IPv6 Only Network

Feedback



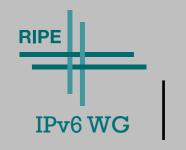


When Did We Start?

- RIPE 36 May 2000 in Budapest
 - "Participants had a chance to try IPv6 demo in terminal room"
- RIPE 37 September 2000 in Amsterdam
 - Monica Cortes: "If you have IPv6 configured on your laptop, and are connected to LAN here, you can use IPv6"



Time for the next step...



IPv6 Only Networking Koup Initiative An IPv6 Working

SSID IPV6ONLYEXP

Password iknowbesteffort

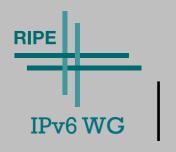
Not supported by RIPE NCC Technical Team

• Ac

IPv6 Only Networking Kup Initiative An IPv6 Working An IPv6 Working

- Acknowledgements
 - Thanks to Cisco for their gear and manpower in making this work
 - RIPE NCC IT and Meeting Operations
 - They didn't support it, but it would not have been possible without them

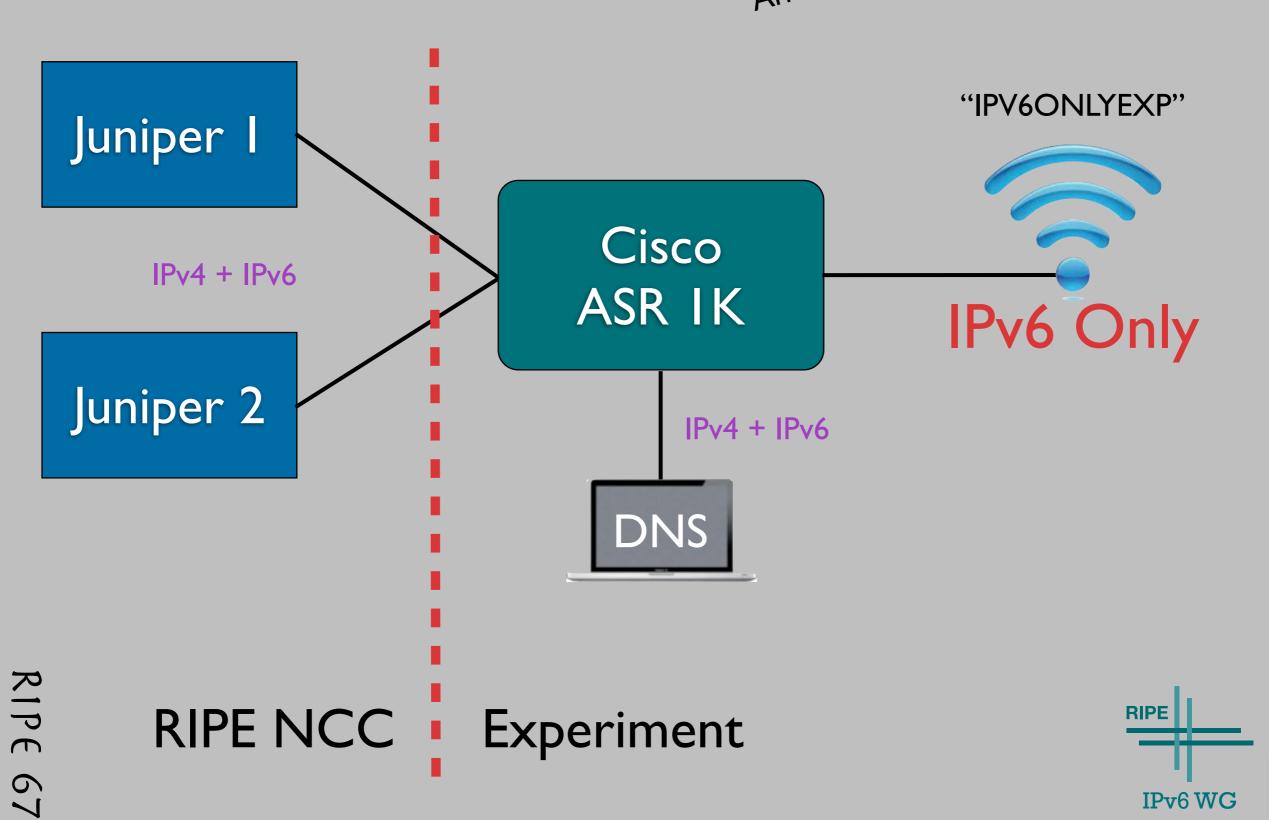




Wholesale Model

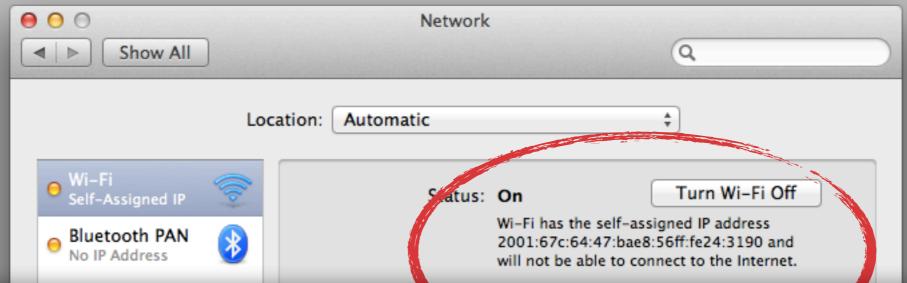


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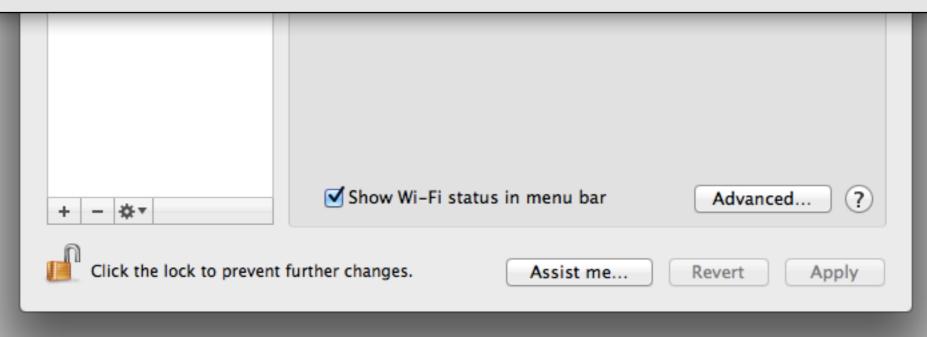


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Pv6 Only Networking Koup Initiative An IPv6 Working



Wi-Fi has the self-assigned IP address 2001:67c:64:47:bae8:56ff:fe24:3190 and will not be able to connect to the Internet.

