IETF 96: Berlin

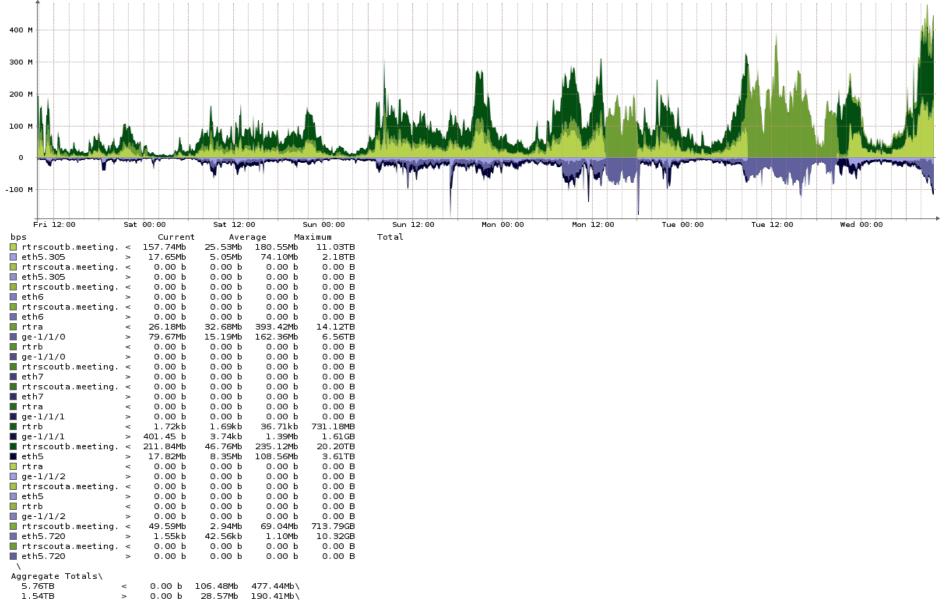
NOC Report

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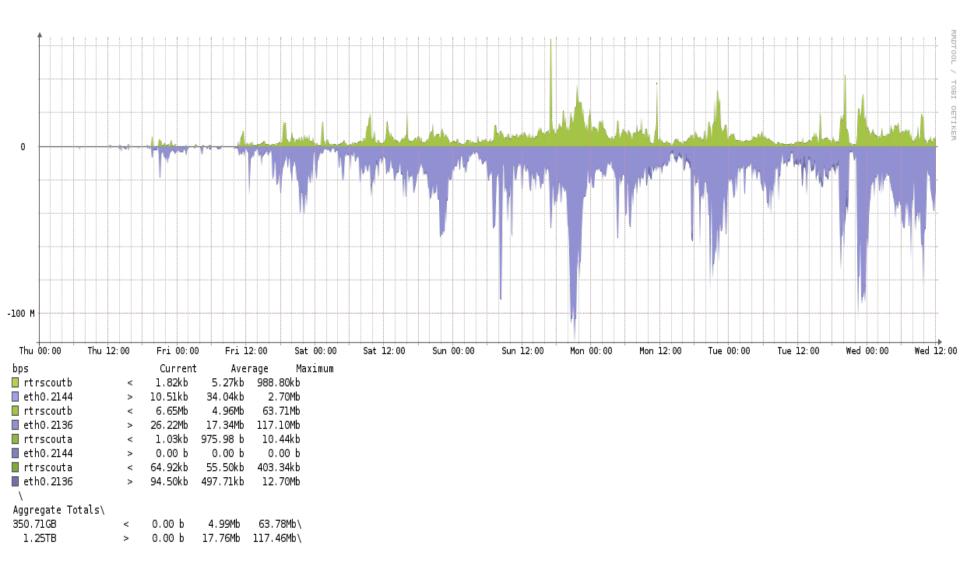
Network Basics

- 2 Dedicated 1Gbps Circuits from DTAG, and a 1Gbps Dark Fiber connection to ECIX where we are peered with Strato, HE.Net and NTT Public IPv4 and IPv6 from our own AS.
- Fully redundant routing.
- Sixty-four 802.11ac Access Points deployed controlled by a Cisco Wireless LAN Controller 5520.
- IETF network extended to the hotel guest rooms via the "ietf-hotel" SSID broadcast on hotel infrastructure.

