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 (Hyatt Vancouver SSID and wired connections) via 1Gb/s copper link
External Traffic

Aggregate External Traffic (detailed)

- **RtrA - Inbound from TELUS**: Current 169M, Average 67M, Maximum 283M
- **RtrB - Inbound from TELUS**: Current 1k, Average 1k, Maximum 4k
- **Total Inbound Traffic**: Current 169M, Average 67M, Maximum 283M
- **RtrA - Outbound to TELUS**: Current 27M, Average 22M, Maximum 85M
- **RtrB - Outbound to TELUS**: Current 376, Average 385, Maximum 5k
- **Total Outbound Traffic**: Current 27M, Average 22M, Maximum 85M

10-Day (5 Minute Average)
External IPv6 Traffic

ge-1/3/0.0 - TELUS_CIRCUIT_1 - 1G - bits/s (ipv6)

From 2013-Oct-31 22:42:00 To 2013-Nov-06 22:42:00

- Bits/s In: Current: 15.15M, Average: 6.87M, Max: 33.12M
- Bits/s Out: Current: 3.15M, Average: 1.02M, Max: 12.92M
Guestroom Usage - Wifi

![Graph showing wifi traffic over a week]
Guestroom Usage - Wired
Meeting Space Wireless Associations

Aggregate 802.11 Associations (bora)

From 2013-Oct-31 22:42:00 To 2013-Nov-06 22:42:00

- **a Clients**: Current: 789, Average: 170, Maximum: 953
- **b/g Clients**: Current: 458, Average: 87, Maximum: 504
- **Total Clients**: Current: 1247, Average: 241, Maximum: 1321
Meeting Space Wireless Associations (cont.)

IETF88 Aggregate Active Wireless Mac Addresses by VLAN

From 2013-Oct-31 22:42:00 To 2013-Nov-06 22:42:00

- b/g Clients on Mgmt SSID: Current: 1, Average: 1, Maximum: 2
- a Clients on Mgmt SSID: Current: 8, Average: 5, Maximum: 14
- b/g Clients on IPv6-only SSID: Current: 4, Average: 2, Maximum: 9
- a Clients on IPv6-only SSID: Current: 5, Average: 3, Maximum: 8
- b/g Clients on Secure (.1x) SSID: Current: 31, Average: 8, Maximum: 32
- a Clients on Secure (.1x) SSID: Current: 30, Average: 12, Maximum: 37
- a Clients on a-only (.1x) SSID: Current: 60, Average: 16, Maximum: 71
- b/g Clients on eduroam SSID: Current: 11, Average: 6, Maximum: 16
- a Clients on eduroam SSID: Current: 22, Average: 10, Maximum: 36
- b/g Clients on open SSID: Current: 402, Average: 95, Maximum: 441
- a Clients on open SSID: Current: 469, Average: 122, Maximum: 616
- a Clients on open a-only SSID: Current: 183, Average: 44, Maximum: 191

Total: Current: 1224, Average: 228, Maximum: 1291
Wed. Plenary Wireless Issue Summary

Issue presented as high latency and packet loss over the wireless in the plenary room. Investigation indicated improper DFS assignments on the 5ghz radio band causing co-channel interference.

In an effort to mitigate the issue, the following two configurations adjustments were made to WAP’s servicing the plenary room:

1. Manually channelize the 5ghz radios to diversify the operational frequencies throughout the space.
2. Manually reduce the radio power levels to reduce overlap.

As clients "found their level", we adjusted the respective radios to use their standard power levels. As of 10am, access appeared to normalize and users reported acceptable connectivity. Streaming audio and video services were not impacted.

We will channelize and adjust power for the 5ghz band in the plenary room for future IETF events.
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