Network Overview

- 2 x 1 Gb/s link to Telus
- Production network-
  - v4 31.130.128.0/18 & 31.133.224.0/20
- IETF network extended to hotel guest rooms and common areas (ietf-hotel SSID and wired connections) via 1Gb/s copper link
External Traffic

IETF90 External IPv4/IPv6 Traffic

- **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

Aggregate IPv6 Traffic (basic)

- Outbound/Inbound bps

-20 M
-10 M
0
10 M
20 M
30 M

Fri Sat Sun Mon Tue

RtrA IPv6 Traffic from Primary
Current: 10.64 Mbps  Average: 5.26 Mbps  Maximum: 10.64 Mbps

RtrB IPv6 Traffic from Secondary
Current: 0.00 bps  Average: 123.89 kbps  Maximum: 2.82 Mbps

RtrA IPv6 Traffic to Primary
Current: 1.15 Mbps  Average: 662.44 kbps  Maximum: 22.34 Mbps

RtrB IPv6 Traffic to Secondary
Current: 0.00 bps  Average: 13.63 kbps  Maximum: 208.53 kbps
Guestroom MAC addresses

Active MAC Addresses on Guest Room Network (grmac)

- Hosts: Current: 365.73  Average: 272.11  Maximum: 690.00
Guestroom WiFi Bandwidth

SW-IDF-CM - Traffic 95% bits - Gi0/1 - to Fairmont

From 2014-Jul-18 18:30:41 To 2014-Jul-22 16:34:54

- Inbound: Current: 17.38M, Average: 7.61M, Maximum: 38.76M
- Outbound: Current: 73.50M, Average: 31.48M, Maximum: 112.79M

95th Percentile: 71.65 mbit in+out
Wireless Associations

Aggregate 802.11 Associations (bora)

<table>
<thead>
<tr>
<th>Type</th>
<th>Current</th>
<th>Average</th>
<th>Maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td>a Clients</td>
<td>323</td>
<td>115</td>
<td>775</td>
</tr>
<tr>
<td>b/g Clients</td>
<td>213</td>
<td>66</td>
<td>510</td>
</tr>
<tr>
<td>Total Clients</td>
<td>536</td>
<td>151</td>
<td>1242</td>
</tr>
</tbody>
</table>
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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- Telus
  - Connectivity
- Cisco
  - Gear contribution
- Juniper
  - Gear contribution
- OSC Radiator
  - Licensing

And our friends at the Fairmont Hotel