IETF 92: Dallas, TX

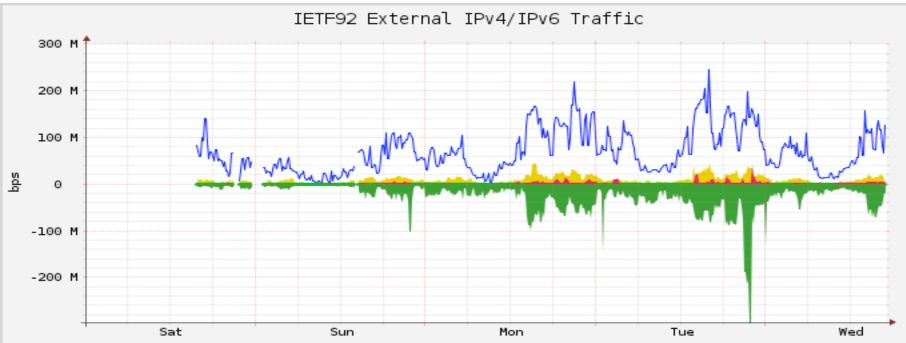


LAL LE

Network Basics

- 2 x 1 Gb/s link to Time Warner Cable
- Native Public IPv4 and IPv6 from our own AS
- Fully redundant routing and switching core
- Sixty-two 802.11ac Access Points deployed
- IETF network extended to the hotel guest rooms via wired drops in the rooms and the "ietf-hotel" SSID broadcast on hotel infrastructure

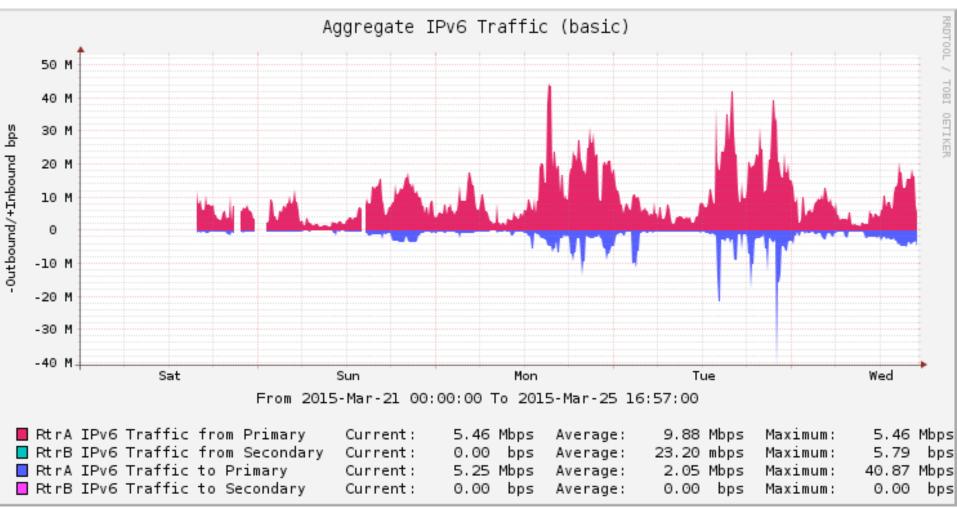
External Traffic



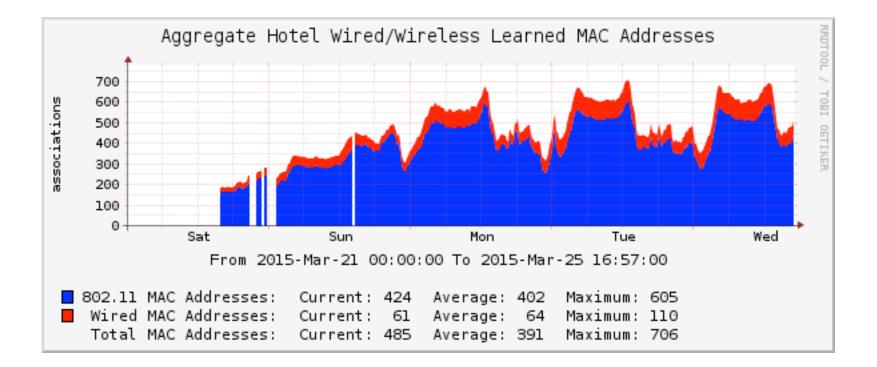
From 2015-Mar-21 00:00:00 To 2015-Mar-25 16:57:00

 RtrA IPv6 Bits/s In Current: RtrB IPv6 Bits/s In Current: RtrA IPv4 Bits/s In Current: 	5.46M 0.00 125.32M	Average: Average: Average:	9.88M 23.20m 69.40M	Max: Max: Max:	44.28M 5.79 246.27M
RtrB IPv4 Bits/s In Current:	388.00	Average:	468.92	Max:	6.25k
Total Inbound Traffic: Current	126.00M	Average:	70.69M	Max:	251.51M
Total In IPv6 Traffic: Current	682.45k	Average:	1.23M	Max:	5.53M
📕 RtrA IPv6 Bits/s Out 🛛 Current:	5.25M	Average:	2.05M	Max:	40.87M
RtrB IPv6 Bits/s Out Current:	0.00	Average:	0.00	Max:	0.00
🔲 RtrA IPv4 Bits/s Out 🛛 Current:	20.76M	Average:	29.09M	Max:	297.26M
RtrB IPv4 Bits/s Out Current:	0.00	Average:	0.00	Max:	0.00
Total Out IPv6 Traffic: Current Total Outbound Traffic: Current	656.76k 21.41M	Average: Average:	255.78k 29.41M	Max: Max:	5.11M 297.59M

