

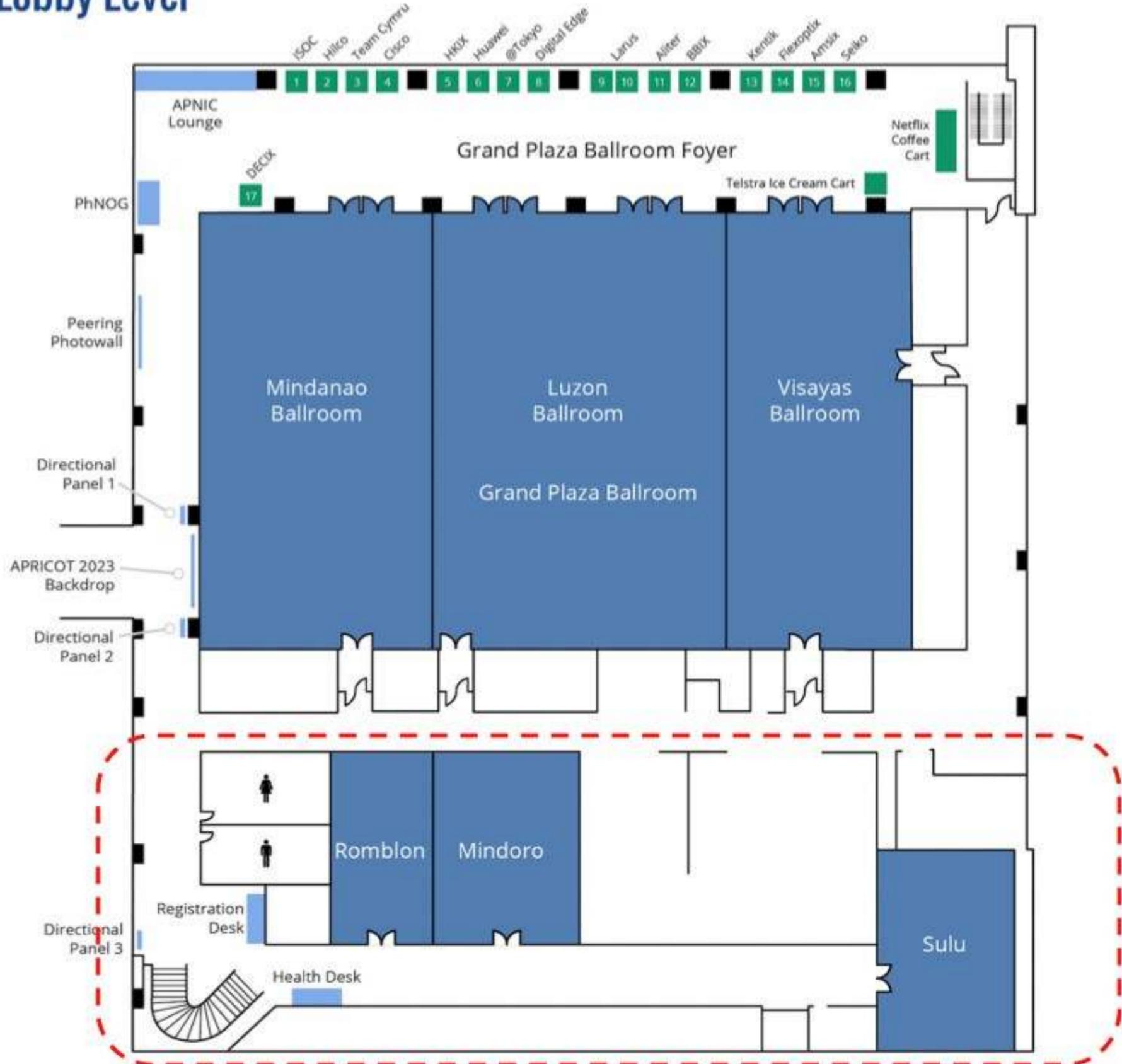
# APRICOT Manila 2023

## Network Report

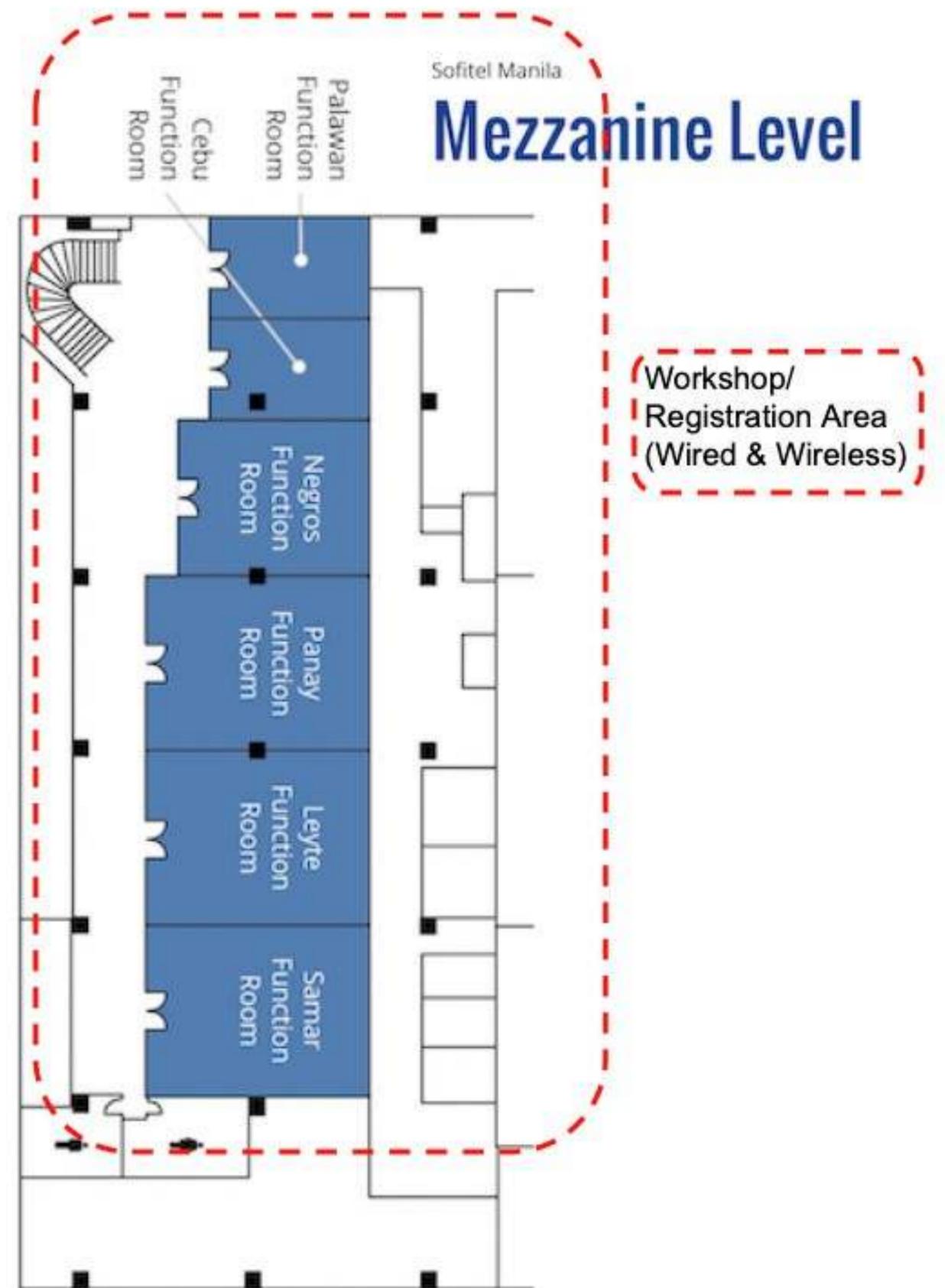
Philip Smith, Mark Tinka, Yoshinobu Matsuzaki, Achie Atienza, Richie Ricafrente, Arth Paulite, Shane Hermoso, Ronald Ballesteros, Jasper, Alvin de Gracia, Jaros Lacerna, Randy Dahilig, Rommel Salar, Jervic Santos, Michael Gonzales, Gly Apolonio, JR Capitulo, Dyanne Sepian, Aira, Reygn Boniel

# SOFITEL Layout As of Feb 17, 2023

## Lobby Level



## Mezzanine Level



# Wide Area Network



- Transit Provider : Philippine Long Distance Telephone Co (PLDT)
- Transit Provider : Converge ICT Solutions Inc.

# Network Gear

- Router1 - Cisco IOS XR Software (Cisco ASR9K Series), Version 5.2.4
- Router 2 - Juniper SRX4200 JunOS 20.2R3-S2.5
- Core Switches 1/2 - Juniper EX4550-32F JunOS 13.2X51-D35.3
- Edge Switches 1/2/3/4/5 - HP ProCurve WC.16.10.0009
- Cisco Meraki PoE M120-24P and M120-8FP
- Wifi APs - Cisco Meraki MR36 and MR20

# PLDT

- PLDT already had their facilities inside the hotel
- They only had to extend their fiber from their on-premise equipment somewhere in the hotel, going to another room in the hotel where the ballrooms and function rooms terminate their network cabling

# Converge ICT

PROP. 4C. FOC. (BARE)

PROP. POI

(PSY-CL-0008-UG

11/10/2022 10:40:17 am

14.553127533073738N 120.98158931009014E

Atang Dela Rama

Pasay

PROP. 4C. FOC. (E

PROP. POI

(PSY-CL-0008-U

PROP. 4C. FOC. (BARE)



UTILIZE EXISTING

PROP. 4C. FOC. (BARE)

