

# Network Operations

ECON

NOC



- **Wired Infrastructure**

- Closed Captioning
- Contests
- DC TV
- Goons
- Media Server
- openCTF
- Press
- rootz
- SOMA FM
- Speakers
- Vendors
- WiFi Monitoring
- Workshops

- **DC TV**

- for those people in their rooms

- **Wireless Infrastructure**

- for the the brave people
- openCTF



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# The Network

- 10 gbps backbone
- ~~125~~ 175 200 mbps internet uplink
- Wired
  - Firewall - FreeBSD
  - 2 x Core Cisco Switches
  - 16 x Edge Cisco Switches
  - Media Server

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# The Network (cont)

- Wireless
  - 7210 Aruba Controller
  - 61 Aruba Access Points (70, 105, 135, 225)
- DCTV
  - 10 raspberry pis
  - 5 channels in both Paris and Bally's
  - Video Transcoding provided by SOK
  - Video Transient Server in the NOC

- HD Broadcast
- New Internet Streams ([qwikcast.tv](http://qwikcast.tv))

- CGC
- DC 101
- Closing Ceremonies

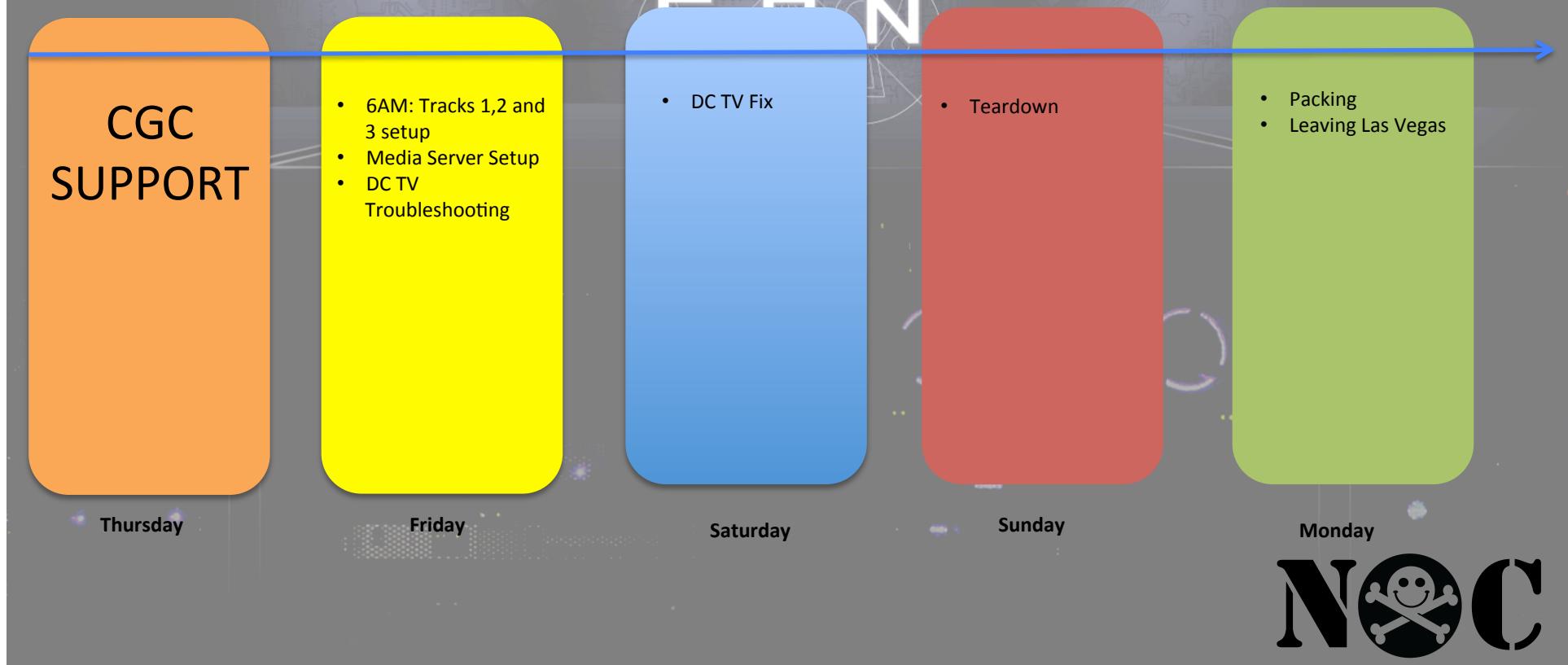
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# Timeline



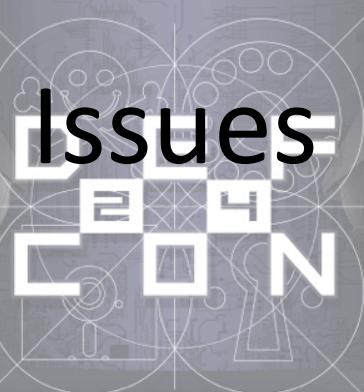
**NOC**

# Timeline (cont)

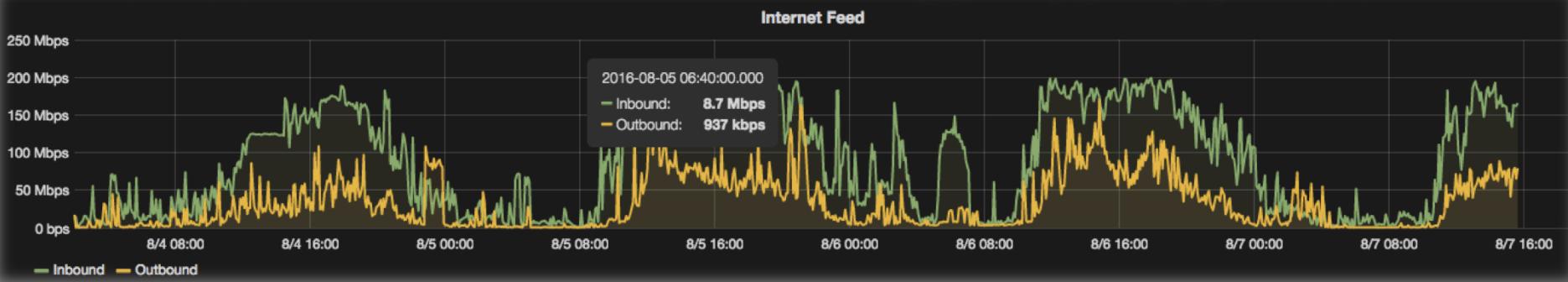


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# Issues



- Bandwidth
- AP Coverage
- DC TV
  - bandwidth X streaming
  - resolution
  - switched from rtsp to rtmp



# The Usual Stats

- 4.29 TB of internet traffic
  - Inbound: 3.13487072983
  - Outbound: 1.1607473418
- 4029 users registered on wifireg
- 1400 wireless users peak
- 35k unique DHCP leases
- 10k different mac addresses
- 10.29 TB of wireless traffic
- 1.76 TB media server traffic

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# Top 10 Wireless Chipsets



NOC  
N  
O  
C

# efffn's twelve



• DC TV

- videoman
- serif

• WiFi

- planb

– CRV

• N00bs

- c7five
- deadication

• Leads

- @efffn
- mac

• Infra/ Systems

- #sparky
- naifx
- booger
- commiebstrd

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- DT
- Russ
- Charel
- Ceasars IT Staff
- Encore Staff
- Source of Knowledge
- The nice folks who always bring us snacks!
- YOU!

THANKS!  
DEFCON

<http://defconnetworking.org>

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