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IXPs Traffic Statistics

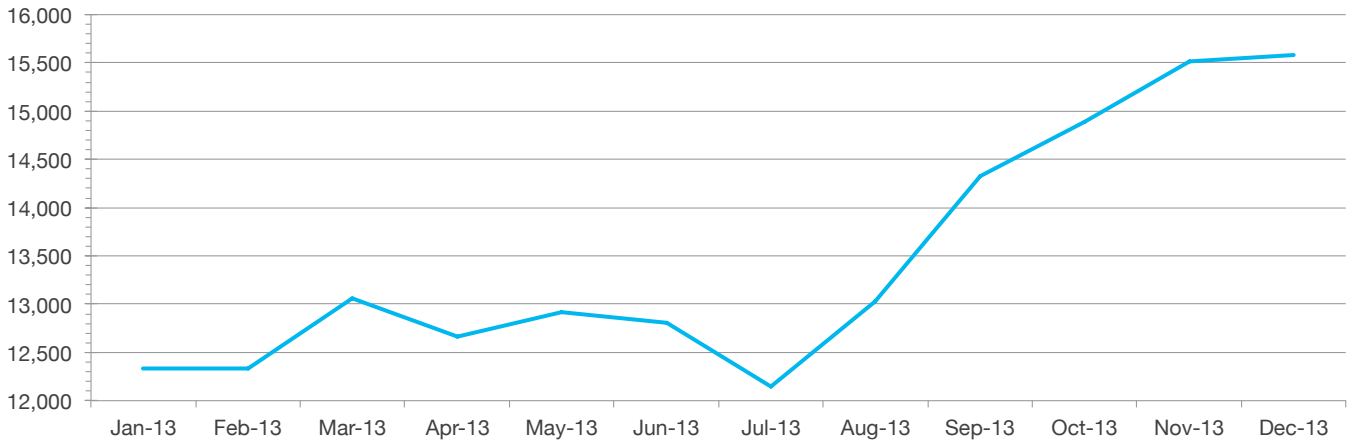2013 summary

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Global Traffic Statistics in 2013

1/ Total aggregated traffic growth worldwide (in Gbps)

The global aggregated peak traffic has increased with 26.4% over the past 12 months, going from 12,329.3 Gbps in January to 15,580.3 Gbps in December. These numbers are based on data collected each month (some automatically, some manually), from 129 IXPs on average throughout the year, over the public peering LAN. The number of IXPs we have been collecting statistics from varied from one month to the other depending on the data available. Overall it increased from 120 IXPs in January to 143 IXPs in December, which explains the faster growth rate since July.

