VIET NAM INTERNET NETWORK INFORMATION CENTER

# REPORT ON 2017
# VIET NAM INTERNET RESOURCES

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**Head office: 6th floor, 115 Tran Duy Hung St., Thanh Xuan District, Ha Noi city**

Tel: 024.35772143 | 024.35772138 | E-mail: nxb.tttt@mic.gov.vn | Fax: 024.35579858

**Branch in Ho Chi Minh city: No. 8A, D2 Road, Ward 25, Binh Thanh District, Ho Chi Minh city**

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# *Introduction*

The "***Report on Viet Nam Internet Resources***" was first introduced in 2012 and since has become an annual publication, would provide Internet resource statistics and development results in Viet Nam. In 2017, Viet Nam Internet Network Information Center (VNNIC), in collaboration with the Information and Communications Publishing House, continued to publish the "***Report on Viet Nam Internet resources 2017***".

The highlight of year 2017 is the synchronization of the legal document system to empower the management and operation of ".vn" domain name transfer process. Besides, the new fee band stipulated by the Circular No. 208/2016/TT-BTC dated November 10th 2016 by Ministry of Finance has lowered the cost to use and the price of ".vn" ccTLD, also raising the commercial value of the domain. VNNIC also established and operated the registration service management system with EPP protocol for the Vietnamese Internationalized Domain Name (IDN) under the Registry-Registrar model, creating the competitive environment among Registrars that would provide Vietnamese IDN services for better quality.

2017 also witnessed the gradually increasing IPv6 deployment in the country, bringing Viet Nam to the 5th position in the list of top Asia countries with highest IPv6 adoption rate.

We expect that the ***"Report on Viet Nam Internet resources 2017"*** would continue to benefit the policy authorities from all reference of information and knowledge; to support enteprises and businesses to catch the popular trend of Internet resource development in Viet Nam, for better market research and activities. Any comment or feedback for this report is definitely welcome.

Thank you!

**VIET NAM INTERNET NETWORK INFORMATION CENTER**

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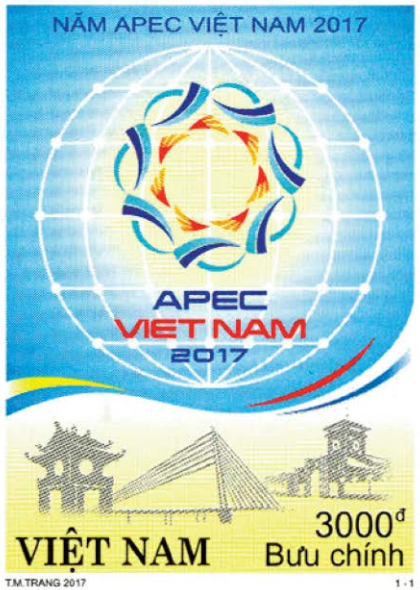
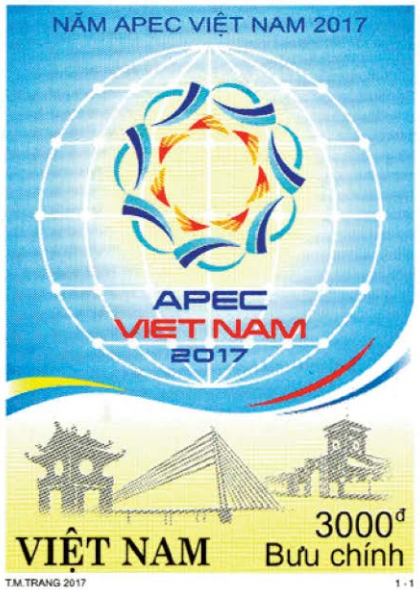



