



APNIC 62 Conference Network Report

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#apnic62

MUMBAI, INDIA
4 - 10 September 2026

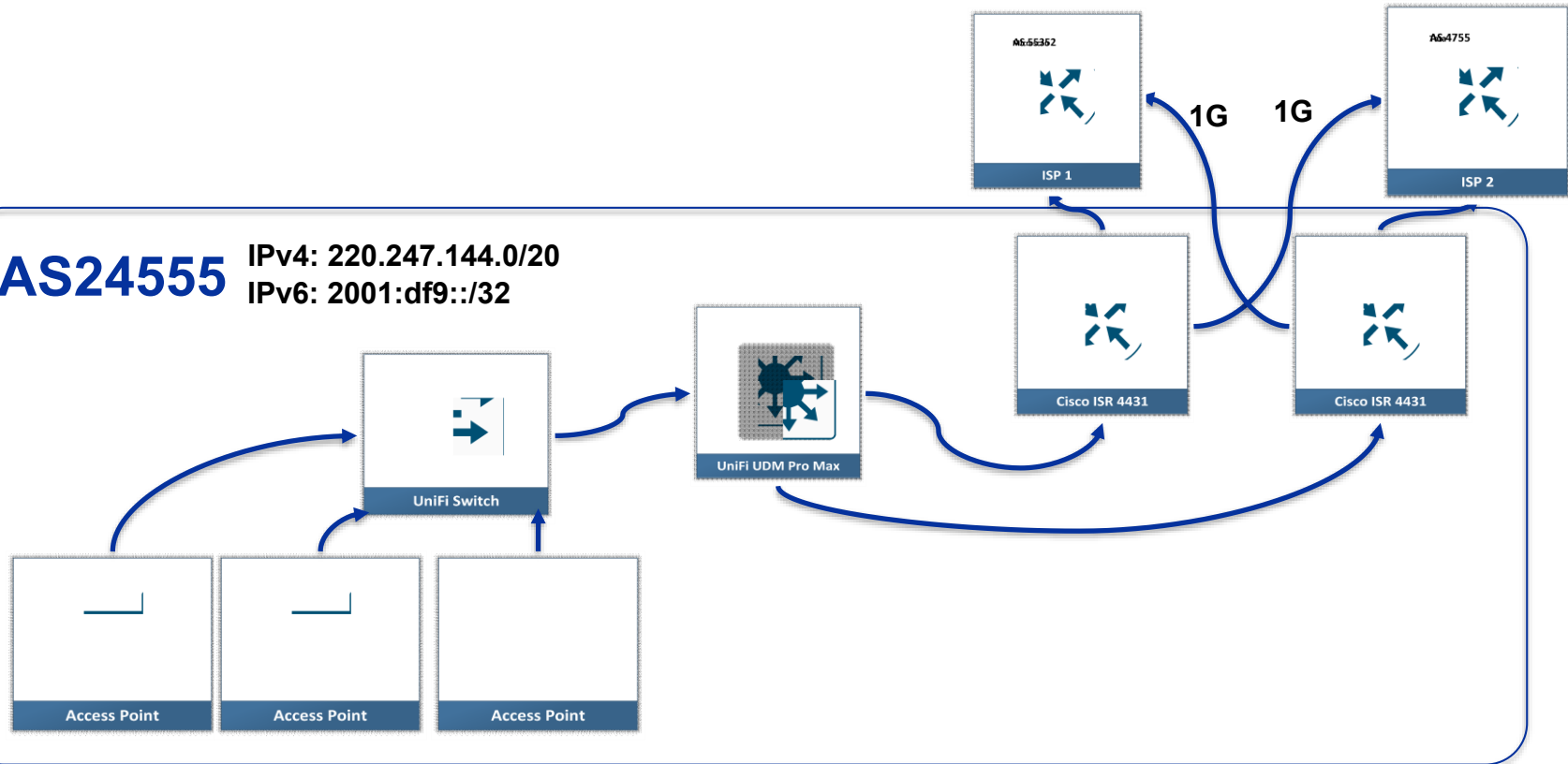


APNIC62 Conference network at a glance

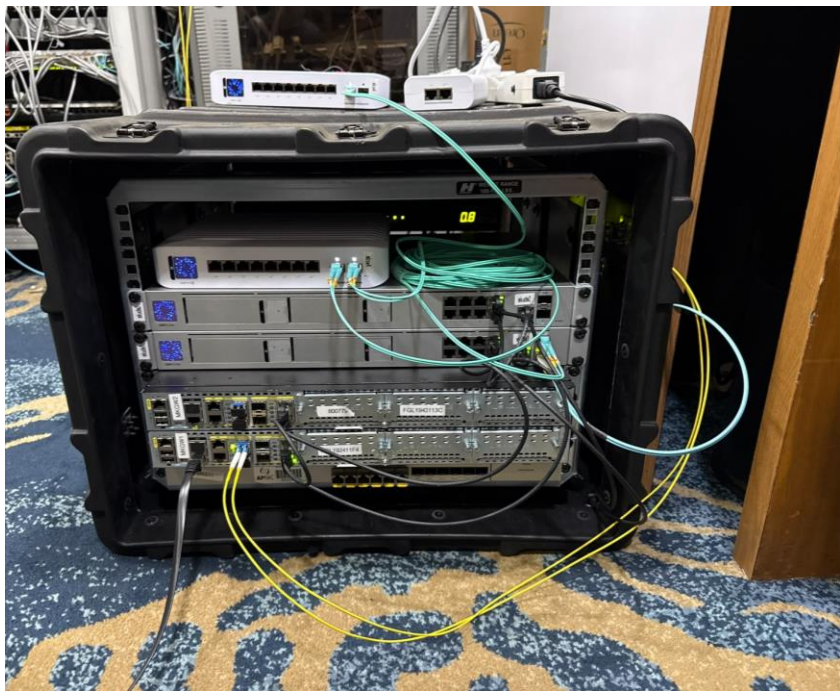
AS24555

IPv4: 220.247.144.0/20

IPv6: 2001:df9::/32



Network Infrastructure and Hardware



Router: 2x Cisco ISR 4431

L3 Switch: 2x UniFi Dream
Machine Pro Max

Switch: UniFi Switch

AP: UniFi E7

What we monitored

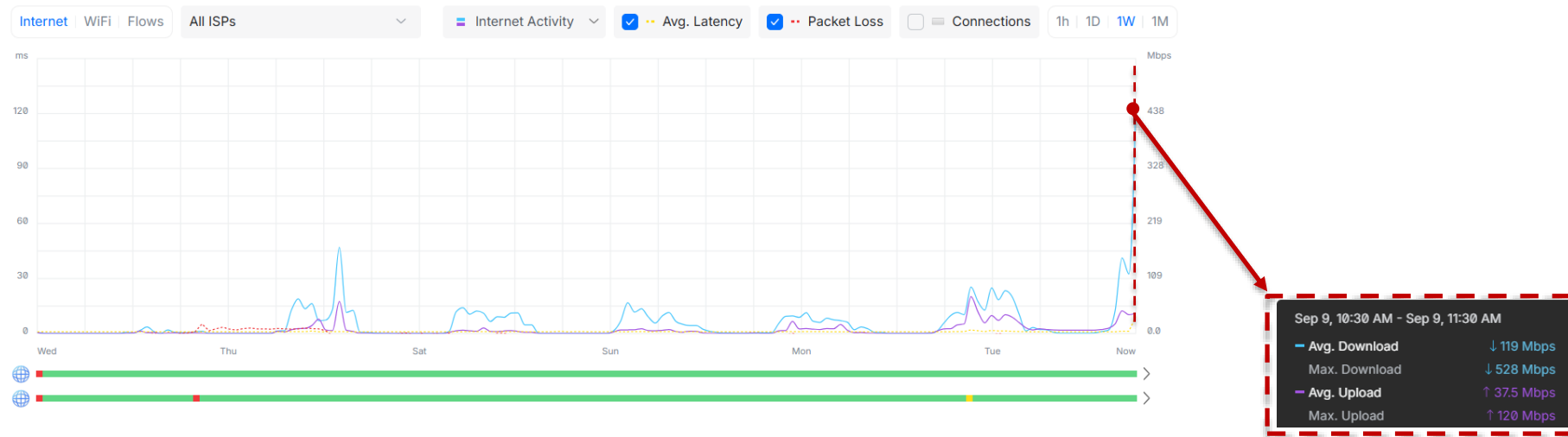
440

Unique
Mac Address

2TB

of Total Traffic

