VNNIC UPDATE

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Contents

VNNIC's activities

Internet Resources Management and Development

Vietnam IPv6 measurement

Upcoming activities

MINISTRY OF INFORMATION AND COMUNICATIONS
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Contents

VNNIC's activities

Vietnam Internet Network Information Center

Position:

- VNNIC is a public service entity in Vietnam, belongs to Ministry of Information and Communication (MIC).

Function

- ccTLD registry (.VN).
- National Internet Registry (NIR).
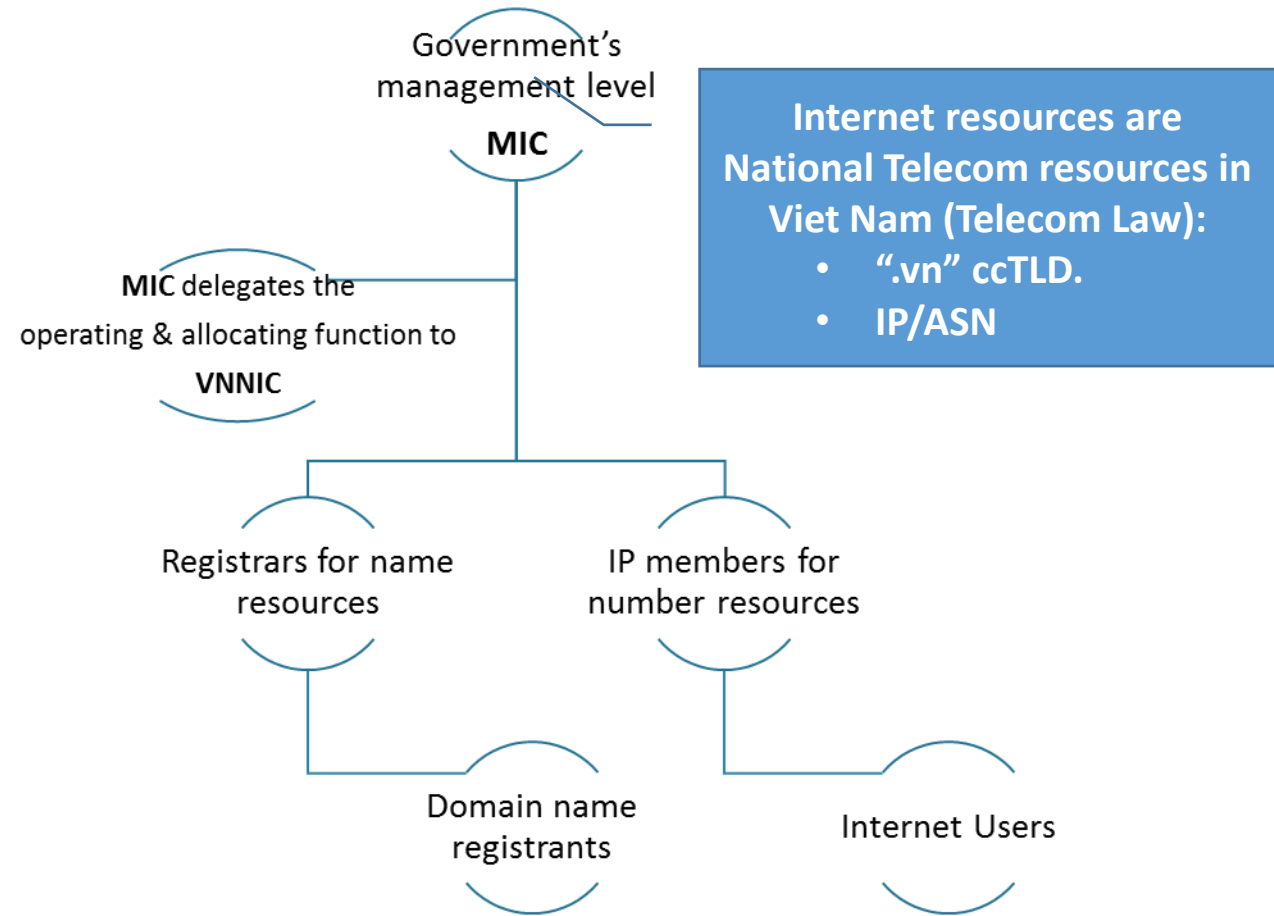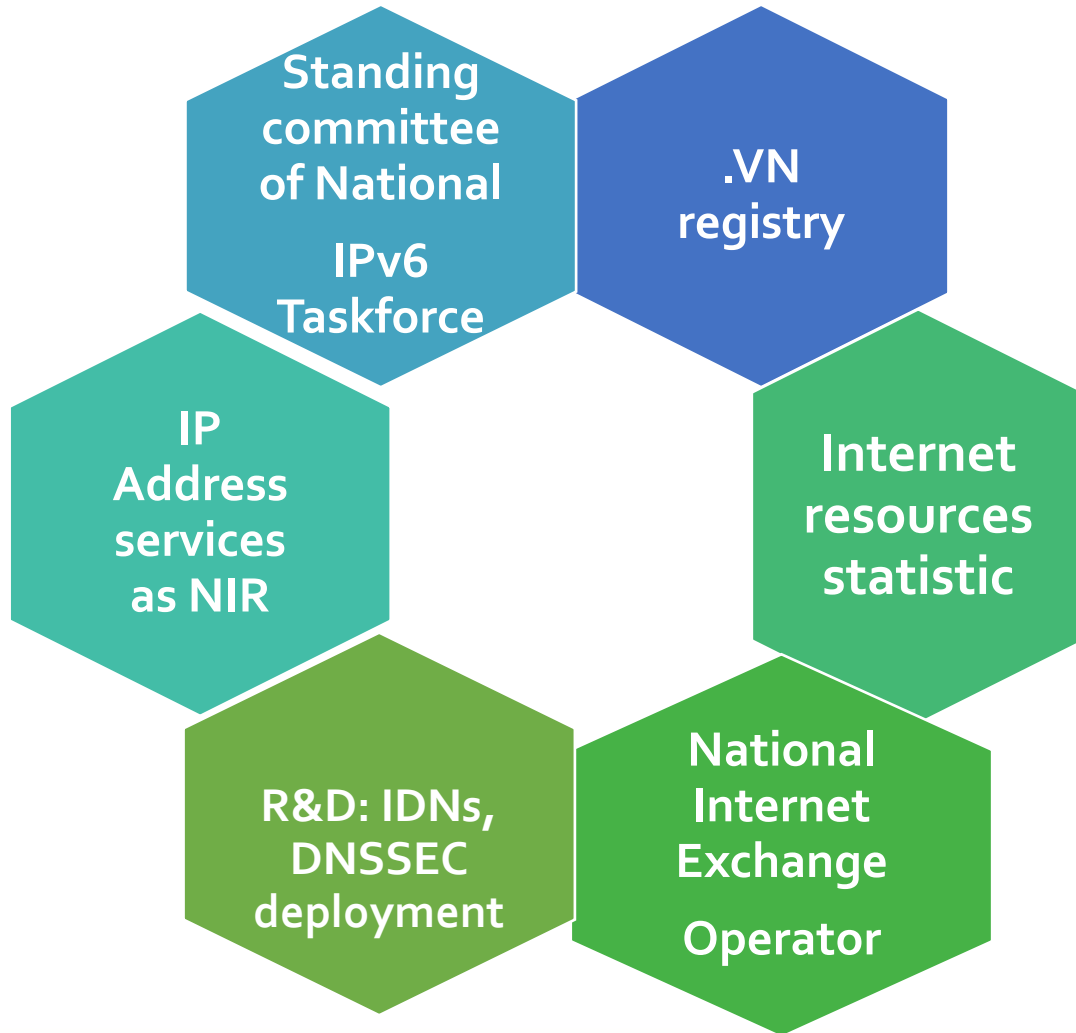- National Internet Exchange Operator.
- Standing committee of VNIPv6TF.

