

RIPE 86 Technical Report

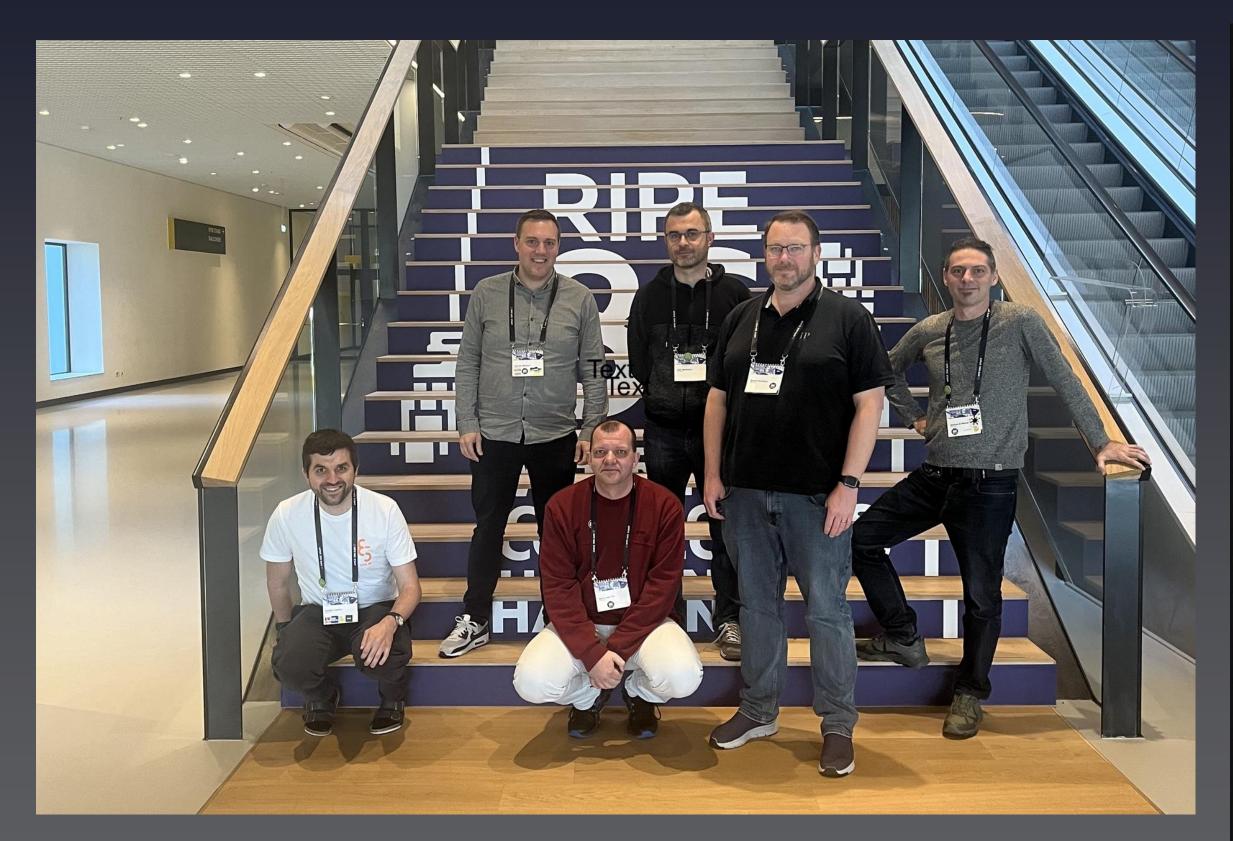


Rob de Meester RIPE 86 26 May 2023



Meet the Team

- Andrea di Menna
- Menno Schepers
- Marco van Tol
- Sjoerd Oostdijck
- Ihor Marhitych
- Ondřej Caletka
- Xavier Le Bris
- Rob de Meester



Rob de Meester | RIPE 86 | 26 May 2023 |



Menno Schepers



You can photoshop this in, I'm not going to make it. You can tell them I had late duties last night 4m





Preparations

- 3 days to set up
- We brought:
 - 2 SuperMicro Servers (E300-9D-8CN8TP)
 - 50 Wi-Fi Access Points
 - 300 ethernet cables (colour coded, 1m to 30m)
 - 20 Raspberry Pis
 - 3 presentation kits
 - 190 power blocks (6-way power extension)
 - Lots of gaffer tape