2/ Average peak traffic per IXP, worldwide (in Gbps)
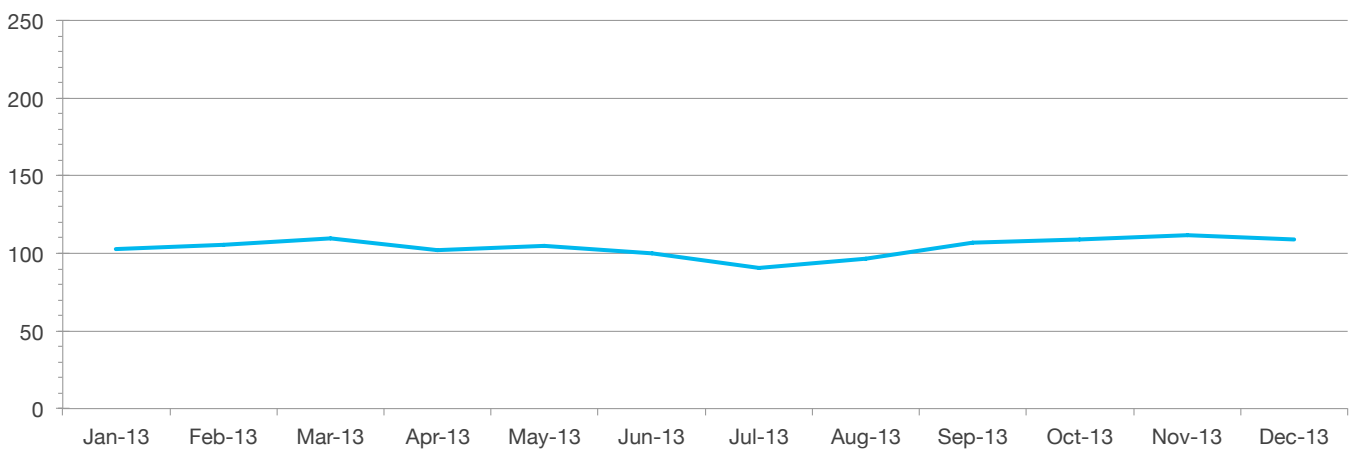
The average peak traffic per IXP remained quite stable over the past 12 months, with an increase of 6% from January to December, going from 102.7 Gbps to 109 Gbps. Note: The traffic peaks ranged from 52 Kbps to 2,461.6 Gbps in January and from 7 Kbps to 2803.8 Gbps in December. The average numbers are therefore not representative for most of the Internet exchanges and the IXP community stays very diverse.
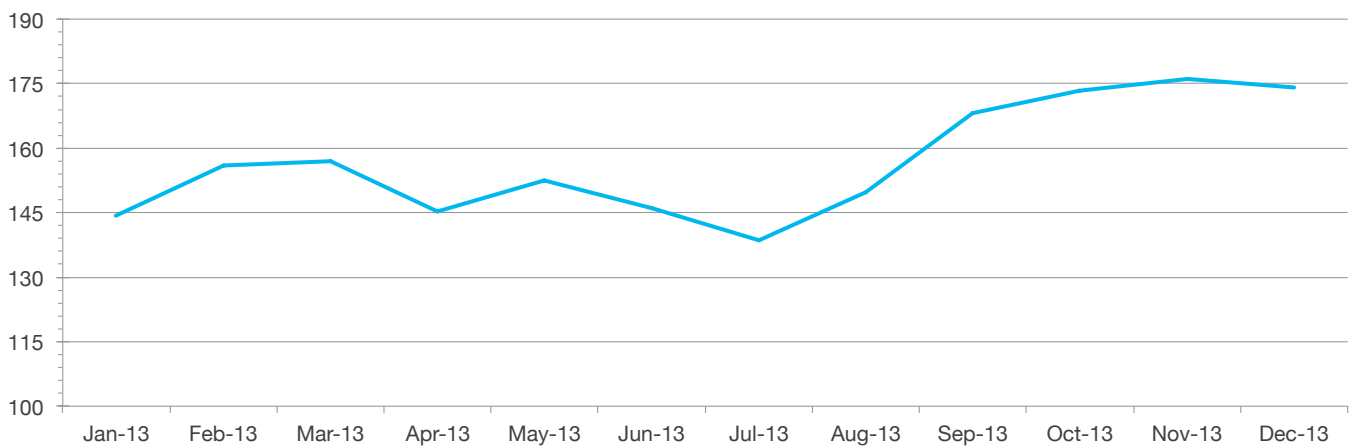
Euro-IX Region