Office

- Head Quarter in Hanoi.
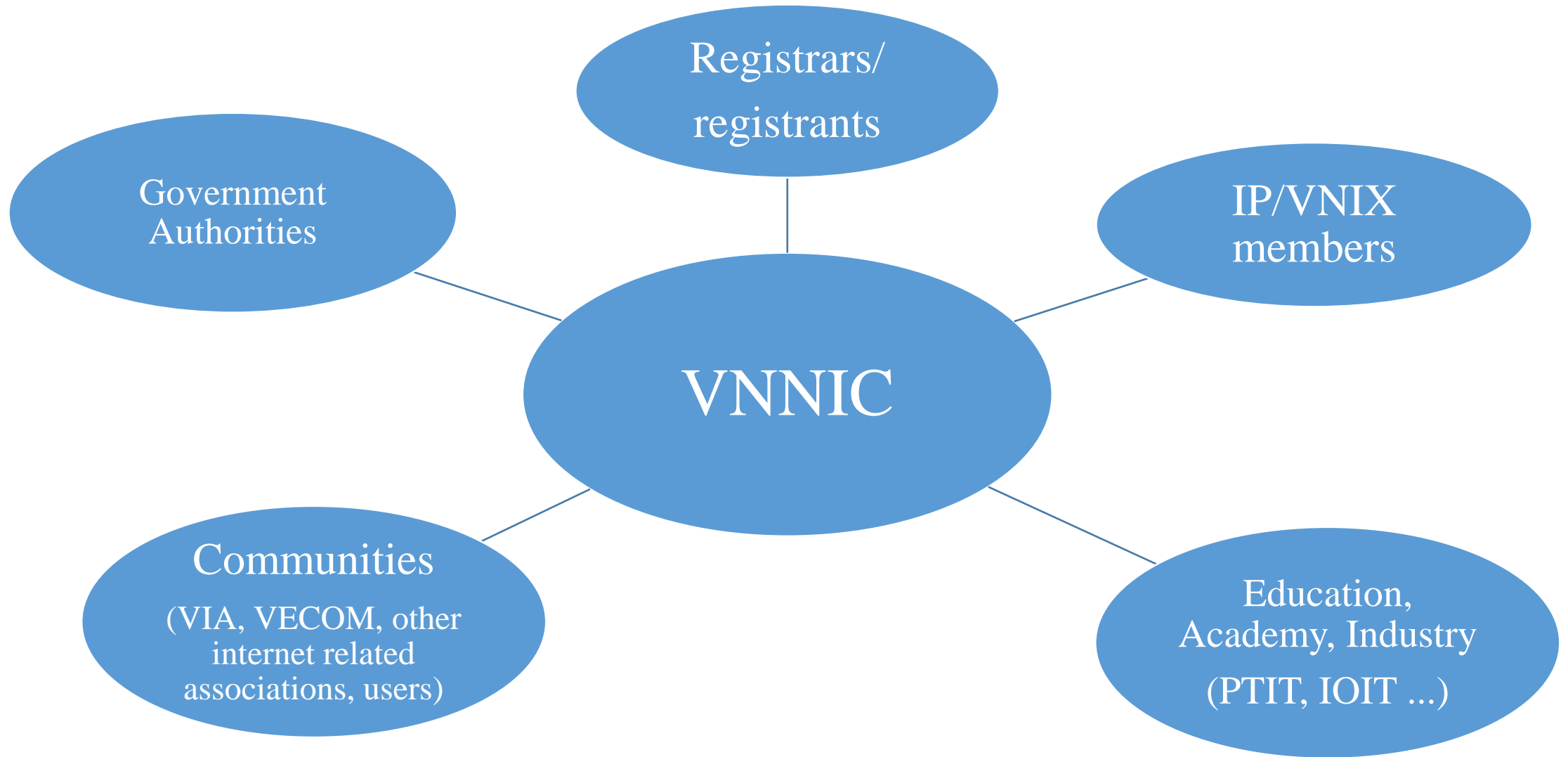- Branch in Ho Chi Minh City & Da Nang city.

What do we do?

- List of activities/services:

Standing committee of National IPv6 Taskforce

.VN registry

IP Address services as NIR

Internet resources statistic

R&D: IDNs, DNSSEC deployment

National Internet Exchange Operator

Government's management level
MIC

MIC delegates the operating & allocating function to **VNNIC**

Registrars for name resources

IP members for number resources

Domain name registrants

Internet Users

Internet resources are National Telecom resources in Viet Nam (Telecom Law):
- ".vn" ccTLD.
- IP/ASN

VNNIC's relations - domestic

Registrars/ registrants

Government Authorities

IP/VNIX members

VNNIC

Communities
(VIA, VECOM, other internet related associations, users)

Education, Academy, Industry
(PTIT, IOIT ...)

We joined APNIC in 2002/ officially became NIR member in 2003

Became member in 2001.

- ccNSO: officially joined the supporting organization of ICANN on 20/11/2013.
- GAC: joined as member since Apr 2013.

• Joining in many activities of ITU-T, APT, APRICOT, APIA, APIX...

• Bilateral cooperation agreement with KISA, JPNIC, LANIC, TRC...

Update – Host APRICOT 2017 and APTLD 71 in HCMC

20 Feb – 2 Mar, APRICOT 2017 was hosted by VNNIC in Ho Chi Minh City

2-3 March 2017, APTLD 71 was hosted by VNNIC in Ho Chi Minh City

Update - VNNIC IP Member Meeting and VNIX-NOG 2017

24/8/2017: IP member meeting was held onsite at VNNIC office in HCMC and two remote sites via teleconference at Hanoi and Da Nang City

25/8/2017: VNIX-NOG 2017 was held in Ho Chi Minh City

24-25/8/2017: Mr. Tom Harrison – Reprenative of APNIC joined and shared interesting topics in VNNIC IP Member meeting and VNIX-NOG 2017

Ms. Thu Thuy joined and shared Vietnam Internet resources management in APIGA 2017 in Seoul

Update - IPv6 promotion activities

Vietnam IPv6 Day 2017

3 main IPv6 training courses for Government Agencies
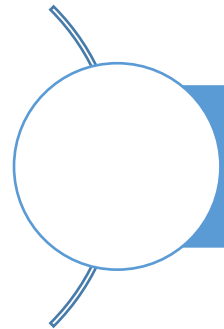

IPv6 article on MIC's Website

VietNam IPv6 Ready

Update - Other activities

- Give guidance, implement legal rules on Internet Resource Management to Department of Information and Communications of Quang Binh Province.