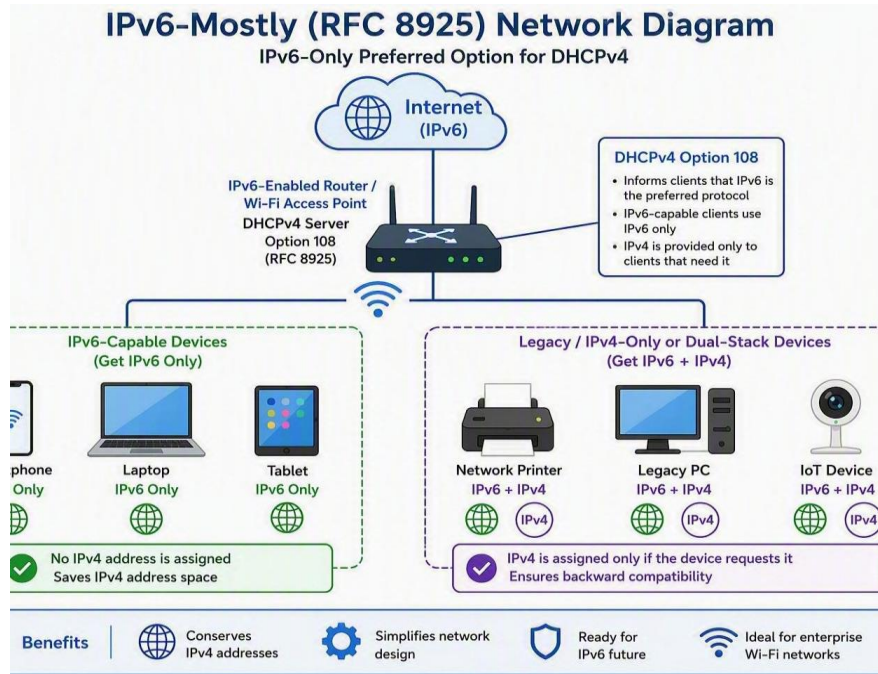
What we monitored



Traffic peaks on the 2nd day of conference ~11.40am

IPv6-mostly: letting the client decide

- DHCPv4 option 108 offers "IPv4 not required here".
- Capable client releases IPv4, runs v6-only over NAT64 and DNS64.
- Legacy client ignores the option, keep running on IPv4 or dual-stack.
- Supports IPv6 transition better than IPv6 dual-stack.



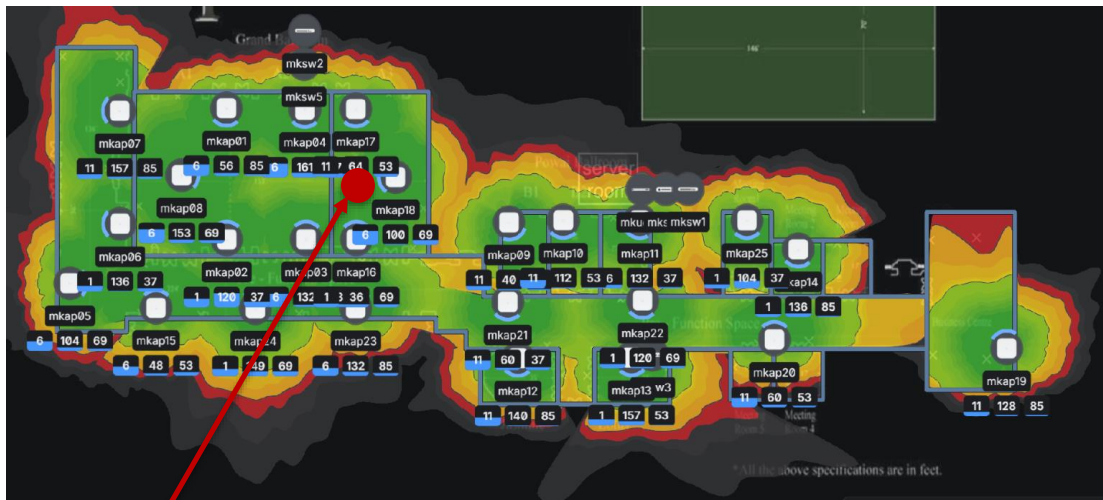
Config: Enable IPv6 Reach IPv4 address

```
interface GigabitEthernet0/0/1.994
  description ipv6-mostly
  encapsulation dot1Q 994
  ip flow monitor apnicflow.v4 sampler apnicflow input
  ip address 220.247.150.1 255.255.254.0
  ip helper-address 220.247.144.122
  ip helper-address 220.247.144.123
  nat64 enable
  ipv6 flow monitor apnicflow.v6 sampler apnicflow input
  ipv6 address 2001:DF9:300::1/64
  ipv6 enable
  ipv6 nd other-config-flag
  ipv6 nd router-preference High
  ipv6 nd ra nat64-prefix 64:FF9B::/96 lifetime 600
  ipv6 nd ra dns server 2001:4860:4860::64
!
nat64 v4 pool v6-mostly-pool 220.247.148.1 220.247.149.254
nat64 v6v4 list nat64-mostly-acl pool v6-mostly-pool overload
```