3/ Total aggregated traffic growth in the Euro-IX region (in Gbps)
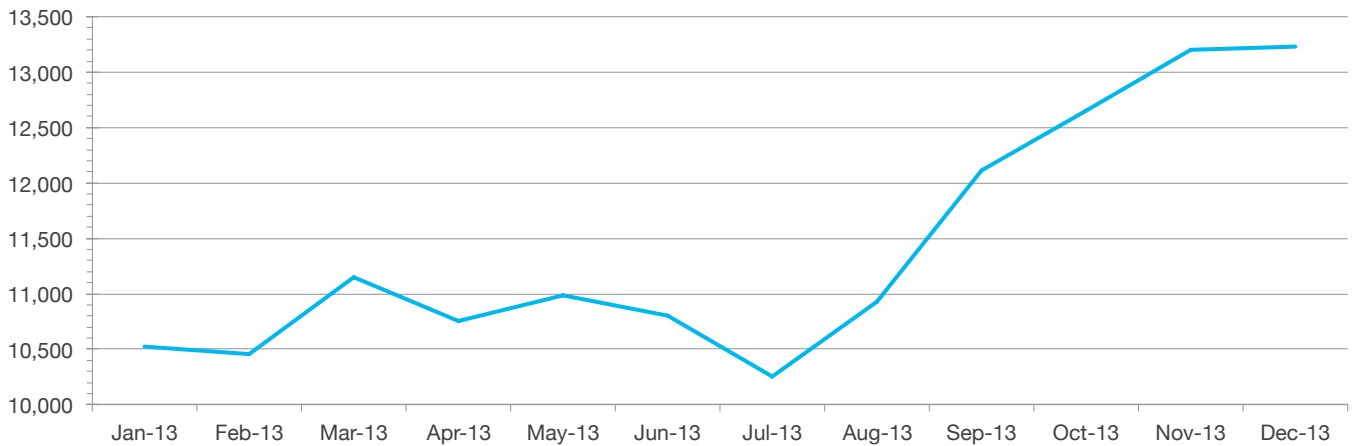
The total aggregated peak traffic in the Euro-IX region has increased with 25.7% over the past 12 months, going from 10,525.7 Gbps in January to 13,230.4 Gbps in December. The numbers are based on data collected from 73 IXPs on average, over the public peering LAN. The number of IXPs we collected data from increased from 73 in January to 76 in December.
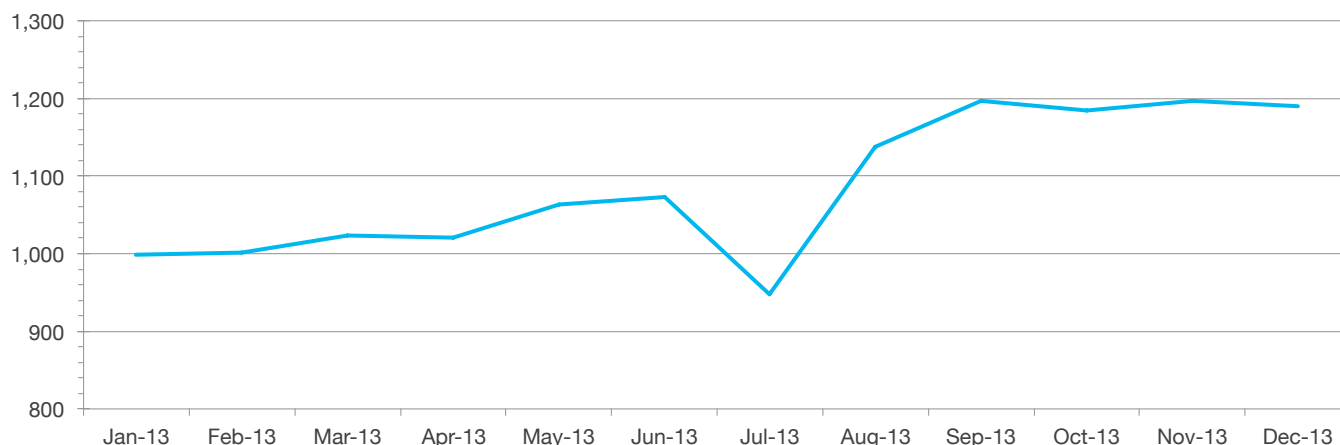
4/ Average peak traffic per IXP in the Euro-IX region (in Gbps)

The average peak traffic per IXP increased with 20.7% in the Euro-IX region in 2013, going from 144.2 Gbps to 174.1 Gbps. The traffic peaks ranged from 40 Mbps to 2,461.6 Gbps in January and from 28 Mbps to 2803.8 Gbps in December. The 4 largest IXPs in term of traffic in this region but also worldwide are DE-CIX in Frankfurt, AMS-IX in Amsterdam, LINX in London and MSK-IX in Moscow, which are the only ones where the traffic exceeds 1 Tbps.
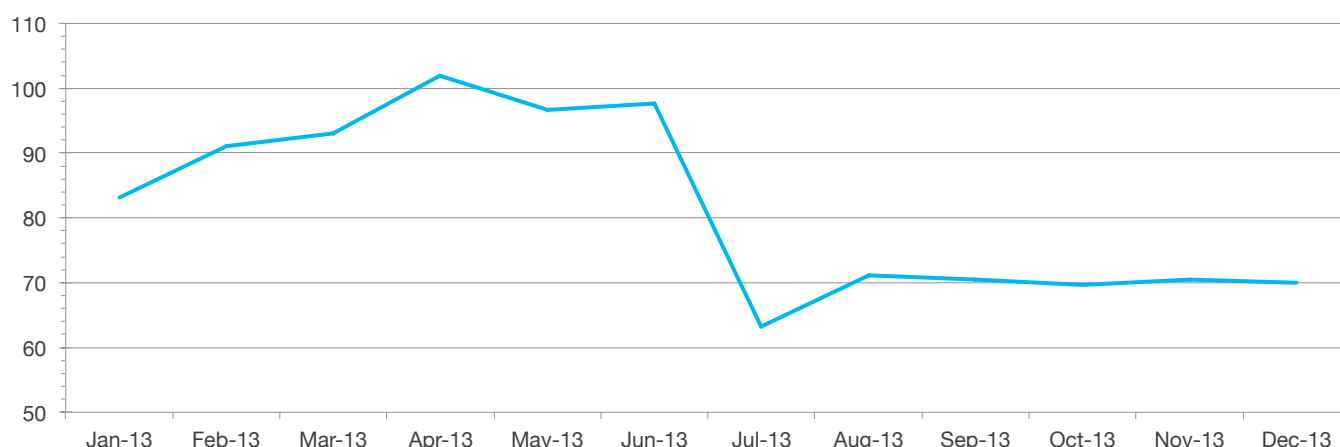
APIX Region