Rob de Meester | RIPE 86 Rotterdam | 26 May 2023 |





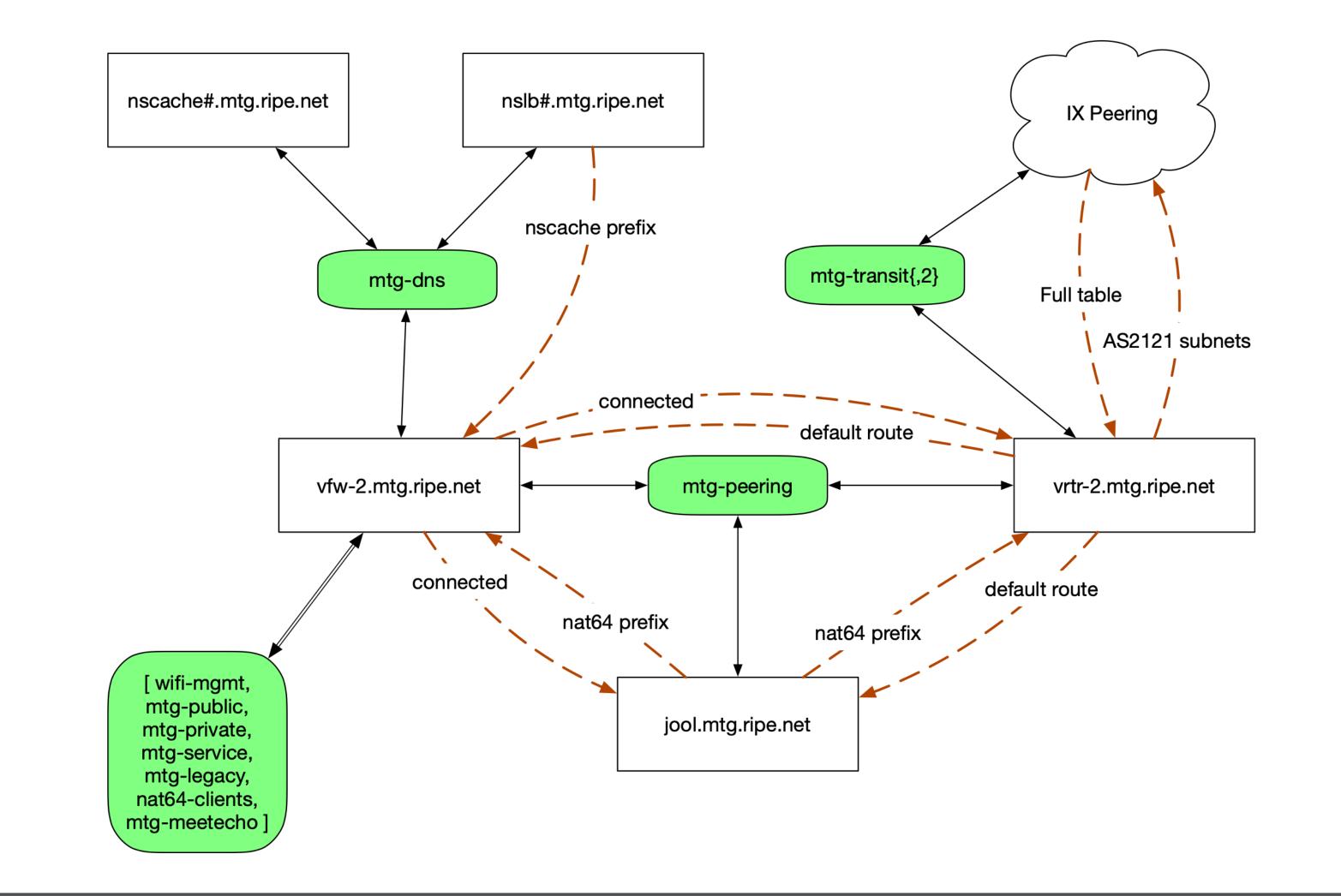




The Network



Logical Network Topology

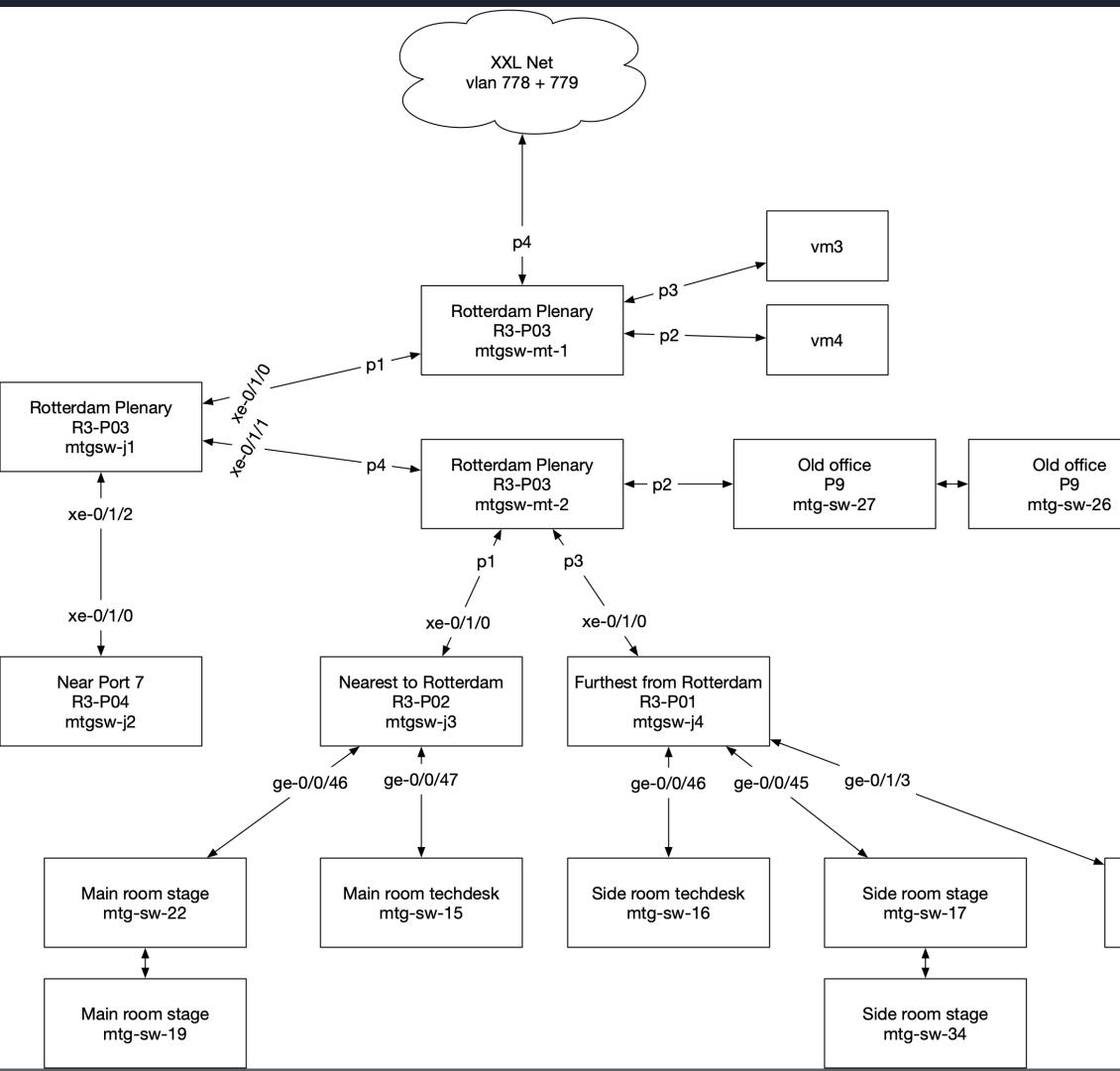


Rob de Meester | RIPE 86 Rotterdam | 26 May 2023 |



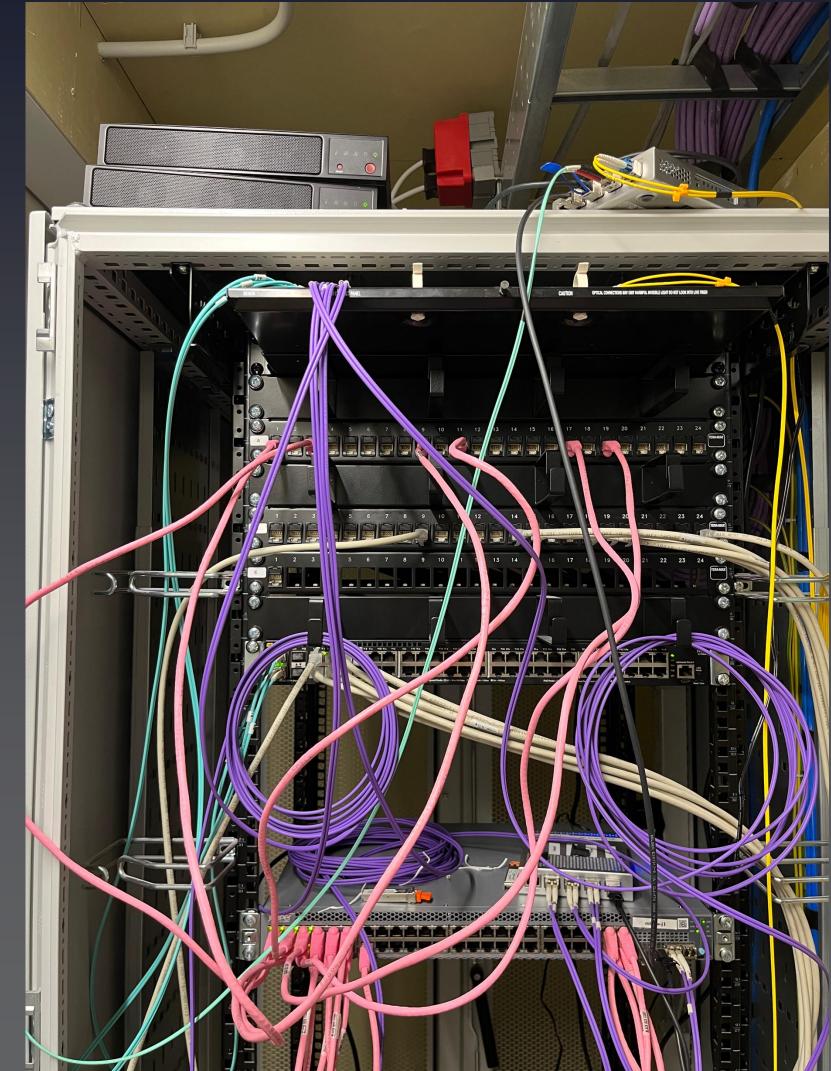


Physical Network Topology



Rob de Meester | RIPE 86 | 26 May 2023





DNS Hackathon 2nd floor mtg-sw-31



Wi-Fi Access Points



Rob de Meester | RIPE 86 | 26 May 2023



7

Wi-Fi Network

Main network: 5 GHz-only, IPv6-mostly

• NAT64 network: 5 GHz-only, IPv6-only

Legacy network: 5 GHz and 2.4 GHz, dual-stack

Rob de Meester | RIPE 86 | 26 May 2023 |



nly, IPv6-mostly only, IPv6-only and 2.4 GHz, dual-stack



IPv6-mostly Fine

- Ondřej wrote a RIPE Labs article* and presented at RIPE85