TÊN MIỀN

.Vn

Nâng tầm thương hiệu Việt

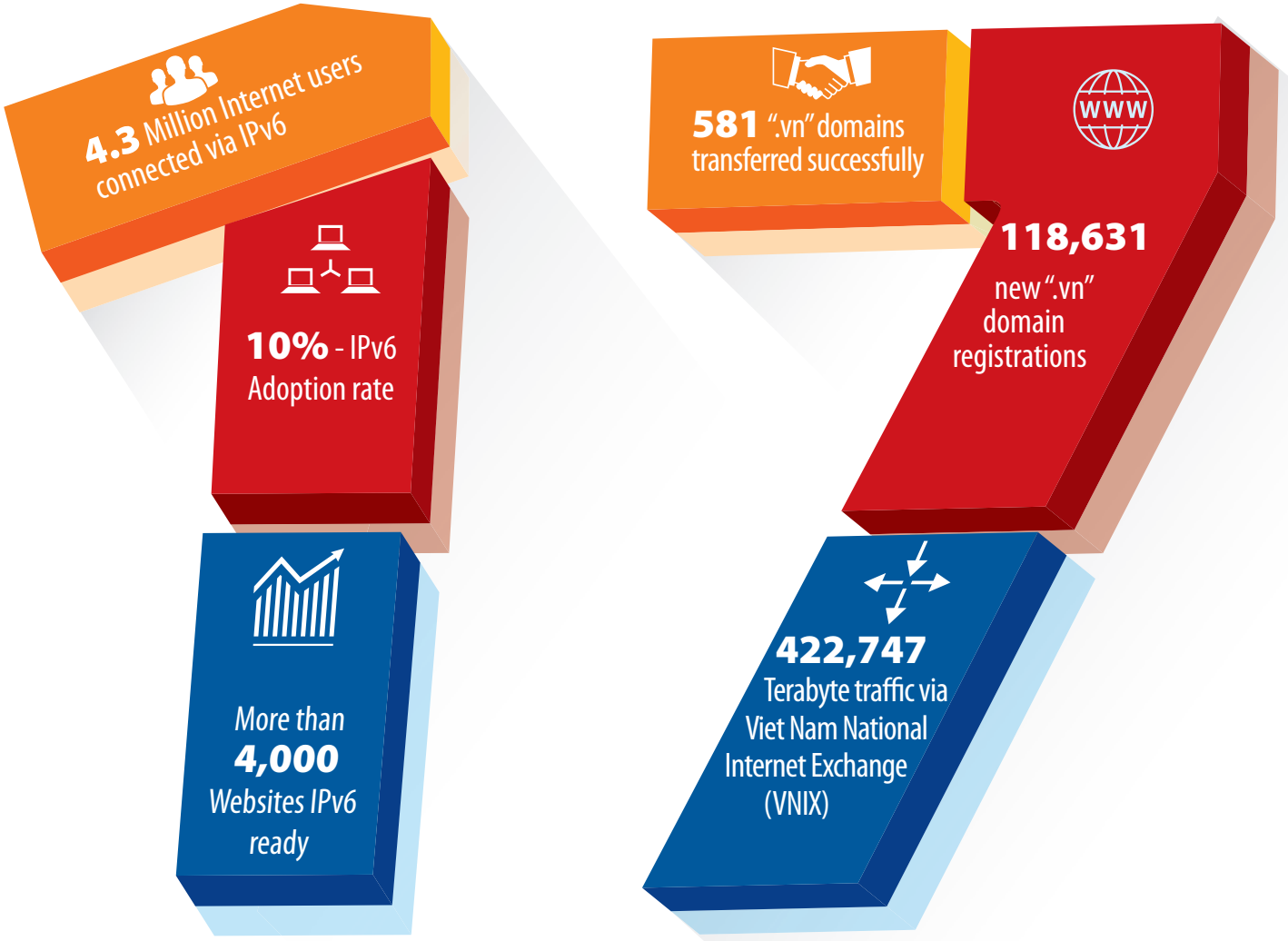



TÊN MIỀN

.Vn

Nâng tầm thương hiệu Việt

# VNNIC 2017 IN FIGURES



# INTERNET RESOURCE STATISTICS IN VIET NAM 2017

# 1. ASCII ".VN" COUNTRY CODE TOP LEVEL DOMAIN NAME

## 1.1 Development trend and advantage of ccTLDs

A country code top-level domain (ccTLD) is an Internet top-level domain generally used or reserved for a country, sovereign state, or territory identified with a country code in the ISO-3166, in which ".vn" stands for Viet Nam ccTLD.

Becoming a prominent trend in the Internet space, most ccTLDs enjoy a large domestic market share advantage, with specific local targets all over the world. Using ccTLDs could benefit from search engines for country-based search results depending on the IP addresses of users.

In addition to the geographical value, using ".vn" domain name has secured the safety and sufficiency for the Internet community in Viet Nam with more updated domain services. For instance, from the beginning of 2017, VNNIC officially deployed the DNSSEC and launched the Registry Lock service for ".vn" in order to protect the domain against attack threats or unauthorized, unwanted or accidental changes.

Besides, the transfer of the right to use domain names assigned without auction was legally empowered to protect the lawful right of users.

## 1.2 ".vn" ccTLD in the region and in the world

".vn" ccTLD has kept the first position in the number of registered domains in the ASEAN region since 2011, as well as reaching the 7th place in Asia's top 10 ccTLDs with highest number of registrations (see Table 1).

**Table 1:** Ranking of some ccTLDs in Asia

*Unit: Domains*

| Rank | Country/Territory | ccTLD | Number of registrations |
|---|---|---|---|
| 1 | China | .cn | 20,868,593 |
| 2 | India | .in | 2,009,048 |
| 3 | Japan | .jp | 1,483,779 |
| 4 | Korea | .kr | 1,044,481 |
| 5 | Iran | .ir | 918,644 |
| 6 | Taiwan | .tw | 723,758 |
| **7** | **Viet Nam** | **.vn** | **422,601** |
| 8 | Malaysia | .my | 327,109 |
| 9 | Hongkong | .hk | 278,844 |
| 10 | Indonesia | .id | 242,867 |
| 11 | Singapore | .sg | 177,684 |
| 12 | Kazakhstan | .kz | 132,871 |
| 13 | Thailand | .th | 67,188 |
| 14 | Arab Saudi | .sa | 50,917 |
| 15 | Sri Lanka | .lk | 32,697 |