HOLE

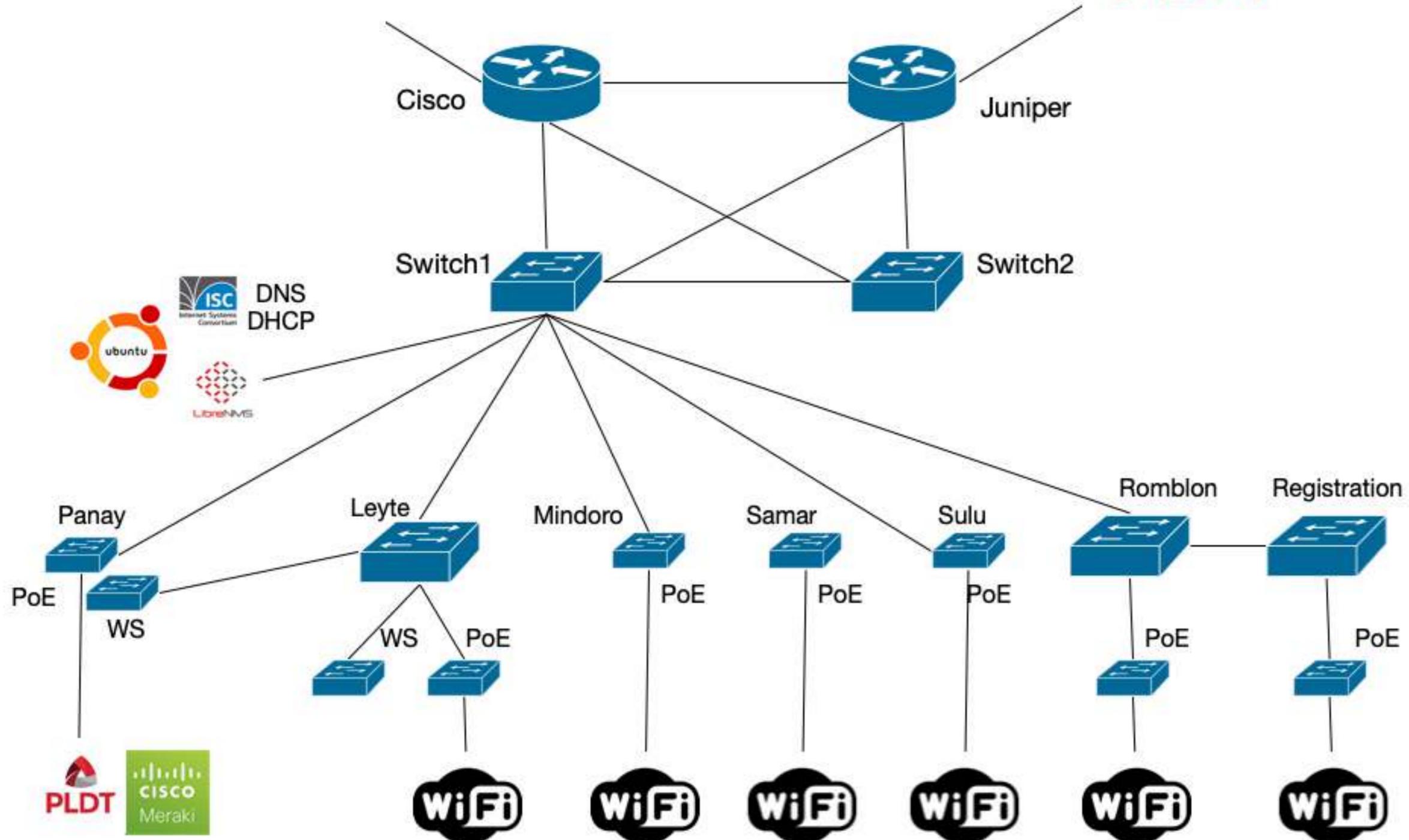


PROP. 4C. FOC. (BARE)