- ripemtg network uses Jool with 256 IPv4 addresses
- Had issues with some VOD-platforms at RIPE 85
- The Jool developer implemented a new allocation strategy over one weekend

Cisco AnyConnect cannot connect

* https://labs.ripe.net/author/ondrej_caletka_1/deploying-ipv6-mostly-access-networks/





A Flashback to RIPE 66 (2013)

MARCO HOGEWONING: Marco, speaking as co-chair of the IPv6 Working Group, I have an observation, a question and a comment. The observation is these things seem to get really big these days, you pointed out there are 600 associations simultaneously on the network. When do you **expect to run out of IPv4 addresses**?

Right now **we have quite some IPv4 addresses**, we still have some to provide so that shouldn't be a problem for the next meetings. Does that answer your question?

MARCO HOGEWONING: Yes. For the comment, our Working Group participants expressed quite some interest in whether the **NCC should be able to operate an IPv6-only SSID** during the meetings, so please, let it be noted I would like to forward that request to the tech team to see if you can manage to set up an IPv6 only network just as a test in parallel to the regular one







IPv6-only Meeting Network

- Has been with us since RIPE 67, 2013
 - SSID: IPV60NLYEXP, password: iknowbesteffort
 - Since RIPE 71 (2015), the SSID is ripemtg-nat64
- Now it is part of the main meeting network
 - A big majority of devices in the main network are not using IPv4
 - There is still some IPv4 for legacy devices
- Has the time come to turn off the NAT64 network?





