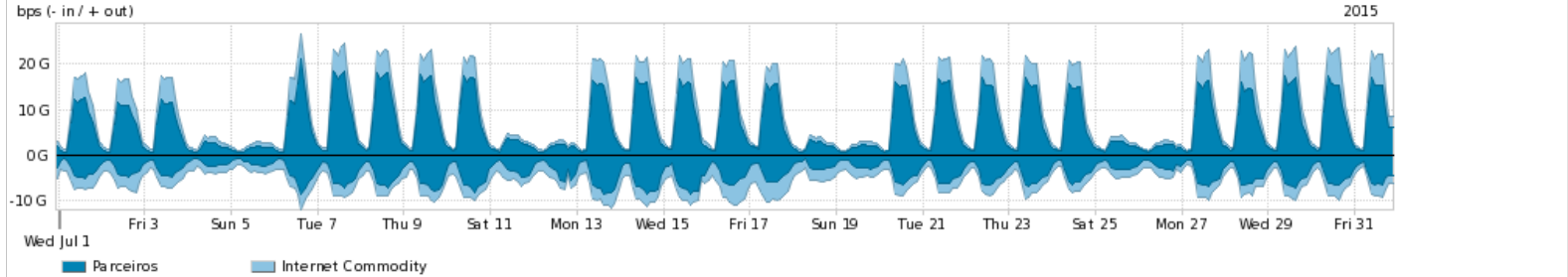


Os gráficos apresentados neste relatório de tráfego estão em formato stack, o que significa que seu valor é uma composição da soma dos componentes listados nas legendas localizadas logo abaixo dos gráficos. Os gráficos estão em "bps x tempo" e possuem dois eixos verticais, Out (positivo) e In (negativo).
 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 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)

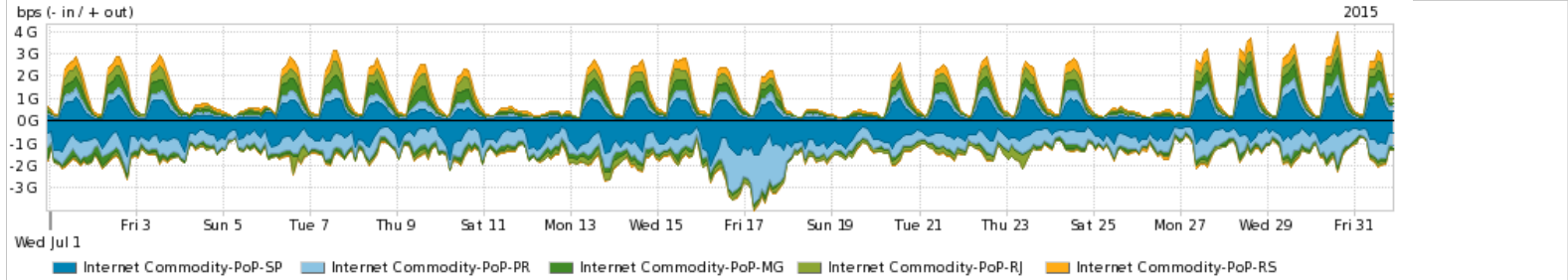
Tráfego agregado dos acessos comerciais da RNP



Average | Max | PCT95

| PROFILE | IN | OUT | TOTAL |
|--|----|-----------|-----------|
| <input checked="" type="checkbox"/> Parceiros | | 3.81 Gbps | 6.52 Gbps |
| <input checked="" type="checkbox"/> Internet Commodity | | 2.25 Gbps | 2.36 Gbps |