*Source: APTLD Member Statistics and Growth Report October 2017*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## 1.3. ".vn" new registrations in 2017

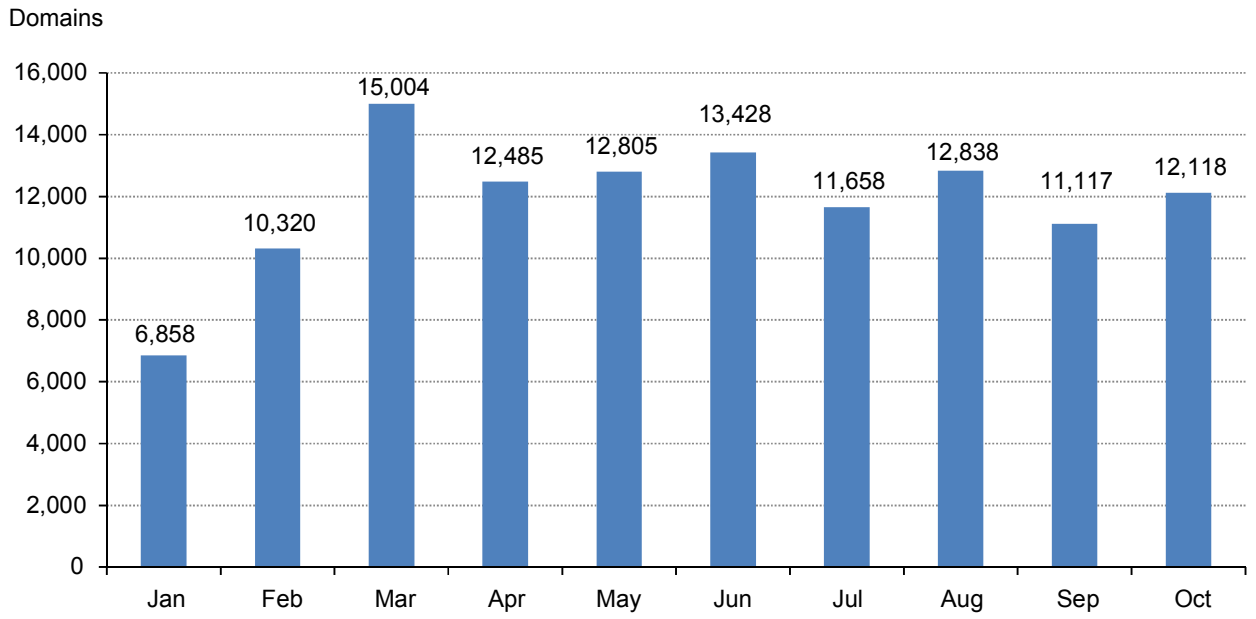


***Figure 1:*** *".vn" domain name new registration during 2017*

By October 2017, the number of new registrations in 2017 reached 118,631 domain names, increasing 111.8% in comparison with last year's period. This achievement reflected the continuing development of ".vn" among the global domain industry thanks to new domain fee band according to Circular No. 208/2016/TT-BTC, EPP services and other value added services. This is also resulted from the efforts of VNNIC and the Registrars with the promotional activities for ".vn" ccTLD, such as enhancing the service quality for customers, strengthening the relationship with customers, improving the image of ".vn" via campaigns .etc.

