



MINISTRY OF INFORMATION AND COMMUNICATIONS
VIETNAM INTERNET NETWORK INFORMATION CENTER

VNNIC UPDATE

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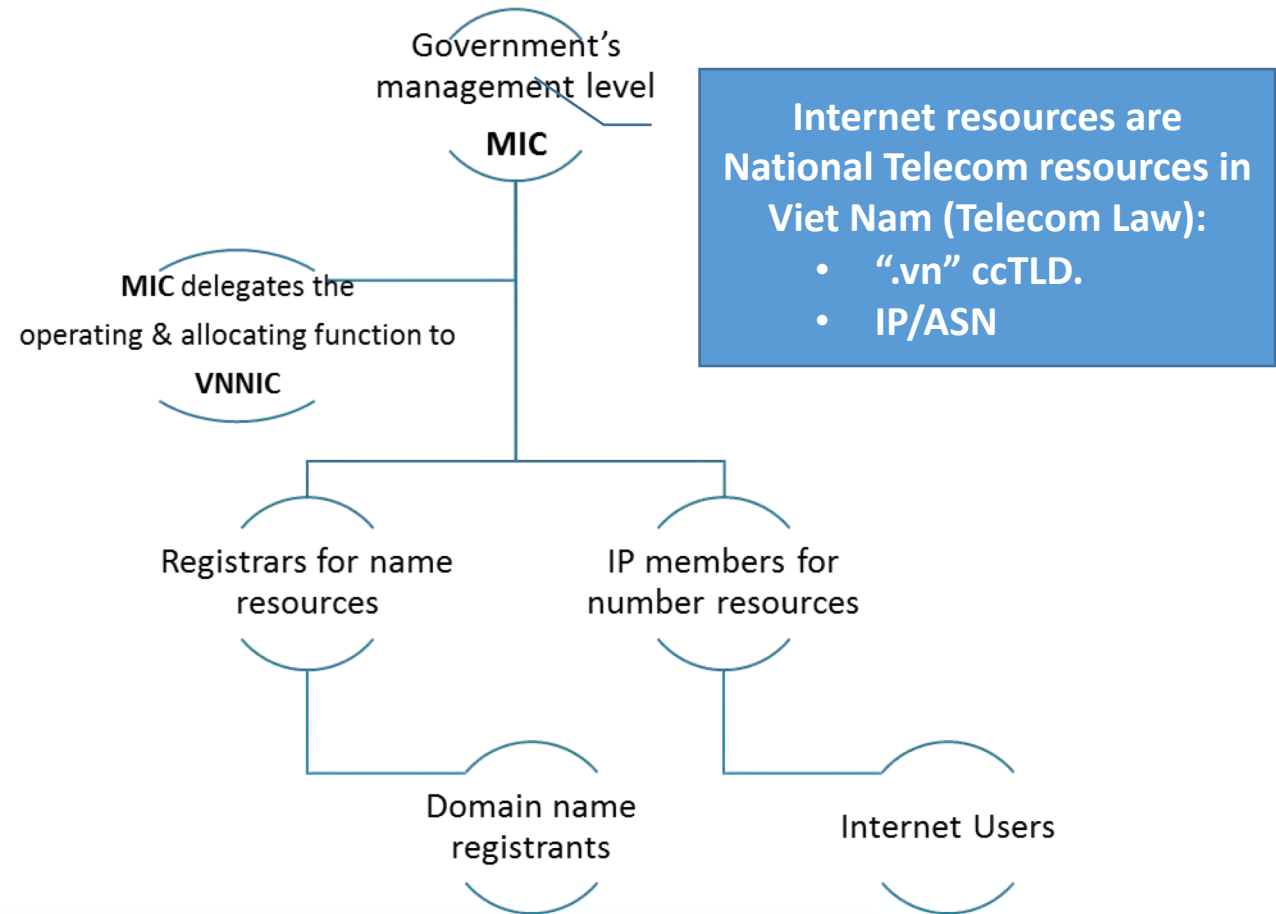
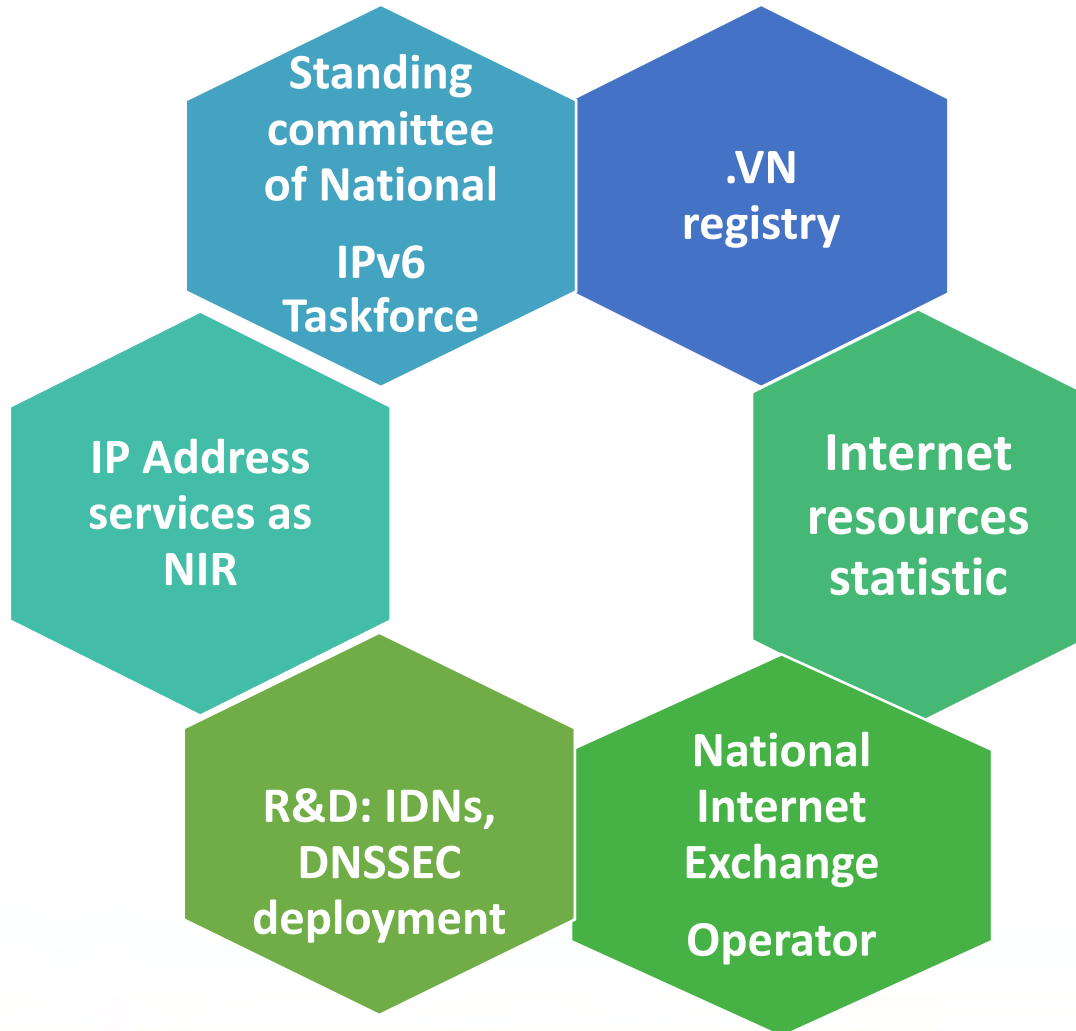




