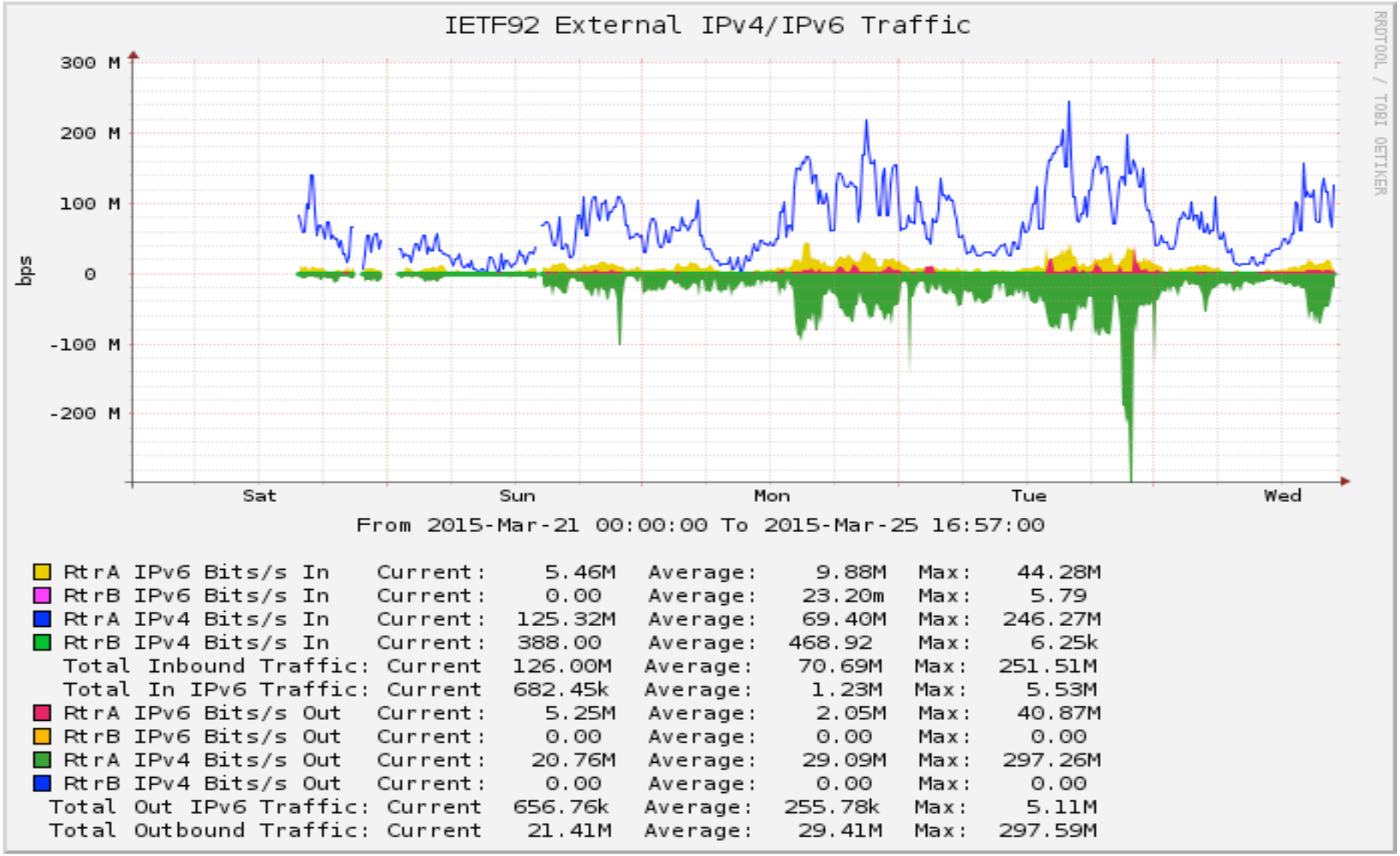
IETF 92: Dallas, TX

NOC Report

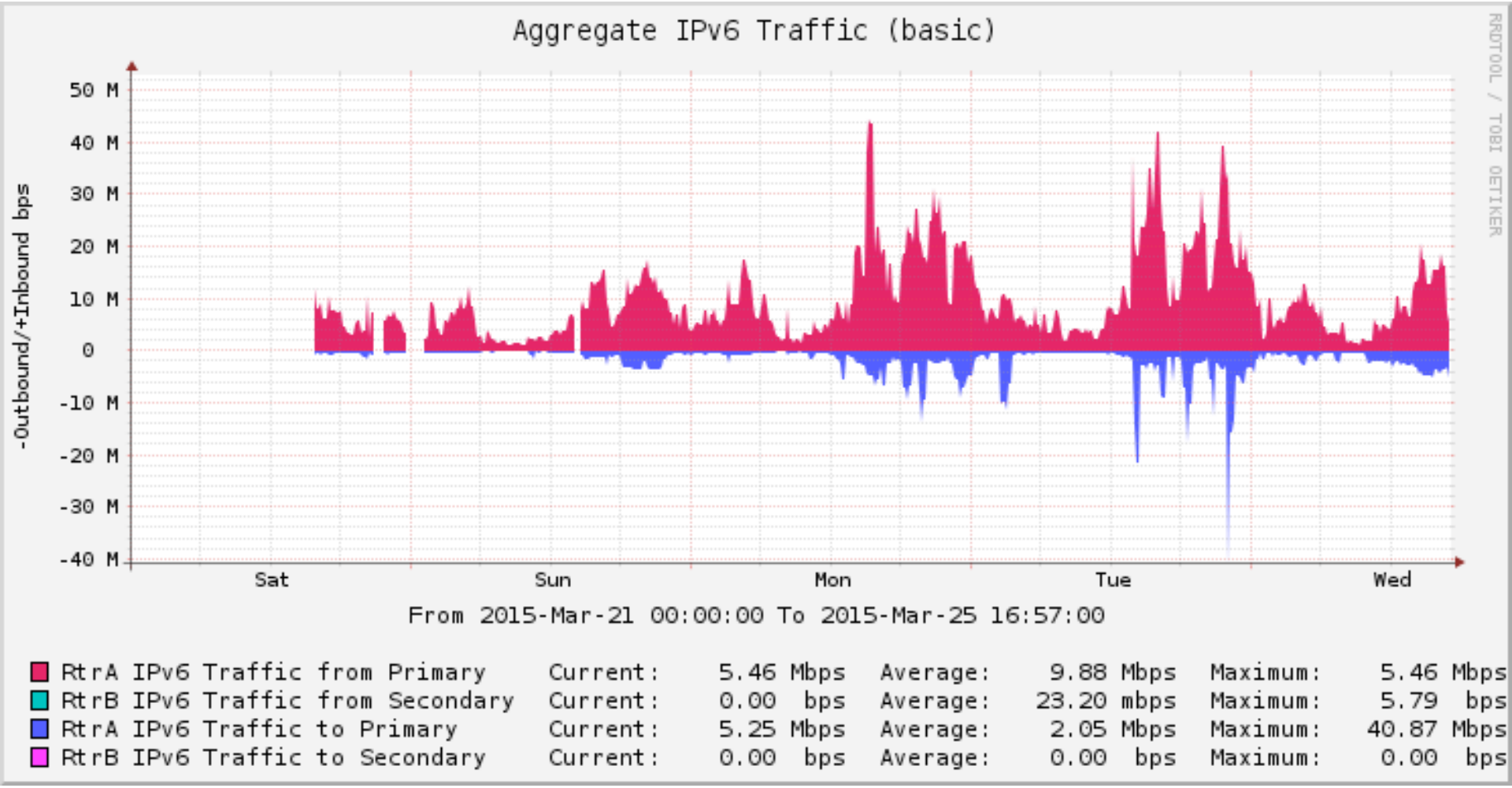
Network Basics

- 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