- Support Department of Information and Communications of Lam Dong Province about deploying IPv6

Contents

Internet Resources Management and Development

Internet resources in Vietnam

- Internet resources:
  - '.vn' domain name.
  - Internet addresses (IPv4, IPv6); Autonomous number (ASN).

- Internet resources is national information resources.
  - Be set under the Government's management to ensure the stability of Internet in Vietnam.
  - Internet resources (.vn ccTLD, IP/ASN) management as a method to manage and supervise Internet operations.

- Appropriate authority: Ministry of Information and Communications (MIC).
  - VNNIC was delegated by MIC to carry out the functions of managing, allocating, supervising and promoting the use of Internet resources in Vietnam.
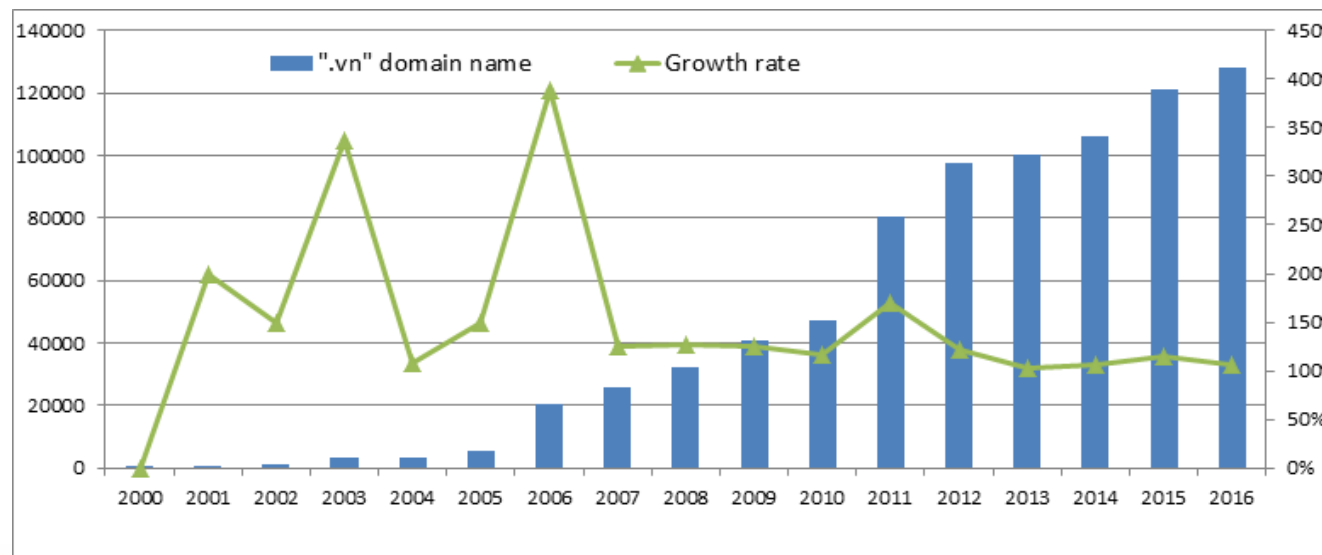
Development of '.vn'
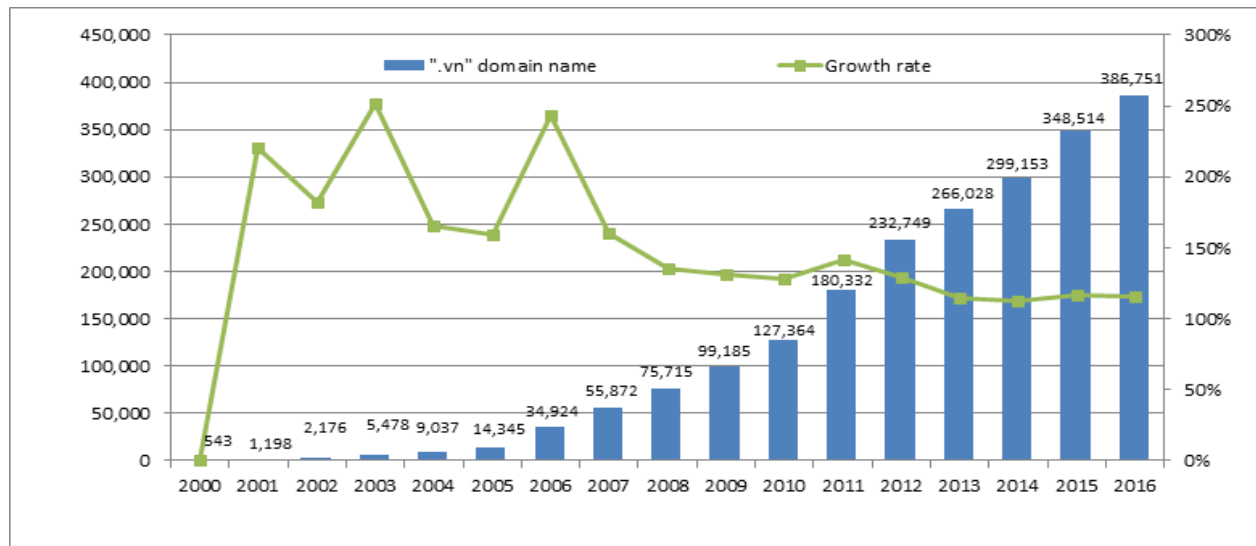
Total number ".vn" and growth rate over years