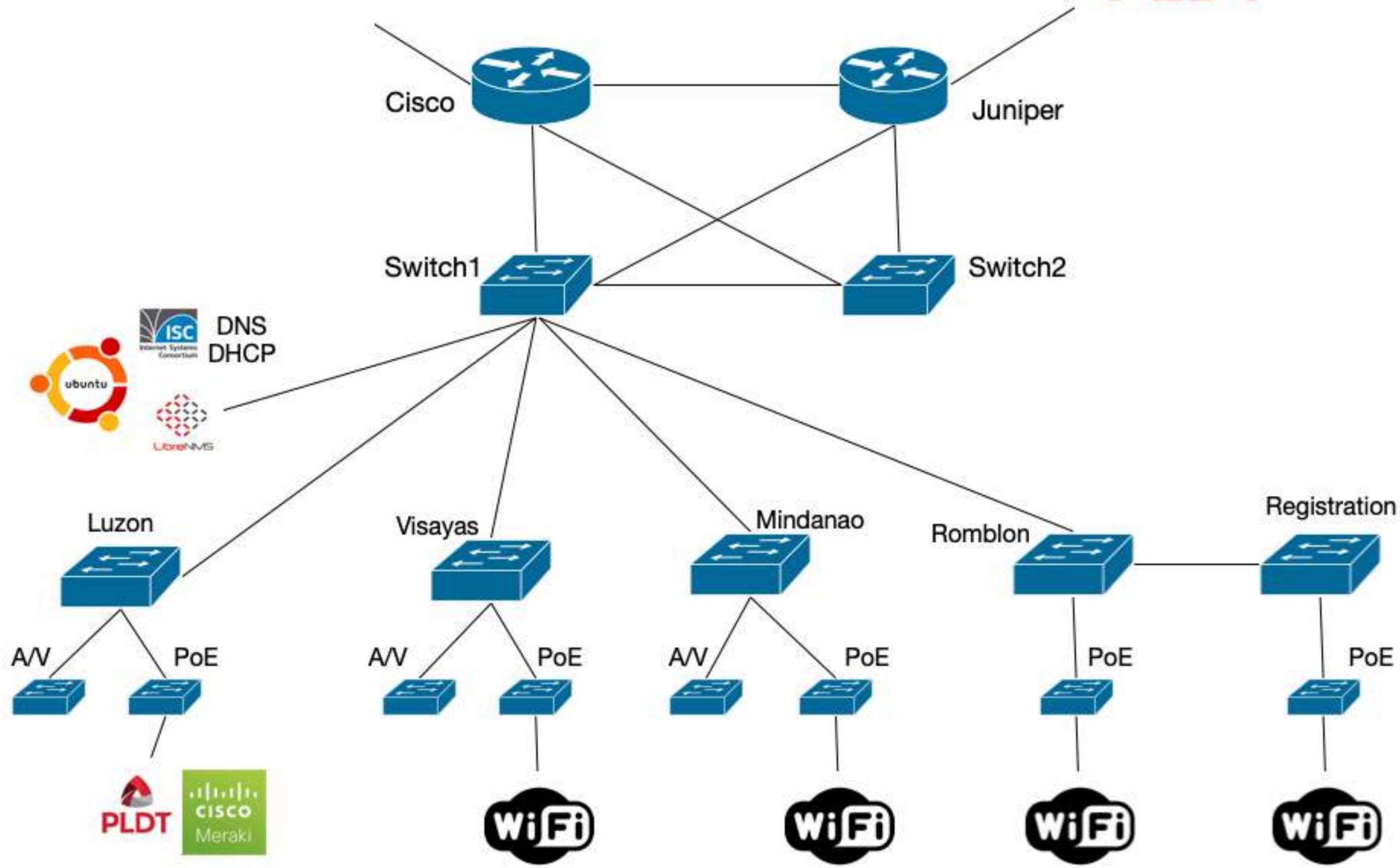
PROP. LOC. OF CPE



# Workshop Week



# Conference Week



# PLDT's IPv4 prefix



Prefixes

■ In

■ Out

Now

927.37k

1.00

Ave

927.24k

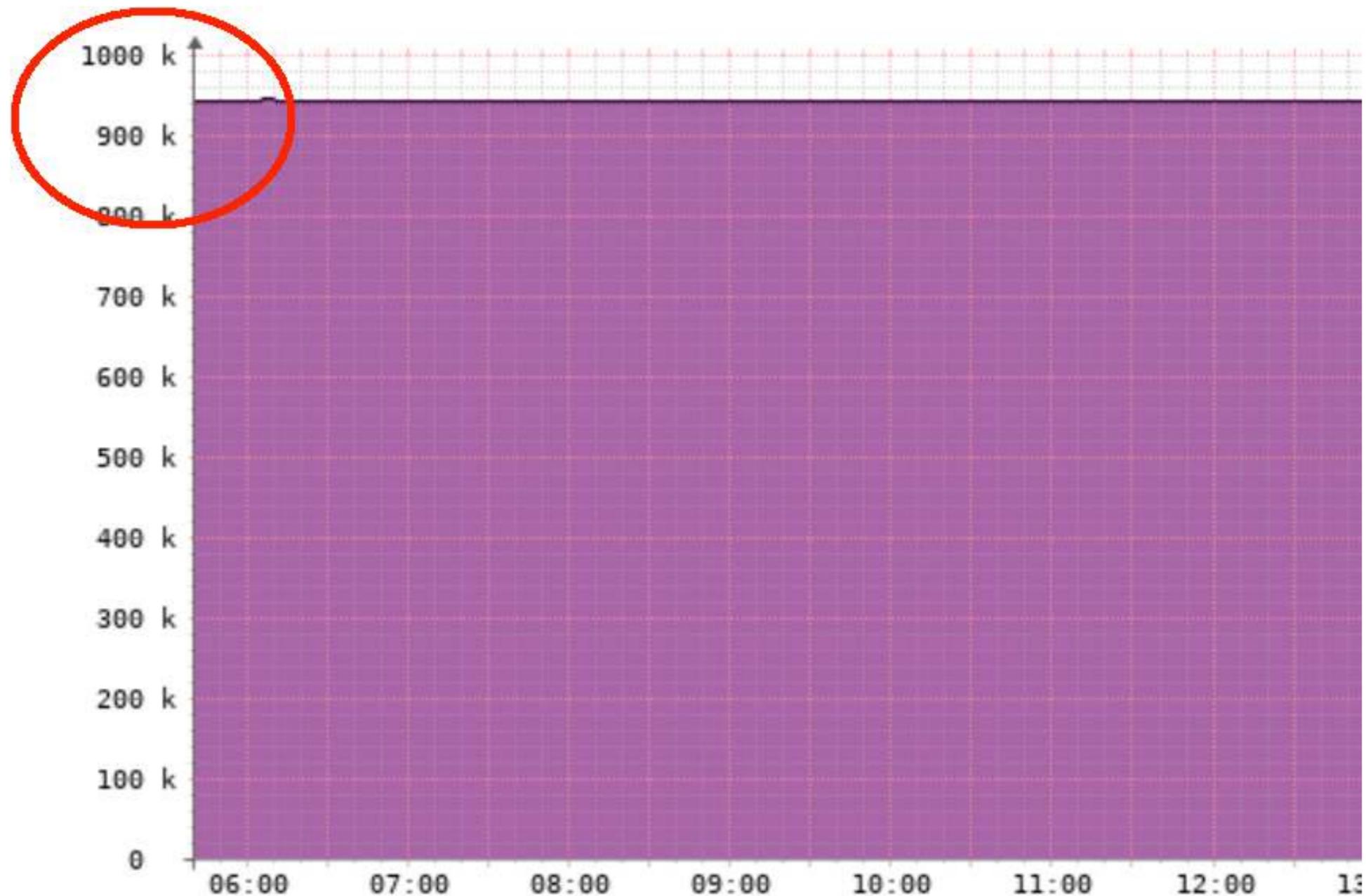
1000.00m

Max

928.03k

1.00

