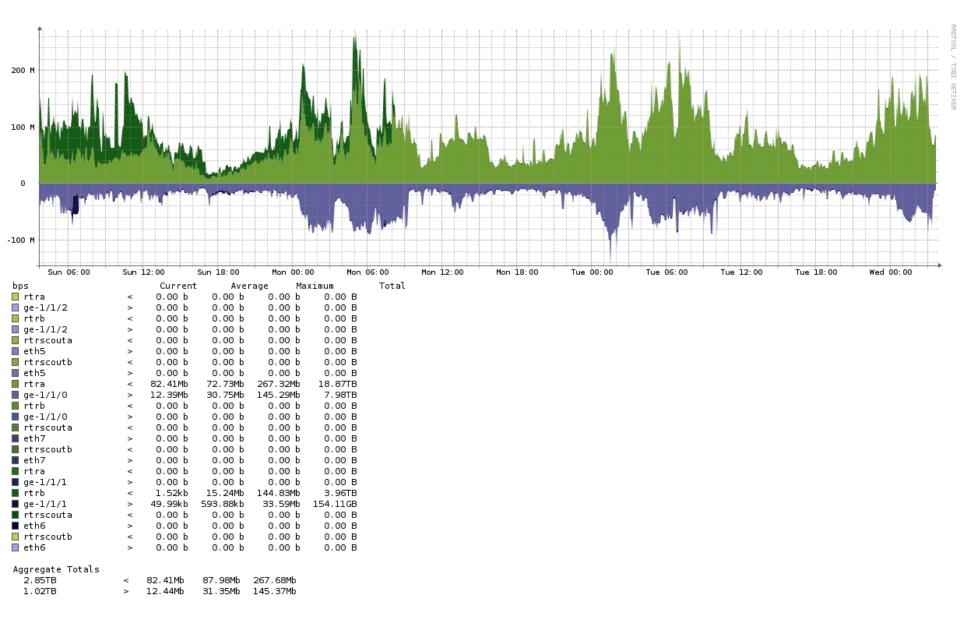
IETF 97: Seoul NOC Report

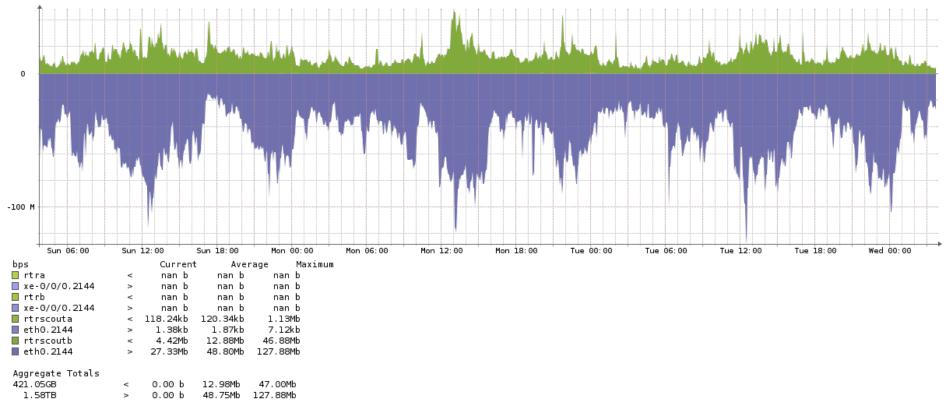
Network Basics

- 2 Dedicated 1Gbps circuits; one donated by NTT and one purchased from SK Telecom.
- Two Cisco 5520 Wireless LAN Controllers and Forty Three 802.11ac Cisco Access Points.
- IETF network extended to the hotel guest rooms via the "Conrad_Seoul" SSID broadcast on hotel infrastructure.