5/ Total aggregated traffic growth in the APIX region (in Gbps)

The total aggregated peak traffic in the APIX region has increased with 19.2% over the past 12 months, going from 998.7 Gbps in January to 1,190.2 Gbps in December. The numbers are based on data collected from over 14 IXPs on average, over the public peering LAN. The number of IXPs we collected data from increased from 12 in January to 17 in December.

6/ Average peak traffic per IXP in the APIX region (in Gbps)

The average peak traffic per IXP decreased with 15.9% in the APIX region in 2013, dropping from 83.2 Gbps to 70 Gbps. This can be explained by the addition of the 5 IXPs operated by WAIA (Western Australian Internet Association which joined Euro-IX as a remote member mid year) in the list of IXPs we collect data from. Those Australian IXPs have indeed a lower level of traffic.
The leading IXPs in this region are JPNAP in Tokyo, HKIX in Hong-Kong, JPIX in Tokyo and KINX in Seoul.
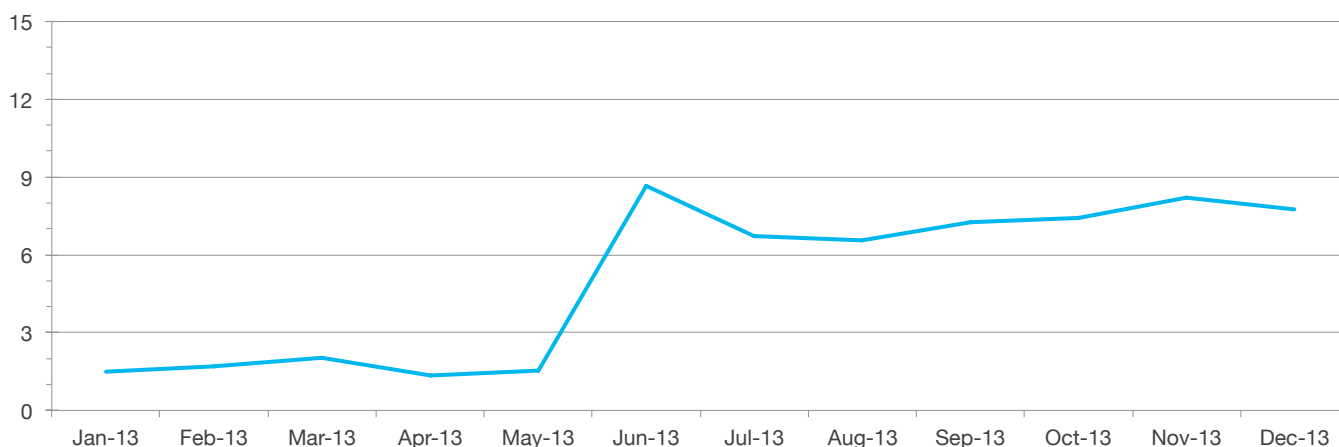The traffic peaks ranged from 30 Mbps to 286.89 Gbps in January and from 53 Mbps to 338.51 Gbps in December.

