# Arbor Networks® SP

Os gráficos apresentados neste relatório de trafego 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
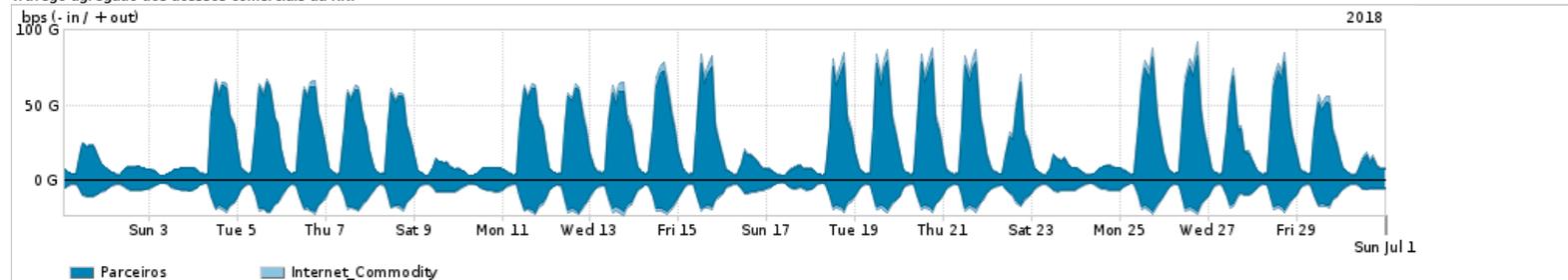
Average | Max | PCT95

	PROFILE	IN	OUT	TOTAL
X	Parceiros	9.44 Gbps	24.17 Gbps	33.61 Gbps
X	Internet_Commodity	1.17 Gbps	1.79 Gbps	2.96 Gbps

**Utilização do serviço de Internet Commodity pelos PoPs da RNP**
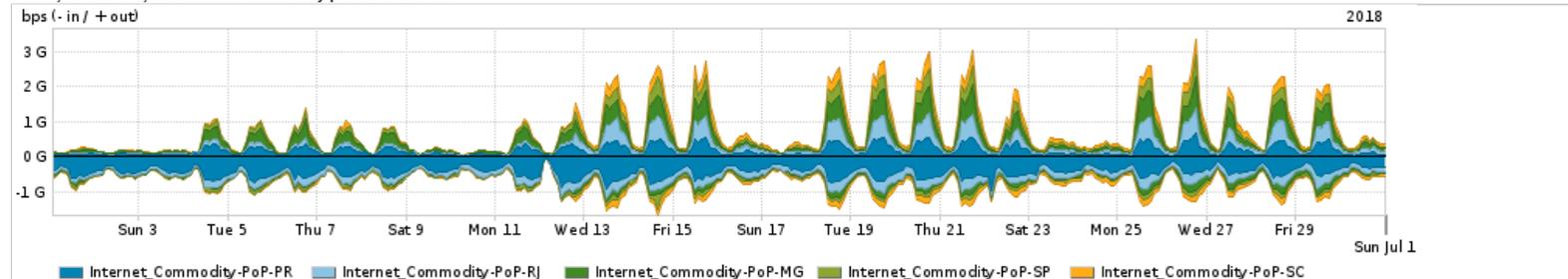
Average | Max | PCT95

	PROFILE	PROFILE	IN	OUT	TOTAL
X	Internet_Commodity	PoP-PR	439.85 Mbps	159.40 Mbps	599.24 Mbps
X	Internet_Commodity	PoP-RJ	157.26 Mbps	150.09 Mbps	307.35 Mbps
X	Internet_Commodity	PoP-MG	57.39 Mbps	192.70 Mbps	250.09 Mbps
X	Internet_Commodity	PoP-SP	60.80 Mbps	112.04 Mbps	172.84 Mbps
X	Internet_Commodity	PoP-SC	63.64 Mbps	107.14 Mbps	170.78 Mbps
	Internet_Commodity	PoP-RS	25.52 Mbps	124.42 Mbps	149.94 Mbps
	Internet_Commodity	PoP-BA	80.52 Mbps	56.46 Mbps	136.99 Mbps
	Internet_Commodity	PoP-DF	50.68 Mbps	71.22 Mbps	121.90 Mbps
	Internet_Commodity	PoP-PE	39.95 Mbps	68.63 Mbps	108.59 Mbps
	Internet_Commodity	PoP-PA	11.91 Mbps	73.74 Mbps	85.65 Mbps
	Internet_Commodity	PoP-RN	27.91 Mbps	57.44 Mbps	85.35 Mbps

