

IETF 90: Toronto, CA

NOC Report

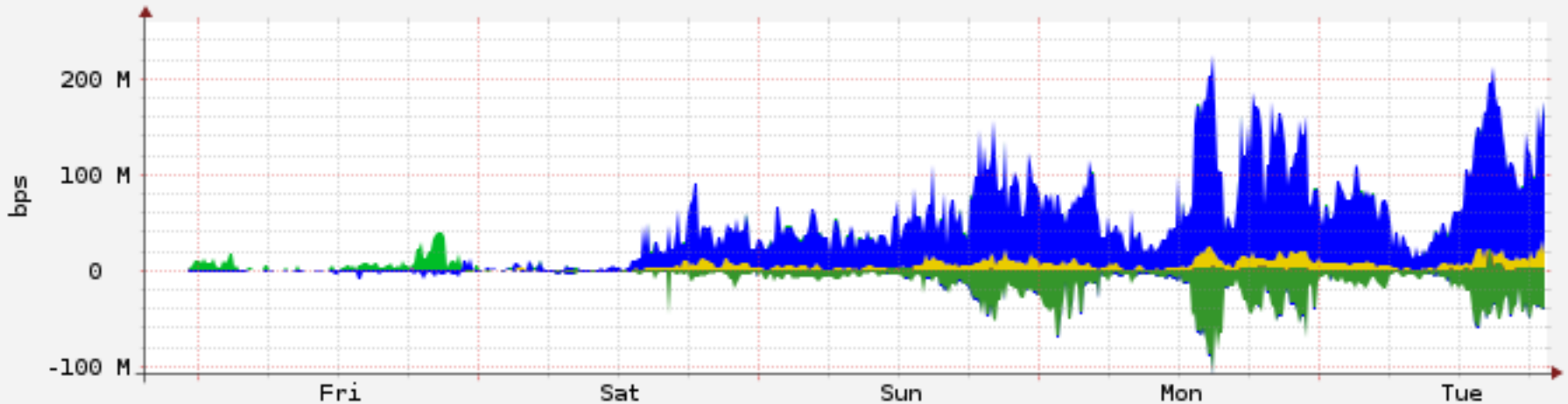


Network Overview

- 2 x 1 Gb/s link to Telus
- Production network-
 - v4 31.130.128.0/18 & 31.133.224.0/20
 - v6 2001:67c:1230::/46 & 2001:67c:370::/48
- IETF network extended to hotel guest rooms and common areas (ietf-hotel SSID and wired connections) via 1 Gb/s copper link