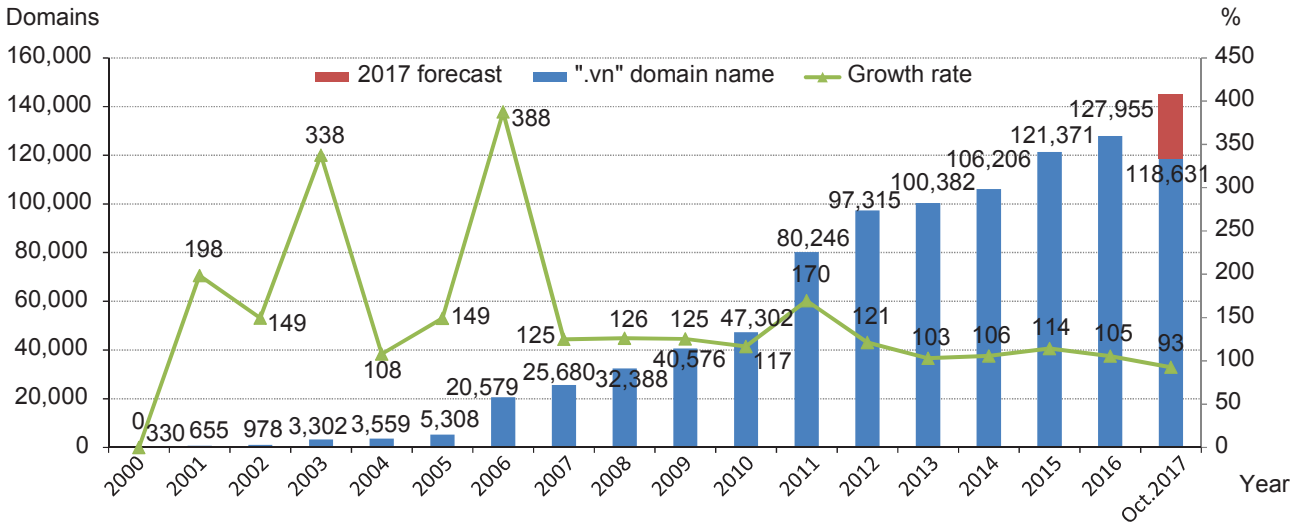


***Figure 2:*** *".vn" ccTLD new registrations over the years*

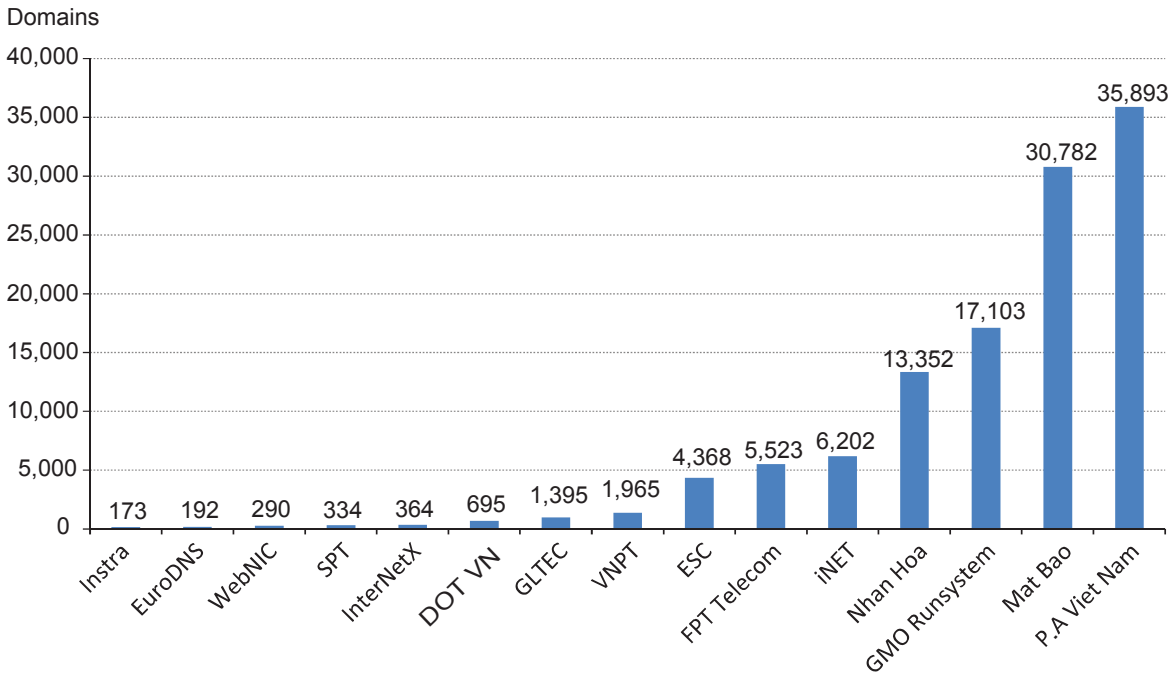


***Figure 3:*** *New registrations by Registrars in 2017 (updated to October 31st, 2017)*


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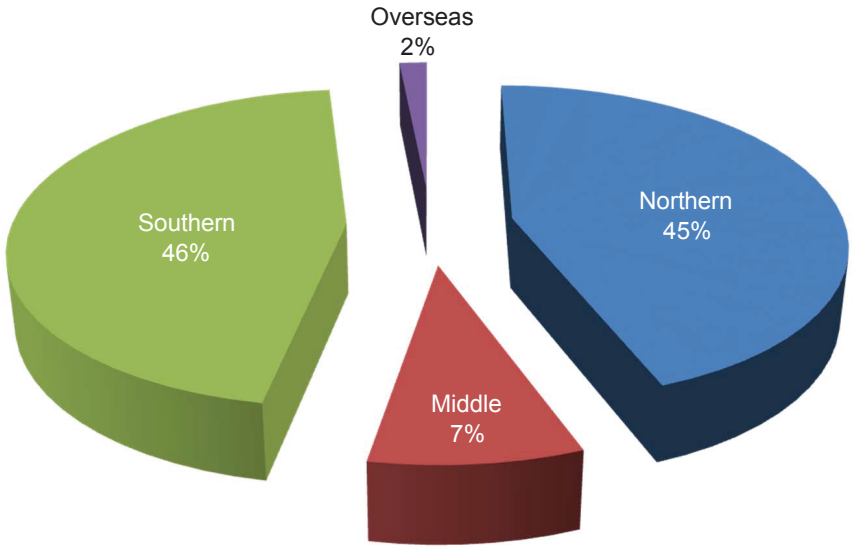


***Firgure 4:*** *New registrations by geographical area*

In 2017, there was not remarkable change to the new registration rate of the 4 regions: the North, the South, the Middle and abroad. Ho Chi Minh city and Ha Noi city are still having the highest number of ".vn" new registrations in 2017.