	PROFILE	PROFILE	IN	OUT	TOTAL
	Internet_Commodity	PoP-CE	18.95 Mbps	63.89 Mbps	82.84 Mbps
	Internet_Commodity	PoP-PB	20.28 Mbps	53.21 Mbps	73.50 Mbps
	Internet_Commodity	PoP-GO	13.61 Mbps	48.43 Mbps	62.04 Mbps
	Internet_Commodity	PoP-ES	20.42 Mbps	36.72 Mbps	57.14 Mbps

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

Average | Max | PCT95
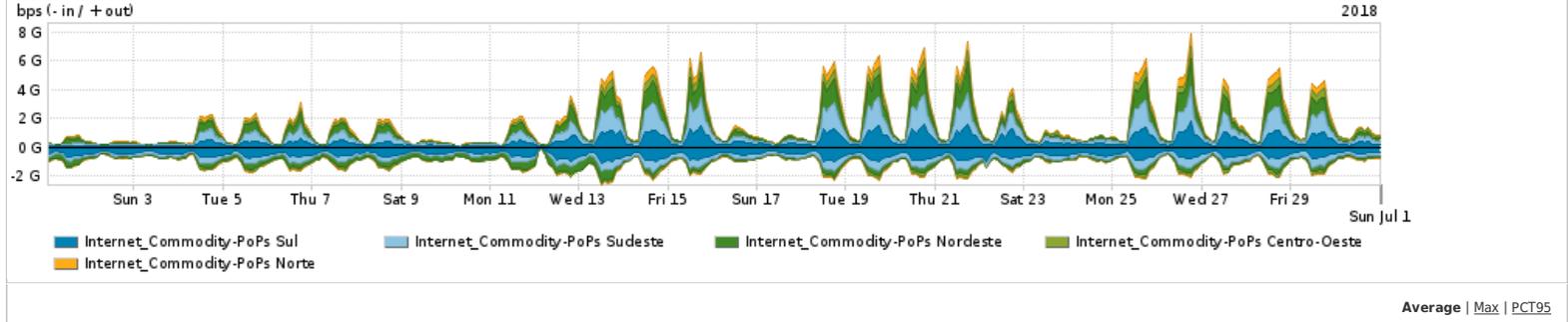
	PROFILE	PROFILE	IN	OUT	TOTAL
X	Internet_Commodity	PoPs Sul	529.01 Mbps	390.96 Mbps	919.96 Mbps
X	Internet_Commodity	PoPs Sudeste	295.87 Mbps	491.55 Mbps	787.42 Mbps
X	Internet_Commodity	PoPs Nordeste	213.66 Mbps	403.42 Mbps	617.07 Mbps
X	Internet_Commodity	PoPs Centro-Oeste	82.63 Mbps	165.28 Mbps	247.91 Mbps
X	Internet_Commodity	PoPs Norte	35.63 Mbps	160.57 Mbps	196.19 Mbps

