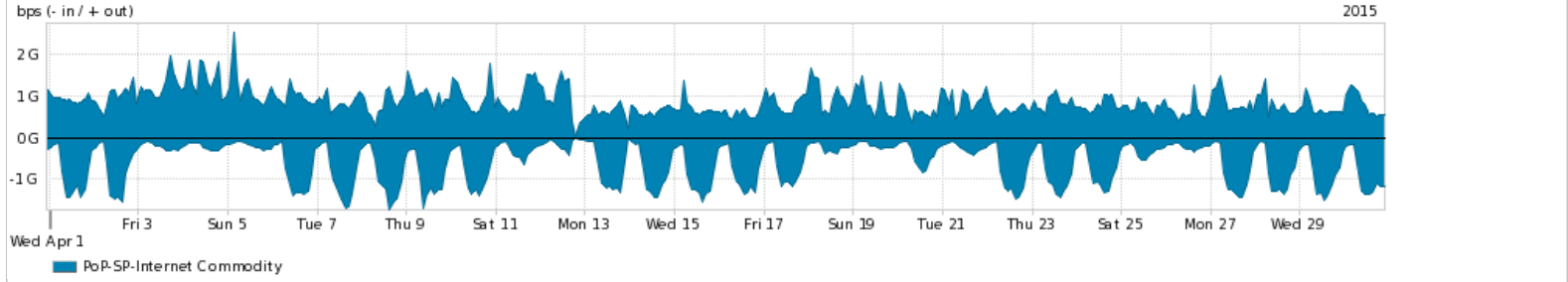


Os gráficos apresentados neste relatório de tráfego estão em formato stack, o que significa que seu valor é uma composição da soma dos componentes listados nas legendas localizadas logo abaixo dos gráficos. Os gráficos estão em "bps x tempo" e possuem dois eixos verticais, Out (positivo) e In (negativo).  
 A primeira coluna da tabela define o ponto de referência para entendimento dos valores de In e Out.  
 A contabilização do tráfego é sob o ponto de vista do AS da RNP, AS1916.

- Legenda:
- PoP - Ponto de presença da RNP
  - Parceiros - Provedores comerciais que a RNP mantém acordos de troca de tráfego
  - Internet Acadêmica - Acesso às redes acadêmicas internacionais, serviço atualmente provido pela RedClara
  - Internet commodity - Acesso pago à Internet global que é oferecido gratuitamente pela RNP aos seus clientes
  - ASN - Número do sistema autônomo
  - Profile - Objeto gerenciável definido arbitrariamente no Peakflow através de diversos parâmetros (ex: bloco cidr, peer-as, as-path, bgp community, interface, etc)

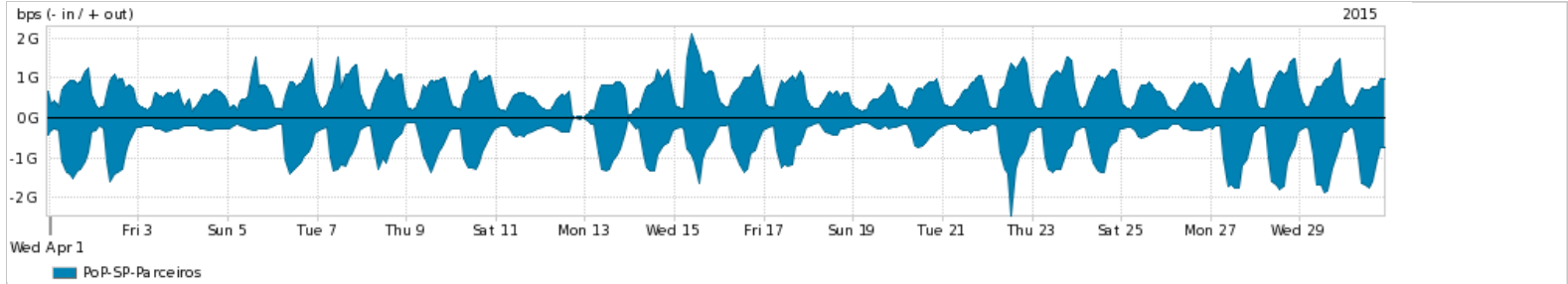
Utilização do serviço de Internet Commodity pelo PoP-SP