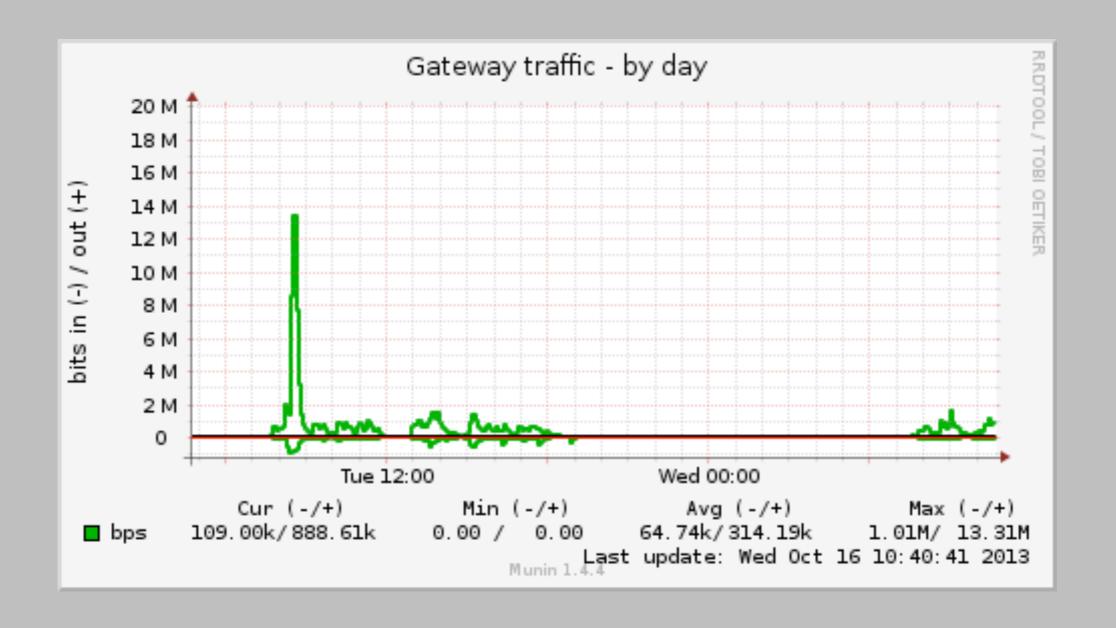




Statistics

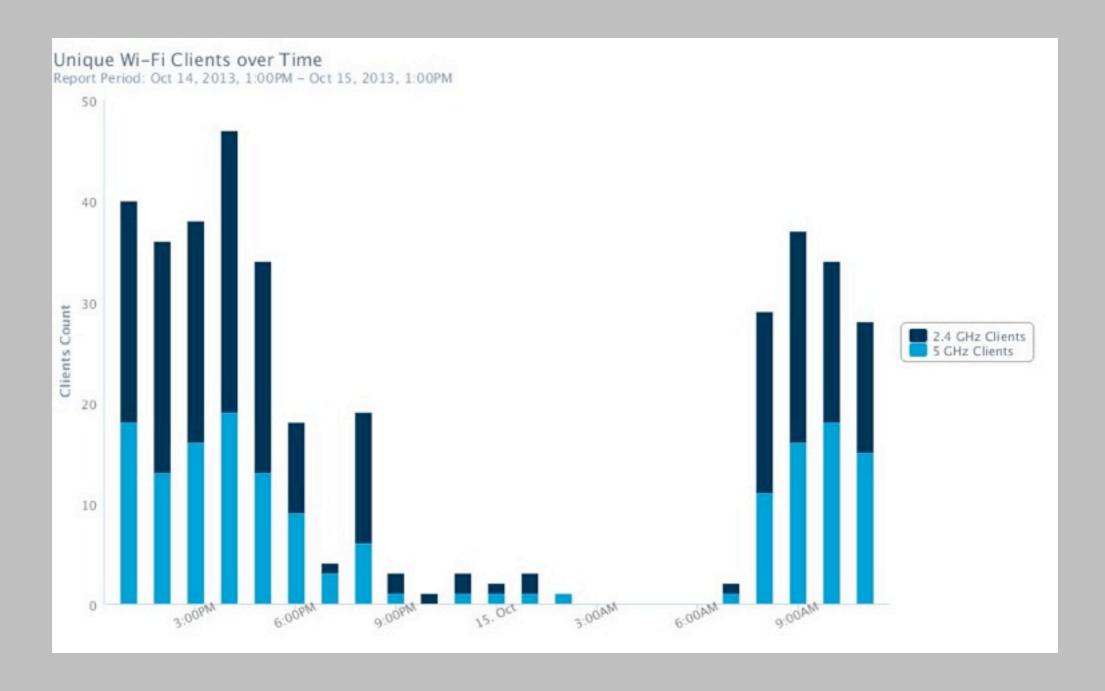


Traffic





Clients





Incidents

 Failure Monday afternoon caused by a patch cable falling out of our laptopserver



Imprecise Network Monitoring



RIPE 67

Twitter feed

(using NAT64)



Lee Howard @WL @AOL Sitting at a only network with



1d

Anyone know if the #IPv6 #iMessage bug has been reported to Apple yet?
#IPv6OnlyE

Mohsen Souissi @Mo



Stéphane Bortzmeyer @bortzmeyer 7
@marcohv20 @kolkman I had no
problem with pure client/server apps
(Web, SSH...) I still have to test more
2P2 stuff. #IPV6ONLYEXP



Lee Howard @WLeeCoyote @bortzmeyer Post your #IPV6ONLYEXP results! Oh wait, @twitter won't be reachable.



Bruno STEVANT @bstevant 20 #IPv6 only WiFi network should be the





Stéphane Bortzmeyer 🔷 📢 🛊

No access to #IPV6ONLYEXP from Android/CyanogenMod: it stays at "getting IP address" probably insisting on an IPv4 one.



Stéphane Bortzmeyer @bortzm Watching Miley Cyrus over #IPV6ONLYEXP. The content is exactly the same.