External Traffic

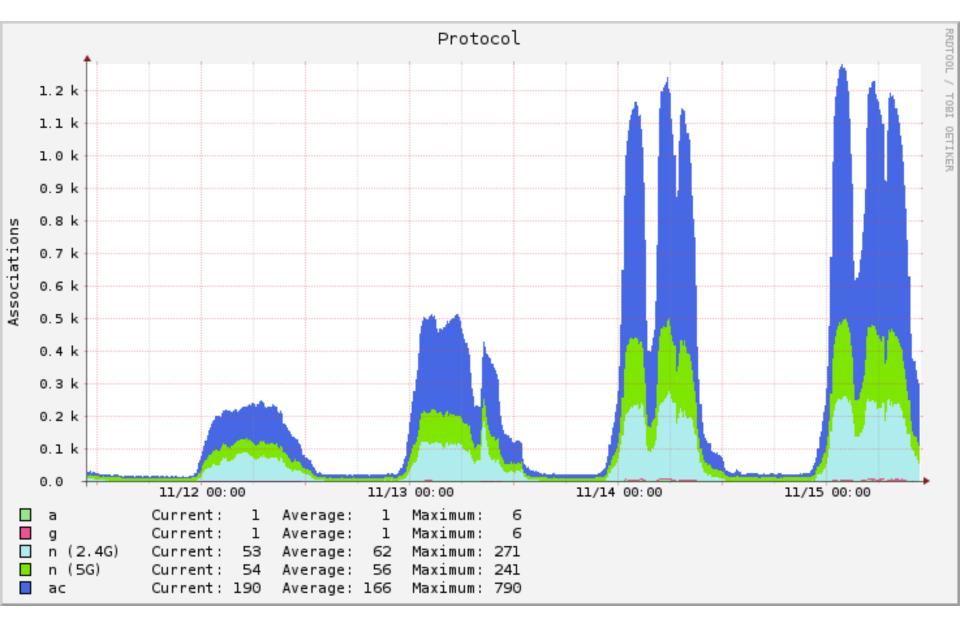


Aggregate Hotel Traffic

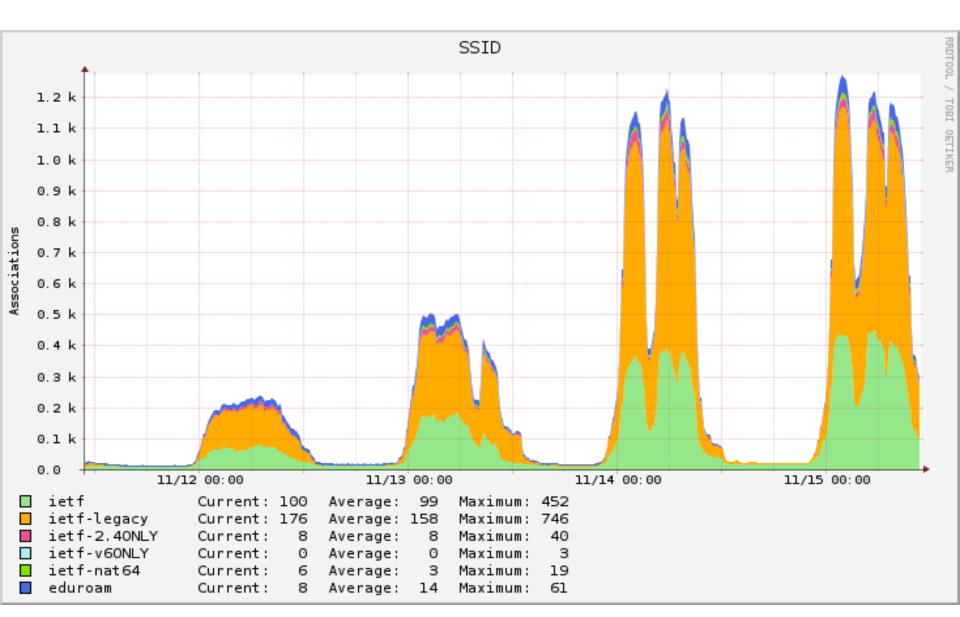


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Wireless Associations (by protocol)



Wireless Associations (by SSID)



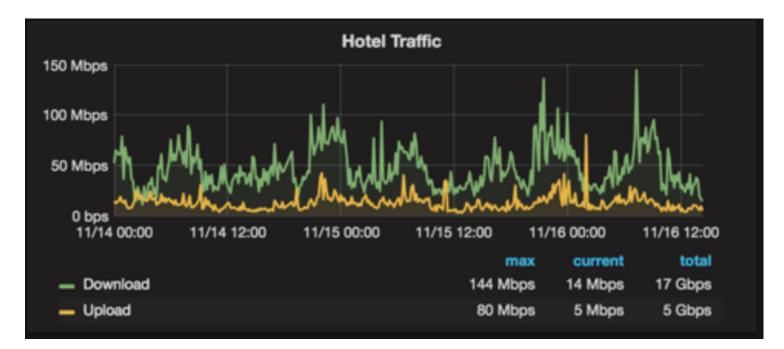
Guestroom MAC Addresses



What's New

- Implemented Cisco CleanAir to proactively manage the RF environment.
- We have further expanded our monitoring tools to track the wired and wireless network environment.
- Started using Prometheus/Grafana to visualize and monitor various aspects of the network (see following slides)









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)
- Lucy Lynch (NSRC)
- Jim Martin (INOC)
- Rob Nagy (DeepDive Networking)
- Karen O'Donoghue (ISOC)
- Clemens Schrimpe

Verilan:

- James Dishongh
- Geofry Glenn
- Reid Kells
- Nick Kukich
- Con Reilly

Thank You

- NTT
 - Connectivity
- Cisco
 - Gear contribution
- Juniper
 - Gear contribution
- A10 Networks
 - Gear contribution
- V6Sonar
 - Software contribution

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



cisco.



And our friends here at the Conrad Seoul.