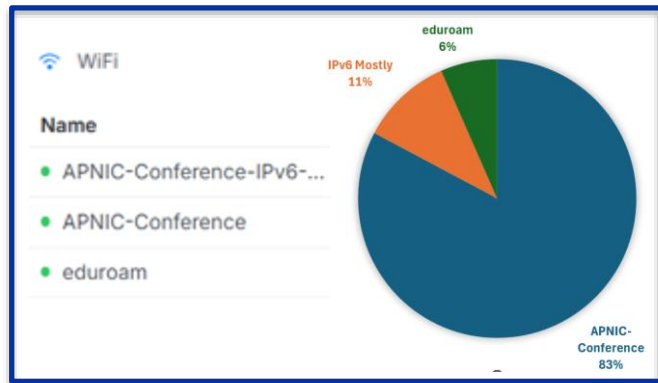
enables stateful NAT64 so v6-only clients can still reach the IPv4 internet.

RA tells clients where NAT64 lives and which DNS64 resolver to use.

Traffic and performance: Wireless

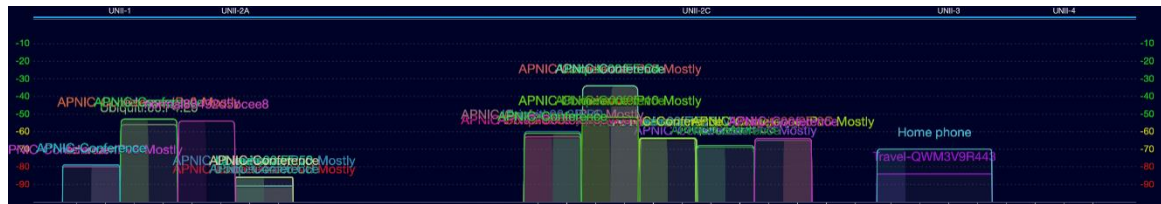


WIFI Coverage Mapping
Total: 25 APs



we are here!