# Converge's IPv4 prefix



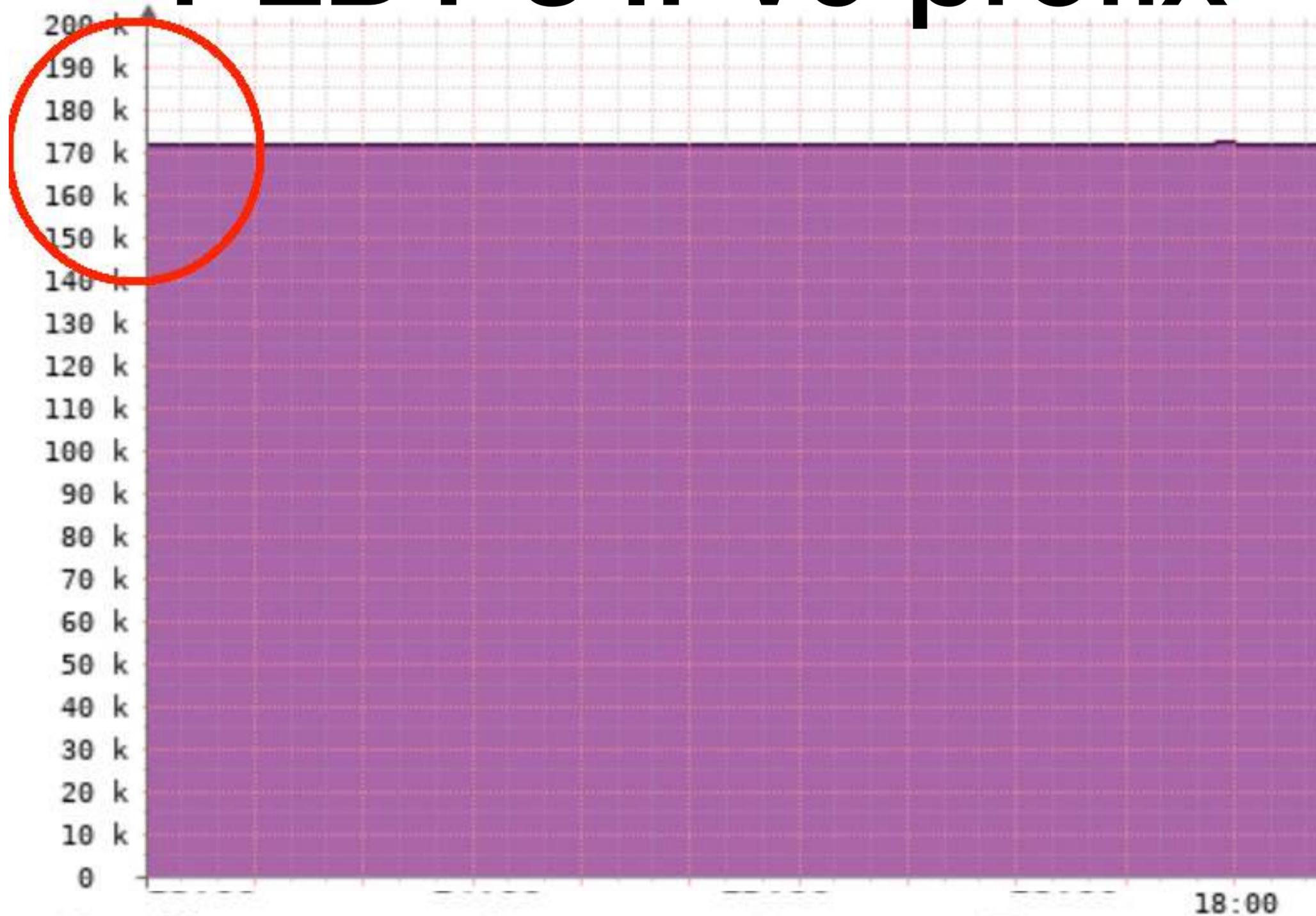
Prefixes

■ In

■ Out

	Now	Ave	Max
	<u>944.12k</u>	<u>944.54k</u>	<u>945.02k</u>
	1.00	1.00	1.00

# PLDT's IPv6 prefix



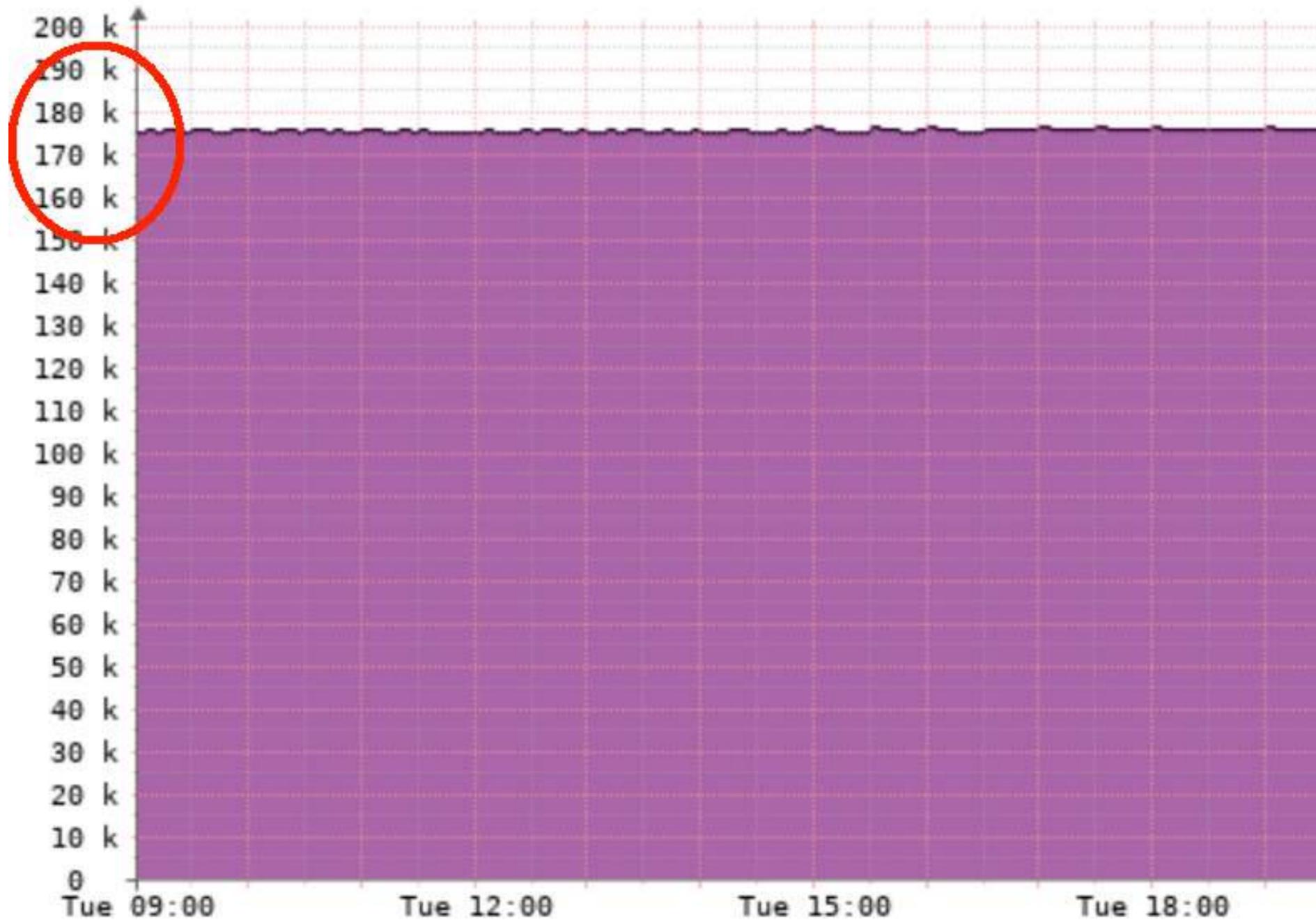
Prefixes

■ In

■ Out

	Now	Ave	Max
In	172.33k	172.26k	172.44k