Utilização do serviço de Internet Commodity pelos PoPs da RNP

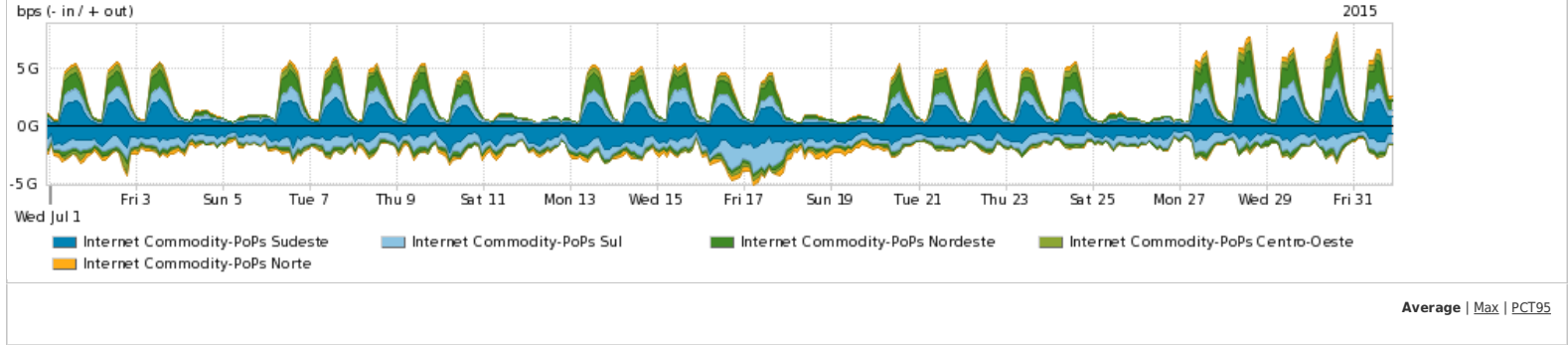


Average | Max | PCT95

| PROFILE | PROFILE | IN | OUT | TOTAL |
|-------------------------------------|--------------------|--------|-------------|-------------|
| <input checked="" type="checkbox"/> | Internet Commodity | PoP-SP | 750.33 Mbps | 392.72 Mbps |
| <input checked="" type="checkbox"/> | Internet Commodity | PoP-PR | 566.77 Mbps | 161.63 Mbps |
| <input checked="" type="checkbox"/> | Internet Commodity | PoP-MG | 131.31 Mbps | 219.99 Mbps |
| <input checked="" type="checkbox"/> | Internet Commodity | PoP-RJ | 120.15 Mbps | 196.98 Mbps |
| <input checked="" type="checkbox"/> | Internet Commodity | PoP-RS | 43.69 Mbps | 202.95 Mbps |
| <input type="checkbox"/> | Internet Commodity | PoP-SC | 74.49 Mbps | 118.92 Mbps |
| <input type="checkbox"/> | Internet Commodity | PoP-DF | 51.10 Mbps | 127.79 Mbps |
| <input type="checkbox"/> | Internet Commodity | PoP-PA | 118.16 Mbps | 35.26 Mbps |
| <input type="checkbox"/> | Internet Commodity | PoP-CE | 26.01 Mbps | 118.19 Mbps |
| <input type="checkbox"/> | Internet Commodity | PoP-PE | 39.18 Mbps | 89.21 Mbps |
| <input type="checkbox"/> | Internet Commodity | PoP-PB | 66.69 Mbps | 51.82 Mbps |
| <input type="checkbox"/> | Internet Commodity | PoP-RN | 7.18 Mbps | 104.09 Mbps |

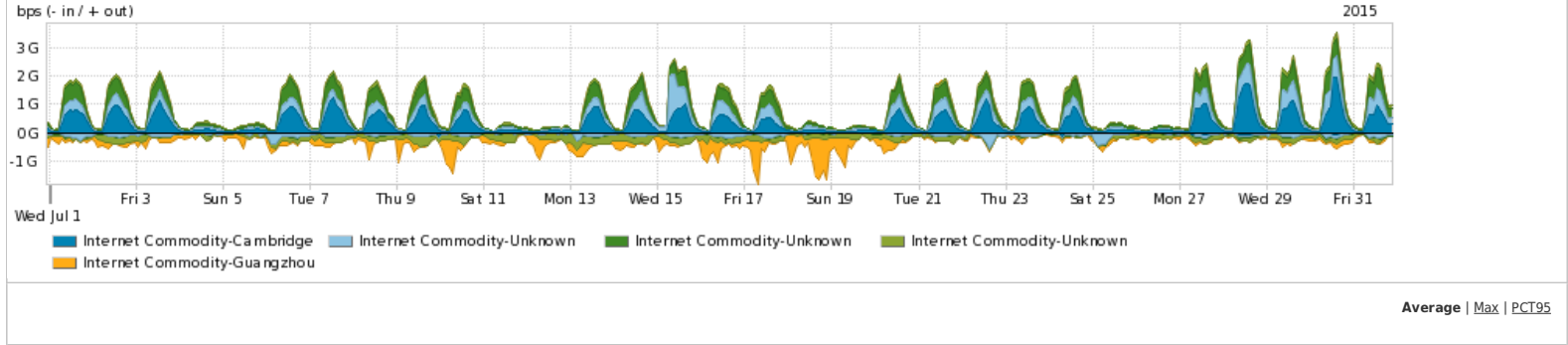
| PROFILE | PROFILE | IN | OUT | TOTAL | |
|--------------------------|--------------------|--------|------------|------------|-------------|
| <input type="checkbox"/> | Internet Commodity | PoP-BA | 23.27 Mbps | 82.70 Mbps | 105.97 Mbps |
| <input type="checkbox"/> | Internet Commodity | PoP-GO | 56.69 Mbps | 38.70 Mbps | 95.40 Mbps |
| <input type="checkbox"/> | Internet Commodity | PoP-ES | 47.15 Mbps | 47.67 Mbps | 94.82 Mbps |