Scott L @ayourl

#IPV6ONLYEXP network with their

I'm now experimening the #IPv6-only

network at #RIPF67, "Eating my own



Lee Howard @WLeeCoyote

@Skype Sitting on an #IPv6-only
(+NAT64) network at a mee

Skype. Community, Hearth
fail. #IPV6ONLYEXP



Stéphane Bortzmeyer @bortzmeyer 33m Tested #IPv6ONLYEXP with IRC:

works. Some IRC (freenode, geekno (eversible) but wo



Dmitry Kohmanyuk @dk379

Connected my #iOS7 iPod touch to #IPV6ONLYEXP SSID at #RIPE67 some Internet works but #Facebook app cannot post status update #ipv6



Scott Leibrand @scottleibrand
@ayourtch After disconnecting and
reconnecting to #IPV6ONLYEXP,
iMessage breaks again, even after it
shows a 169.254/16 address. A
timeout?



Cooks lik

#IPV6ONLYEXP on #ripe67 caused my Wi-Fi driver to overflow the scan result table :(



Andrew Yourtchenko @ayourtch 18h @dk379 @scottleibrand iMessage: wait for 5 minutes. Patience is a virtue! :-) It's the same bug with IPv4 link-local timeout #IPV6ONLYEXP?

#IPV6ONLYEXP



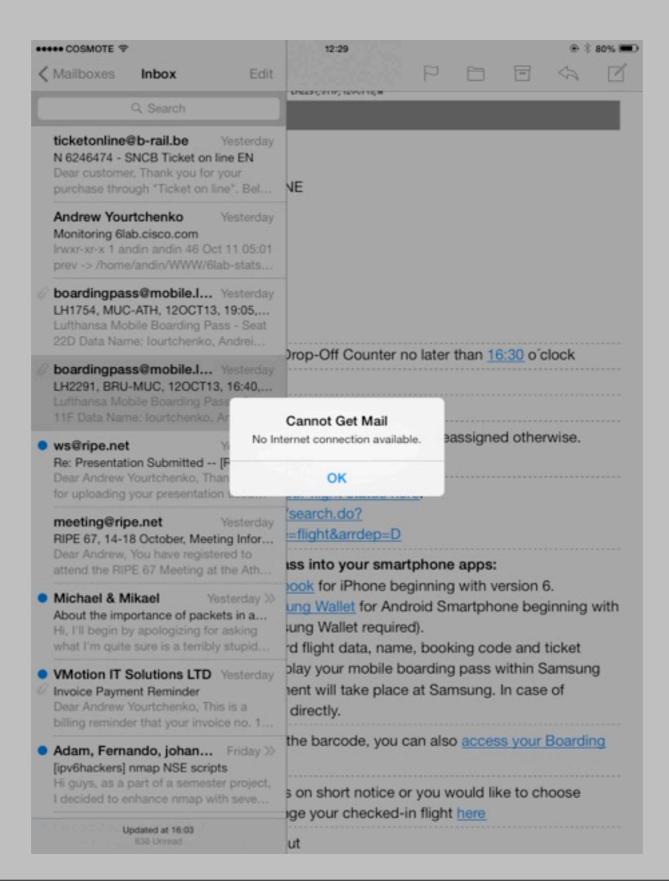
Facebook

(They do IPv6)





