MINISTRY OF INFORMATION AND COMUNICATIONS
VIETNAM INTERNET NETWORK INFORMATION CENTER

VNNIC UPDATE

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NIR-SIG | APNIC 48

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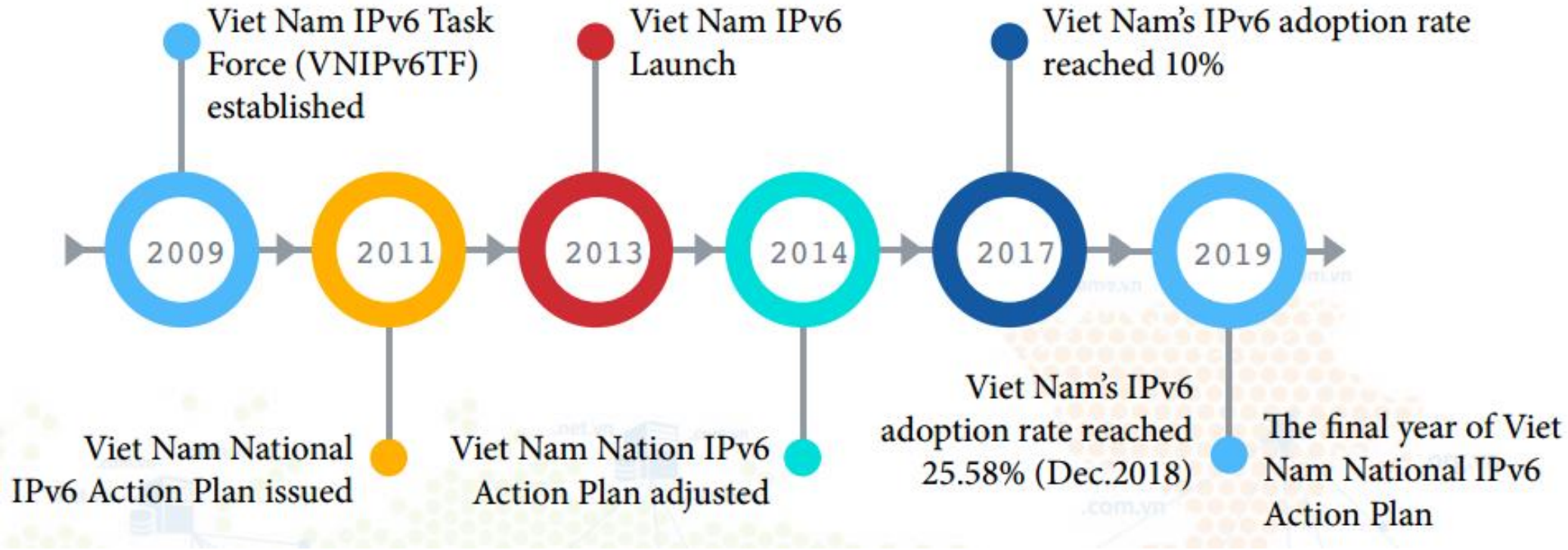
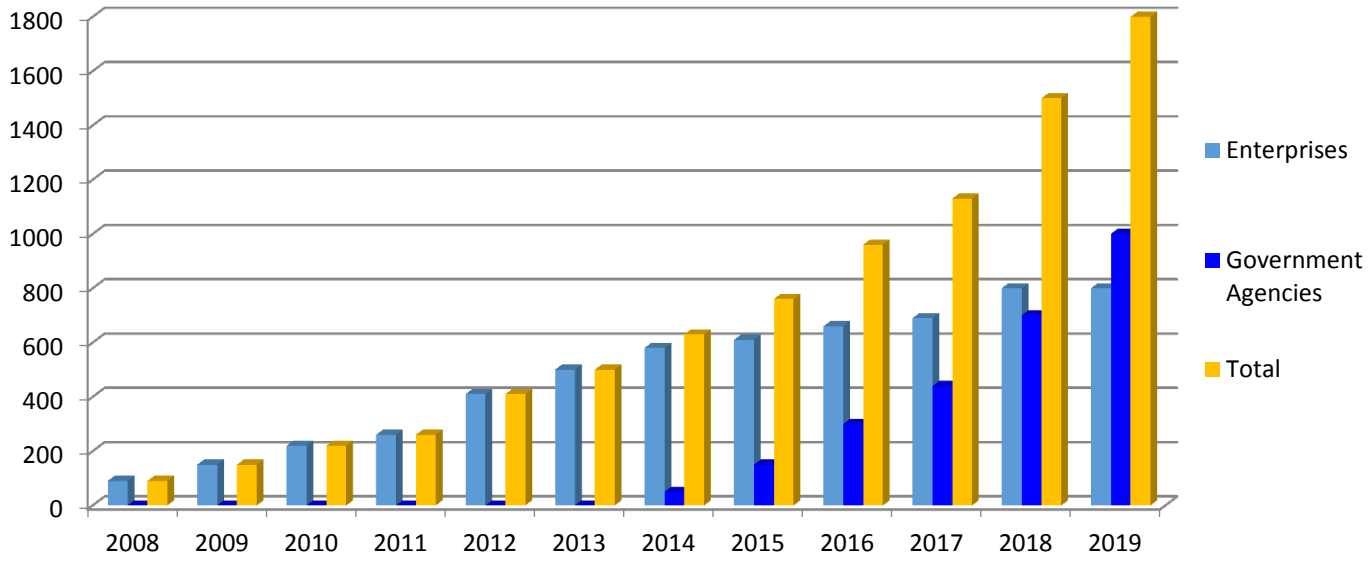
IPv6 Deployment in Vietnam