VNNIC's activities

What do we do?

- List of activities/services:



Open Policy Meeting (OPM) 2018



- 13th July, 2018: IP member meeting was held onsite in Hanoi City and two remote sites via teleconference in Hochiminh and Da Nang City.
- Main topic: IPv6 deployment within VNNIC IP members
- Speakers:
 - Ms Anna from APNIC gave a presentation on Internet resource management in our region and IPv6 trends and measurements as well as IPv4 transfers.
 - VNPT Group representative shared their IPv6 experiences on Mobile and FTTH services.
 - An Authority (The Authority of Information Technology Application) of MIC also informed new policy requiring Government agencies need to deploy IPv6 for Portal and public services.



Routing training course



- 10-12 July, 2018: Routing II Training Course.
- APNIC held the routing training course for Vietnam community in VNNIC office.
- The trainers: Mr. Tashi Phuntsho – Senior Network Analyst (two VNNIC staff supported Tashi during the course).
- Attendees: Technical staff of some biggest ISP, Network Operators, government agencies and some enterprises (VNPT, Viettel Group, MIC, MOFA ...).





- 24th Aug, 2018: VNIX-NOG 2018 was held in Danang City (3rd VNIX-NOG conference).
- Main topic: Routing Security.
- Speakers: The experts from APNIC, ISOC, JPNIC, Facebook, Cloudflare, Fukuoka University and some biggest ISPs, ICPs in Vietnam (VNPT, Viettel, FPT Telecom, CMC Telecom).
- Website: 2018.vnix-nog.vn.

Main IPv6 activities (1/2)



Jan, 2018: Presented MIC Award to enterprises who contributed greatly to IPv6 deployment in 2017



May 2018: Vietnam IPv6 Day



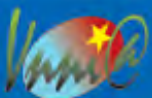
IPv6 Training for Government Agencies in HCMC (9-11/5/2018)



IPv6 article on MIC's Website



VietNam IPv6 Ready





National IPv6 Action Plan (2011-2019)

- The plan will finish at the end of 2019
- We are developing the evaluation form at the Plan.
 - The organization will evaluate themselves and inform VNIPv6TF.
 - The evaluation will inform the organization complete the Plan or not.

Other activities



- Received the certificate of ISO/IEC 27001:2013 for National DNS and VNIX, IDC in Hanoi, Danang and Hochiminh City.

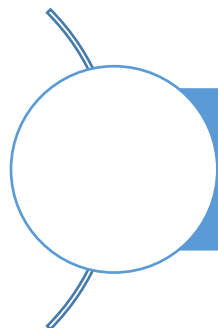


- Signed MoUs with Ninh Binh Department of Information and Communications, Hai Duong Department of Information and Communications



- Many domain activities

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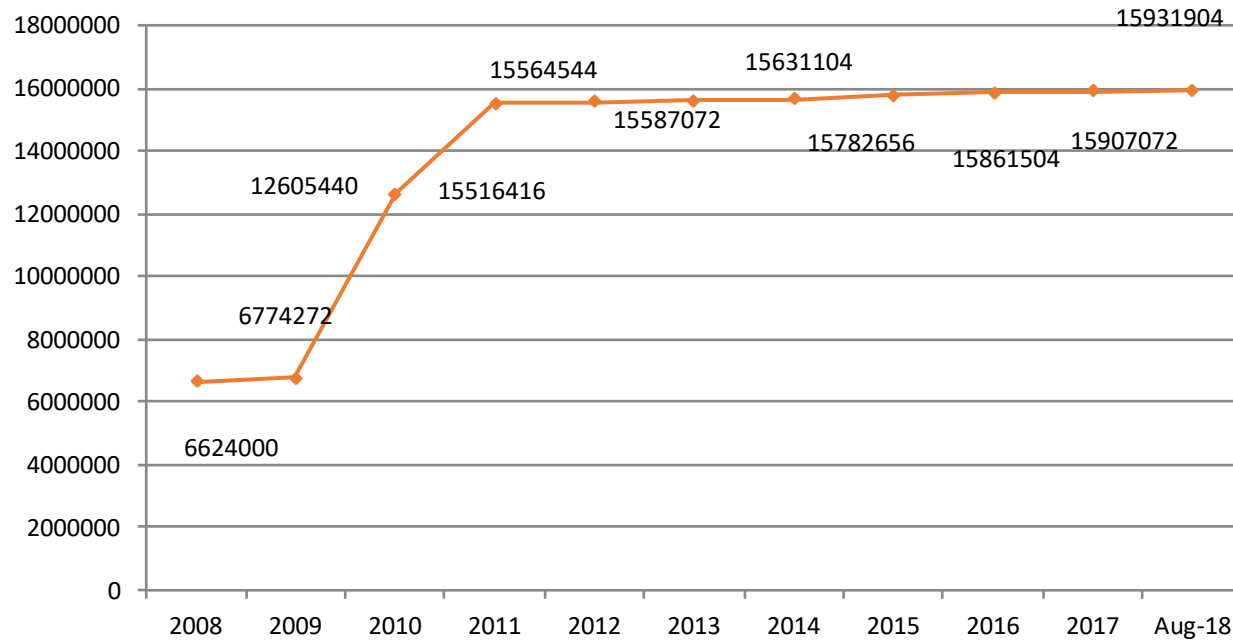