Utilized channel group
UNII-1, UNII-2A, and UNII-2C



Traffic and performance: BGP & Routes



Prefix Received

IPv4: ~1.07M Prefixes

IPv6: ~250K Prefixes

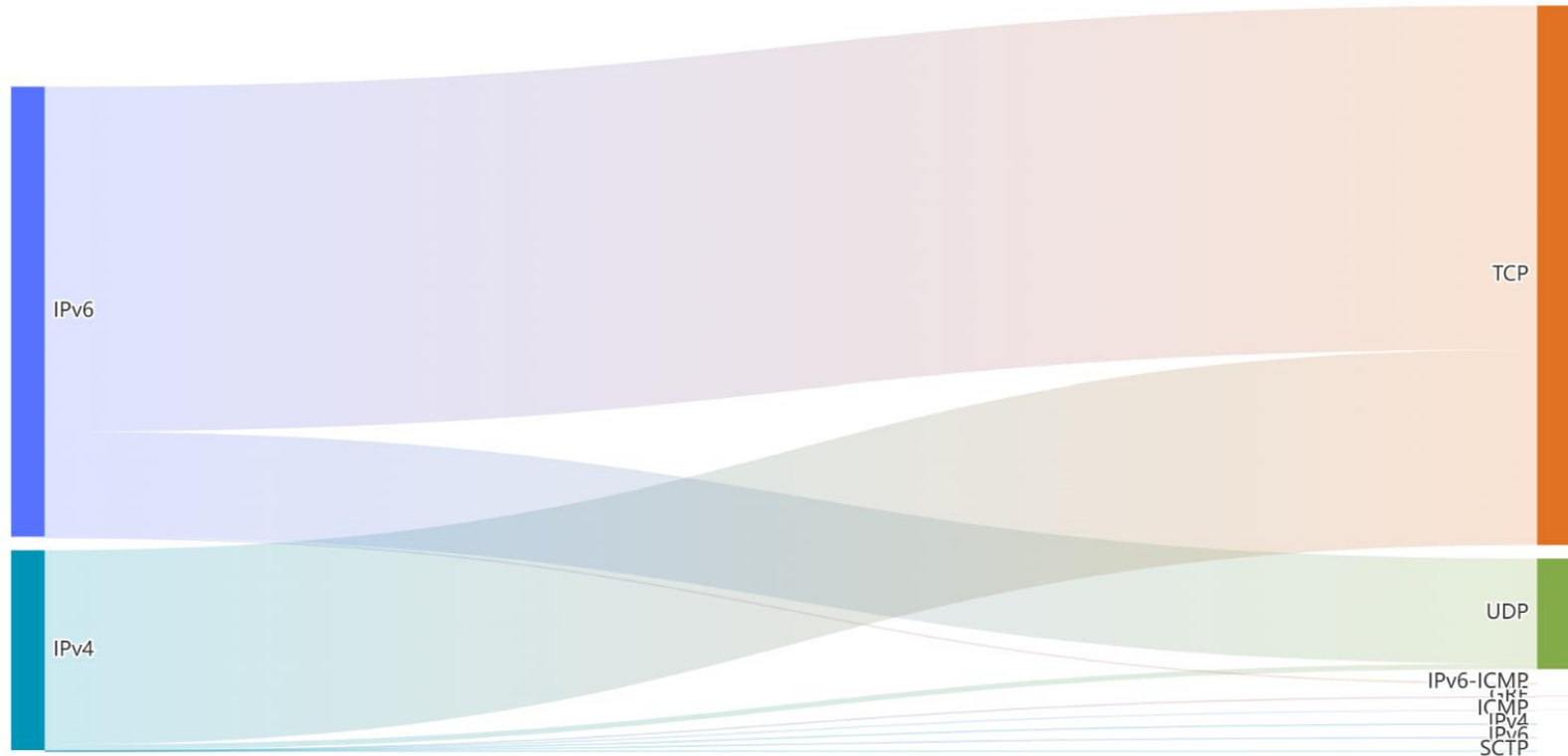
Peak Traffic

Download: ~338Mbps

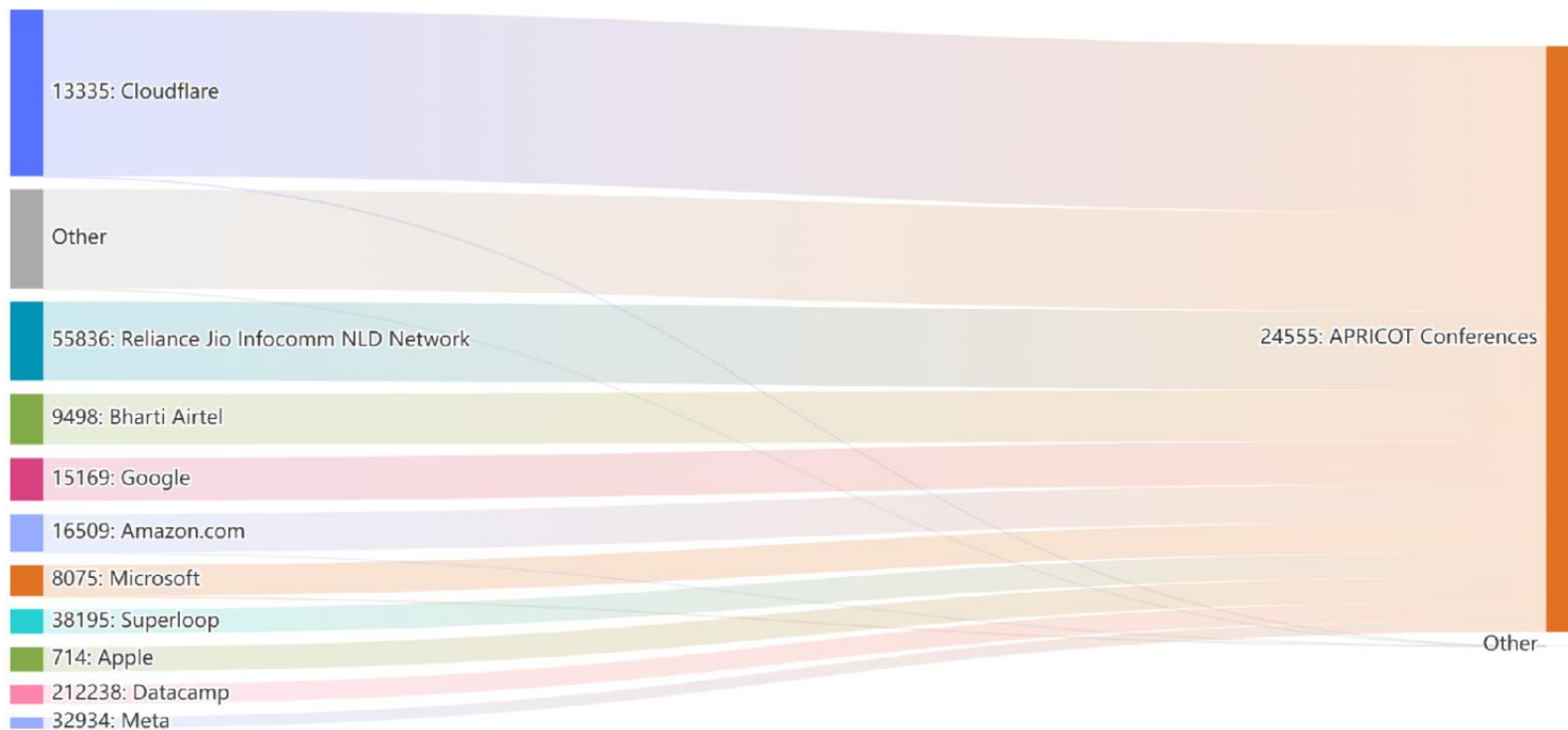
Upload: ~180Mbps



NetFlow Traffic Analysis: IPv4 Vs IPv6



NetFlow Traffic Analysis: Top Traffic



Network Incident in APNIC62

No	Problem	Impact	Root Cause
1	6GHz not visible to most clients	6 GHz capacity unused, most devices couldn't associate	Regulatory restriction of 6GHz in India
2	WPA3 and MLO association failures	Some clients could not connect	Experimental settings. Moved to WPA2/WPA3 mixed, disabled MLO
3	DHCPv4 failure on IPv6 mostly VLAN	Clients without 464XLAT could not connect	Missing IPv4 config on router interface
4	Co channel interference across APs	High latency, slow throughput	APs on same channel. Manually assigned channels per floor map