Average | Max | PCT95

| PROFILE                             | PROFILE | IN                 | OUT         | TOTAL       |           |
|-------------------------------------|---------|--------------------|-------------|-------------|-----------|
| <input checked="" type="checkbox"/> | PoP-SP  | Internet Commodity | 606.62 Mbps | 864.57 Mbps | 1.47 Gbps |

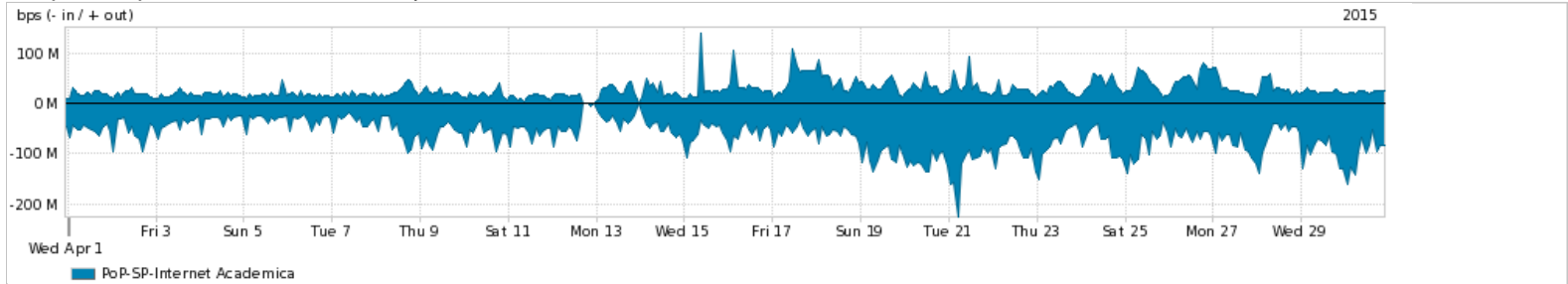
Utilização das trocas de tráfego comerciais no Brasil pelo PoP-SP



Average | Max | PCT95

| PROFILE                             | PROFILE | IN        | OUT         | TOTAL       |           |
|-------------------------------------|---------|-----------|-------------|-------------|-----------|
| <input checked="" type="checkbox"/> | PoP-SP  | Parceiros | 609.01 Mbps | 678.37 Mbps | 1.29 Gbps |

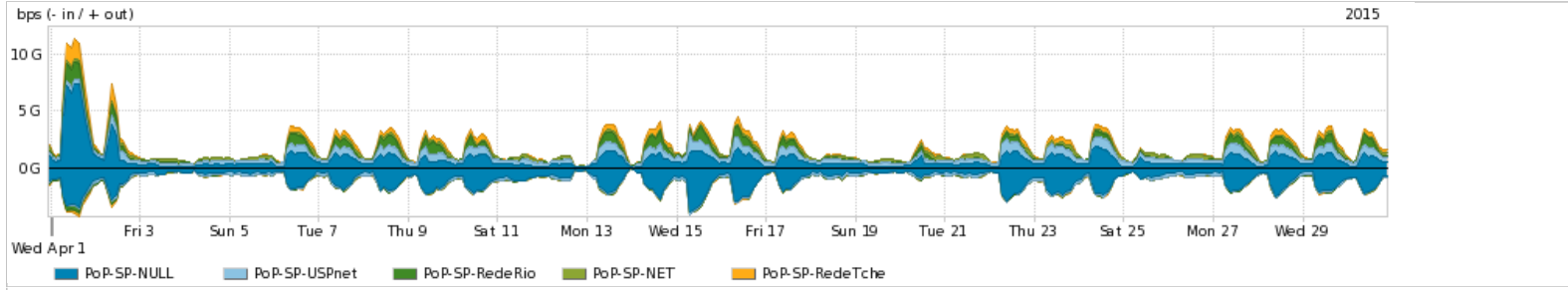
Utilização do serviço de Internet acadêmica internacional pelo PoP-SP