Utilização do serviço de Internet Commodity pelos PoPs da RNP agrupados por região



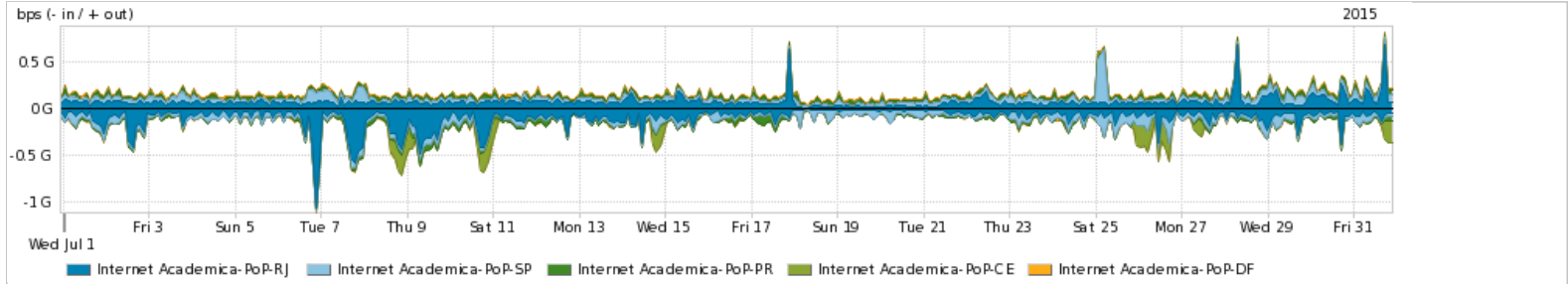
| PROFILE | PROFILE | IN | OUT | TOTAL | |
|-------------------------------------|--------------------|-------------------|-------------|-------------|-------------|
| <input checked="" type="checkbox"/> | Internet Commodity | PoPs Sudeste | 1.05 Gbps | 857.35 Mbps | 1.91 Gbps |
| <input checked="" type="checkbox"/> | Internet Commodity | PoPs Sul | 684.94 Mbps | 483.49 Mbps | 1.17 Gbps |
| <input checked="" type="checkbox"/> | Internet Commodity | PoPs Nordeste | 200.89 Mbps | 601.94 Mbps | 802.84 Mbps |
| <input checked="" type="checkbox"/> | Internet Commodity | PoPs Centro-Oeste | 130.68 Mbps | 206.29 Mbps | 336.97 Mbps |
| <input checked="" type="checkbox"/> | Internet Commodity | PoPs Norte | 138.41 Mbps | 135.40 Mbps | 273.81 Mbps |

Interesse de tráfego do serviço de Internet Commodity por cidade



| PROFILE | CITY | IN | OUT | TOTAL | |
|-------------------------------------|--------------------|---------------|-------------|-------------|-------------|
| <input checked="" type="checkbox"/> | Internet Commodity | Cambridge | 19.23 Mbps | 319.35 Mbps | 338.58 Mbps |
| <input checked="" type="checkbox"/> | Internet Commodity | Unknown | 74.79 Mbps | 191.77 Mbps | 266.56 Mbps |
| <input checked="" type="checkbox"/> | Internet Commodity | Unknown | 14.85 Mbps | 231.82 Mbps | 246.66 Mbps |
| <input checked="" type="checkbox"/> | Internet Commodity | Unknown | 135.45 Mbps | 73.19 Mbps | 208.64 Mbps |
| <input checked="" type="checkbox"/> | Internet Commodity | Guangzhou | 146.44 Mbps | 638.14 Kbps | 147.08 Mbps |
| <input type="checkbox"/> | Internet Commodity | Unknown | 3.78 Mbps | 110.96 Mbps | 114.74 Mbps |
| <input type="checkbox"/> | Internet Commodity | Englewood | 1.84 Mbps | 101.11 Mbps | 102.94 Mbps |
| <input type="checkbox"/> | Internet Commodity | Seattle | 11.88 Mbps | 85.44 Mbps | 97.32 Mbps |
| <input type="checkbox"/> | Internet Commodity | San Francisco | 26.22 Mbps | 55.59 Mbps | 81.81 Mbps |
| <input type="checkbox"/> | Internet Commodity | Buenos Aires | 61.07 Mbps | 19.48 Mbps | 80.55 Mbps |