External Traffic

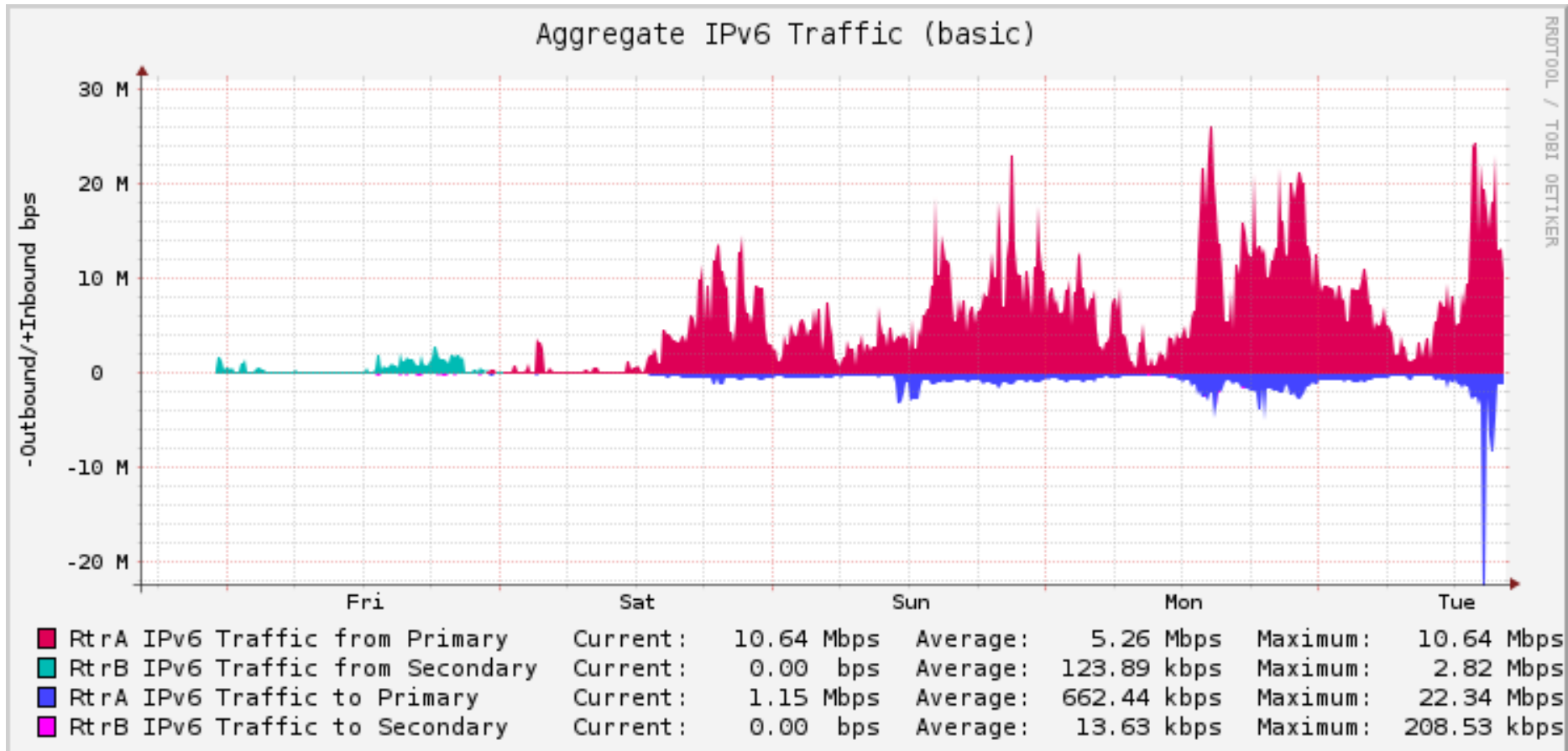
IETF90 External IPv4/IPv6 Traffic



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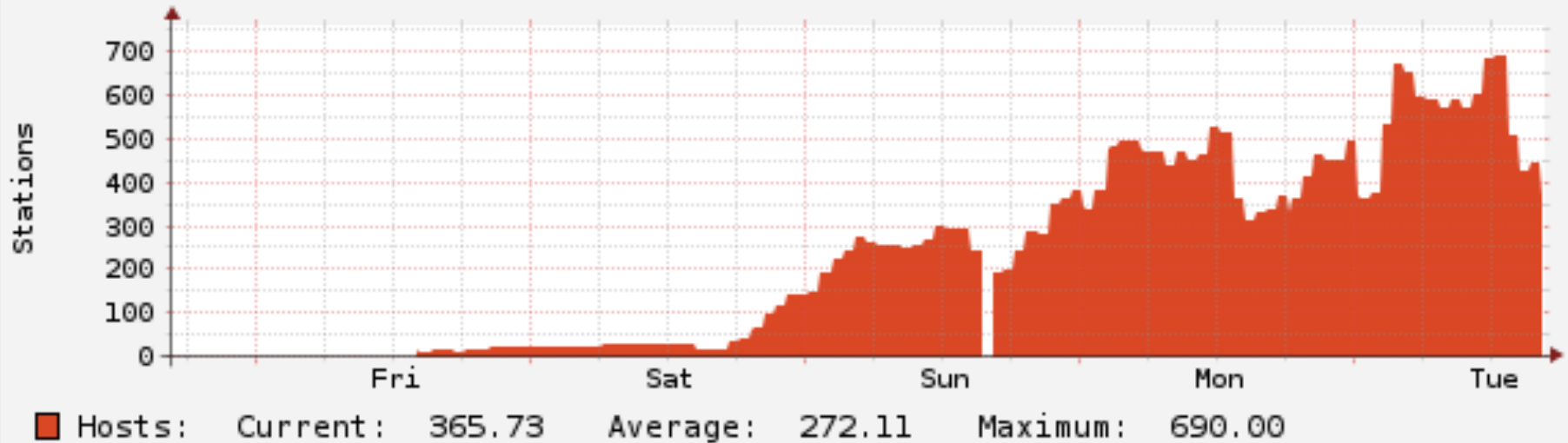
■ RtrA IPv6 Bits/s In	Current:	17.33M	Average:	5.56M	Max:	31.74M	
■ RtrB IPv6 Bits/s In	Current:	0.00	Average:	120.69k	Max:	2.82M	
■ RtrA IPv4 Bits/s In	Current:	158.58M	Average:	42.14M	Max:	204.66M	
■ RtrB IPv4 Bits/s In	Current:	132.50	Average:	1.22M	Max:	37.26M	
Total Inbound Traffic:		Current	160.75M	Average:	44.14M	Max:	207.19M
Total In IPv6 Traffic:		Current	2.17M	Average:	711.21k	Max:	3.97M
■ RtrA IPv6 Bits/s Out	Current:	2.30M	Average:	698.14k	Max:	22.34M	
■ RtrB IPv6 Bits/s Out	Current:	0.00	Average:	13.28k	Max:	208.53k	
■ RtrA IPv4 Bits/s Out	Current:	42.42M	Average:	12.91M	Max:	112.65M	
■ RtrB IPv4 Bits/s Out	Current:	554.67	Average:	236.04k	Max:	74.58M	
Total Out IPv6 Traffic:		Current	287.35k	Average:	89.07k	Max:	2.79M
Total Outbound Traffic:		Current	42.71M	Average:	13.26M	Max:	113.23M