Average | Max | PCT95

| PROFILE                             | PROFILE | IN                 | OUT        | TOTAL      |            |
|-------------------------------------|---------|--------------------|------------|------------|------------|
| <input checked="" type="checkbox"/> | PoP-SP  | Internet Acadêmica | 63.98 Mbps | 28.05 Mbps | 92.03 Mbps |

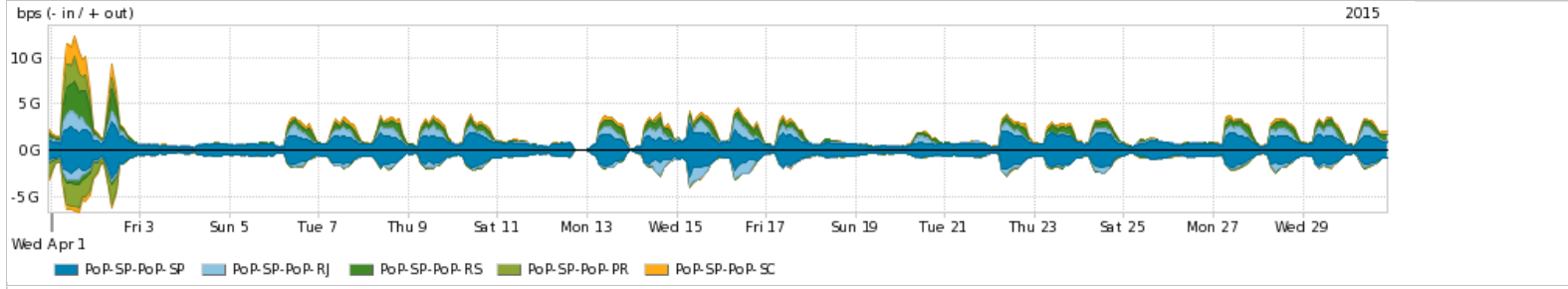
Redes (AS's de origem) mais acessadas pelo PoP-SP



Average | Max | PCT95

| PROFILE                             | AS NAME | ASN                     | IN    | OUT         | TOTAL       |             |
|-------------------------------------|---------|-------------------------|-------|-------------|-------------|-------------|
| <input checked="" type="checkbox"/> | PoP-SP  | NULL                    | 0     | 1.09 Gbps   | 713.32 Mbps | 1.81 Gbps   |
| <input checked="" type="checkbox"/> | PoP-SP  | USPnet                  | 28571 | 141.21 Mbps | 461.50 Mbps | 602.72 Mbps |
| <input checked="" type="checkbox"/> | PoP-SP  | RedeRio                 | 2715  | 21.31 Mbps  | 252.70 Mbps | 274.01 Mbps |
| <input checked="" type="checkbox"/> | PoP-SP  | NET                     | 28573 | 30.36 Mbps  | 197.39 Mbps | 227.75 Mbps |
| <input checked="" type="checkbox"/> | PoP-SP  | RedeTche                | 2716  | 11.88 Mbps  | 204.31 Mbps | 216.19 Mbps |
| <input type="checkbox"/>            | PoP-SP  | PoP-PR/RNP              | 10881 | 101.74 Mbps | 39.37 Mbps  | 141.11 Mbps |
| <input type="checkbox"/>            | PoP-SP  | ANSP                    | 1251  | 7.34 Mbps   | 104.04 Mbps | 111.37 Mbps |
| <input type="checkbox"/>            | PoP-SP  | AKAMAI-ASN1             | 20940 | 98.73 Mbps  | 5.55 Mbps   | 104.29 Mbps |
| <input type="checkbox"/>            | PoP-SP  | GOOGLE                  | 15169 | 65.19 Mbps  | 31.87 Mbps  | 97.06 Mbps  |
| <input type="checkbox"/>            | PoP-SP  | NTT-COMMUNICATIONS-2914 | 2914  | 91.25 Mbps  | 2.09 Mbps   | 93.33 Mbps  |