Wireless Incident: 6 GHz unavailable to some clients

Home / Industry / News / DoT de-licenses lower 6 GHz band to boost next-generation Wi-Fi services

DoT de-licenses lower 6 GHz band to boost next-generation Wi-Fi services

The de-licensing of the lower 6 GHz band will enable Wi-Fi 6 and Wi-Fi 7 services, supporting faster connectivity, next-generation devices, and data-intensive applications such as gaming, AR and VR

BS Reporter | New Delhi

3 min read Last Updated : Jan 21 2026 | 9:04 PM IST

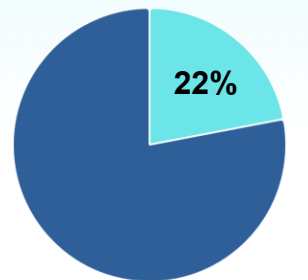
India Government has enabled 6Ghz license for Wi-Fi

then, what's the problem?

Wi-Fi 7 availability on Apple devices

These devices support Wi-Fi 7 (802.11be), which can operate across the 2.4 GHz, 5 GHz, and 6 GHz Wi-Fi bands. Operation on the 6 GHz band is not available in all regions.

Wireless Client Device



● Apple
● Other



ကျေးဇူးတင်ပါတယ်

متشکرم

Thank You.

ਬਾਧੀਕੇ

Terima Kasih.