Registration number and growth rate over years

IDN under .VN

Before 2017:

- Management directly by VNNIC

- Register Online

- Free Services Online (Web Direct, Web Template, DNS Hosting, DNS Delegation)

- Fee = 0

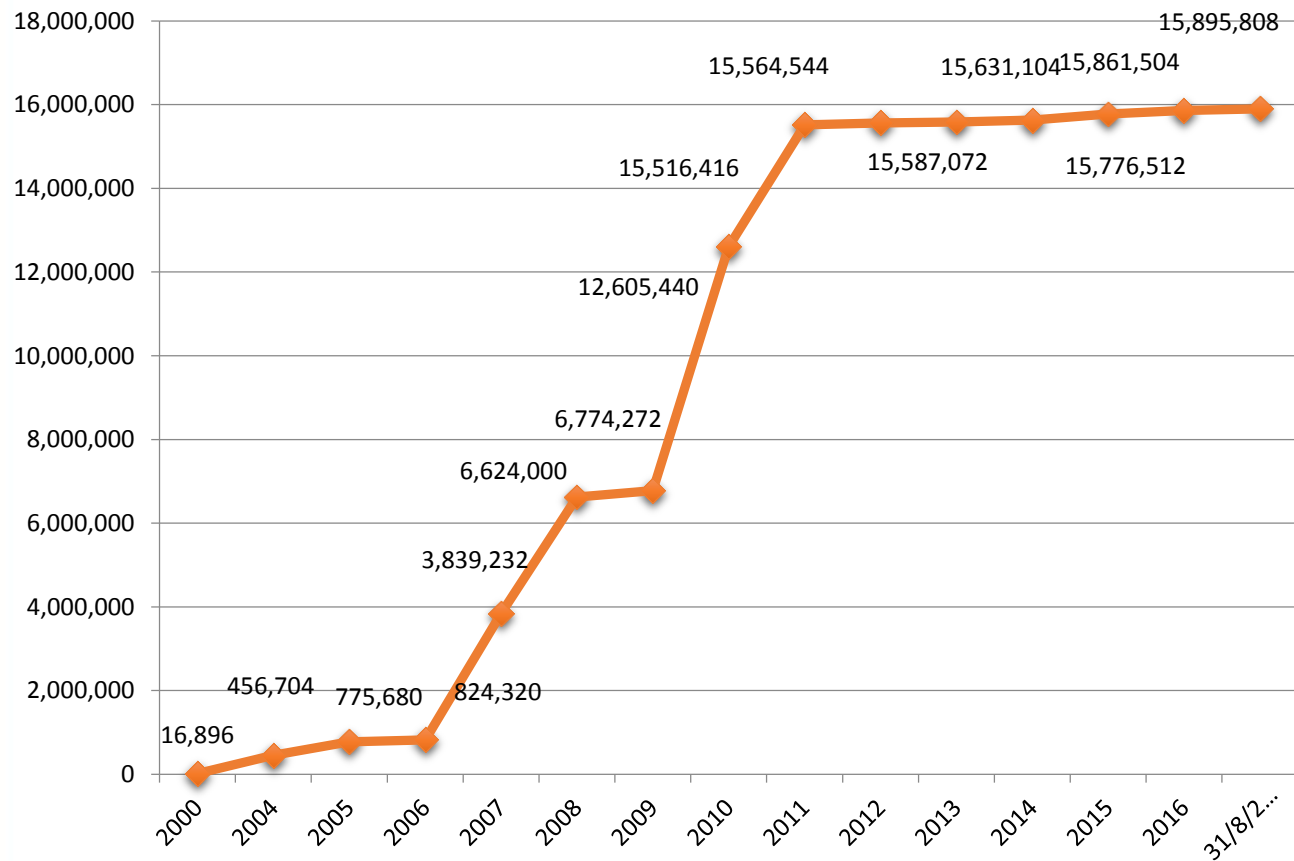- Total domain names: 977,007 (by 31/10/2016).

Since 01, January, 2017:

- Switch to Registry – registrar model

- Apply a minor fee for renewal (1 USD per domain name per year) in order to recover management cost.