Out	1.00	13.13m	1.00

# Converge's IPv6 prefix



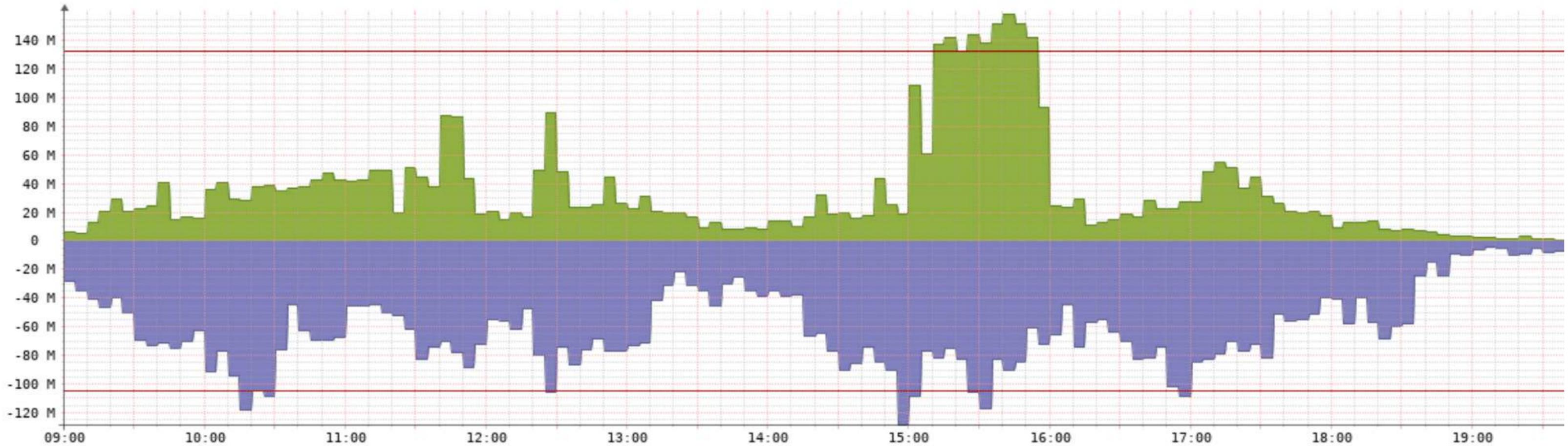
Prefixes

■ In

■ Out

Now	Ave	Max
<u>175.99k</u>	170.21k	176.71k
1.00	967.97m	1.00

# Converge traffic



bps	Now	Ave	Max	95th %
In	55.41k	26.20M	158.35M	132.27M