Statistics

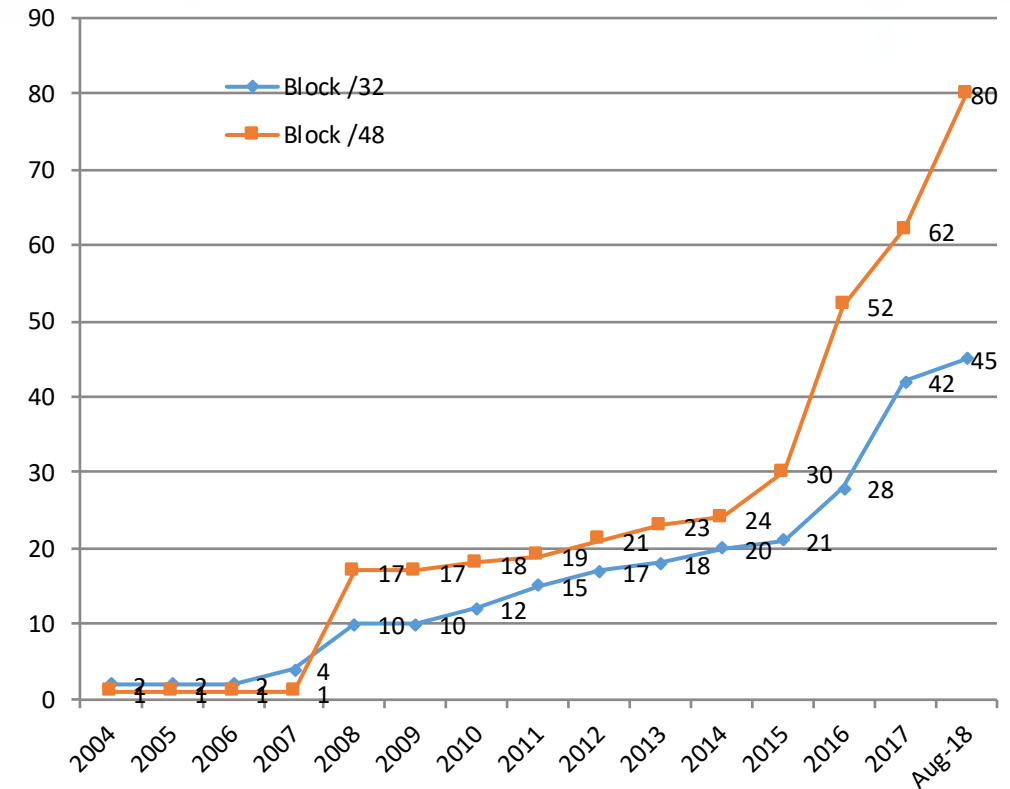


IPv4/IPv6 delegation

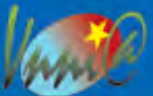
IPv4 address



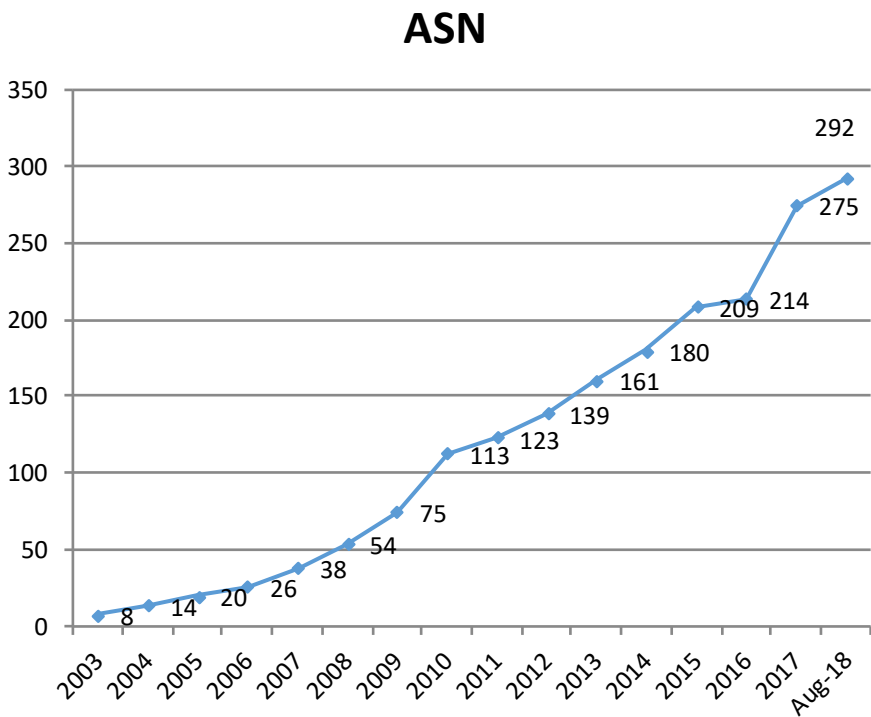