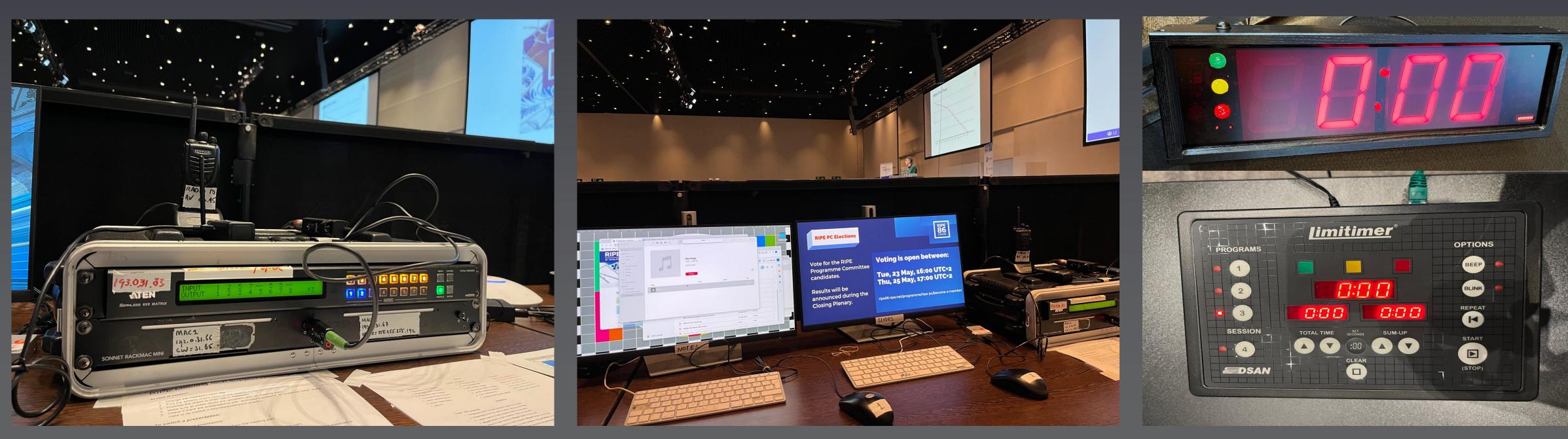






Presentation System

- Two MacMinis, ATEN HDMI Matrix switcher
- DSAN clicker, Limitimer console and clock
- HDMI grabber for Meetecho



Rob de Meester | RIPE 86 | 26 May 2023 |



13

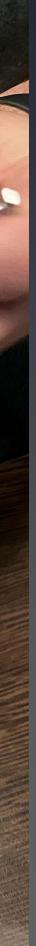
Something didn't click on Wednesday













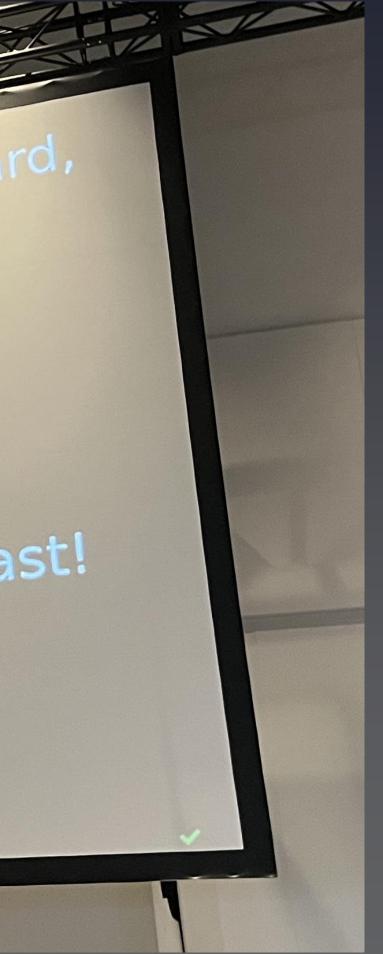
Towel Day: Don't Panic!

identifier in CPE format, so, it's also a standard, each software product, so to each software product will be an unique assignment --STENOGRAPHER: Get the hell out of here fast! (FIRE ALARM)

Phew! False alarm!!