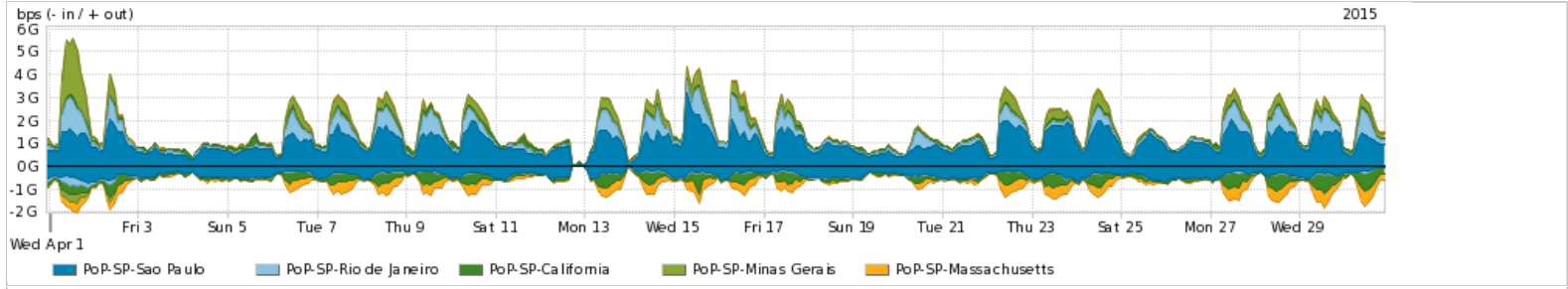
Interesse de tráfego do PoP-SP com os outros PoPs da RNP



Average | Max | PCT95

| PROFILE                             | PROFILE | IN     | OUT         | TOTAL       |             |
|-------------------------------------|---------|--------|-------------|-------------|-------------|
| <input checked="" type="checkbox"/> | PoP-SP  | PoP-SP | 929.69 Mbps | 929.69 Mbps | 1.86 Gbps   |
| <input checked="" type="checkbox"/> | PoP-SP  | PoP-RJ | 150.24 Mbps | 314.10 Mbps | 464.34 Mbps |
| <input checked="" type="checkbox"/> | PoP-SP  | PoP-RS | 23.55 Mbps  | 333.30 Mbps | 356.85 Mbps |
| <input checked="" type="checkbox"/> | PoP-SP  | PoP-PR | 109.86 Mbps | 97.39 Mbps  | 207.25 Mbps |
| <input checked="" type="checkbox"/> | PoP-SP  | PoP-SC | 20.21 Mbps  | 175.64 Mbps | 195.85 Mbps |
| <input type="checkbox"/>            | PoP-SP  | PoP-MG | 16.35 Mbps  | 114.00 Mbps | 130.35 Mbps |
| <input type="checkbox"/>            | PoP-SP  | PoP-DF | 15.04 Mbps  | 16.61 Mbps  | 31.65 Mbps  |
| <input type="checkbox"/>            | PoP-SP  | PoP-MT | 21.11 Mbps  | 9.70 Mbps   | 30.81 Mbps  |
| <input type="checkbox"/>            | PoP-SP  | PoP-MS | 6.69 Mbps   | 15.82 Mbps  | 22.51 Mbps  |
| <input type="checkbox"/>            | PoP-SP  | PoP-BA | 2.34 Mbps   | 19.70 Mbps  | 22.03 Mbps  |

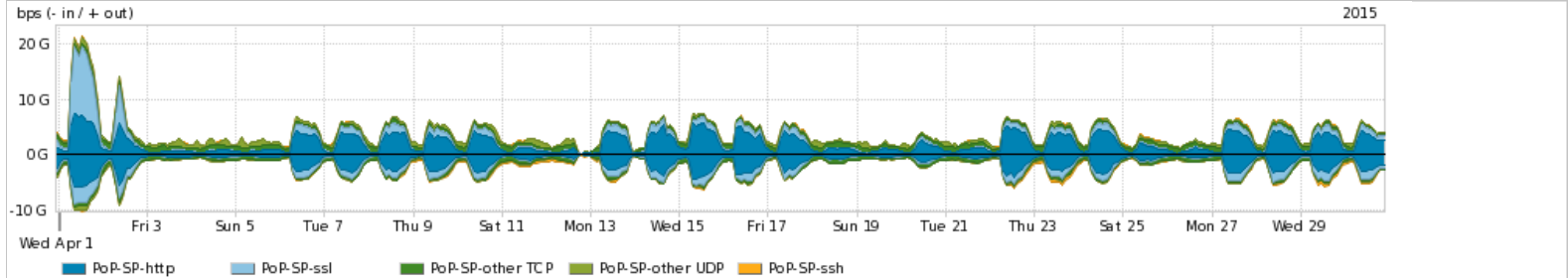
Distribuição do tráfego do PoP-SP por estado, província ou similar