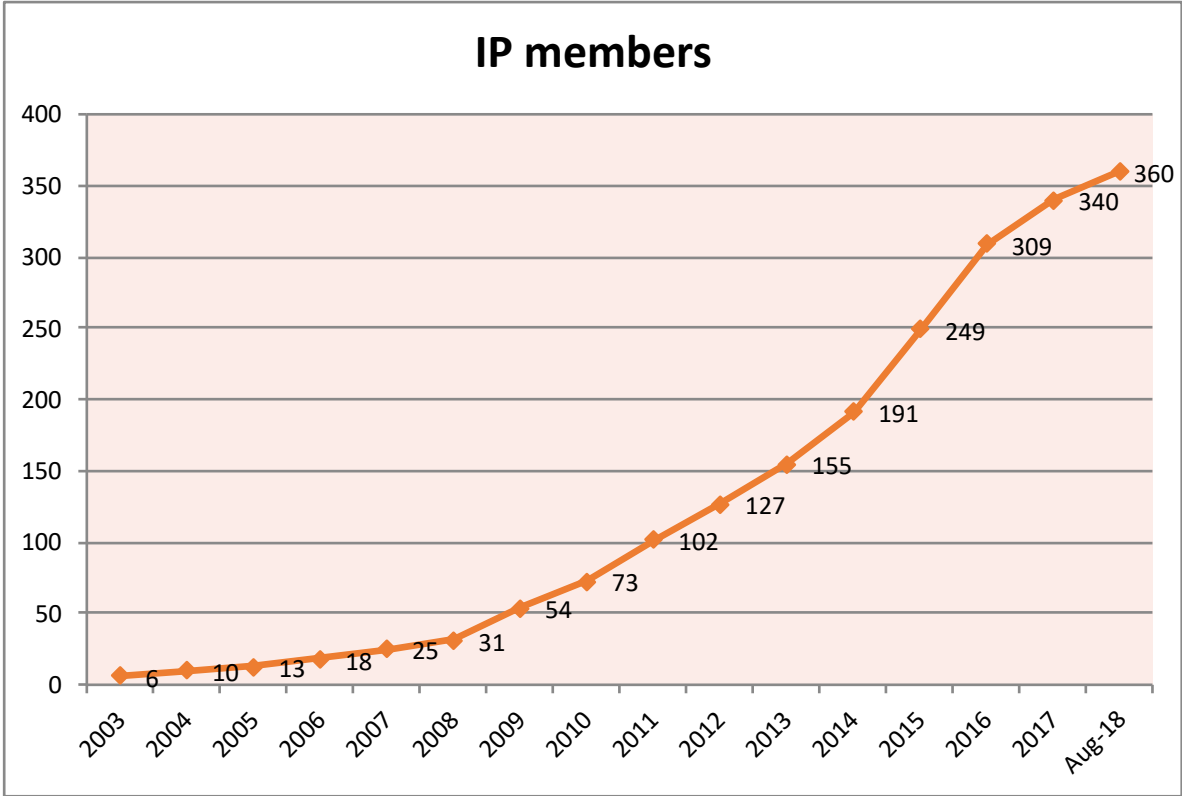
- IPv4: 15.931.904 ranking 2th in ASEAN, 8th in Asia – Pacific, 29th in the world (by 31/8/2018, source: www.potaroo.net)