**Table 2:** New registrations by provinces and cities under the central government (updated to October 31st, 2017)

| No. | Province/city | ".vn" registration | No. | Province/city | ".vn" registration |
|---|---|---|---|---|---|
| 1 | An Giang | 265 | 5 | Bac Lieu | 67 |
| 2 | Ba Ria - Vung Tau | 754 | 6 | Bac Ninh | 733 |
| 3 | Bac Giang | 581 | 7 | Ben Tre | 380 |
| 4 | Bac Kan | 35 | 8 | Binh Dinh | 764 |

| No. | Province/city | ".vn" registration |
|---|---|---|
| 9 | Binh Duong | 1,438 |
| 10 | Binh Phuoc | 262 |
| 11 | Binh Thuan | 363 |
| 12 | Ca Mau | 118 |
| 13 | Can Tho city | 565 |
| 14 | Cao Bang | 43 |
| 15 | Da Nang city | 2,503 |
| 16 | Dak Lak | 527 |
| 17 | Dak Nong | 78 |
| 18 | Dien Bien | 50 |
| 19 | Dong Nai | 1,594 |
| 20 | Dong Thap | 196 |
| 21 | Gia Lai | 304 |
| 22 | Ha Giang | 41 |
| 23 | Ha Nam | 442 |
| **24** | **Ha Noi city** | **42,103** |
| 25 | Ha Tinh | 457 |
| 26 | Hai Duong | 822 |
| 27 | Hai Phong city | 1,527 |
| 28 | Hau Giang | 76 |

| No. | Province/city | ".vn" registration |
|---|---|---|
| **29** | **Ho Chi Minh city** | **44,508** |
| 30 | Hoa Binh | 276 |
| 31 | Hung Yen | 655 |
| 32 | Khanh Hoa | 1,059 |
| 33 | Kien Giang | 338 |
| 34 | Kon Tum | 75 |
| 35 | Lai Chau | 29 |
| 36 | Lam Dong | 816 |
| 37 | Lang Son | 105 |
| 38 | Lao Cai | 222 |
| 39 | Long An | 438 |
| 40 | Nam Dinh | 929 |
| 41 | Nghe An | 1,208 |
| 42 | Ninh Binh | 402 |
| 43 | Ninh Thuan | 187 |
| 44 | Phu Tho | 419 |
| 45 | Phu Yen | 182 |
| 46 | Quang Binh | 267 |
| 47 | Quang Nam | 587 |
| 48 | Quang Ngai | 388 |


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| No. | Province/city | ".vn" registration |
|---|---|---|
| 49 | Quang Ninh | 513 |
| 50 | Quang Tri | 147 |
| 51 | Soc Trang | 89 |
| 52 | Son La | 84 |
| 53 | Tay Ninh | 231 |
| 54 | Thai Binh | 730 |
| 55 | Thai Nguyen | 410 |
| 56 | Thanh Hoa | 1,231 |

| No. | Province/city | ".vn" registration |
|---|---|---|
| 57 | Thua Thien - Hue | 339 |
| 58 | Tien Giang | 358 |
| 59 | Tra Vinh | 310 |
| 60 | Tuyen Quang | 83 |
| 61 | Vinh Long | 180 |
| 62 | Vinh Phuc | 585 |
| 63 | Yen Bai | 171 |