Mailing List

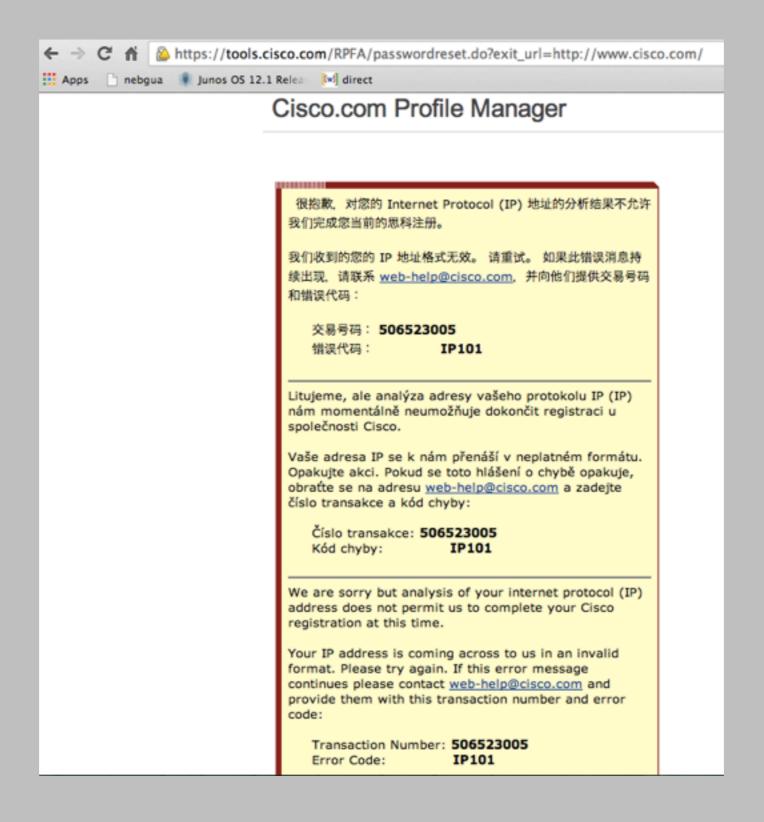




Observations



Cisco Password Reset





Cisco Knows

"Cisco.com error code IP101 occurs whenever connecting to Cisco.com using an IPV6 address while resetting a password or registering on

Cisco.com. Cisco is aware of this issue and a development team is working on a permanent fix.

As a workaround, please use an IPV4 address and refer to your internal IT for questions on how to enable an IPV4."

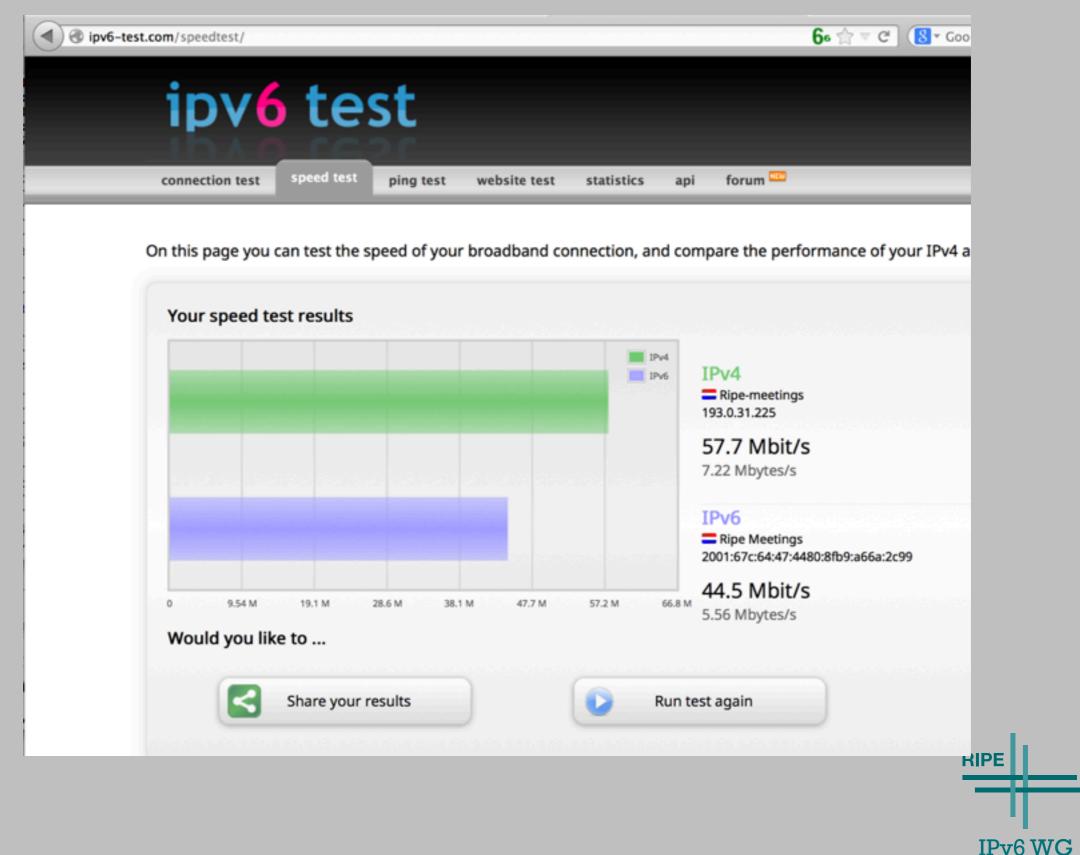
RIPE 6:

DNS Issues

- You need a resolver to make things work
 - For NAT64 you needed _our_ resolver
- DNS resolver address offered on
 - DHVPv6
 - RFC 6106 compatible RA options
- Older clients didn't support either option
- Manual configured resolvers overriding the one we supplied