IPv6: 45 block /32 and 80 blocks /48.
Total of members with IPv6: 115.



VNNIC IP Members/ ASN allocation

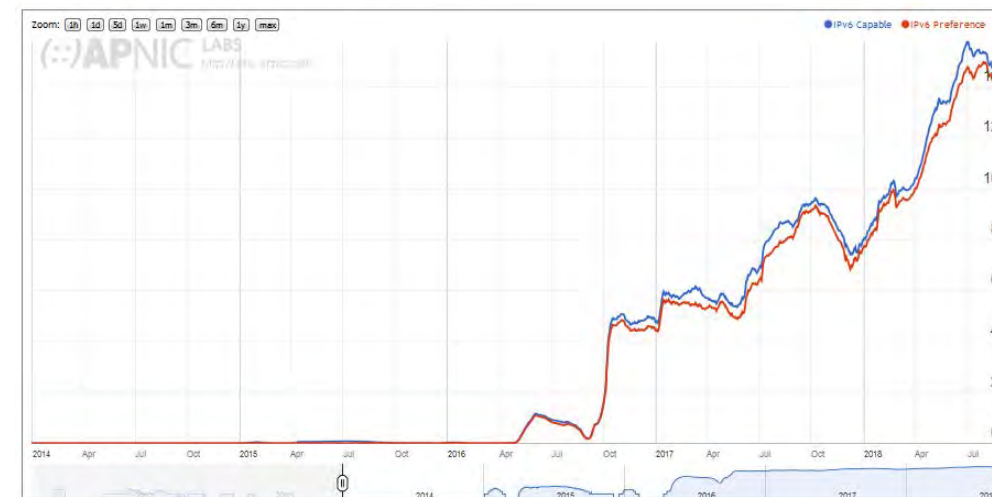


IPv6 Measurement

CC	Country	IPv6 Capable	Samples
IN	India	47.19%	8,879,390
MY	Malaysia	36.00%	2,287,150
JP	Japan	28.31%	866,149
TH	Thailand	18.49%	909,486
VN	Vietnam	16.00%	3,067,510
TW	Taiwan	15.60%	2,000,501
SA	Saudi Arabia	12.36%	2,499,143
BT	Bhutan	11.48%	33,95
MO	Macao	11.27%	112,685
LK	Sri Lanka	9.60%	1,077,413
SG	Singapore	9.32%	812,62
KR	Korea	6.67%	2,068,795
AE	United Arab Emirates	4.74%	191,641
IL	Israel	3.07%	316,039
IR	Iran	2.41%	722,449

Top 15 countries/economies on IPv6 deployment in Asia

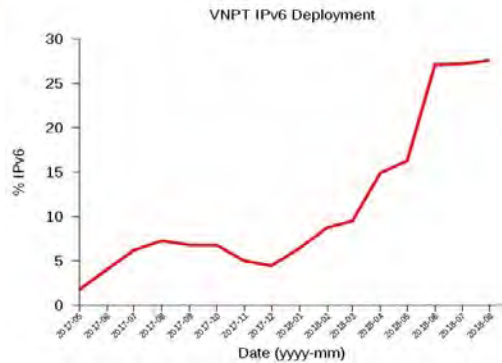
Use of IPv6 for Vietnam (VN)