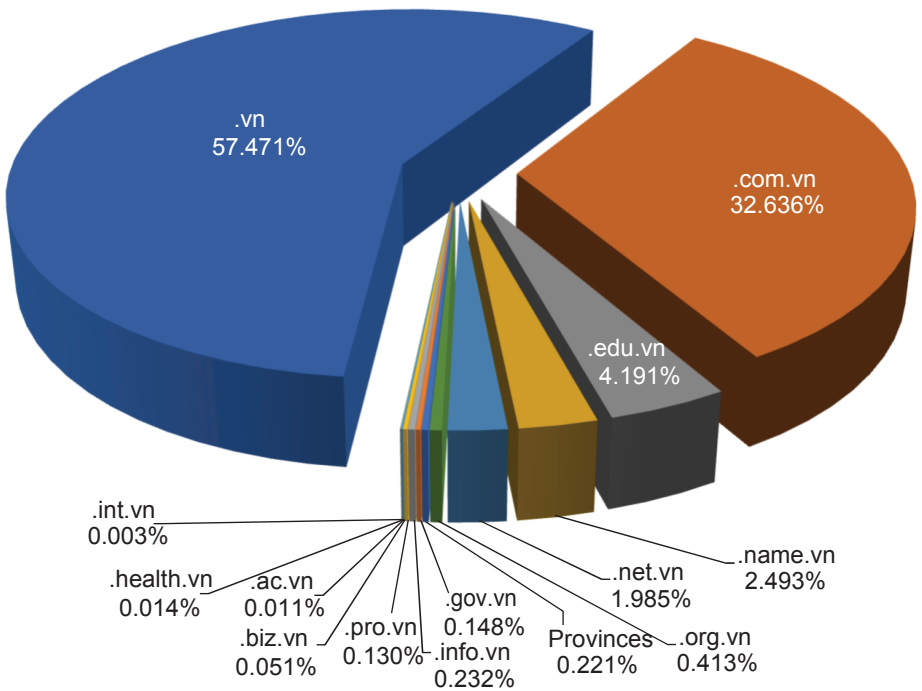


***Figure 5:*** *New registrations by extension in 2017 (updated to October 31st, 2017)*

## 1.4 ".vn" growth over the years

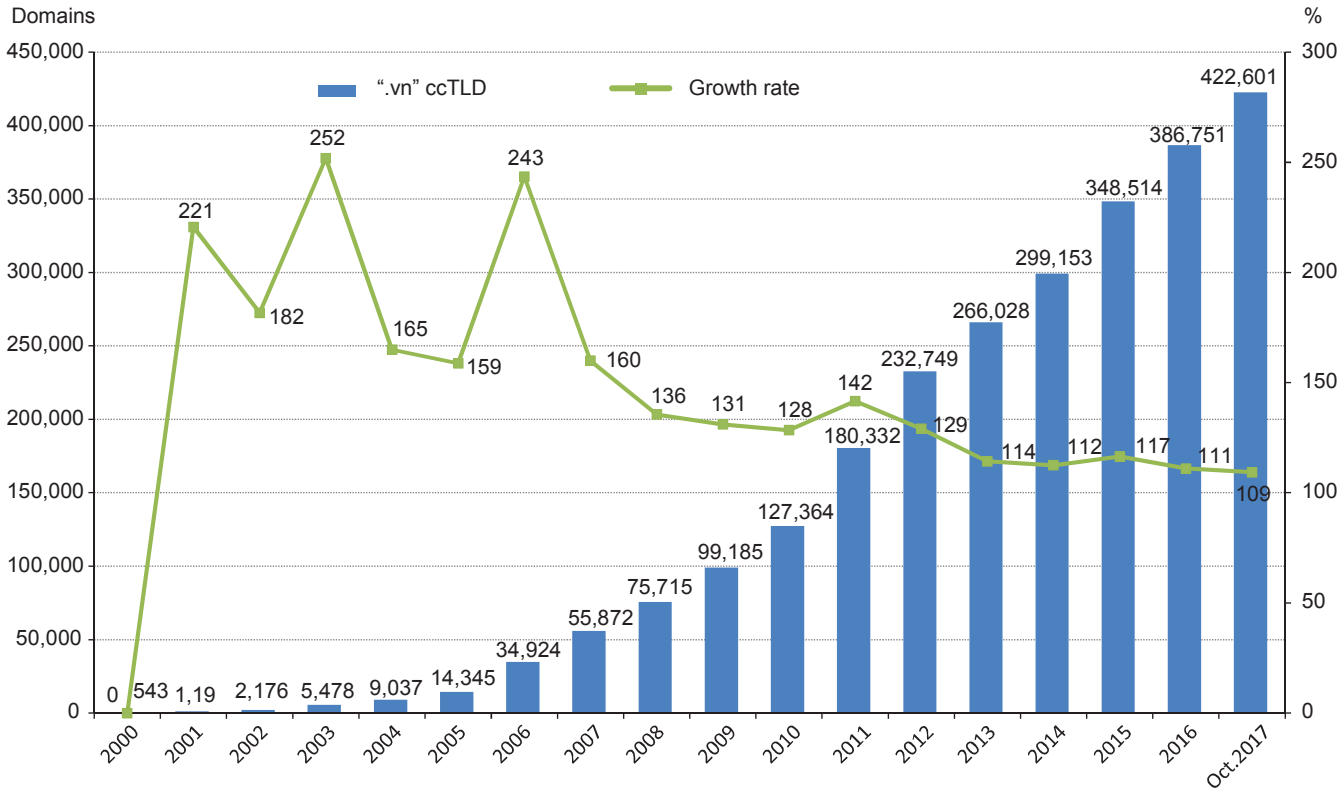


***Figure 6:*** *Cumulative number of ".vn" domain name registration and growth rate over the years*

By October 2017, the growth rate of ".vn" increased stably to 110.5% in comparison with the same period last year. This development, among the ccTLDs in the region, demonstrated the prospect of a promising future of ".vn" domain name and registrants' loyalty.


