RedCLARA Status 2008

Carlos Casasús  
Vice President of the Board  
CLARA 
April, 2008
ALICE Project

• Starts June 2003
• Intended to connect 18 Latin American Countries
• 4 European NRENs are project partners
• 12.5 Million Euros, 10 Million provided by EC thru @LIS, 2.5 provided by beneficiary countries
• Managed by DANTE
• Creation of CLARA, the organization of LA NREN’s
  – 18 (100%) LA Countries
  – Legally established as a non-profit corporation in Uruguay
  – Management structure in place
• Establishment of RedCLARA
  – The Network
  – The Operations are carried out by CUDI in Mexico
  – The Engineering is subcontracted to RNP in Brazil
  – The Information Systems is subcontracted to REUNA in Chile
ALICE Results

• A Latin American Regional Network, RedCLARA, has been installed
• A Regional Organization, CLARA, has been created and is in charge of the continuity of RedCLARA
• 9 new NRENS were created in LA as a result of CLARA
• Multiple collaborative projects running in the network
The WHREN/LILA Project

- WHREN: Western Hemisphere Research and Education Network. Project funded by NSF, ANSP, Corporation for Education Network Initiatives in California (CENIC) and Florida International University (FIU).
- IRNC Project funded by NSF and leaded by FIU and CENIC in the US.
- LILA Links Interconnecting Latin America
- CLARA, CUDI, RNP, ANSP from Latin America
- Acquired IRU of Dark fiber Tijuana-San Diego. Running GbE on top of it. (to Pacific Wave)
- 2.4 Gbps Sao Paulo-Miami shared with CHEPREO & ANSP (to Atlantic Wave)
EEC funding for CLARA ends in March 2008

- Need to optimize resources
- Take full advantage of WHREN and IRNC resources
- Install a POP in Miami
12 countries connected

<table>
<thead>
<tr>
<th>Argentina</th>
<th>Guatemala</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brazil</td>
<td>México</td>
</tr>
<tr>
<td>Chile</td>
<td>Panamá</td>
</tr>
<tr>
<td>Colombia</td>
<td>Perú</td>
</tr>
<tr>
<td>Ecuador</td>
<td>Uruguay</td>
</tr>
<tr>
<td>El Salvador</td>
<td>Venezuela.</td>
</tr>
</tbody>
</table>
ALICE 2 funding is expected for the end of 2008, start of 2009
RedCLARA’s Vision for 2009

- Future backbone should have CLARA owned dark fiber in the following links
  - AR-CL
  - AR-BR
- The Intercontinental link to Europe should be 1.2 Gbps in 2009 and reach 2.5 Gbps in 2010
- Aiming to use the Plan Puebla Panamá fiber to connect Mexico and Central America
LINEA SIEPAC
PRIMER SISTEMA DE
TRANSMISION REGIONAL

<table>
<thead>
<tr>
<th>País</th>
<th>KMS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Guatemala</td>
<td>279</td>
</tr>
<tr>
<td>El Salvador</td>
<td>285</td>
</tr>
<tr>
<td>Honduras</td>
<td>270</td>
</tr>
<tr>
<td>Nicaragua</td>
<td>321</td>
</tr>
<tr>
<td>Costa Rica</td>
<td>490</td>
</tr>
<tr>
<td>Panamá</td>
<td>150</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>1795</strong></td>
</tr>
</tbody>
</table>

300 MW de capacidad
28 bahías en 15 subestaciones
Cable OPGW de 36 fibras
RedCLARA’s Vision for 2009

- The PA-CL link should be at least STM-4
- The Node in Miami should be connected to PA at 1.2 Gbps
- The CLARA’s Miami Node should be connected to MX thru the US Internet2 New Network using a 2.5 Gbps Leased Wavelength for backup
http://www.redclara.net