External IPv6 Traffic



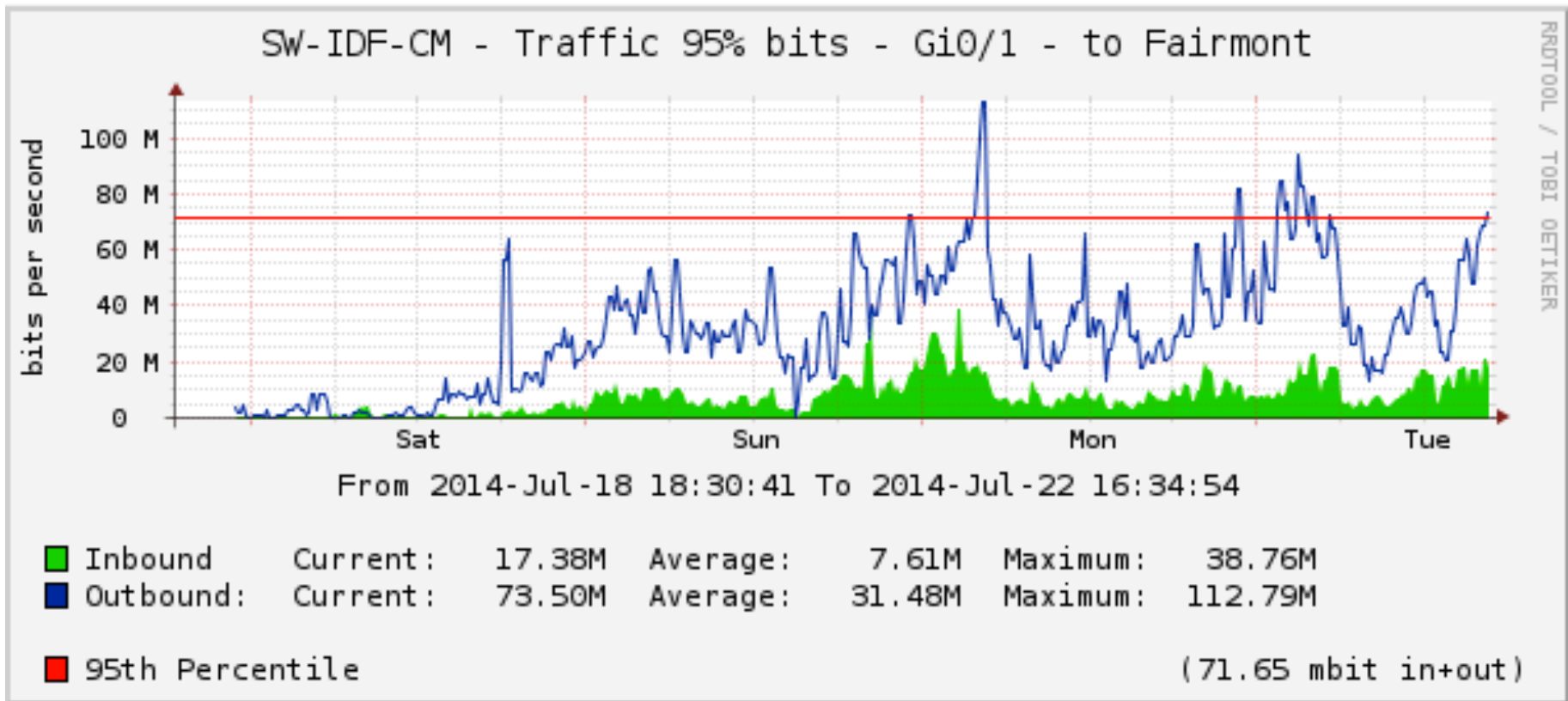
Guestroom MAC addresses

Active MAC Addresses on Guest Room Network (grmac)



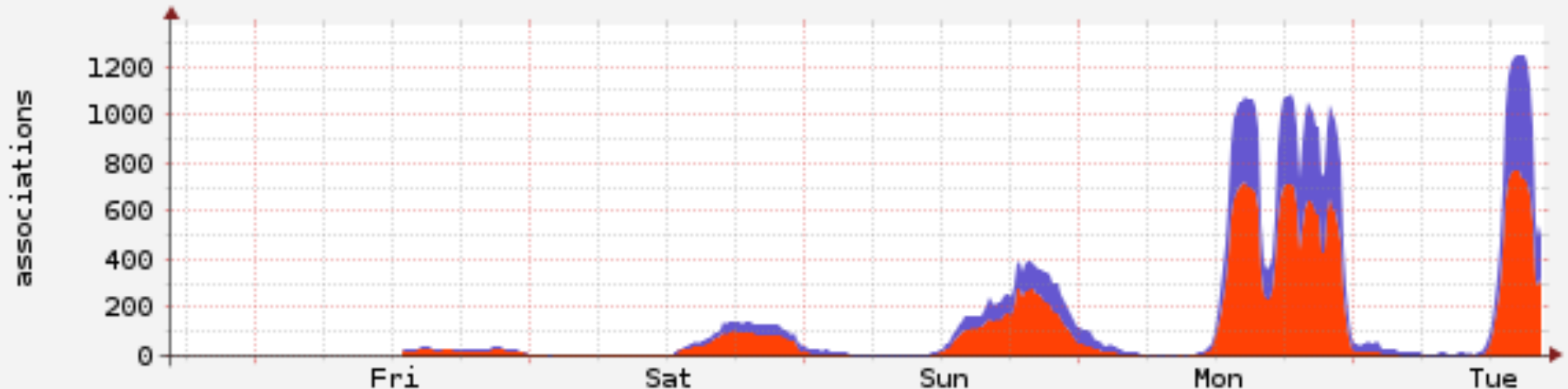
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Guestroom WiFi Bandwidth



Wireless Associations

Aggregate 802.11 Associations (bora)



■ a Clients:	Current: 323	Average: 115	Maximum: 775
■ b/g Clients:	Current: 213	Average: 66	Maximum: 510
Total Clients:	Current: 536	Average: 151	Maximum: 1242

Interesting Details

- First time using IETF-owned Juniper MX80 router (donated by Juniper).
- Telus donated circuits again despite not having physical presence at the property (purchased “last mile” from Bell Canada).
- Generated RPKI ROAs for IETF address space using RIPE’s newly-developed PI-space policy.
- Developed final spec for new Cisco equipment donation to the IETF/ISOC. Planned first implementation: Hawaii.
- Fairmont Royal York provided significant infrastructure improvements to accommodate IETF 90.

A special thanks to...

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- Bjoern A. Zeeb (Cambridge University – in absentia)

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- Hans Kuhn
- Nick Kukich
- Colin Doyle
- Brandon Height
- Rick Alfvin
- Edward McNair



Thank You

- Telus
 - Connectivity
- Cisco
 - Gear contribution
- Juniper
 - Gear contribution
- OSC Radiator
 - Licensing



And our friends at the Fairmont Hotel