Interesse de tráfego do serviço de Internet Commodity por cidade

Average | Max | PCT95
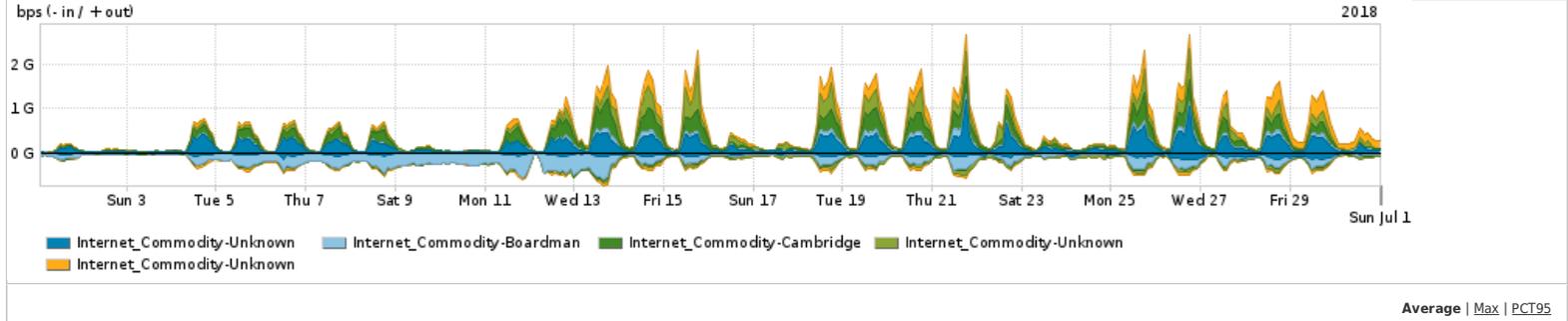
|	PROFILE	CITY	IN	OUT	TOTAL
X	Internet_Commodity	Unknown	39.38 Mbps	147.43 Mbps	186.81 Mbps
X	Internet_Commodity	Boardman	129.38 Mbps	25.22 Mbps	154.60 Mbps
X	Internet_Commodity	Cambridge	11.14 Mbps	123.03 Mbps	134.17 Mbps
X	Internet_Commodity	Unknown	29.64 Mbps	93.11 Mbps	122.75 Mbps
X	Internet_Commodity	Unknown	17.80 Mbps	98.01 Mbps	115.81 Mbps
	Internet_Commodity	Seattle	6.97 Mbps	105.13 Mbps	112.09 Mbps
	Internet_Commodity	Unknown	13.84 Mbps	72.20 Mbps	86.04 Mbps
	Internet_Commodity	Ashburn	8.93 Mbps	75.57 Mbps	84.50 Mbps
	Internet_Commodity	Unknown	7.42 Mbps	66.07 Mbps	73.49 Mbps

	PROFILE	CITY	IN	OUT	TOTAL
	Internet_Commodity	Unknown	12.07 Mbps	42.16 Mbps	54.24 Mbps

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

Legend: Internet_Academica-PoP-SP | Internet_Academica-PoP-RJ | Internet_Academica-PoP-PR | Internet_Academica-PoP-SC | Internet_Academica-PoP-MG

Average | Max | PCT95
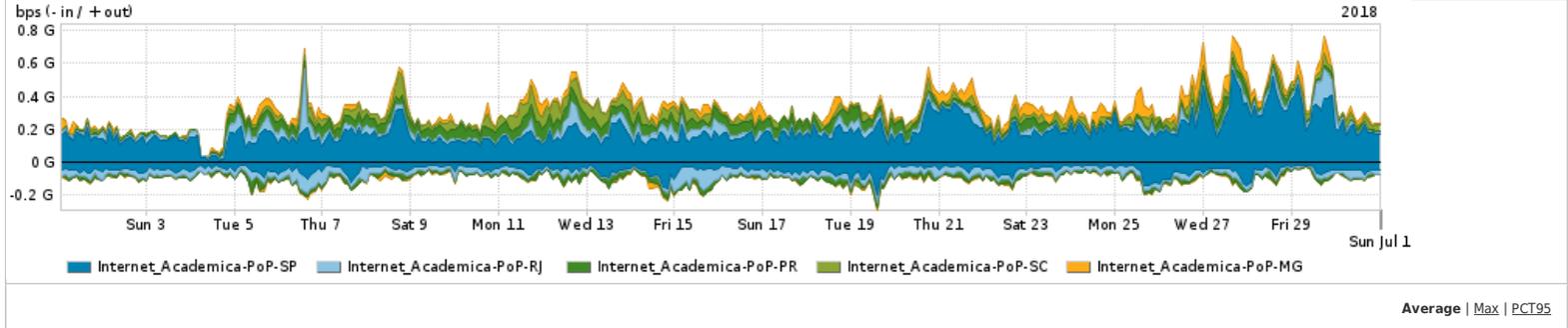
	PROFILE	PROFILE	IN	OUT	TOTAL
X	Internet_Academica	PoP-SP	49.00 Mbps	186.55 Mbps	235.55 Mbps
X	Internet_Academica	PoP-RJ	33.64 Mbps	29.67 Mbps	63.31 Mbps
X	Internet_Academica	PoP-PR	17.02 Mbps	43.08 Mbps	60.10 Mbps
X	Internet_Academica	PoP-SC	2.78 Mbps	32.94 Mbps	35.72 Mbps
X	Internet_Academica	PoP-MG	3.15 Mbps	30.70 Mbps	33.85 Mbps
	Internet_Academica	PoP-RS	1.67 Mbps	25.19 Mbps	26.86 Mbps
	Internet_Academica	PoP-PA	1.12 Mbps	18.89 Mbps	20.01 Mbps
	Internet_Academica	PoP-DF	2.52 Mbps	11.32 Mbps	13.85 Mbps
	Internet_Academica	PoP-CE	1.44 Mbps	6.46 Mbps	7.90 Mbps
	Internet_Academica	PoP-PE	564.59 Kbps	5.10 Mbps	5.66 Mbps
	Internet_Academica	PoP-ES	874.98 Kbps	4.06 Mbps	4.94 Mbps
	Internet_Academica	PoP-RN	735.58 Kbps	2.91 Mbps	3.64 Mbps
	Internet_Academica	PoP-BA	571.18 Kbps	2.81 Mbps	3.38 Mbps
	Internet_Academica	PoP-GO	295.59 Kbps	2.10 Mbps	2.39 Mbps
	Internet_Academica	PoP-PB	407.21 Kbps	1.43 Mbps	1.84 Mbps

