UCAID, STARTAP and Canarie.

# Global Crossing's Contribution

- Global Crossing has very generously agreed to allow Florida International University and participating countries in its Service Area the use of the available capacity of its fiber network to build an international high-performance Research and Education network in the Americas.

# Global Crossing's Service Area

- Argentina
- Brazil
- Chile
- Columbia
- Mexico
- Panama
- Peru
- US Virgin Islands
- Venezuela


Landing Points
Initial Connectivity
Planned Expansion
Connecting Systems
MAC
PAC
St. Croix
US Virgin Islands
Maracaibo
Panama
Cartagena
Valencia
Panama City
Puerto Viejo
Colombia
Caracas
Ft. Amador
Medellín
Venezuela
Buenaventura
Bogotá
Ecuador
Cali
Quito
Guayaquil
Fortaleza
Brazil
Lima
Lurín
Peru
Brasília
Belo Horizonte
São Paulo
Rio de Janeiro
Santos
Chile
Curitiba
Mendoza
Córdoba
Pôrto Alegre
Valparaíso
Uruguay
Santiago
Rosario
Buenos Aires
Montevideo
Punta del Este
Argentina
Las Toninas
South American Crossing

# Service Availability in Brazil

- October 2000 is the expected time frame when Global Crossing's facilities will be available in Rio de Janeiro and Sao Paulo.
- Connectivity to AmPATH will be available soon after.
- Planning and preparations for your connection to AmPATH should start Now.

# What does a Participating Country Receive?

- Each participating country receives a DS3 of capacity to the AmPATH POP in Miami, for three years, at NO COST!
- Access to the AmPATH network from a designated Global Crossing POP.
- Transit from Abilene or STAR TAP to US and non-US National Research Networks (NRNs).

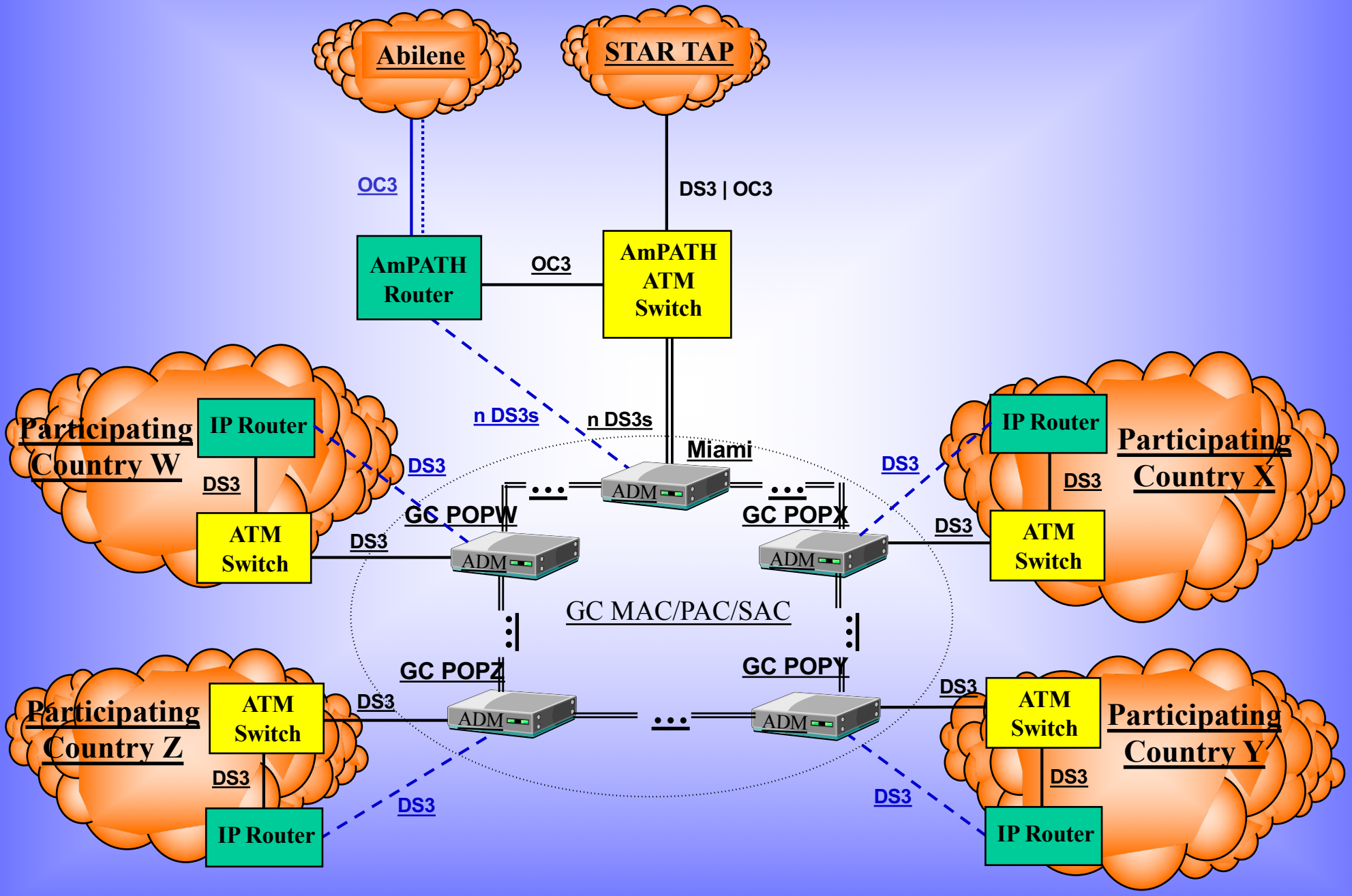
# Participant's Responsibilities

- Each participating country is responsible for connecting its R&E networks to a designated Global Crossing POP:
  - → Provision Local Loop.
  - → Provide required hardware.
- Establishing connectivity to the AmPATH POP in Miami using ATM or IP.

# AmPATH's Responsibilities

- Coordinate and assist participants in establishing connectivity to AmPATH.
- Provide 24x7x365 NOC services.
- Provide leadership and coordination to ensure Participants can reach desired US and non-US NRNs.
- Broker low-cost connectivity to STAR TAP, Abilene or other essential transit networks.

# AmPATH Network



# Benefits of AmPATH

- Provides high-speed connectivity to Internet2, US and non-US NRNs at a very low cost:
  - DS3s to Miami are free (most expensive and challenging part)
  - Costs for circuits to transit networks, engineering and operations are shared among all participants.
- By working together, everyone will benefit.
- Scales well as bandwidth requirements grow.
- Leverages ability to purchase more bandwidth for the Research and Education community.

# Next Steps

- Complete the Connection Request form at http:/ampath.fiu.edu
- Sign MOU with UCAID.
- Sign MOU and Connection Agreement with AmPATH.
- Provision local loop to GC POP and obtain hardware for ATM or IP connection.

# AmericasPATH

**Thank you**
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