Vietnam IPv6 Deployment



Training/ Supporting



The number of trainees attending IPv6 training courses over time

IPv6 deployment workshop for Gov agencies in Ha Noi

- Training: Total: 1.800 people
  - Enterprises: 800 people.
  - Government agencies: 1.000 people (specific program).
- Supporting:
  - IPv6 deployment Consultation for Government Agencies: Timeline, activities, technology ….

Consultation for a Department of Information and Communications

Launching IPv6 services/ IPv6 for Gov Program

Vietnam IPv6 Launch (2013)

2013: Vietnam IPv6 Launching

- National IPv6 Network (National DNS and VNIX).
- ISPs' IPv6 Network Infrastructure.

IPv6 services and applications Launching Ceremony

2019: IPv6 services and applications Launching

- Online public services of Government agencies.
- Applications, content services of CP.
- Launching IPv6ForGov Program:
  - Target: Supporting Government Agencies to deploy IPv6.
  - URL: https://vnnic.vn/ipv6forgov

Issuing

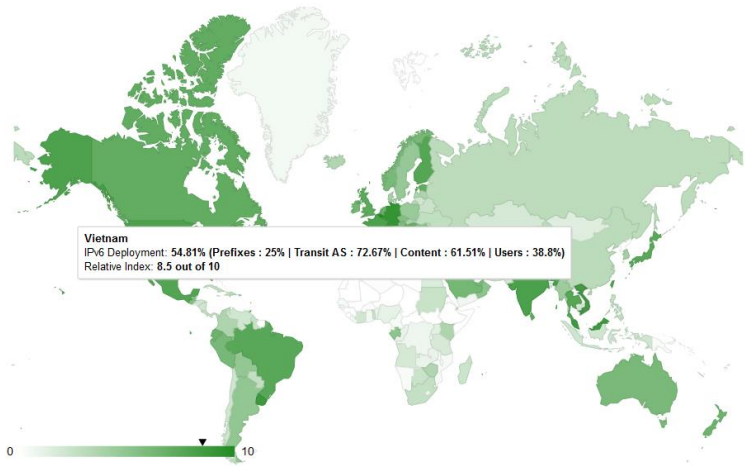
1. Official letter from Minister of MIC

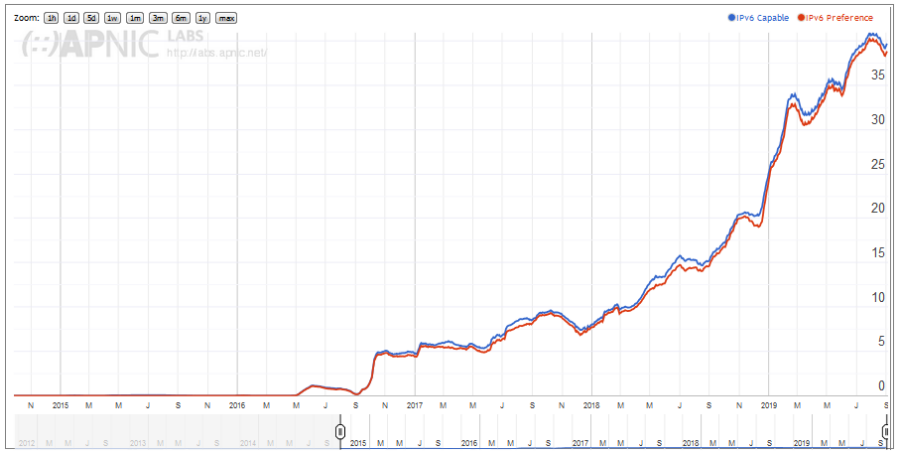
- Target: increasing the use of IPv6 for Government Agencies.
- Promoting IPv6 Deployment within Government Agencies' networks, services (specially, e-Gov. services and Portal).
- Including the sample IPv6 deployment plan for a Government agency (3 phases with 10 steps).