-





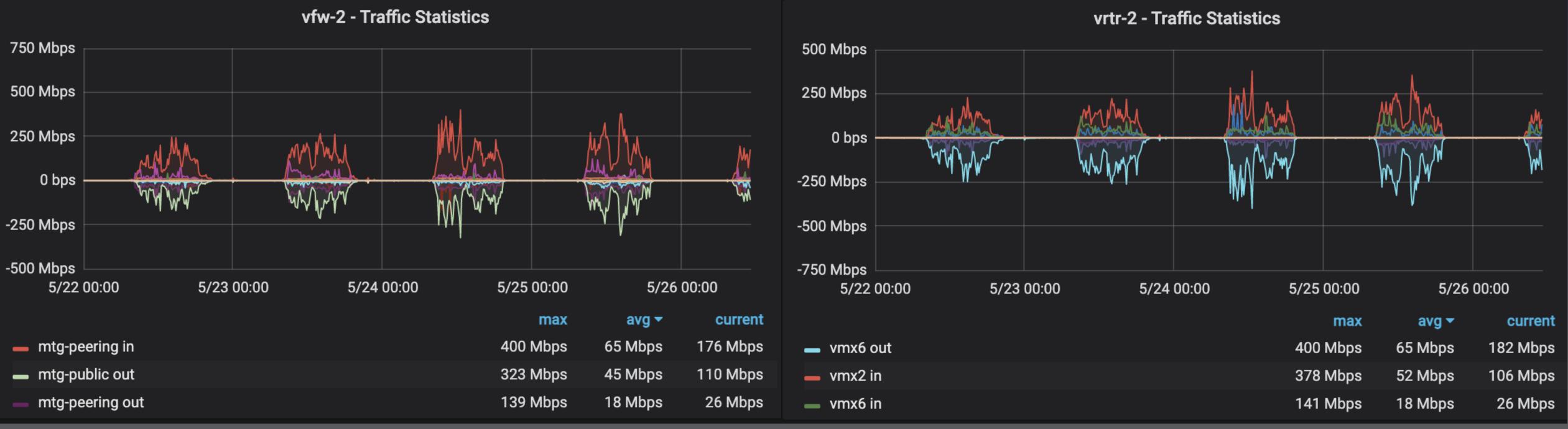






Statistics

Network Graphs







Wi-Fi statistics

- Increase of IPv6-only, due to older devices being replaced
- 2.4 Ghz usage is almost non-existent