Interesse de trafego do serviço de Internet acadêmica internacional por cidades

Legend: Internet_Academica-Cypress | Internet_Academica-Boulder | Internet_Academica-Unknown | Internet_Academica-Potomac | Internet_Academica-Huntsville

Average | Max | PCT95
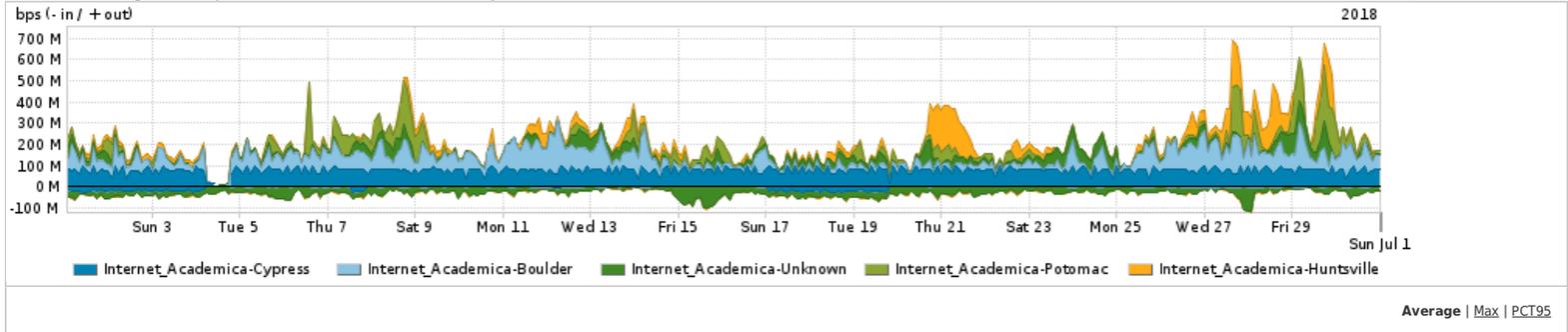
	PROFILE	CITY	IN	OUT	TOTAL
X	Internet_Academica	Cypress	4.07 Mbps	75.62 Mbps	79.69 Mbps
X	Internet_Academica	Boulder	1.16 Mbps	63.31 Mbps	64.47 Mbps

	PROFILE	CITY	IN	OUT	TOTAL
X	Internet_Academica	Unknown	26.60 Mbps	23.48 Mbps	50.07 Mbps
X	Internet_Academica	Potomac	436.32 Kbps	30.16 Mbps	30.60 Mbps
X	Internet_Academica	Huntsville	2.04 Mbps	27.01 Mbps	29.05 Mbps
	Internet_Academica	Unknown	10.30 Mbps	17.62 Mbps	27.93 Mbps
	Internet_Academica	Kapolei	421.36 Kbps	24.22 Mbps	24.64 Mbps
	Internet_Academica	Laurel	1.27 Mbps	23.10 Mbps	24.37 Mbps
	Internet_Academica	Unknown	7.28 Mbps	11.78 Mbps	19.06 Mbps
	Internet_Academica	Unknown	4.96 Mbps	7.40 Mbps	12.36 Mbps

