Network Basics

• Two 1Gbps dedicated circuits from British Telecom (BT)
• Two Cisco 5520 Wireless LAN Controllers and sixty (60) 802.11ac (Wave 2) Cisco Access Points.
• IETF network extended to the hotel guest rooms
External Traffic

Inbound Traffic

Outbound Traffic

British Telecom (1)

British Telecom (2)
Aggregate Hotel Traffic

![Hotel Bandwidth Graph](image)

- **Downstream**
  - min: 26.3 Mbps
  - max: 340.9 Mbps
  - avg: 123.7 Mbps
  - current: 86.3 Mbps

- **Upstream**
  - min: 5.1 Mbps
  - max: 135.9 Mbps
  - avg: 27.2 Mbps
  - current: 17.3 Mbps
Wireless Traffic (per protocol)
Wireless Traffic (per SSID)
Wireless Associations (by SSID)

<table>
<thead>
<tr>
<th>SSID</th>
<th>MAX Associations</th>
</tr>
</thead>
<tbody>
<tr>
<td>IETF</td>
<td>526</td>
</tr>
<tr>
<td>IETF-Legacy</td>
<td>250</td>
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<tr>
<td>Eduroam</td>
<td>115</td>
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<tr>
<td>IETF-2.4ONLY</td>
<td>49</td>
</tr>
<tr>
<td>IETF-nat64</td>
<td>60</td>
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</tbody>
</table>
Access Point Deployments
What’s New?

• Full deployment of newly donated Cisco equipment: 2802i access points, 3850 switches.
• Hackathon dedicated Network for experiments and multiple Network Models
Network Team

IETF NOC Team Volunteers:
• Clemens Schrimpe
• Hirochika Asai (Preferred Networks / WIDE)
• Randy Bush (IIJ)
• Bill Fenner (Arista) – in absentia
• Rob Austein (DRL)
• Joe Clarke (Cisco)
• Bill Jensen (University of Wisconsin–Madison)
• Warren Kumari (Google)
• Hans Kuhn (NSRC)
• Jim Martin (INOC)
• Karen O'Donoghue (ISOC)

Linespeed Events:
• Rick Alfvin
• Sean Croghan
• Nick Kukich
• Edward McNair
• Con Reilly
Thank You

• British Telecom (BT)
  • Connectivity
• Cisco
  • Gear contribution
• Juniper
  • Gear contribution
• A10 Networks
  • Gear contribution
• OSC Radiator
  • Licensing

• Ubiquiti Networks
  • Gear contribution
• Netbeez
  • Gear contribution

And our friends at the Hilton.