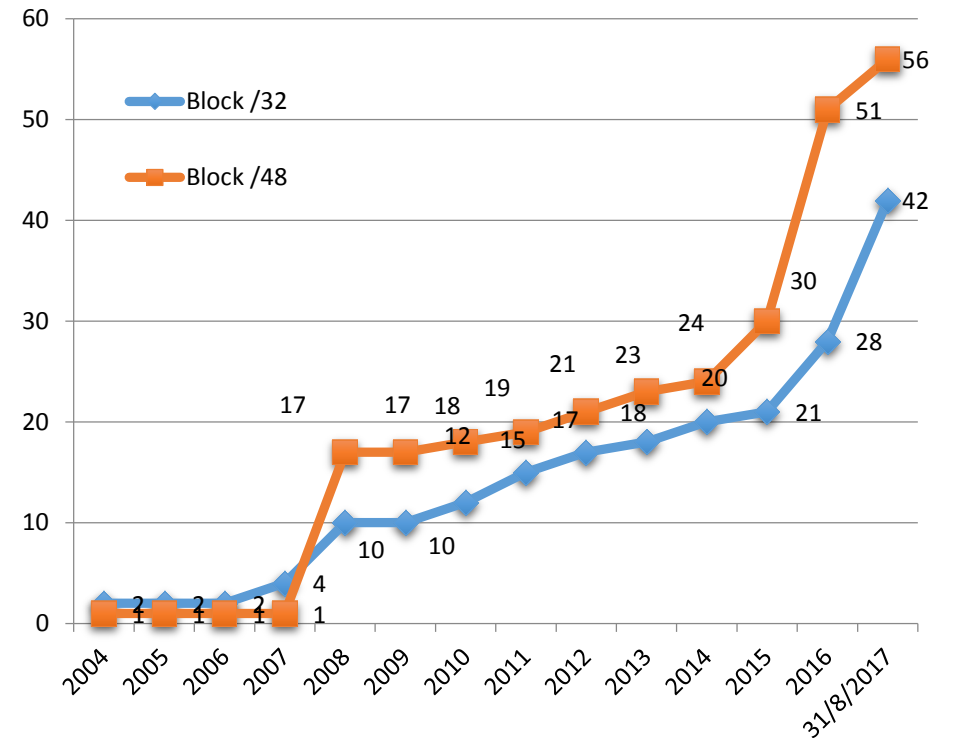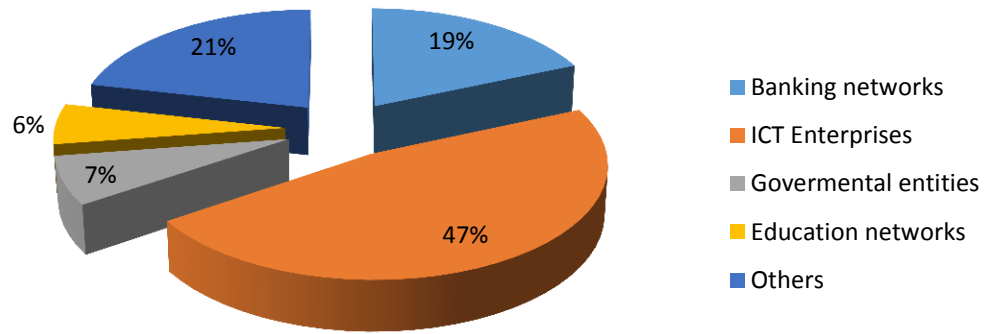- 224.454 (by August 2017).

IPv4/IPv6 delegation

- IPv4: 15,895,808 ranking 2th in ASEAN, 8th in Asia – Pacific, 29th in the world (by 31/8/2017, source: www.potaroo.net)

IPv6: 42 block /32s and 56 blocks /48.

Total of members with IPv6: 86.

VNNIC IP Members

Type of organization

- Banking networks
- ICT Enterprises
- Govermental entities
- Education networks
- Others