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Af-IX Region

7/   Total aggregated traffic growth in the Af-IX region (in Gbps)
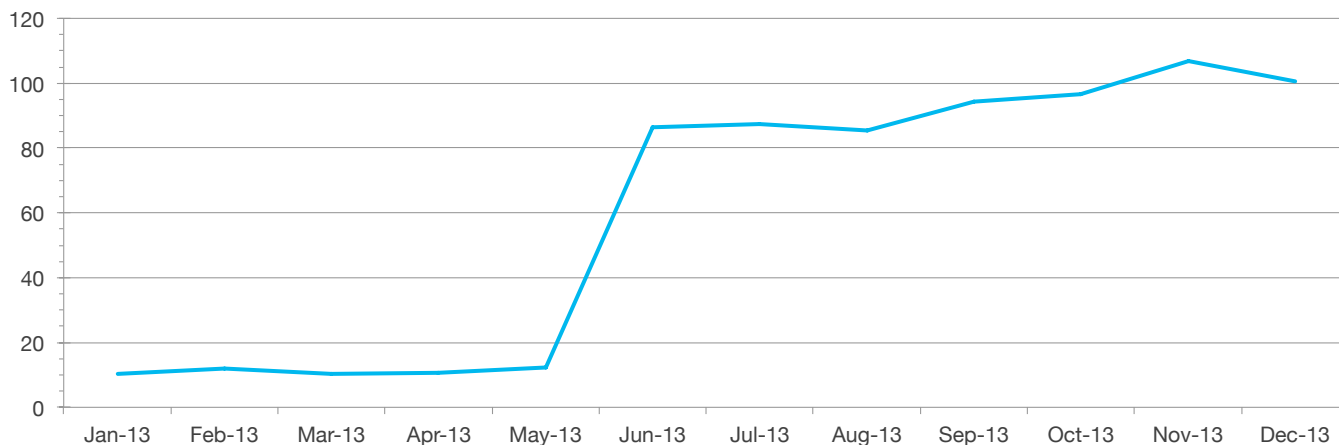
The total aggregated peak traffic in the Af-IX region has increased with 864.8% over the past 12 months, going from 10.4Gbps in January to 100.7 Gbps in December. The numbers are based on data collected from 10 IXPs on average, over the public peering LAN. The number of IXPs we collected data from increased from 7 in January to 13 in December. The total traffic here remains significantly lower than in the other regions. It shows the most impressive growth rate this year mainly because the number of IXPs from which we collect data nearly doubled between January and December, including 2 new Euro-IX members which were added in June: NAP Africa and especially TunIXP where the traffic is significantly higher than for the majority of the IXPs in this region.
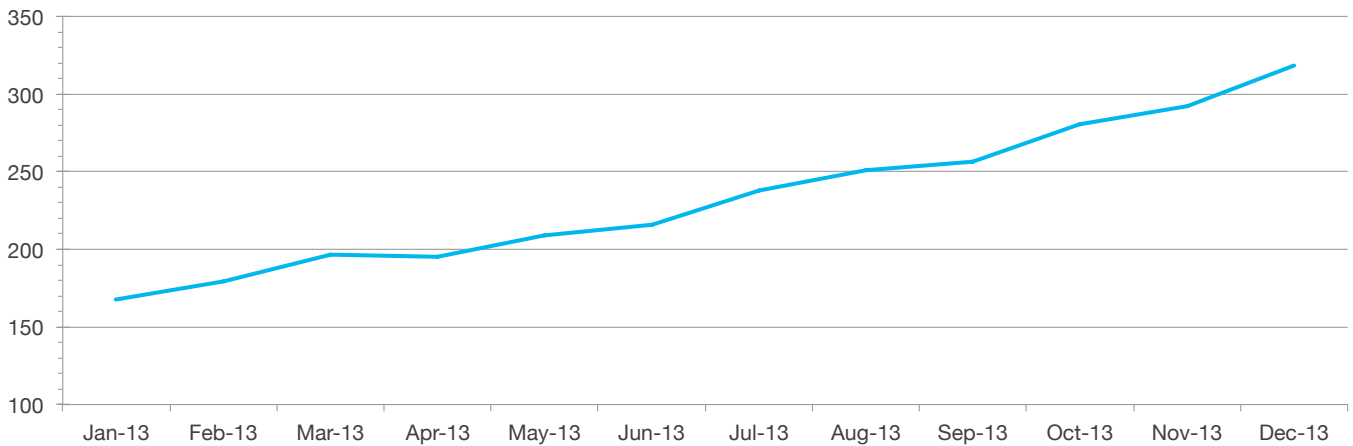
8/   Average peak traffic per IXP in the Af-IX region (in Gbps)