Out	261.59k	47.09M	128.70M	104.42M
Total	464.45GB	(In 166.02GB	Out 298.43GB)	
Port Speed	20 Gbps			

# PLDT traffic



# Local Area Network

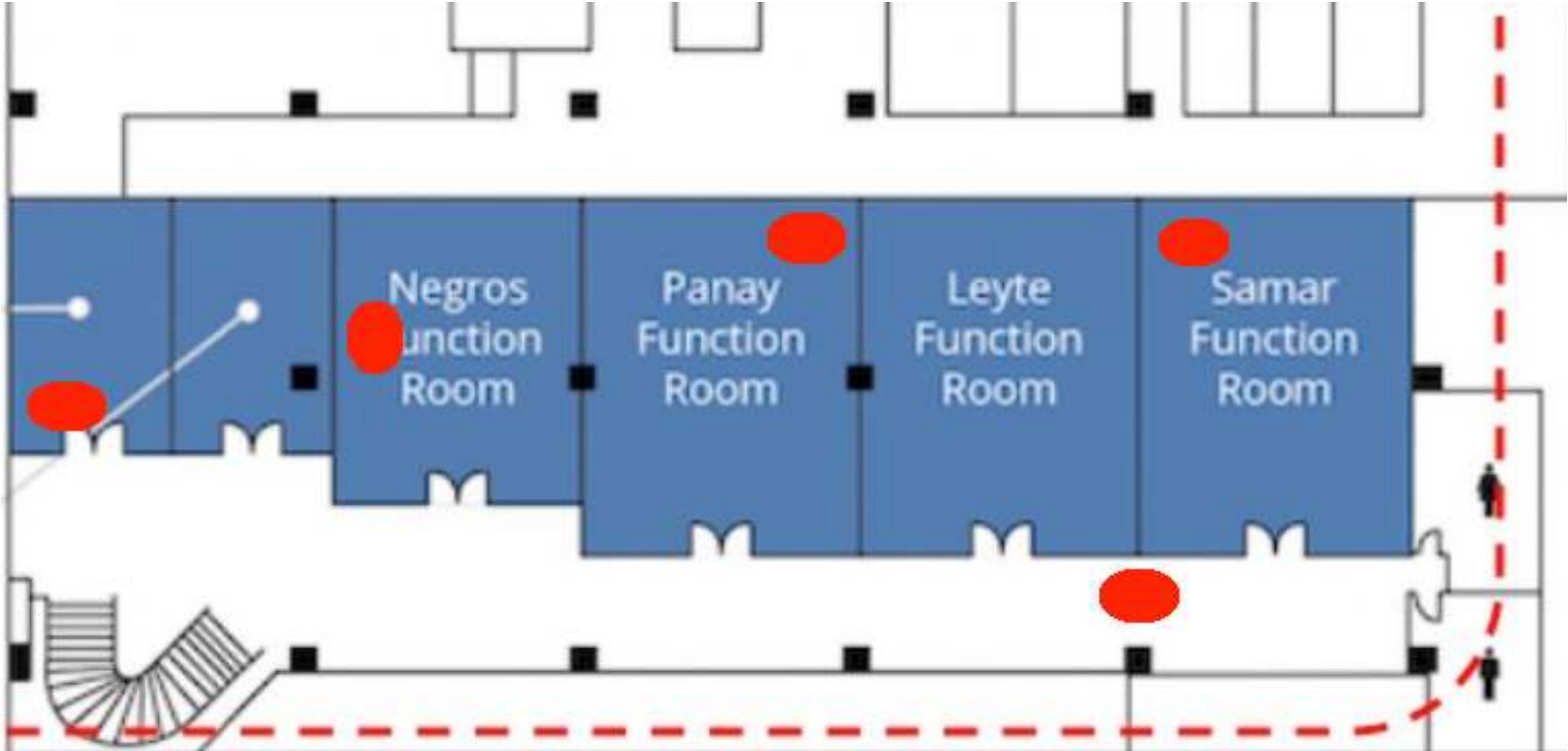


- Routing and switching : ASTI - PREGINET
- Wifi Sponsor : Philippine Long Distance Telephone Co (PLDT)