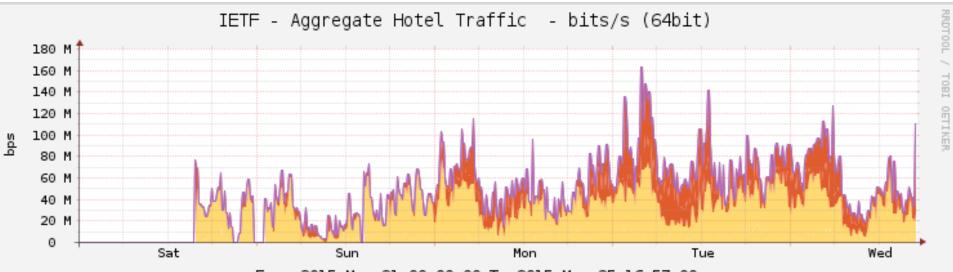
External IPv6 Traffic



Guestroom MAC addresses



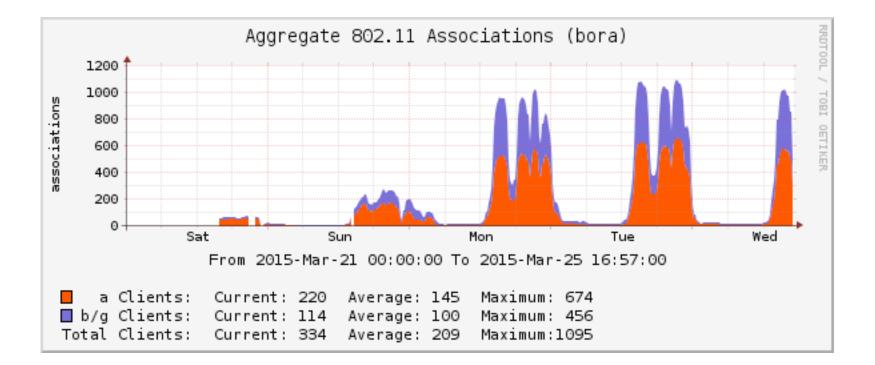
Aggregate Hotel Traffic



From 2015-Mar-21 00:00:00 To 2015-Mar-25 16:57:00

Traffic Current: 110.35M Average: 45.93M Max: 163.61M	 RtrA ge-1/1/0.2136 Bits/ RtrA ge-1/1/0.2136 Bits/ RtrA ge-1/1/0.2136 Bits/ RtrA ge-1/1/0.2144 Bits/ RtrB ge-1/1/0.2136 Bits/ RtrB ge-1/1/0.2136 Bits/ RtrB ge-1/1/0.2144 Bits/ RtrB ge-1/1/0.2144 Bits/ RtrB ge-1/1/0.2144 Bits/ Traffic 	s Out s In s Out s In s Out s In	Current: Current: Current: Current: Current: Current: Current: Current:	5.42M 18.87M 2.64M 83.40M 10.25k 0.00 9.32k 0.00 110.35M 110.35M	Average: Average: Average: Average: Average: Average: Average: Average: Average:	5.98M 28.66M 7.42M 12.52M 40.33k 2.76 11.63k 0.00 45.93M 45.93M	Max: Max: Max: Max: Max: Max: Max: Max:	18.85M 72.86M 90.46M 134.59k 149.33 72.37k 0.00 163.61M
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Wireless Associations



A Few Changes

- We're now encrypting all user traffic with WPA2-Enterprise by default (with the exception of ietf-legacy and ietf-hotel)
- The "default" IETF SSID is now encrypted and 5Ghz only
- This is our first meeting with a verifiable certificate for WPA
- The new Access Points have interoperability issues with certain
 Intel wireless chipsets and drivers

We've helped about 50 affected users over the past few days and will continue to update drivers when members come see us

- Our SSID changes have resulted in a higher use of encrypted traffic. Roughly 75% of the users attending the Technical Plenary were using encryption. (Up from ~30% at the last meeting.)
- The meeting.ietf.org zone is now DNSSEC signed

(More) New Gear!

• We've deployed 3 new UCSC-C220-M4S Cisco servers

(Thank you!)

- We're continuing to build our virtualization environment
- We've continuing to use Netdot to help us manage DNS and our address space

Network Team

- Randy Bush (IIJ)
- HUSCHARRA (SSIS(AA)DE)

- Joel Jaeggli (Fastly)
- Bill Jensen (University of Wisconsin Madison)
- Hans Kuhn (NSRC)
- Warren Kumari (Google)
- Lucy Lynch (NSRC in absentia))
- Jim Martin (Internet Systems Consortium)
- Karen O'Donoghue (ISOC)
- Masafumi Oe (National Astronomical Observatory of Japan)
- Clemens Schrimpe (Kiez.NET in absentia)
- Bjoern A. Zeeb (Cambridge University in absentia)

- Brandon Height
- Nick Kukich
- Edward McNair
- Stork Reikich
- Edward McNair
- Con Reilly

Thank You

- Time Warner Cable
 - Connectivity

- Juniper

 Gear contribution
- OSC Radiator

- Licensing

Gear contribution



Google

And our friends here at the Fairmont Hotel