Redes (AS's de origem) mais acessadas pelos clientes da RNP sob o ponto de vista do AS1916
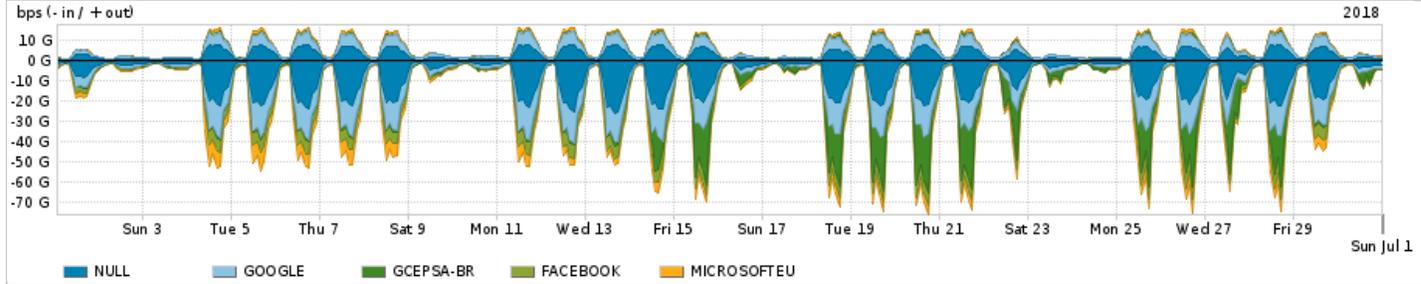
Average | Max | PCT95

	AS NAME	ASN	IN	OUT	TOTAL
X	NULL	0	7.60 Gbps	2.77 Gbps	10.37 Gbps
X	GOOGLE	15169	5.04 Gbps	2.56 Gbps	7.60 Gbps
X	GCEPSA-BR	28604	3.04 Gbps	73.72 Mbps	3.11 Gbps
X	FACEBOOK	32934	2.43 Gbps	210.53 Mbps	2.64 Gbps
X	MICROSOFTEU	8068	2.18 Gbps	387.20 Mbps	2.56 Gbps
	AKAMAI-ASN1	20940	1.70 Gbps	459.69 Mbps	2.16 Gbps
	AMAZON-02	16509	847.54 Mbps	262.37 Mbps	1.11 Gbps
	CLARO	28573	170.69 Mbps	815.27 Mbps	985.97 Mbps
	NETFLIX	2906	793.94 Mbps	16.13 Mbps	810.07 Mbps
	EDGECAST	15133	578.20 Mbps	19.00 Mbps	597.20 Mbps
	MICROSOFT-CORP-MSN-AS-BLOCK	8075	263.20 Mbps	310.73 Mbps	573.93 Mbps
	APPLE	714	193.41 Mbps	350.12 Mbps	543.53 Mbps
	LEVEL3-AS3549	3549	340.69 Mbps	23.76 Mbps	364.44 Mbps
	TELEFNICA-BRASIL-SA-BR	27699	83.69 Mbps	251.63 Mbps	335.32 Mbps
	DROPBOX	19679	203.61 Mbps	94.90 Mbps	298.51 Mbps

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

bps (- in / + out)   2018

Legend: ssl | http | quit | other UDP | other TCP
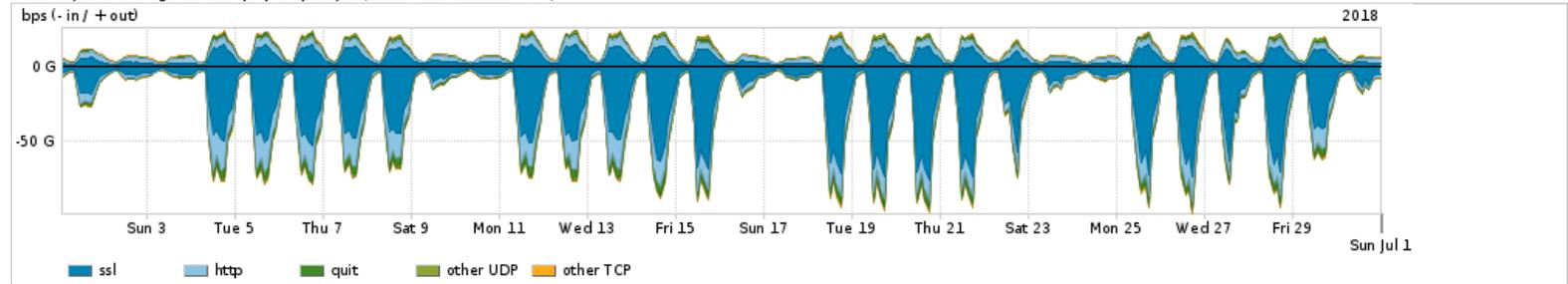
Average | Max | PCT95