2,4 Ghz 4%

> Dual stack 40%

IPv6 only 60%

5 Ghz 96% **RIPE 85**

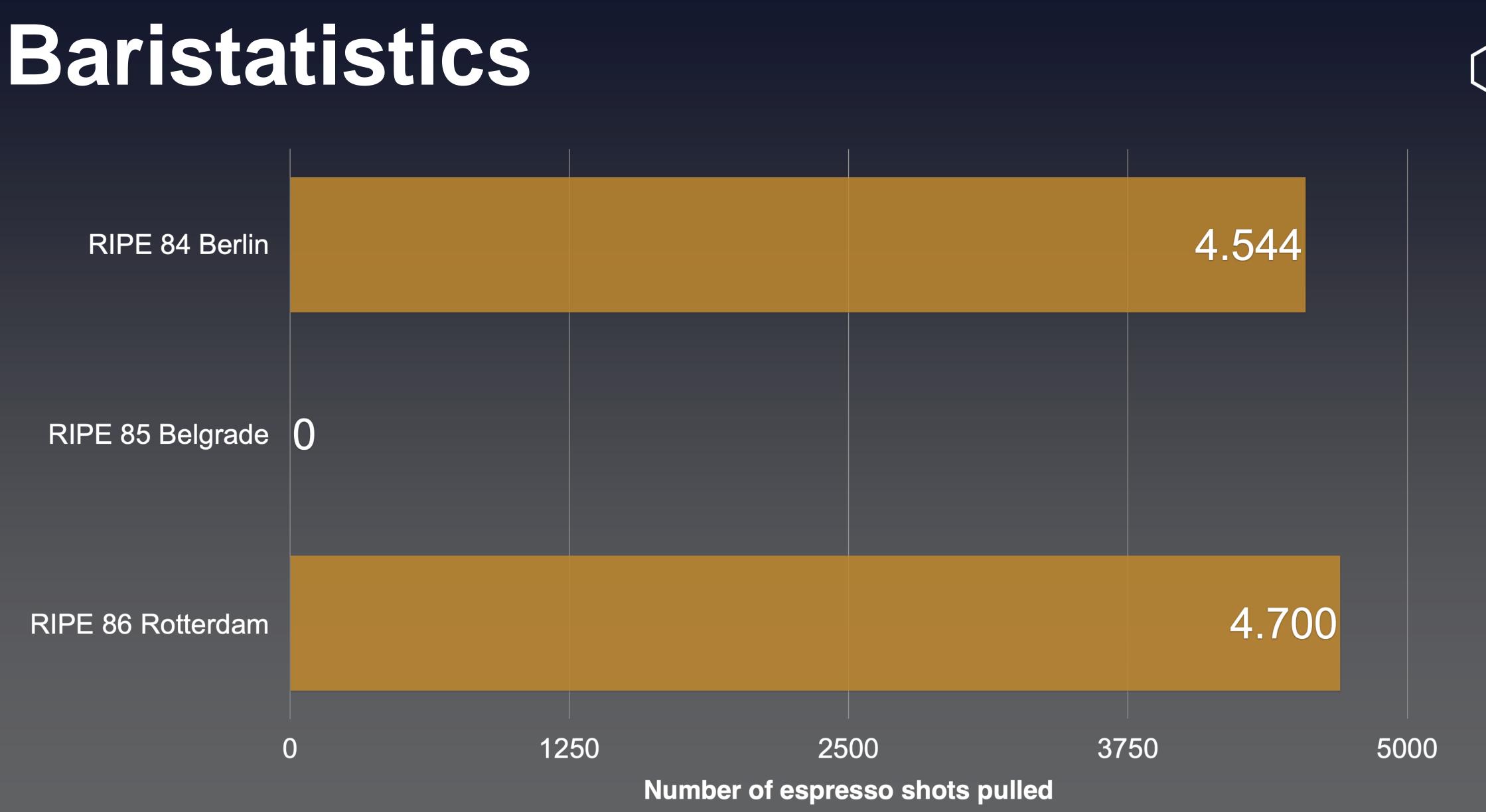
Rob de Meester | RIPE 86 | 26 May 2023 |