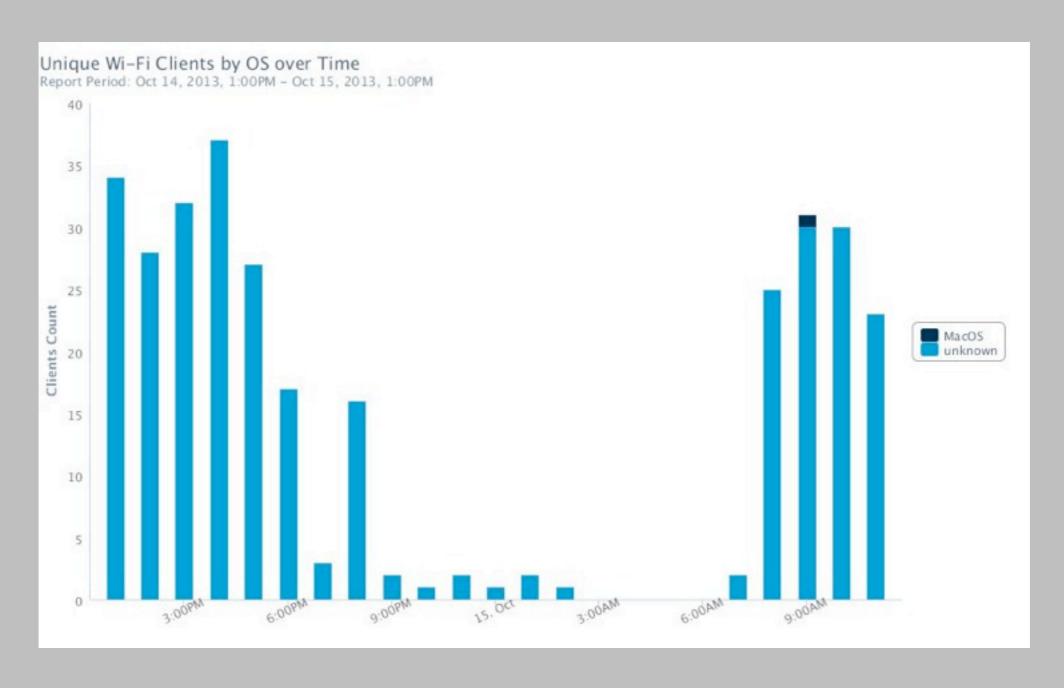
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Speed Test

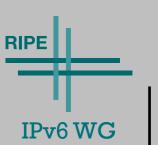


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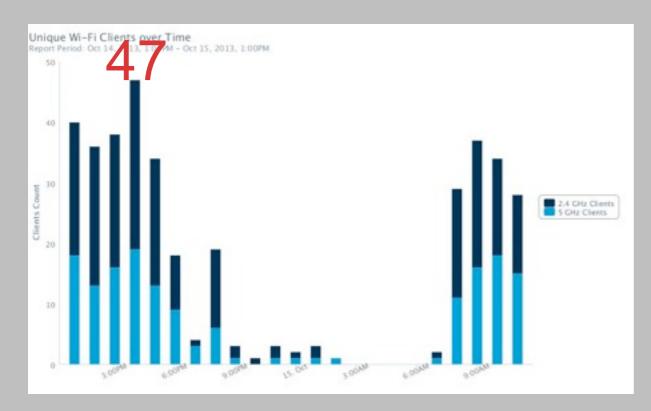
Aerohive Manager



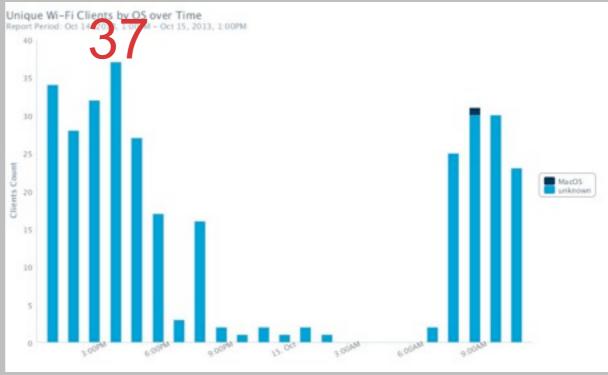
"Unknown"



Aerohive Manager



Number of clients



Number of IPv4 clients?



Feedback? Should we do this again? Would you try this in your own network?