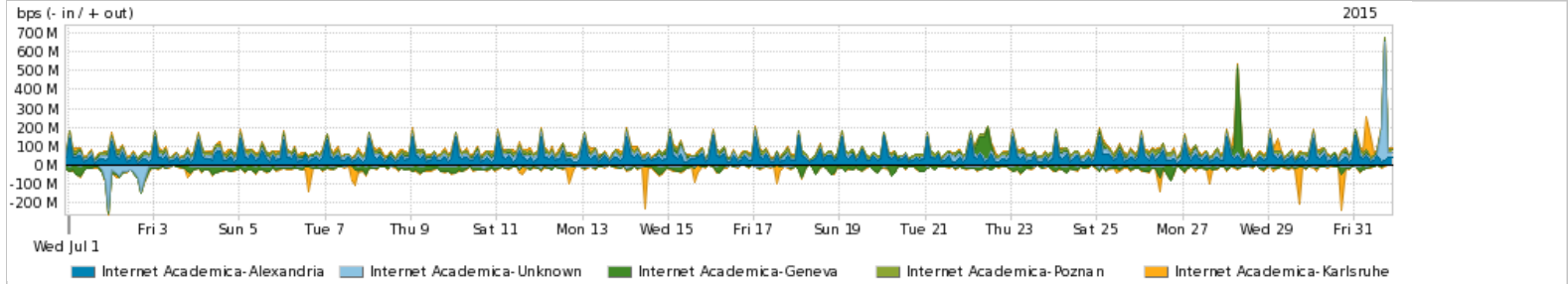
Distribuição do uso do serviço de Internet acadêmica internacional pelos PoPs da RNP



Average | Max | PCT95

| PROFILE | PROFILE | IN | OUT | TOTAL | |
|-------------------------------------|--------------------|--------|-------------|-------------|-------------|
| <input checked="" type="checkbox"/> | Internet Acadêmica | PoP-RJ | 97.14 Mbps | 71.44 Mbps | 168.58 Mbps |
| <input checked="" type="checkbox"/> | Internet Acadêmica | PoP-SP | 50.10 Mbps | 46.38 Mbps | 96.47 Mbps |
| <input checked="" type="checkbox"/> | Internet Acadêmica | PoP-PR | 18.79 Mbps | 20.12 Mbps | 38.91 Mbps |
| <input checked="" type="checkbox"/> | Internet Acadêmica | PoP-CE | 16.27 Mbps | 4.70 Mbps | 20.97 Mbps |
| <input checked="" type="checkbox"/> | Internet Acadêmica | PoP-DF | 1.42 Mbps | 16.05 Mbps | 17.47 Mbps |
| <input type="checkbox"/> | Internet Acadêmica | PoP-RS | 1.42 Mbps | 9.95 Mbps | 11.37 Mbps |
| <input type="checkbox"/> | Internet Acadêmica | PoP-MG | 1.87 Mbps | 5.66 Mbps | 7.53 Mbps |
| <input type="checkbox"/> | Internet Acadêmica | PoP-BA | 302.22 Kbps | 7.16 Mbps | 7.46 Mbps |
| <input type="checkbox"/> | Internet Acadêmica | PoP-SC | 1.55 Mbps | 5.28 Mbps | 6.84 Mbps |
| <input type="checkbox"/> | Internet Acadêmica | PoP-PB | 382.46 Kbps | 1.86 Mbps | 2.24 Mbps |
| <input type="checkbox"/> | Internet Acadêmica | PoP-ES | 684.87 Kbps | 1.20 Mbps | 1.89 Mbps |
| <input type="checkbox"/> | Internet Acadêmica | PoP-PE | 691.15 Kbps | 1.13 Mbps | 1.82 Mbps |
| <input type="checkbox"/> | Internet Acadêmica | PoP-GO | 339.89 Kbps | 1.04 Mbps | 1.38 Mbps |
| <input type="checkbox"/> | Internet Acadêmica | PoP-RN | 37.35 Kbps | 1.07 Mbps | 1.11 Mbps |
| <input type="checkbox"/> | Internet Acadêmica | PoP-PA | 124.31 Kbps | 970.28 Kbps | 1.09 Mbps |