Average | Max | PCT95

| PROFILE                             | REGION | IN                | OUT         | TOTAL       |             |
|-------------------------------------|--------|-------------------|-------------|-------------|-------------|
| <input checked="" type="checkbox"/> | PoP-SP | Sao Paulo         | 379.52 Mbps | 998.68 Mbps | 1.38 Gbps   |
| <input checked="" type="checkbox"/> | PoP-SP | Rio de Janeiro    | 29.92 Mbps  | 297.70 Mbps | 327.61 Mbps |
| <input checked="" type="checkbox"/> | PoP-SP | California        | 210.76 Mbps | 102.70 Mbps | 313.45 Mbps |
| <input checked="" type="checkbox"/> | PoP-SP | Minas Gerais      | 13.63 Mbps  | 204.89 Mbps | 218.53 Mbps |
| <input checked="" type="checkbox"/> | PoP-SP | Massachusetts     | 183.47 Mbps | 22.64 Mbps  | 206.11 Mbps |
| <input type="checkbox"/>            | PoP-SP | Rio Grande do Sul | 15.21 Mbps  | 166.13 Mbps | 181.33 Mbps |
| <input type="checkbox"/>            | PoP-SP | Santa Catarina    | 14.32 Mbps  | 116.82 Mbps | 131.14 Mbps |
| <input type="checkbox"/>            | PoP-SP | Colorado          | 115.77 Mbps | 4.15 Mbps   | 119.92 Mbps |
| <input type="checkbox"/>            | PoP-SP | Parana            | 18.71 Mbps  | 65.56 Mbps  | 84.27 Mbps  |
| <input type="checkbox"/>            | PoP-SP | Washington        | 56.99 Mbps  | 15.32 Mbps  | 72.31 Mbps  |
| <input type="checkbox"/>            | PoP-SP | Mato Grosso       | 46.28 Mbps  | 23.32 Mbps  | 69.59 Mbps  |
| <input type="checkbox"/>            | PoP-SP | Virginia          | 40.59 Mbps  | 12.20 Mbps  | 52.78 Mbps  |
| <input type="checkbox"/>            | PoP-SP | New York          | 33.51 Mbps  | 16.63 Mbps  | 50.14 Mbps  |
| <input type="checkbox"/>            | PoP-SP | Guangdong         | 161.81 Kbps | 49.77 Mbps  | 49.93 Mbps  |
| <input type="checkbox"/>            | PoP-SP | Texas             | 25.50 Mbps  | 18.04 Mbps  | 43.54 Mbps  |

Distribuição do tráfego do PoP-SP por aplicação (análise em camada 3 e 4)