19%
47%
7%
6%
21%
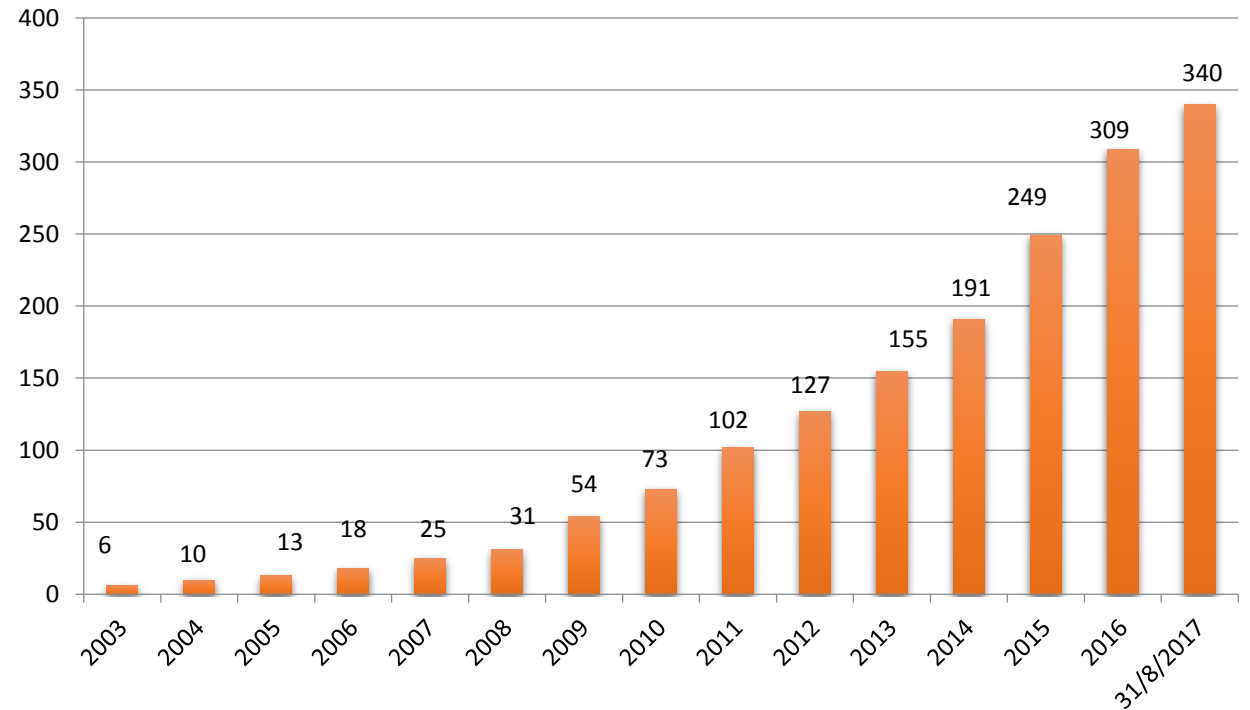
Number of VNNIC IP members

400
350
300
250
200
150
100
50
0

2003: 6
2004: 10
2005: 13
2006: 18
2007: 25
2008: 31
2009: 54
2010: 73
2011: 102
2012: 127
2013: 155
2014: 191
2015: 249
2016: 309
31/8/2017: 340

CONTENTS

Vietnam IPv6 measurement

Top 15 countries/economies on IPv6 deployment in Asia

No.	CC	Country	IPv6 Capable	IPv6 Preferred	Samples
1	IN	India	50.69%	49.51%	70,087,196
2	JP	Japan	18.65%	15.97%	766,387
3	MY	Malaysia	17.40%	16.42%	4,888,180
4	MO	Macao	9.81%	9.15%	280,375
5	TH	Thailand	9.11%	8.95%	5,259,073
6	**VN**	**Vietnam**	**8.42%**	**7.83%**	**23,572,180**
7	SA	Saudi Arabia	6.59%	6.24%	3,188,247
8	LK	Sri Lanka	6.15%	5.83%	1,810,270
9	KR	Republic of Korea	4.48%	4.13%	1,814,296
10	SG	Singapore	3.44%	2.62%	1,613,939
11	IL	Israel	2.64%	2.62%	1,092,664
12	AE	United Arab Emirates	1.59%	1.54%	838,658
13	TW	Taiwan	1.29%	1.24%	1,920,679
14	HK	Hong Kong	0.71%	0.14%	1,174,589
15	IR	Iran	0.26%	0.24%	354,271