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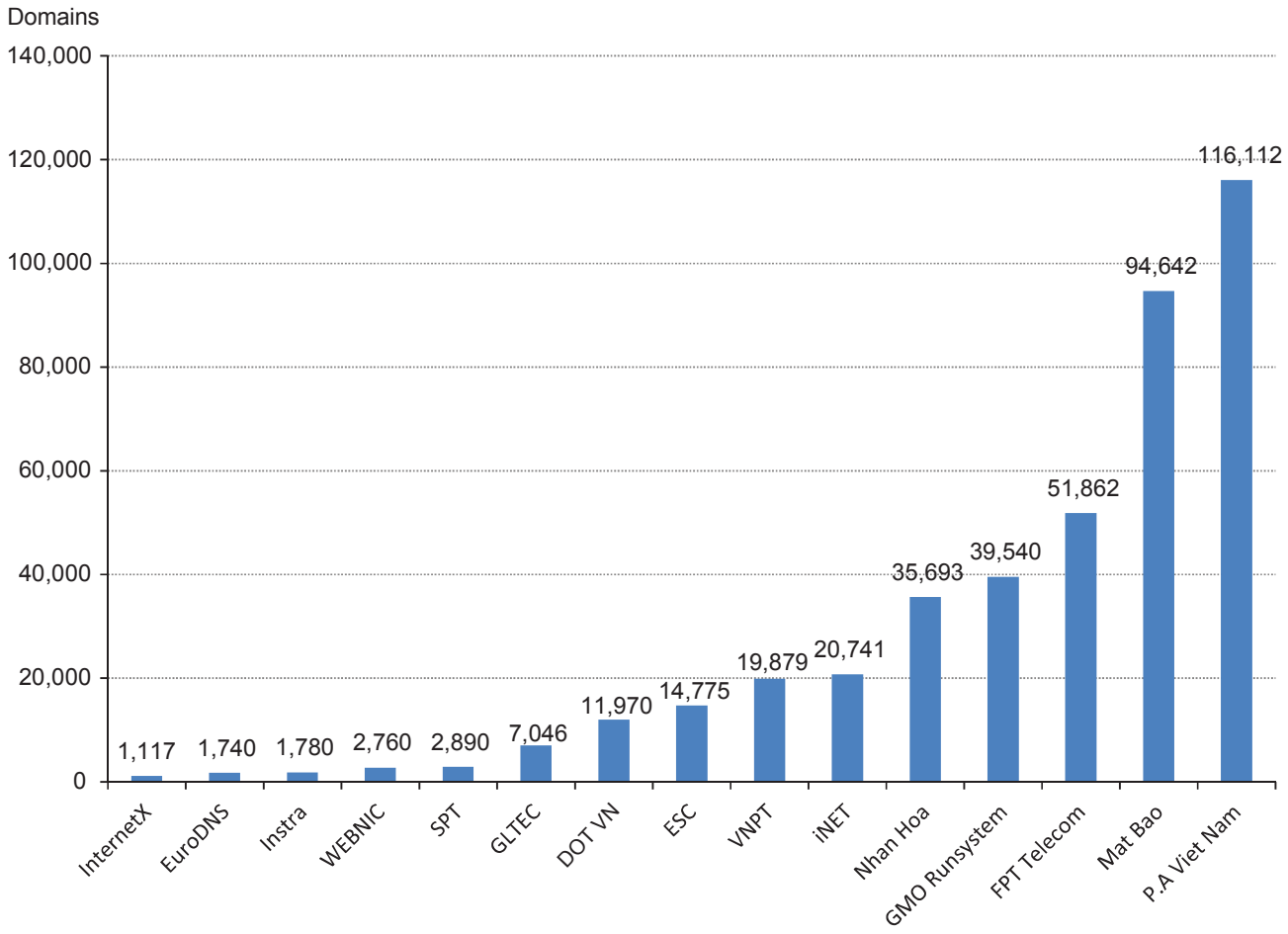