2. Creating and Publishing the evaluation criteria forms:

- To evaluate the completing level of organizations as following as Vietnam IPv6 Action Plan.
- Objectives:
  - ISP, CP, IDC, Mobile operator, Registrar.
  - Government Agencies.
  - IP members
  - Software Vendors/ Hardware Vendors

The use of IPv6 for Viet Nam





Overview:

- The use of IPv6 for Vietnam: 39%, ranked the 2nd place in ASEAN, 8th in the world (APNIC Lab, 9/2019).
- IPv6 users: 21 million users.

National IPv6 Network:

- National DNS: 6/7 National DNS Servers supporting IPv4/IPv6.
- VNIX: 17/20 ISPs connecting VNIX via IPv4/IPv6.

Internet Services:

- FTTH: > 11 million IPv6 subscribers.
- 3G/4G: > 15 million IPv6 subscribers.
- Web: >6000 Website enabled IPv6 within '.vn'.

Viettel Group
50%

VNPT Group
42%

MobiFone
42%

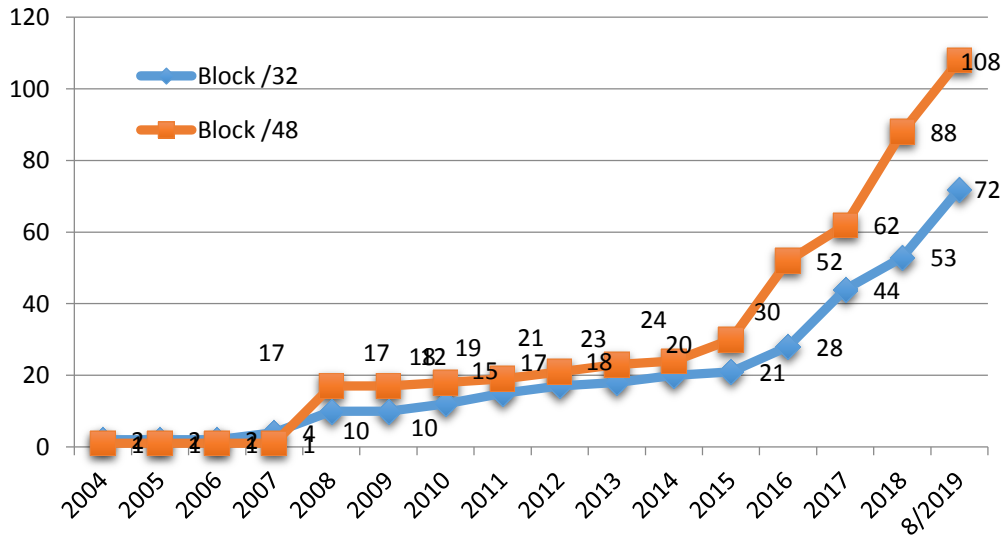
FPT Telecom
32%

Contents

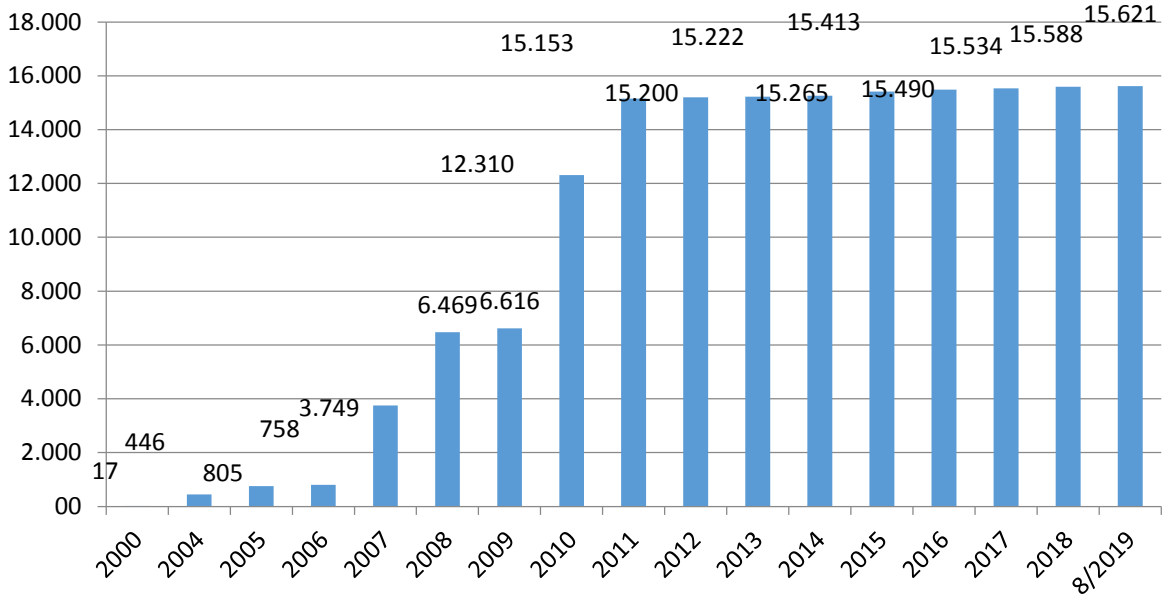
Other Activities

Delegation - IPv4/IPv6 Delegation (By 31/8/2019)

- IPv4 addresses:
  - Total: 15.621 blocks /22, ranked the 12th in Asia-Pacific region and the 29th in the world (source: potaroo.net);
- IPv6 addresses: 72 blocks /32 and 108 blocks /48.