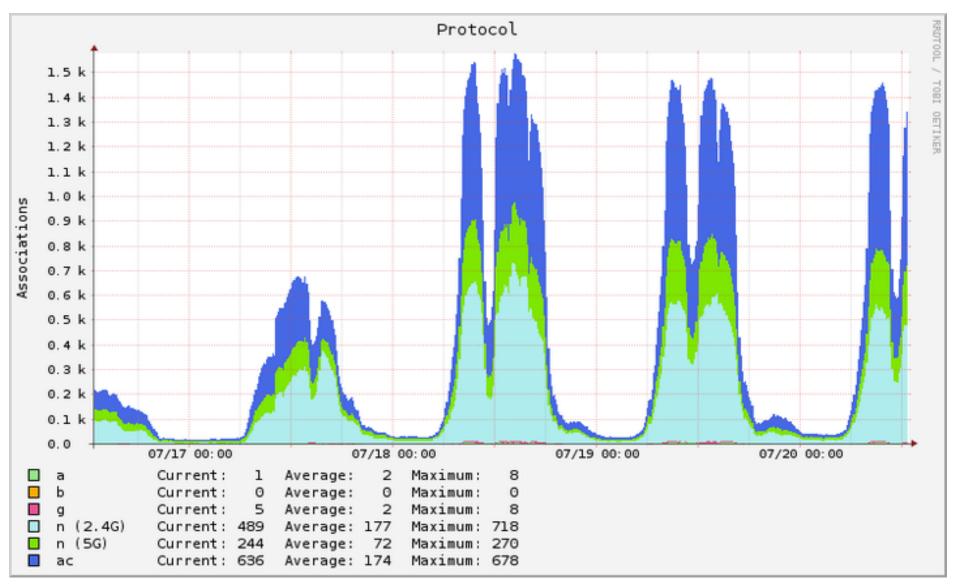
External Traffic



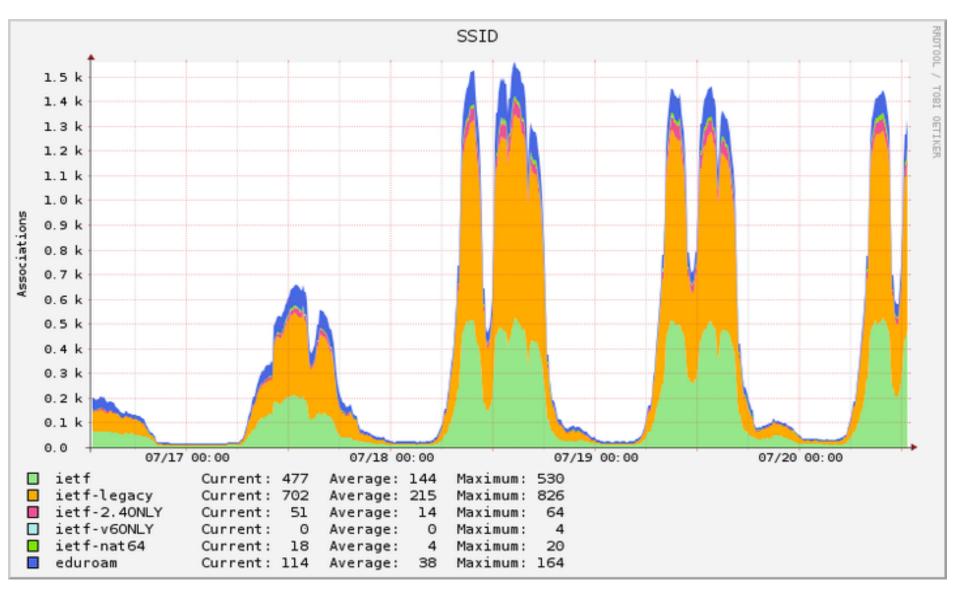
Aggregate Hotel Traffic



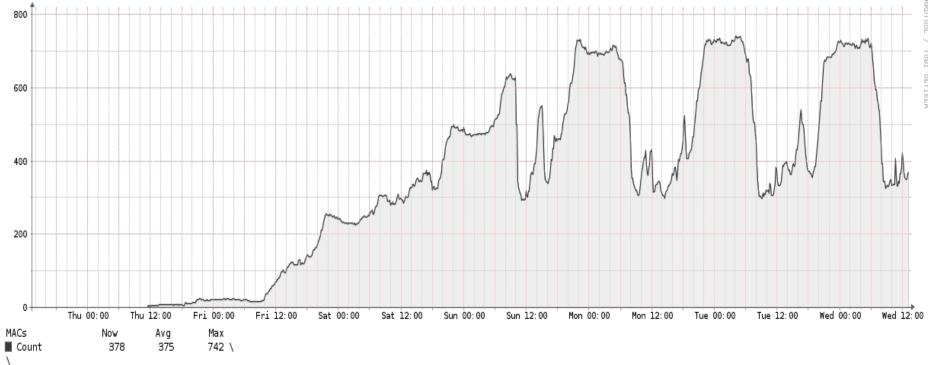
Wireless Associations (by protocol)



Wireless Associations (by SSID)



Guestroom MAC Addresses



What's New

- Replaced Cisco WLC 5508 with two Cisco WLC 5520s.
- We have expanded our monitoring tools to more closely track the switching environment.
- We have continued to add automation across the network and systems to improve setup and operational consistency.

Network Team

IETF NOC Team Volunteers:

- Hirochika Asai (The University of Tokyo/WIDE)
- Randy Bush (IIJ)
- Joe Clarke (Cisco)
- Colin Doyle (Right! Systems Inc)
- Bill Fenner (Arista)
- Joel Jaeggli (Fastly)
- Bill Jensen (University of Wisconsin–Madison)
- Hans Kuhn (NSRC)
- Warren Kumari (Google)
- Lucy Lynch (NSRC)
- Jim Martin (INOC)
- Rob Nagy (DeepDive Networking)
- Karen O'Donoghue (ISOC)
- Clemens Schrimpe

Verilan:

- James Dishongh
- Reid Kells
- Nick Kukich
- Edward McNair
- Con Reilly

Thank You

- DTAG, ECIX, Strato, Netbeez NTT & HE
 - Connectivity
- Cisco
 - Gear contribution
- Juniper •
 - Gear contribution
- A10 Networks
 - Gear contribution

- - Gear contribution
- **OSC** Radiator - Licensing
- Ubiquiti Networks
 - Gear contribution

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And our friends here at the Intercontinental Berlin