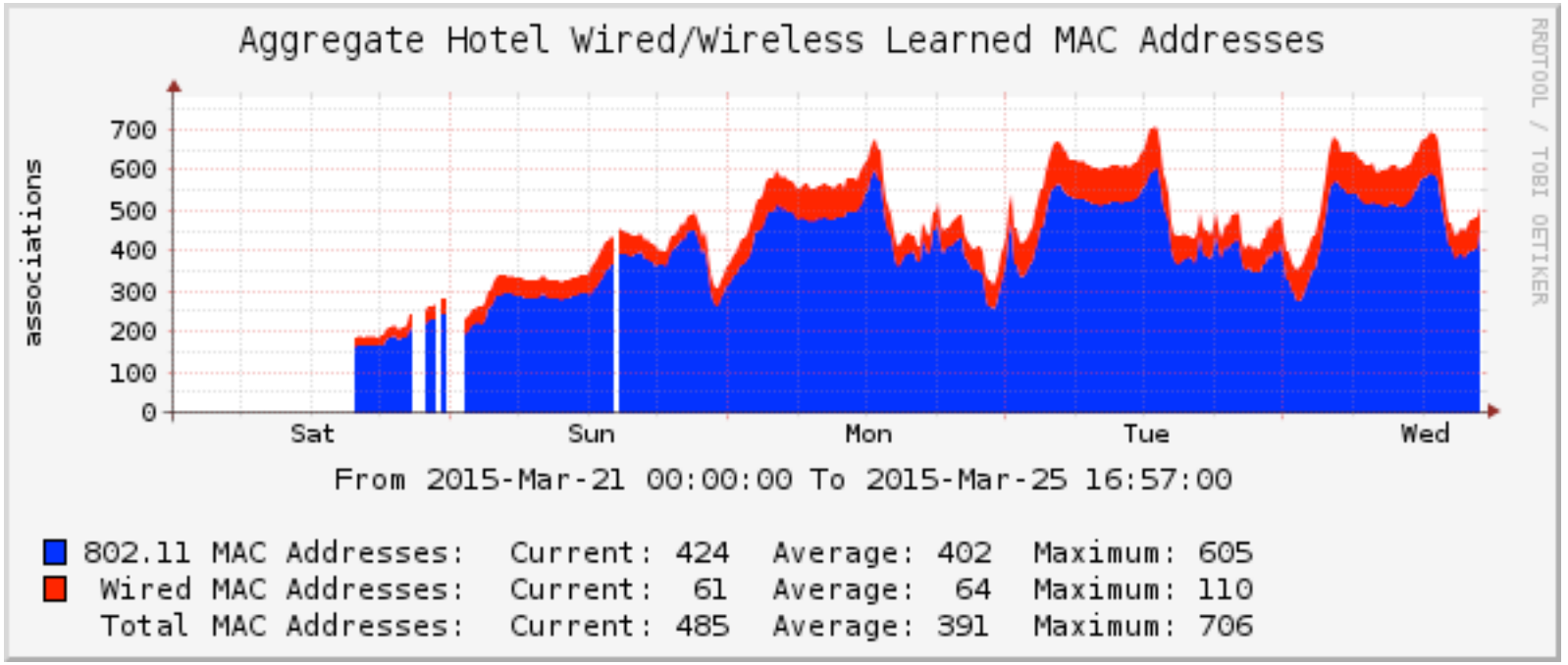
External Traffic



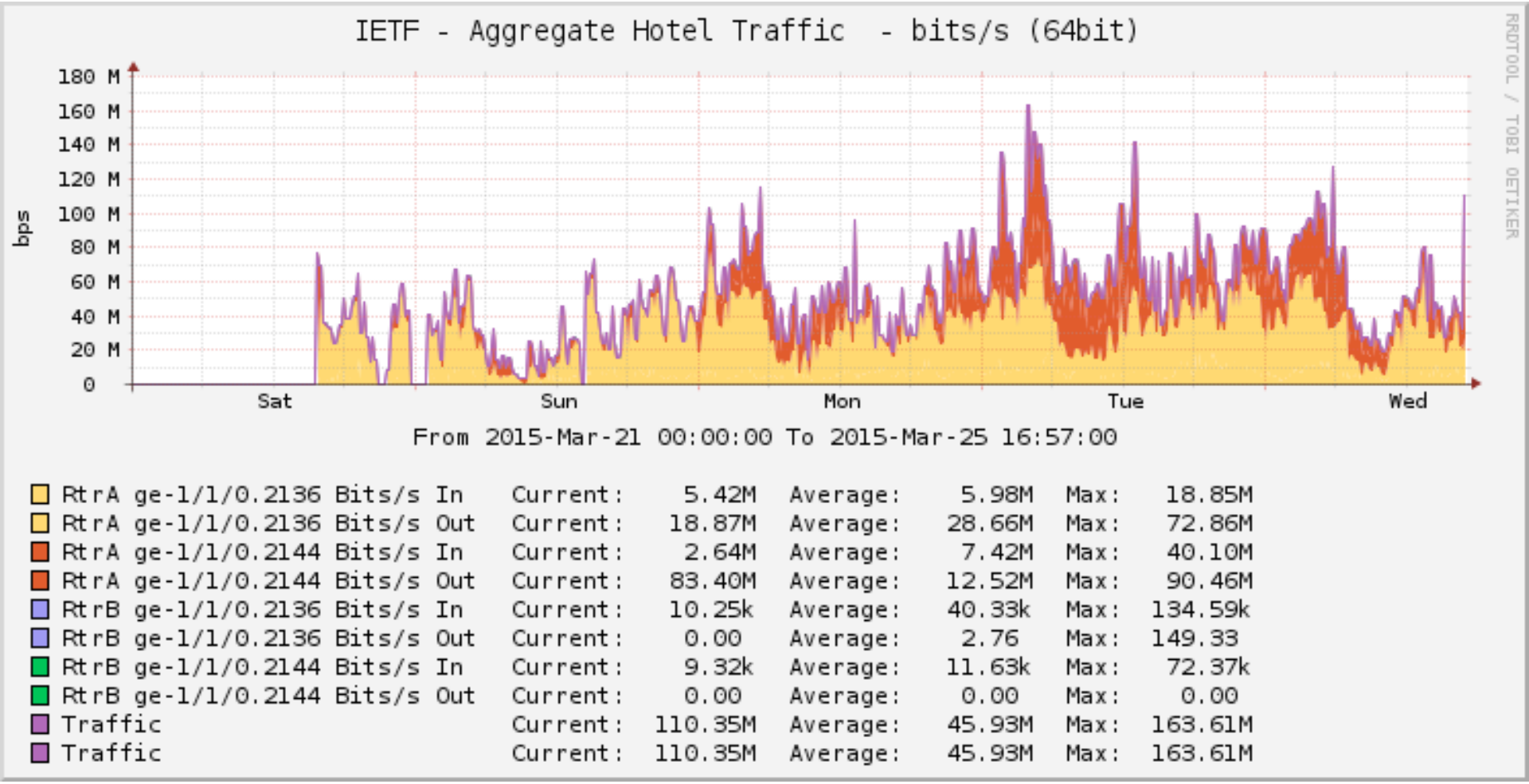
External IPv6 Traffic



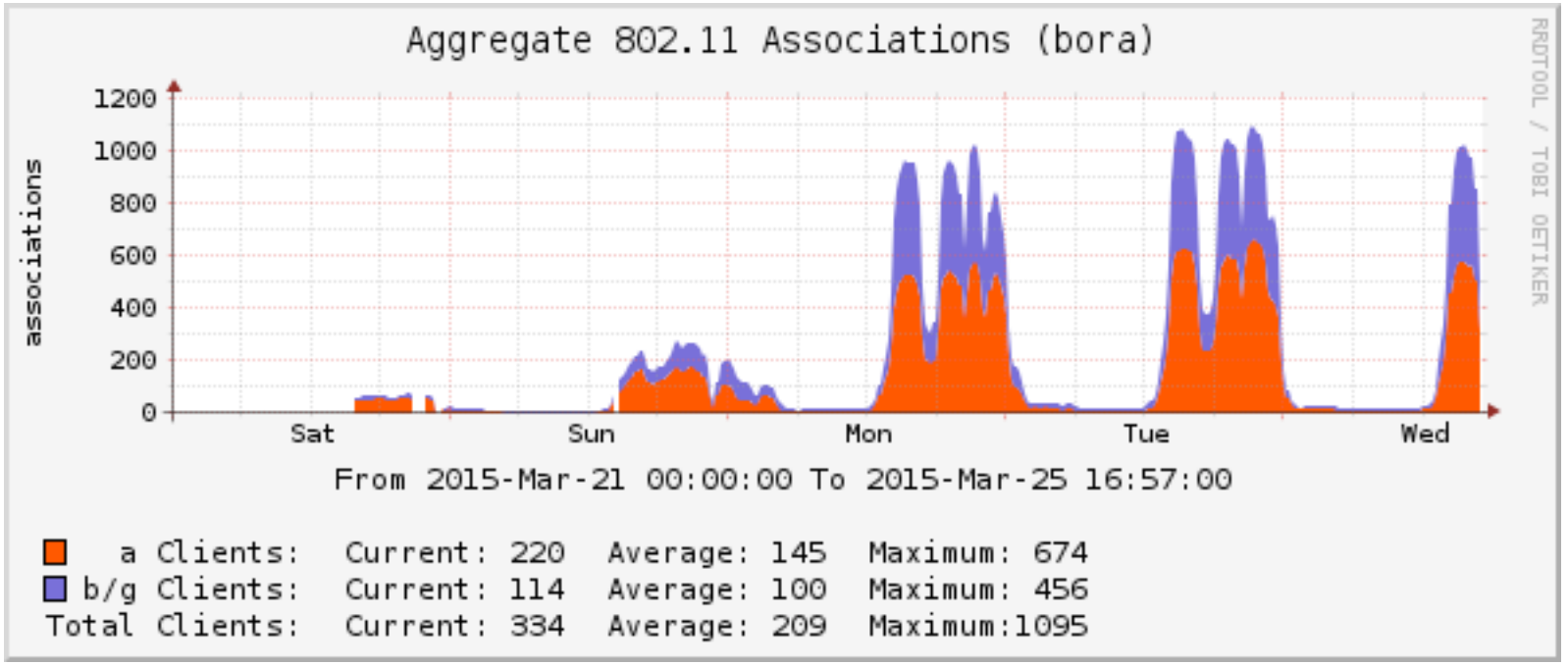
Guestroom MAC addresses



Aggregate Hotel Traffic



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)
- noc oisuke (Cisco)
- Hiroshika Asai (WIDE)

- 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
- Con Reilly

- Nick Kukich
- Edward McNair
- Con Reilly

• Cisco

Thank You

- Time Warner Cable
  - Connectivity
  - Gear contribution
- Juniper
  - Gear contribution
- OSC Radiator
  - Licensing

And our friends here at the Fairmont Hotel