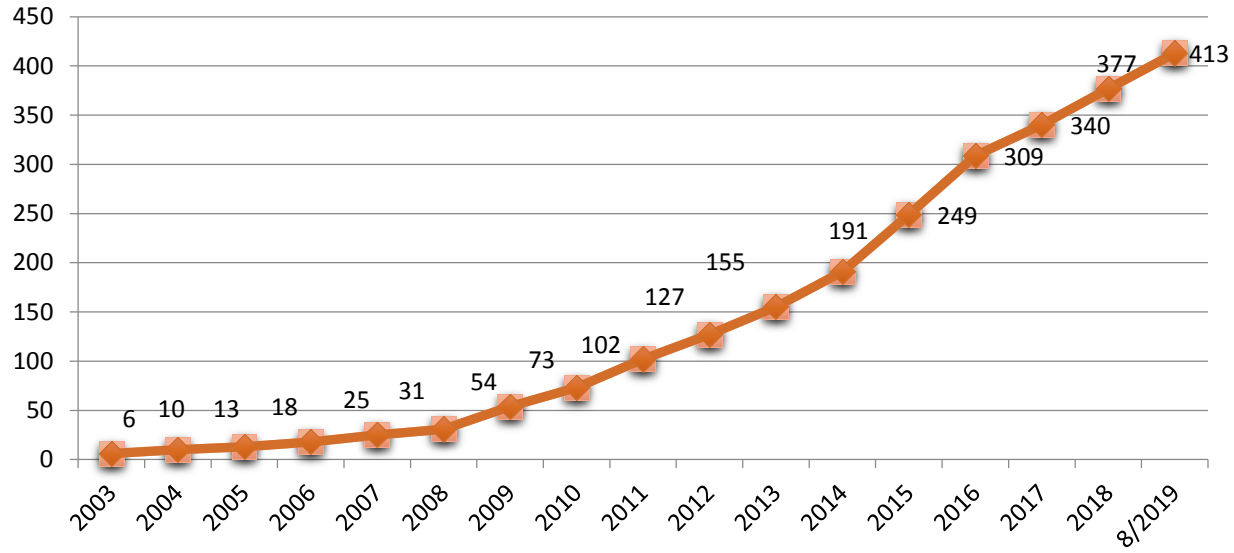
IPv6 delegation over time



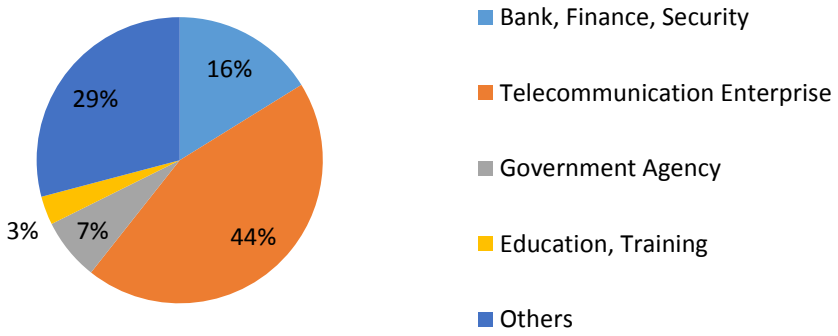
IPv4 delegation over time

IPv6

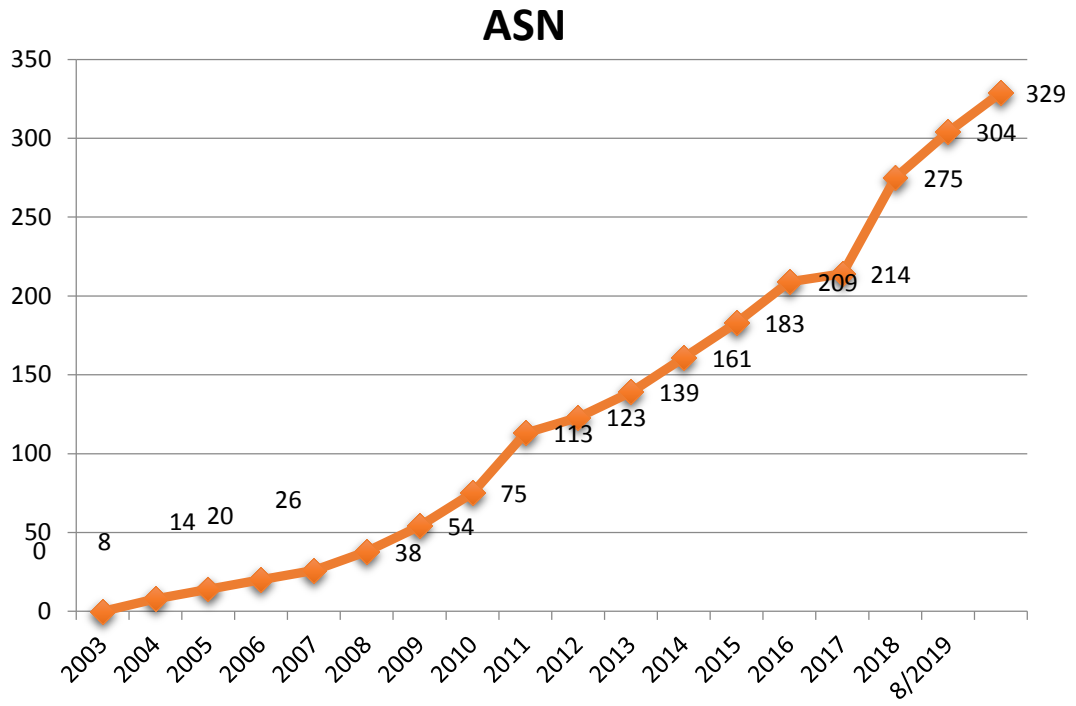
Delegation – VNNIC IP members/ ASN delegation



VNNIC IP members over time



VNNIC IP members by category



ASN delegation over time

Regulation

Circular No. 06/2019/TT-BTTTT dated 19/7/2019 amendments to Circular No. 24/2015/TT-BTTTT of The Minister of Information and Communications on management and use of Internet resources in Vietnam.

- Permit changing the holder of IP/ASN in some cases:
  - Mergers and Acquisitions (M&A)
  - Corporate Restructuring
  - Changing the functions, mandate of Government Agencies.
- Conditions:
  - Moving or changing the organization caring the network with IP and ASN.
  - Official documents from competent State or Government Agencies

Corporation (inter)

MoU signing ceremony between KISA – VNNIC

- Time: 20-21 Aug, 2019 at VNNIC Officer
- Activities:
  - MoU signing Ceremony between KISA and VNNIC.
  - Policy Meeting: Sharing experiences about management of Internet resources (domain, IP), DNS, DNSSEC, Data Center …
  - Meeting between Korean enterprises and the authorities of MIC.

KISA – VNNIC meeting

Corporation (inter)

- **RPKI Workshop**
  - held by VNNIC, JPNIC and APNIC.
  - on 22/8/2019 in Viet Nam
  - trainees from VNIX members and ISPs in Viet Nam.

Corporation (inter) and other activities

MoU signing ceremony between TLD .RU and VNNIC

VNIX-NOG 2019 meeting

CONTENTS

Upcoming activities

Upcoming activities

1. IPv6 Workshop of ASEAN Project (Smart ICT Ecosystem with the Project Team from Philippines, Brunei and Vietnam in Oct, 2019
2. Closing Event of Vietnam IPv6 Action Plan in Feb, 2020
3. Deploying IPv6 For Gov Program
4. Promoting RPKI in Viet Nam

Thank You