

# Colombia

Bebo White arranged a video meeting with people from RENATA and the ICT Ministry in Colombia on 1/20/2015. They have published a [paper on some of their activities](#). A way forward would be to install one or more PingER monitoring hosts in Colombia so we can start to measure the end-to-end Internet performance from within Colombia.

The RENATA network in Colombia appears as:

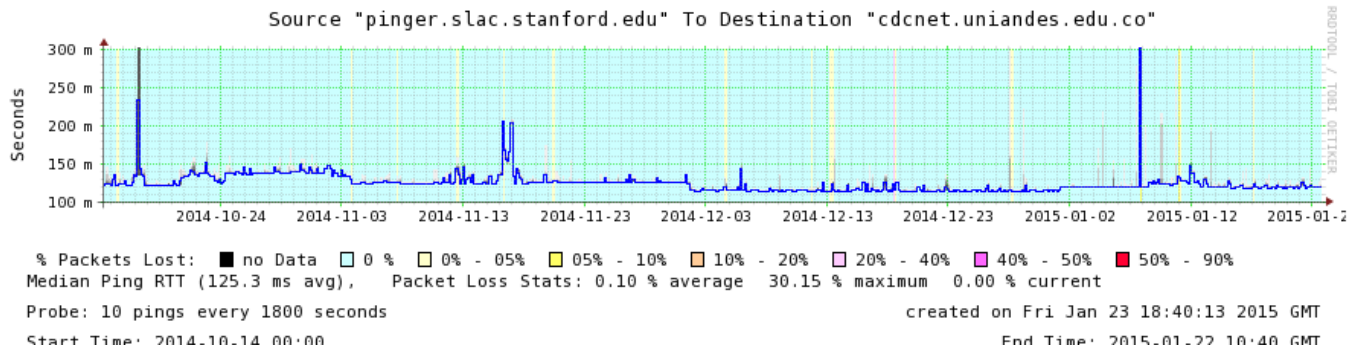


Figure 2: RENATA Network (Colombia's high-speed network)

These sub-networks are centered around the cities of Barranquilla, Bucumaranga, Bogota, Medellin, Cali and Popayan. The network consists of 47 nodes, mostly universities, but also including some advanced research institutes.

## Current situation 1/23/2015

We have been monitoring Universidad de Los Andes, Bogota since Feb 2007. It currently (last 120 days) appears as:



Where the blue background means no packets lost. It looks pretty good, no day/night differences (which would indicate congestion) . Couple of spikes. Low losses.

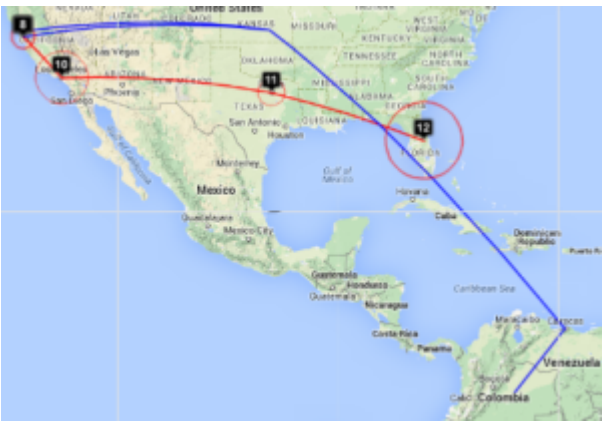
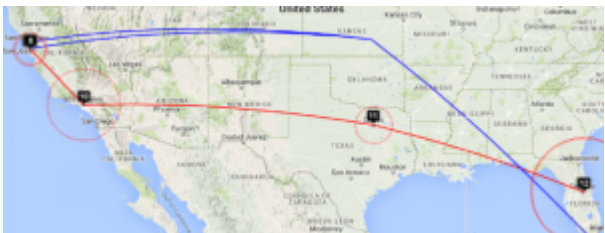
## Routing

RENATA is connected to the Latin American IXP Red CLARA via Panama.



Figure 1: CLARA Network

However, the route from SLAC appears to go from SLAC to Sunnyvale to Los Angeles, to Texas, to Florida, to Venezuela, to Columbia. The route from [w.ottix.net](http://w.ottix.net) in Ottawa Canada also goes via Miami.

Overall route	US portion	Annotated t
		<p>Hop # destination</p> <ol style="list-style-type: none"> <li>1 194.79.207.181</li> <li>2 m-cornet-02p-mem01-02</li> <li>3 m-cornet-01p-02p-01</li> <li>4 m-cornet-02p-01p-01</li> <li>5 m-cornet-02p-01p-01</li> <li>6 m-cornet-02p-01p-01</li> <li>7 m-cornet-02p-01p-01</li> <li>8 m-cornet-02p-01p-01</li> <li>9 m-cornet-02p-01p-01</li> <li>10 m-cornet-02p-01p-01</li> <li>11 m-cornet-02p-01p-01</li> <li>12 m-cornet-02p-01p-01</li> <li>13 m-cornet-02p-01p-01</li> <li>14 m-cornet-02p-01p-01</li> <li>15 m-cornet-02p-01p-01</li> <li>16 m-cornet-02p-01p-01</li> <li>17 m-cornet-02p-01p-01</li> </ol>

## Extension

We have added 4 hosts in Colombia, 2 in Bogota, 2 in Medellin. We now have;

- Universidad Cooperativa de Colombia, Bogota
- Universidad de Santander, Medellin
- Universidad EAFIT, Medellin
- Universidad de La Salle, Bogota
- Universidad de Los Andes, Bogota

Of these Universidad de Los Andes, Bogota has been made a Beacon so it is monitored from other PingER monitors besides SLAC.