Use of IPv6 for Viet Nam (source:APNIC)

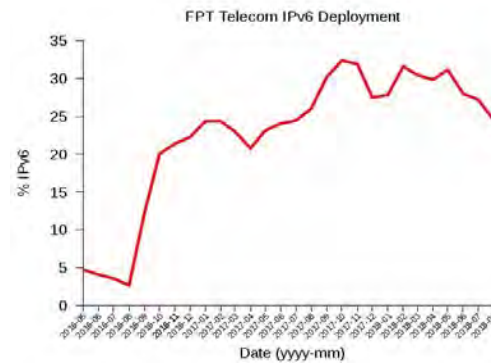


IPv6 Measurement



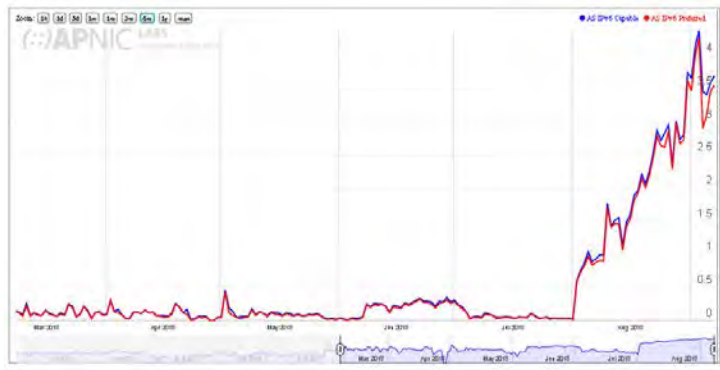
VNPT: 27%

- 2,400,000 FTTH subscribers.
- 307.000 mobile subscribers



FPT: 25%

1 million FTTH subscribers.



Viettel: 4%

- 366,000 FTTH subscribers.
- 20.000 mobile subscribers

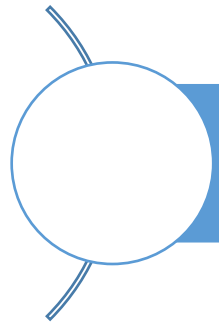
100 (in 2016)

4000 (by end of 2017)

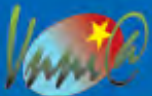
The number of “.VN” Websites enabled IPv6

- **Content service:**
 - VnExpress (FPT Online) - the most read online newspaper in Viet Nam with 3,000,000 users accessing over IPv6 per day.
 - ~4000 Websites (.vn) enabled IPv6.
- IDC, Cloud, colocation services activated with IPv6.

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Upcoming activities



Upcoming activities [IPv6]

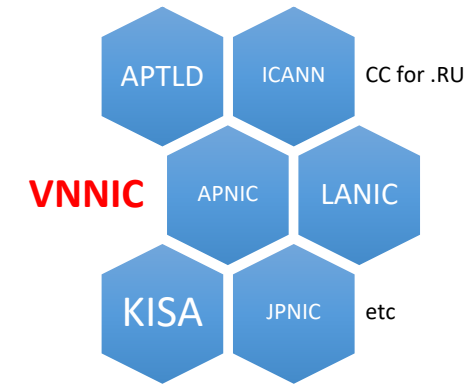
1. IPv6 activities

- Vietnam National IPv6 Action Plan will finish in 2019, the evaluation form will be publiced at the end of this year.
- IPv6 training for many Departments of Information and Communications in Hai Duong Province (25-26/9/2018).
- The VNIPv6TF will pay working visits to some ISP, ICP, Mobile operators in next month.



Upcoming activities (other)

2. Domain training course for staff of The Lao Ministry of Posts and Telecommunication from 11-14/9.
3. Issuing Report on Vietnam Internet Resources 2018
4. International cooperation activities and others.



Thank You