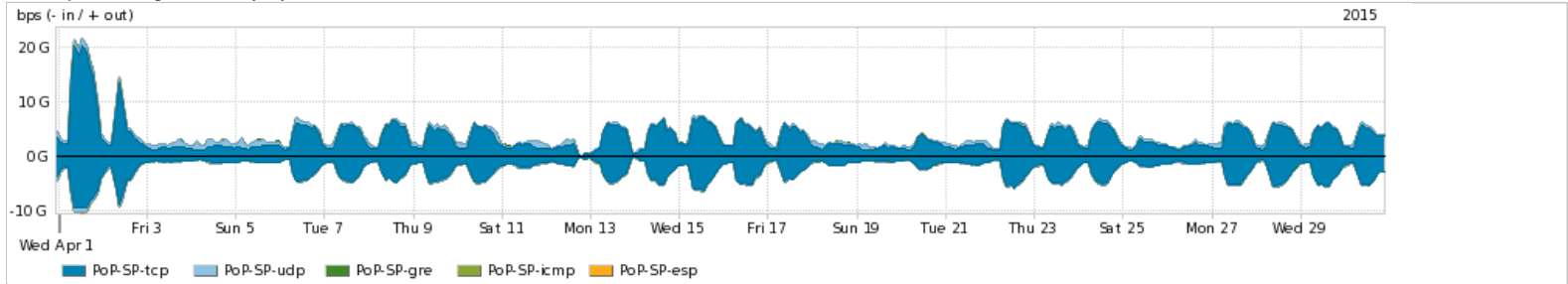


Average | Max | PCT95

| PROFILE                             | APPLICATION | IN        | OUT         | TOTAL       |             |
|-------------------------------------|-------------|-----------|-------------|-------------|-------------|
| <input checked="" type="checkbox"/> | PoP-SP      | http      | 1.36 Gbps   | 1.97 Gbps   | 3.32 Gbps   |
| <input checked="" type="checkbox"/> | PoP-SP      | ssl       | 524.90 Mbps | 686.69 Mbps | 1.21 Gbps   |
| <input checked="" type="checkbox"/> | PoP-SP      | other TCP | 461.99 Mbps | 640.69 Mbps | 1.10 Gbps   |
| <input checked="" type="checkbox"/> | PoP-SP      | other UDP | 141.09 Mbps | 452.17 Mbps | 593.26 Mbps |
| <input checked="" type="checkbox"/> | PoP-SP      | ssh       | 109.56 Mbps | 33.76 Mbps  | 143.32 Mbps |

| PROFILE                  | APPLICATION | IN             | OUT         | TOTAL      |            |
|--------------------------|-------------|----------------|-------------|------------|------------|
| <input type="checkbox"/> | PoP-SP      | rsync          | 87.18 Mbps  | 6.58 Mbps  | 93.76 Mbps |
| <input type="checkbox"/> | PoP-SP      | macromedia-fcs | 12.21 Mbps  | 31.26 Mbps | 43.47 Mbps |
| <input type="checkbox"/> | PoP-SP      | dns            | 3.74 Mbps   | 39.38 Mbps | 43.12 Mbps |
| <input type="checkbox"/> | PoP-SP      | ntp            | 3.95 Mbps   | 31.16 Mbps | 35.11 Mbps |
| <input type="checkbox"/> | PoP-SP      | rdp            | 313.44 Kbps | 20.17 Mbps | 20.49 Mbps |

Distribuição do tráfego do PoP-SP por protocolo



Average | Max | PCT95

| PROFILE                             | PROTOCOL | IN        | OUT         | TOTAL       |             |
|-------------------------------------|----------|-----------|-------------|-------------|-------------|
| <input checked="" type="checkbox"/> | PoP-SP   | tcp       | 2.57 Gbps   | 3.41 Gbps   | 5.98 Gbps   |
| <input checked="" type="checkbox"/> | PoP-SP   | udp       | 149.52 Mbps | 516.75 Mbps | 666.27 Mbps |
| <input checked="" type="checkbox"/> | PoP-SP   | gre       | 2.14 Mbps   | 5.87 Mbps   | 8.01 Mbps   |
| <input checked="" type="checkbox"/> | PoP-SP   | icmp      | 2.44 Mbps   | 4.11 Mbps   | 6.54 Mbps   |
| <input checked="" type="checkbox"/> | PoP-SP   | esp       | 936.02 Kbps | 519.13 Kbps | 1.46 Mbps   |
| <input type="checkbox"/>            | PoP-SP   | ipv6      | 164.92 Kbps | 929.31 Kbps | 1.09 Mbps   |
| <input type="checkbox"/>            | PoP-SP   | pim       | 54.58 Kbps  | 743.00 bps  | 55.32 Kbps  |
| <input type="checkbox"/>            | PoP-SP   | ah        | 25.35 Kbps  | 25.41 Kbps  | 50.75 Kbps  |
| <input type="checkbox"/>            | PoP-SP   | ipv6-icmp | 37.57 Kbps  | 3.46 Kbps   | 41.03 Kbps  |
| <input type="checkbox"/>            | PoP-SP   | 254       | 865.00 bps  | 811.00 bps  | 1.68 Kbps   |

For assistance with this product, please contact [support@arbornetworks.com](mailto:support@arbornetworks.com).