The average peak traffic per IXP increased with 419.5% in the Af-IX region in 2013, going from 1.5 Gbps to 7.7 Gbps. The traffic peaks ranged from 52 Kbps to 5.8 Gbps in January and from 7 Kbps to 87.3 Gbps in December.
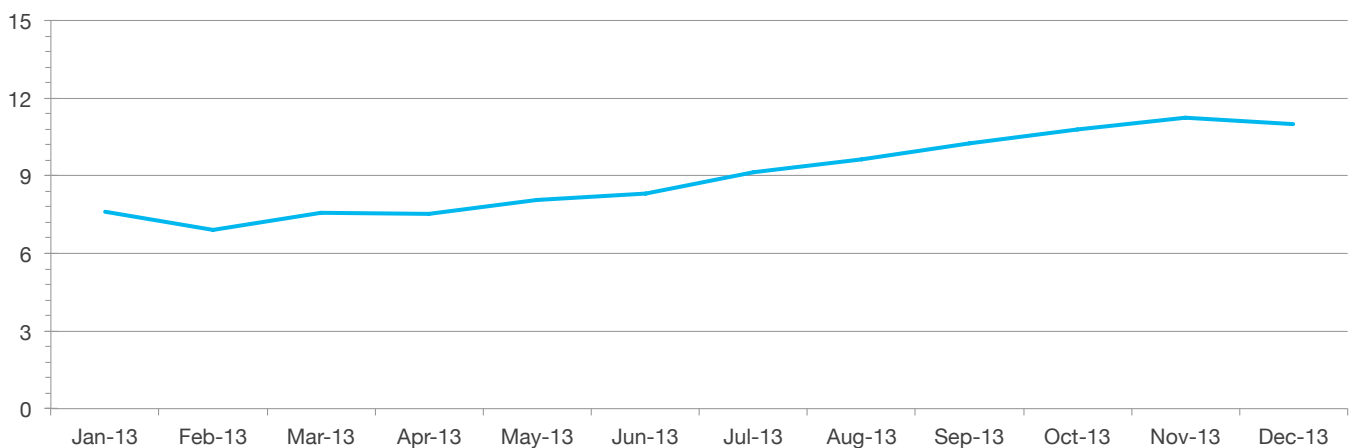
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LAC-IX Region

9/ Total aggregated traffic growth in the LAC-IX region (in Gbps)

The total aggregated peak traffic in the LAC-IX region has increased with 90% over the past 12 months, going from 167.5 Gbps in January to 318.4 Gbps in December. The numbers are based on data collected from 26 IXPs on average, over the public peering LAN. The number of IXPs we collected data from increased from 22 in January to 29 in December, with mostly the addition of several new exchange points opened by PTT.br in Brazil this year.
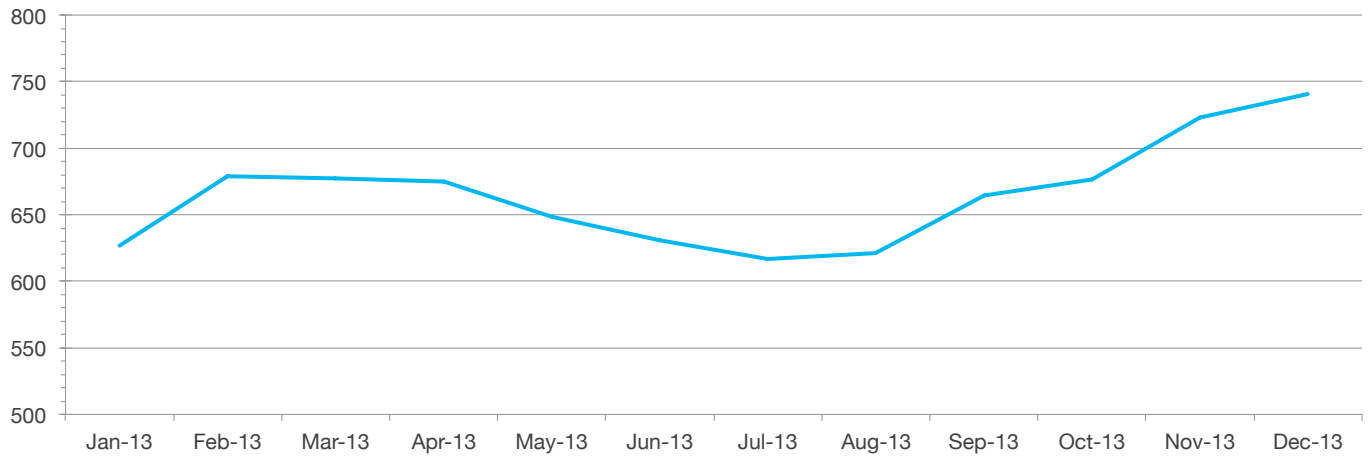
10/ Average peak traffic per IXP in the LAC-IX region (in Gbps)