	APPLICATION	IN	OUT	TOTAL
X	ssl	19.56 Gbps	5.52 Gbps	25.07 Gbps
X	http	6.21 Gbps	3.17 Gbps	9.37 Gbps
X	quit	1.80 Gbps	508.42 Mbps	2.30 Gbps
X	other UDP	530.98 Mbps	697.69 Mbps	1.23 Gbps
X	other TCP	698.95 Mbps	413.05 Mbps	1.11 Gbps
	ssh	83.88 Mbps	41.03 Mbps	124.91 Mbps
	ntp	9.97 Mbps	104.27 Mbps	114.25 Mbps
	rsync	58.32 Mbps	30.66 Mbps	88.97 Mbps
	smtp	32.05 Mbps	54.82 Mbps	86.86 Mbps
	ldap	6.18 Mbps	66.14 Mbps	72.32 Mbps

Distribuição do tráfego da rede Ipê por protocolo

bps (- in / + out)   2018

Legend: tcp | udp | gre | esp | icmp
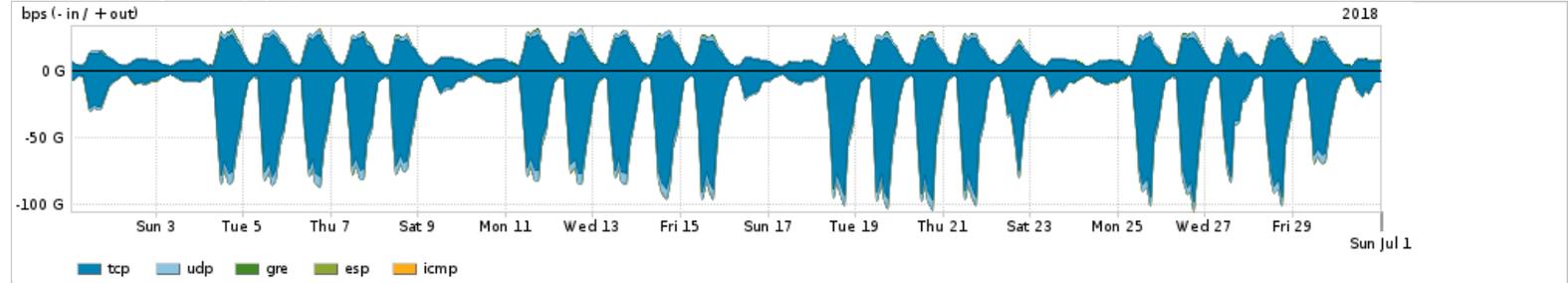
Average | Max | PCT95

	PROTOCOL	IN	OUT	TOTAL
X	tcp	29.33 Gbps	11.35 Gbps	40.69 Gbps
X	udp	2.56 Gbps	1.47 Gbps	4.03 Gbps
X	gre	24.82 Mbps	175.07 Mbps	199.89 Mbps
X	esp	145.53 Mbps	37.43 Mbps	182.95 Mbps
X	icmp	8.77 Mbps	11.75 Mbps	20.51 Mbps
	ipv6	2.20 Mbps	1.58 Mbps	3.78 Mbps
	ipv6-icmp	1.58 Mbps	2.09 Mbps	3.67 Mbps
	ipencap	9.03 Kbps	7.68 Kbps	16.71 Kbps
	sctp	1.03 Kbps	0.00 bps	1.03 Kbps

	PROTOCOL	IN	OUT	TOTAL
	255	733.00 bps	3.00 bps	736.00 bps

For assistance with this product, please contact support at https://support.arbornetworks.com