APNIC Labs (7/9/2017)
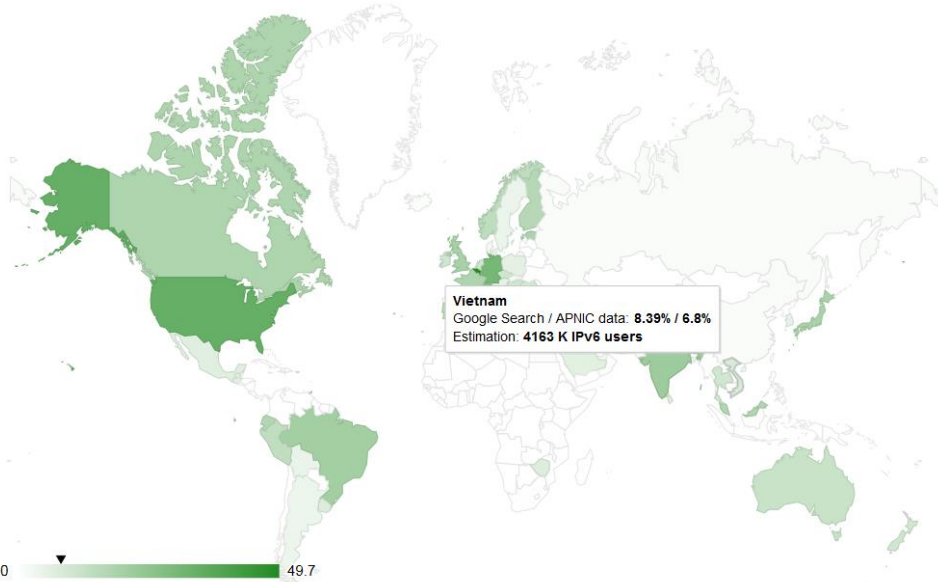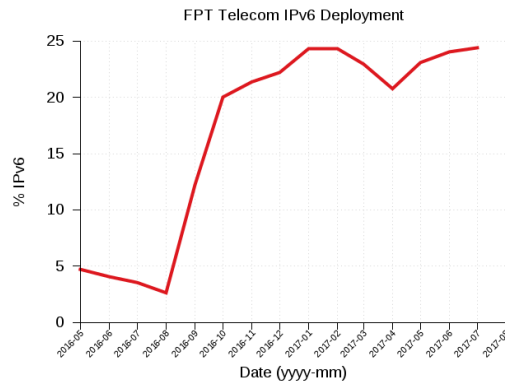
IPv6 deployment measurement in Vietnam
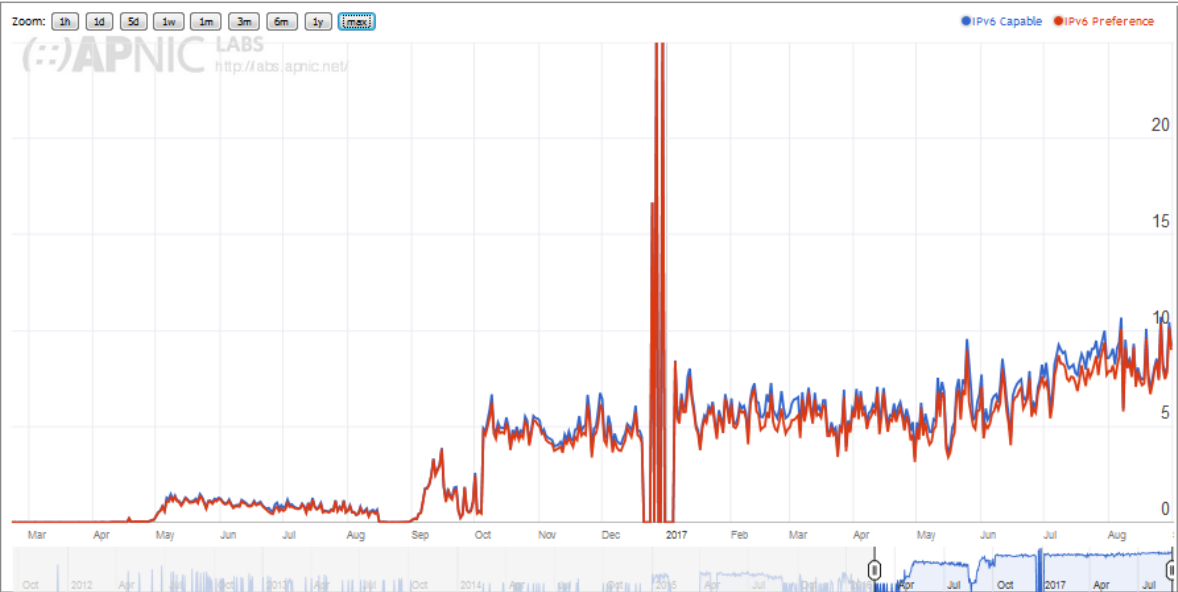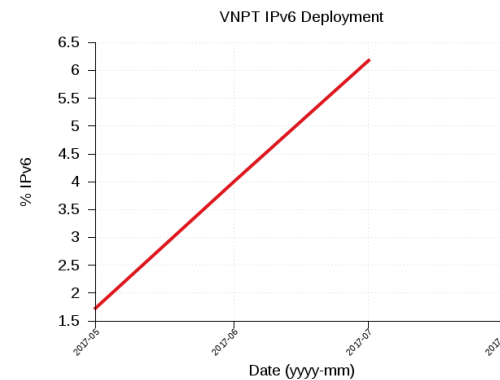

APNIC Labs (31/8/2017)

Source: Cisco lab (31/8/2017)

Best enterprises on IPv6 deployment in Vietnam

IPv6 deployment of FPT Telecom
(Source: worldipv6launch.com)

IPv6 deployment of VNPT Group
(Source: worldipv6launch.com)

- FPT Telecom: ~1.000.000 FTTH customers, ~ 28% IPv6 capable.

- VNPT Group: ~ 500.000 FTTH customers, increasing from 1% to 7% IPv6 capable (deploying IPv6 in 22 cities and provinces and continuing to deploying IPv6 for 43 others).

- Viettel Group: Having IPv6 deployment plan for 1 million FTTH customers and 1.5 million 4G LTE subscribers.

CONTENTS

Upcoming activities

Upcoming activities

1. Training IPv6 for engineers of The Lao Ministry of Posts and Telecommunication from 19-22/9.

2. DNSSEC training course

3. Issuing Report on Vietnam Internet Resources 2017

4. Cooperation with Department of Information and Communications

5. Other international cooperation activities and IPv6 activities.

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