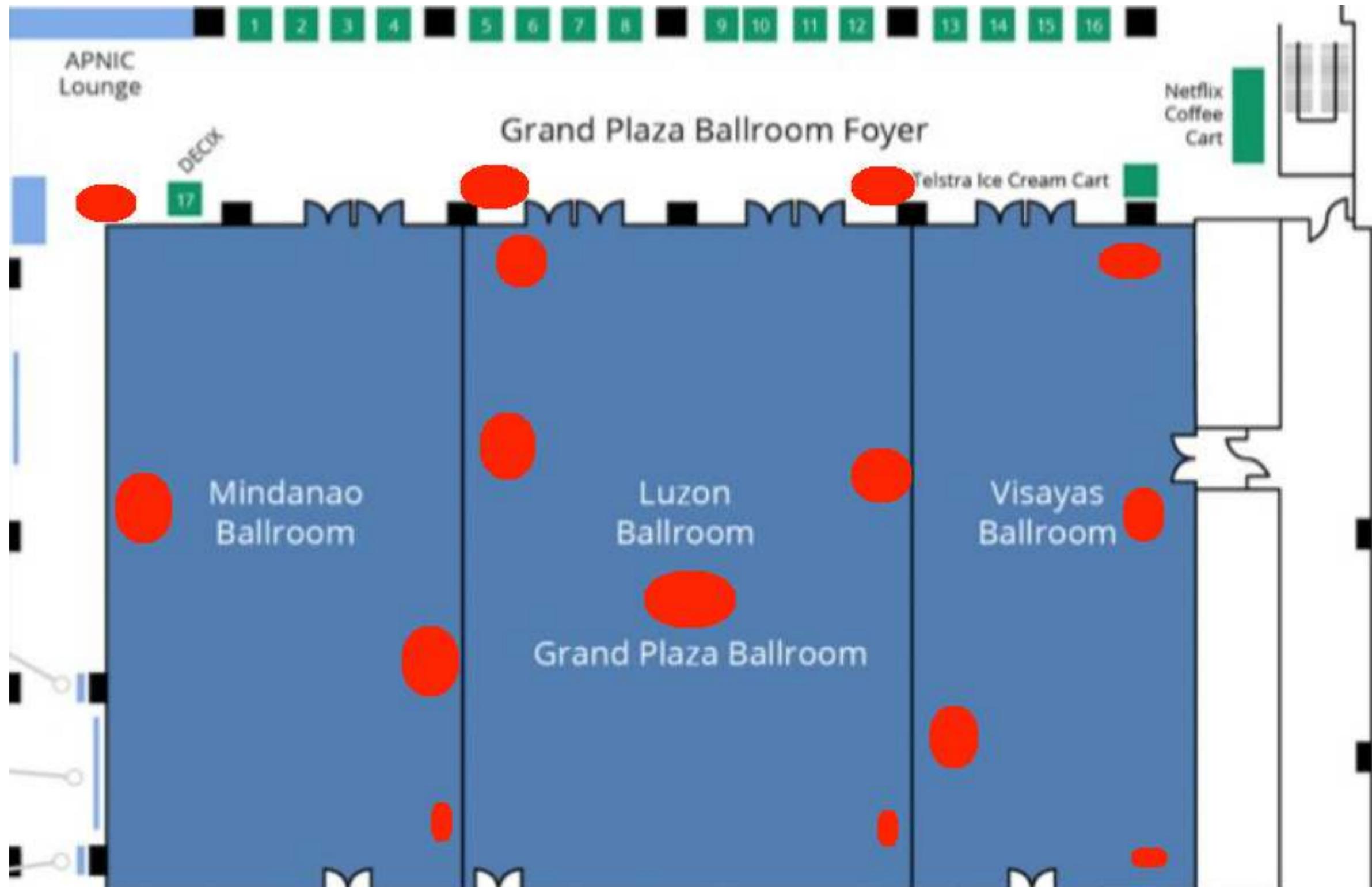
# 1st floor



# 2nd floor



# Ballroom and Foyer



# ← NetMesh



**340.6**

Mbps DOWNLOAD

Ping 42 ms



**425.9**

Mbps UPLOAD

Jitter 0.6 ms



APRICOT



ASTI SERVER NTC

# Network Timelines

- 2023-02-13 : PLDT has finished their demarcation, for hand over
- 2023-02-15 : The APRICOT router was brought into Sofitel for ping tests with PLDT
- 2023-02-17 : The Converge link was turned up, ping tests were done
- 2023-02-18 : The PLDT BGP (IPv4/IPv6) session was established
- 2023-02-19 - Random sites were timing out, so a static default was configured
- 2023-02-20 : The Converge BGP session was established (IPv4)

# Network Timelines

- 2023-02-20 : First day of the workshop week
- 2023-02-21 : IPv6 BGP session with Converge was turned up
- 2023-02-21 : Static default to PLDT was removed, network seems stable
- 2023-02-26 : Converge fiber cut
- 2023-02-26 : Since the Converge link is down, and the static to PLDT is no longer there, the reachability problems to some website reoccured

# Network Timelines

- 2023-02-26 : The static default to PLDT was put back
- 2023-02-28 : Wifi in Luzon and Mindanao seems unstable, reconfigured the placement of the wifi APs
- 2023-02-28 ~7:14PM : Got access to the Cisco Meraki dashboard
- 2023-03-01 : Wifi in Visayas seems unstable
- 2023-03-02 ~9:30AM - Network hiccup