2,4 Ghz 3%



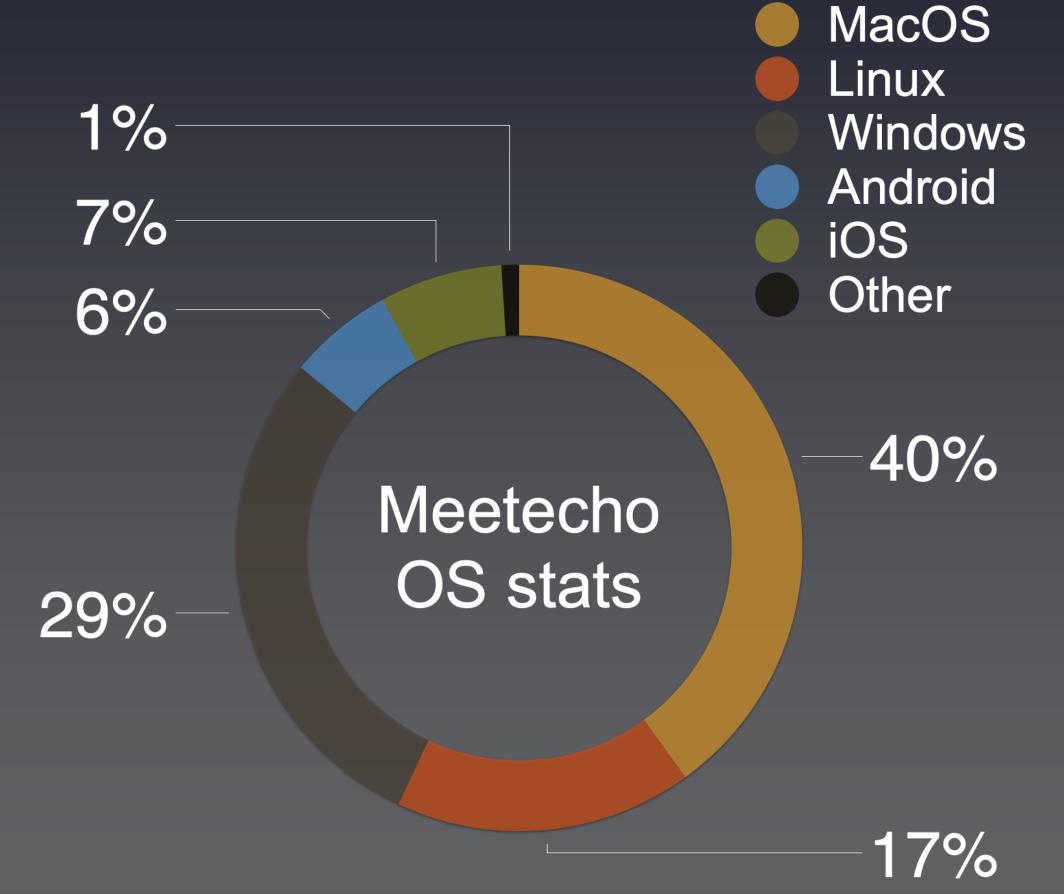
IPv6 only 5 Ghz 78% 97% **RIPE 86**







Online Participation

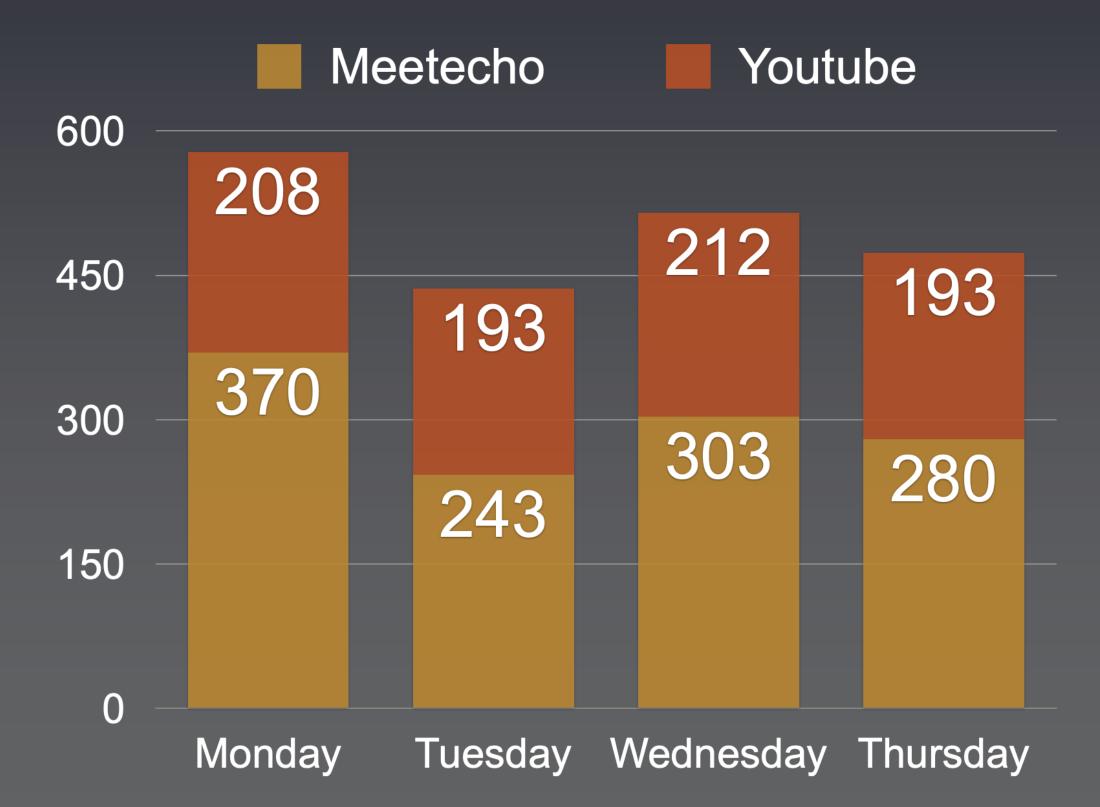


Rob de Meester | RIPE 86 | 26 May 2023 |





• 49,31% joined Meetecho over IPv6





Web Team

- Ihor Marhitych
- Marita Phelan
- Frantisek Holop
- Tommaso Amici
- Jura Zakarija

- Tobia Castaldi Alessandro Toppi
- Aoife Downes
- Mary McKeon
- Tina Kealy
- Anna Papa Murphy

Rob de Meester RIPE 86 26 May 2023

Meetecho Team



Steno Team

21

Questions

opsmtg@ripe.net

https://ripe86.ripe.net/feedback/