The average peak traffic per IXP increased with 44.2% in the LAC-IX region in 2013, going from 7.6 Gbps to 11 Gbps. The traffic peaks ranged from 7 Mbps to 130 Gbps in January and from 1 Mbps to 247.2 Gbps in December.

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North America

11/ Total aggregated traffic growth in North America (in Gbps)

The total aggregated peak traffic in North America has increased with 18.1% over the past 12 months, going from 626.9 Gbps in January to 740.5 Gbps in December. The numbers are based on data collected from 7 IXPs on average, over the public peering LAN.

12/ Average peak traffic per IXP in North America (in Gbps)
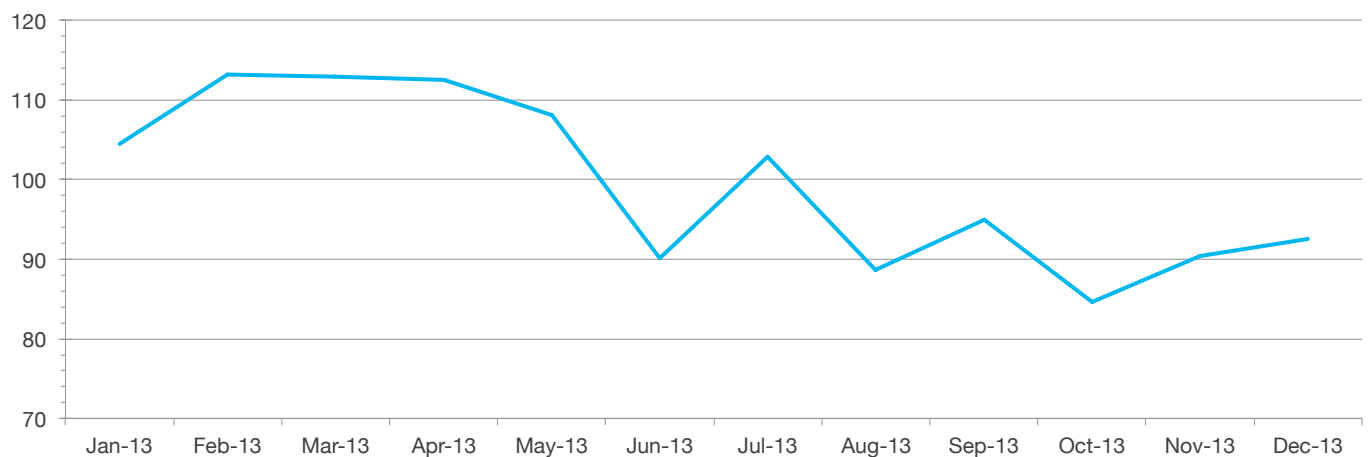
The average peak traffic per IXP decreased with 11.4% in North America last year, going from 104.5 Gbps to 92.6 Gbps. The traffic peaks ranged from 1.3 Mbps to 240 Gbps in January and from 1.4 Mbps to 230.4 Gbps in December.

Note: The number of IXPs we collect data from only went from 6 in January to 8 in December. We will continue to collect data from a larger number of IXPs in 2014 as for now there isn't enough public data available to get an accurate overview of the traffic exchanged there.