Interesse de trafego do serviço de Internet acadêmica internacional por cidades

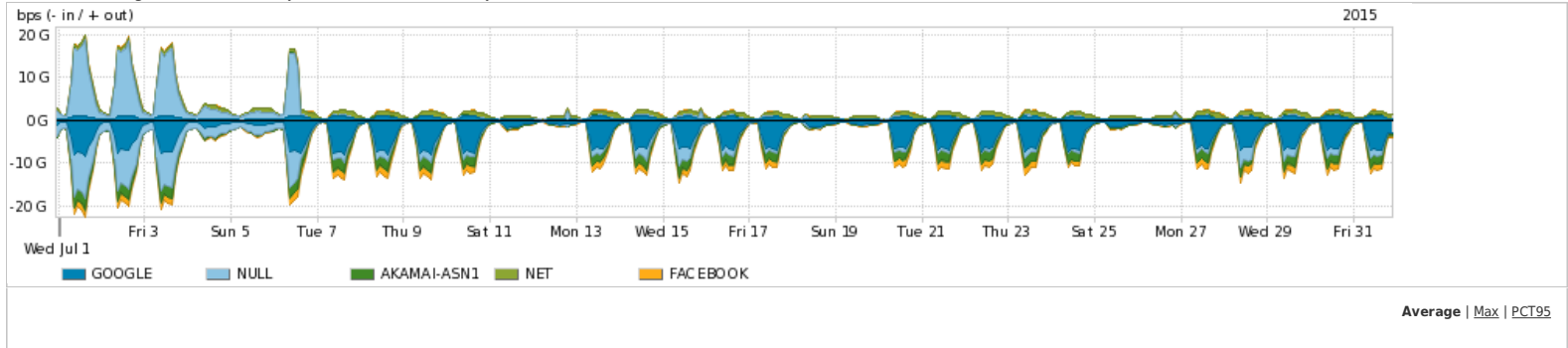


Average | Max | PCT95

| PROFILE | CITY | IN | OUT | TOTAL | |
|-------------------------------------|--------------------|------------|-------------|------------|------------|
| <input checked="" type="checkbox"/> | Internet Acadêmica | Alexandria | 559.31 Kbps | 40.52 Mbps | 41.08 Mbps |
| <input checked="" type="checkbox"/> | Internet Acadêmica | Unknown | 9.15 Mbps | 14.69 Mbps | 23.84 Mbps |
| <input checked="" type="checkbox"/> | Internet Acadêmica | Geneva | 13.92 Mbps | 5.87 Mbps | 19.79 Mbps |
| <input checked="" type="checkbox"/> | Internet Acadêmica | Poznan | 182.22 Kbps | 14.65 Mbps | 14.83 Mbps |
| <input checked="" type="checkbox"/> | Internet Acadêmica | Karlsruhe | 7.12 Mbps | 6.93 Mbps | 14.04 Mbps |

