IGF Workshop 270
Public Policies for an improved interconnection at lower costs.

Sharm El Sheikh November 16th 2009
14:00 - Opening. Raúl Echeberría, LACNIC CEO

14:10 – Main Speakers:
- Roque Gagliano, Senior Project Engineer and Policy Officer, LACNIC.
- Augusto Gadelha IT policies Secretary at the Minister of Science and Technologies, Brazil.
14:40 Panel of commentators:
   - Nishal Goburdhan (ISP Sector South Africa).
   - Jacquelynn Ruff (Global Carrier - Verizon Business).
   - Valeria Jordán (Economic Commission for Latin America and the Caribbean - ECLAC - UN)

Moderator: Lorena Piñeiro (Chilean Council for Transparency)

15:10- Open Mic.

15:30- End of Workshop.
Introduction to Internet Interconnection in 2009.

Roque Gagliano

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Agenda:

• Interconnection and WSIS.
• Interconnection model 90s in LAC.
• Interconnection actors today.
• Interconnection model today in LAC.
• Possible governmental action areas.
WSIS and Interconnection:

- Interconnection and particularly international transit cost were a main topic at the WSIS.
- Interconnection word 8 times in the Tunis Agenda.
- However interconnection today is much more than the international links.
Interconnection 5-10 years ago for ALAC:

Content: web and mail

Tier I

International Transit $$$ $$$

Peering $0

ISP L.A.

Users

Highly asymmetrical traffic

ISP L.A.

Users
Interconnection actors today:

- p2p Content
- End-users (Content consumers or producers)
- Tier-3 Networks (retailers)
- Tier-3 Networks (regional)
- Tier-3 Networks (regional)
- Tier-1 Networks (global)
- ISP
- Backbone providers
- Content Distributors (CDN)
- Content Providers
Internet and Distribution Chain:

**Internet**
- Content Provider and other users (p2p)
  - Produce content
- Backbone
  - Transport packets
- CDN
  - Temporary keep popular content
- ISP
  - Deliver to end users
- User

**Distribution Chain**
- Factories
  - Produce goods
- Transport providers
  - Transport shipments
- Local warehouses
  - Temporary keep volume goods
- Retailer
  - Deliver to consumers
- Consumer
Interconnection today in LAC

Customers

Local ISP

Local Transit

Peering International

Own Eq. in USA

International connection $\$

Tier I

Get traffic at lower costs

IXP

public

Content providers, CDN

public

Critical Resources

public

Other ISPs

public

Private

Transit $
The international loop

- Datacenter ISP
- Datacenter Carrier
- Submarine Cable Land Station
- Submarine Cable
- Datacenter

Metropolitan link

Backhaul
Possible local action areas for governments:

- Increase local content:
  - datacenter infrastructure.
  - hosting capabilities.
  - stimulate presence of content network nodes.
  - revisit tax policies.
- Stimulate local, regional and sub-regional traffic exchange.
- Facilitate access to submarine cable buildings (metropolitan infrastructure and “backhaul”).
- Facilitate local offer of transit at low cost.
• Thanks.

• “USA is not longer the center of the internet for EUROPE” Henk Steenman (AMS-IX).