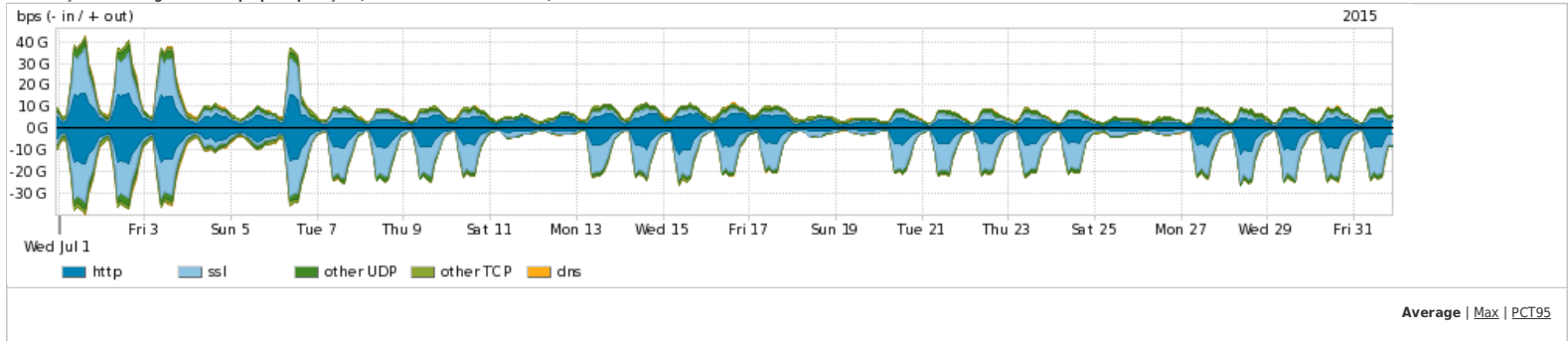
| PROFILE | CITY | IN | OUT | TOTAL | |
|--------------------------|--------------------|-------------|-------------|------------|------------|
| <input type="checkbox"/> | Internet Academica | Cern | 12.30 Mbps | 1.69 Mbps | 13.99 Mbps |
| <input type="checkbox"/> | Internet Academica | Boulder | 546.27 Kbps | 11.30 Mbps | 11.85 Mbps |
| <input type="checkbox"/> | Internet Academica | Nashville | 3.56 Mbps | 6.55 Mbps | 10.11 Mbps |
| <input type="checkbox"/> | Internet Academica | Appleton | 6.21 Mbps | 3.86 Mbps | 10.07 Mbps |
| <input type="checkbox"/> | Internet Academica | Charlestown | 9.92 Mbps | 1.79 Kbps | 9.93 Mbps |

Redes (AS's de origem) mais acessadas pelos clientes da RNP sob o ponto de vista do AS1916



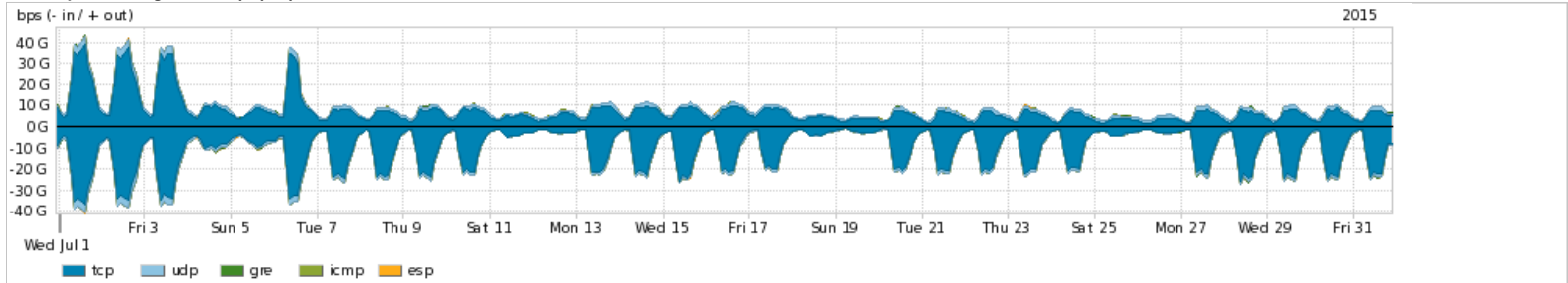
| AS NAME | ASN | IN | OUT | TOTAL | |
|---|-----|-------|-------------|-------------|-------------|
| <input checked="" type="checkbox"/> GOOGLE | | 15169 | 2.93 Gbps | 422.58 Mbps | 3.35 Gbps |
| <input checked="" type="checkbox"/> NULL | | 0 | 1.17 Gbps | 1.09 Gbps | 2.26 Gbps |
| <input checked="" type="checkbox"/> AKAMAI-ASN1 | | 20940 | 789.76 Mbps | 26.48 Mbps | 816.24 Mbps |
| <input checked="" type="checkbox"/> NET | | 28573 | 83.90 Mbps | 725.78 Mbps | 809.68 Mbps |
| <input checked="" type="checkbox"/> FACEBOOK | | 32934 | 588.08 Mbps | 63.34 Mbps | 651.42 Mbps |
| <input type="checkbox"/> OVH | | 16276 | 127.95 Mbps | 311.41 Mbps | 439.36 Mbps |
| <input type="checkbox"/> PoP-PR/RNP | | 10881 | 353.75 Mbps | 62.42 Mbps | 416.16 Mbps |
| <input type="checkbox"/> AMAZON-02 | | 16509 | 253.50 Mbps | 85.30 Mbps | 338.80 Mbps |
| <input type="checkbox"/> AMAZON-AES | | 14618 | 151.15 Mbps | 186.56 Mbps | 337.71 Mbps |
| <input type="checkbox"/> Microsoft-MSN-AS | | 8075 | 155.83 Mbps | 175.35 Mbps | 331.18 Mbps |
| <input type="checkbox"/> Oi | | 7738 | 28.57 Mbps | 261.19 Mbps | 289.76 Mbps |
| <input type="checkbox"/> DCLUX | | 24611 | 226.36 Mbps | 14.25 Mbps | 240.61 Mbps |
| <input type="checkbox"/> TELESP | | 27699 | 34.20 Mbps | 194.95 Mbps | 229.15 Mbps |
| <input type="checkbox"/> MSDTL | | 28598 | 189.12 Mbps | 3.46 Mbps | 192.59 Mbps |
| <input type="checkbox"/> SOFTLAYER | | 36351 | 175.63 Mbps | 14.01 Mbps | 189.64 Mbps |

Distribuição do tráfego da rede Ipê por aplicação (análise nas camadas 3 e 4)



| | APPLICATION | IN | OUT | TOTAL | |
|-------------------------------------|----------------|----|-------------|-------------|-------------|
| <input checked="" type="checkbox"/> | http | | 4.25 Gbps | 3.96 Gbps | 8.22 Gbps |
| <input checked="" type="checkbox"/> | ssl | | 5.32 Gbps | 2.01 Gbps | 7.34 Gbps |
| <input checked="" type="checkbox"/> | other UDP | | 812.96 Mbps | 1.18 Gbps | 1.99 Gbps |
| <input checked="" type="checkbox"/> | other TCP | | 578.58 Mbps | 820.53 Mbps | 1.40 Gbps |
| <input checked="" type="checkbox"/> | dns | | 87.31 Mbps | 117.17 Mbps | 204.47 Mbps |
| <input type="checkbox"/> | macromedia-fcs | | 77.66 Mbps | 66.16 Mbps | 143.82 Mbps |
| <input type="checkbox"/> | ntp | | 19.63 Mbps | 72.77 Mbps | 92.40 Mbps |
| <input type="checkbox"/> | rsync | | 35.92 Mbps | 34.60 Mbps | 70.52 Mbps |
| <input type="checkbox"/> | smtp | | 39.87 Mbps | 28.28 Mbps | 68.15 Mbps |
| <input type="checkbox"/> | ssh | | 31.27 Mbps | 35.27 Mbps | 66.54 Mbps |

Distribuição do tráfego da rede Ipê por protocolo



Average | Max | PCT95

| | PROTOCOL | IN | OUT | TOTAL | |
|-------------------------------------|-----------|----|-------------|-------------|-------------|
| <input checked="" type="checkbox"/> | tcp | | 10.46 Gbps | 7.11 Gbps | 17.57 Gbps |
| <input checked="" type="checkbox"/> | udp | | 888.67 Mbps | 1.38 Gbps | 2.27 Gbps |
| <input checked="" type="checkbox"/> | gre | | 13.63 Mbps | 31.82 Mbps | 45.45 Mbps |
| <input checked="" type="checkbox"/> | icmp | | 5.84 Mbps | 34.18 Mbps | 40.02 Mbps |
| <input checked="" type="checkbox"/> | esp | | 13.35 Mbps | 13.13 Mbps | 26.48 Mbps |
| <input type="checkbox"/> | ipv6 | | 2.89 Mbps | 2.54 Mbps | 5.44 Mbps |
| <input type="checkbox"/> | ah | | 551.80 Kbps | 756.31 Kbps | 1.31 Mbps |
| <input type="checkbox"/> | 255 | | 129.30 Kbps | 129.26 Kbps | 258.56 Kbps |
| <input type="checkbox"/> | ipv6-icmp | | 66.82 Kbps | 30.42 Kbps | 97.24 Kbps |
| <input type="checkbox"/> | pim | | 47.98 Kbps | 169.00 bps | 48.15 Kbps |

For assistance with this product, please contact support@arbornetworks.com.