***Figure 7:*** *Cumulative number of ".vn" domain name by Registrars (updated to October 31st, 2017)*

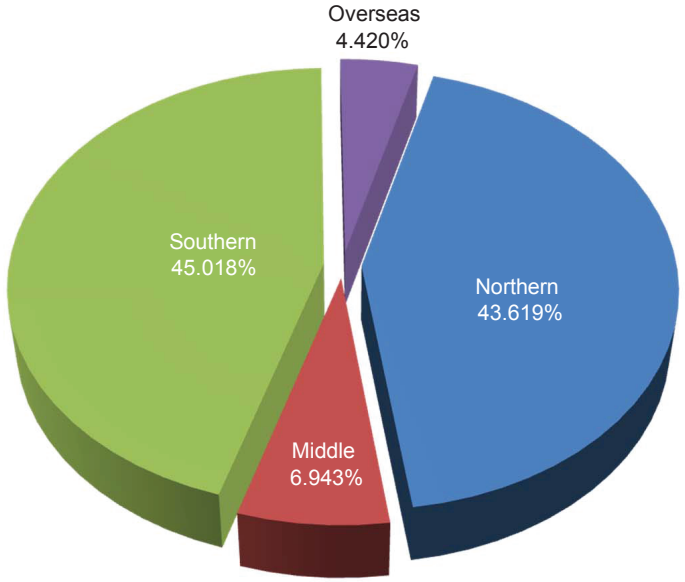


***Figure 8:*** *Cumulative number of ".vn" domain name by geographical area*

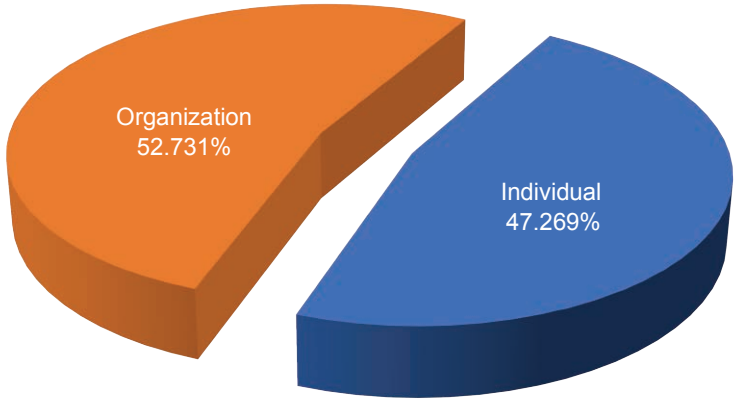


***Figure 9:*** *Cumulative number of ".vn" domain name by registrant type*


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**Table 3:** Total ".vn" domain name by provinces and cities under the central government

| No. | Province/city | ".vn" count | .gov.vn count |
|---|---|---|---|
| 1 | An Giang | 848 | 8 |
| 2 | Ba Ria - Vung Tau | 2,853 | 13 |
| 3 | Bac Giang | 1,539 | 19 |
| 4 | Bac Kan | 108 | 12 |
| 5 | Bac Lieu | 205 | 10 |
| 6 | Bac Ninh | 2,324 | 11 |
| 7 | Ben Tre | 1,119 | 11 |
| 8 | Binh Dinh | 2,055 | 20 |
| 9 | Binh Duong | 5,783 | 24 |
| 10 | Binh Phuoc | 765 | 35 |
| 11 | Binh Thuan | 1,083 | 14 |
| 12 | Ca Mau | 357 | 7 |
| 13 | Can Tho city | 2,236 | 19 |
| 14 | Cao Bang | 119 | 14 |
| 15 | Da Nang city | 7,685 | 33 |
| 16 | Dak Lak | 1,631 | 30 |
| 17 | Dak Nong | 210 | 5 |
| 18 | Dien Bien | 190 | 26 |
| 19 | Dong Nai | 5,447 | 30 |
| 20 | Dong Thap | 739 | 11 |
| 21 | Gia Lai | 732 | 10 |
| 22 | Ha Giang | 153 | 5 |
| 23 | Ha Nam | 1,207 | 19 |
| **24** | **Ha Noi city** | **154,221** | **647** |
| 25 | Ha Tinh | 1,107 | 32 |
| 26 | Hai Duong | 2,423 | 13 |
| 27 | Hai Phong city | 5,415 | 43 |
| 28 | Hau Giang | 240 | 3 |
| **29** | **Ho Chi Minh city** | **159,379** | **137** |
| 30 | Hoa Binh | 699 | 10 |
| 31 | Hung Yen | 2,053 | 16 |
| 32 | Khanh Hoa | 3,398 | 51 |
| 33 | Kien Giang | 1,093 | 15 |
| 34 | Kon Tum | 237 | 11 |
| 35 | Lai Chau | 90 | 5 |
| 36 | Lam Dong | 2,165 | 17 |
| 37 | Lang Son | 289 | 8 |
| 38 | Lao Cai | 528 | 11 |
| 39 | Long An | 1,693 | 9 |
| 40 | Nam Dinh | 2,671 | 15 |
| 41 | Nghe An | 3,072 | 42 |
| 42 | Ninh Binh | 1,271 | 14 |
| 43 | Ninh Thuan | 462 | 6 |
| 44 | Phu Tho | 1,068 | 17 |

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| No. | Province/city | ".vn" count | .gov.vn count |
|---|---|---|---|
| 45 | Phu Yen | 493 | 16 |
| 46 | Quang Binh | 784 | 20 |
| 47 | Quang Nam | 1,851 | 86 |
| 48 | Quang Ngai | 1,022 | 11 |
| 49 | Quang Ninh | 1,966 | 25 |
| 50 | Quang Tri | 511 | 27 |
| 51 | Soc Trang | 400 | 6 |
| 52 | Son La | 247 | 16 |
| 53 | Tay Ninh | 750 | 4 |
| 54 | Thai Binh | 2,007 | 7 |

| No. | Province/city | ".vn" count | .gov.vn count |
|---|---|---|---|
| 55 | Thai Nguyen | 1,359 | 25 |
| 56 | Thanh Hoa | 3,324 | 56 |
| 57 | Thua Thien - Hue | 1,197 | 12 |
| 58 | Tien Giang | 1,071 | 10 |
| 59 | Tra Vinh | 788 | 6 |
| 60 | Tuyen Quang | 290 | 27 |
| 61 | Vinh Long | 475 | 7 |
| 62 | Vinh Phuc | 1,655 | 11 |
| 63 | Yen Bai | 389 | 11 |

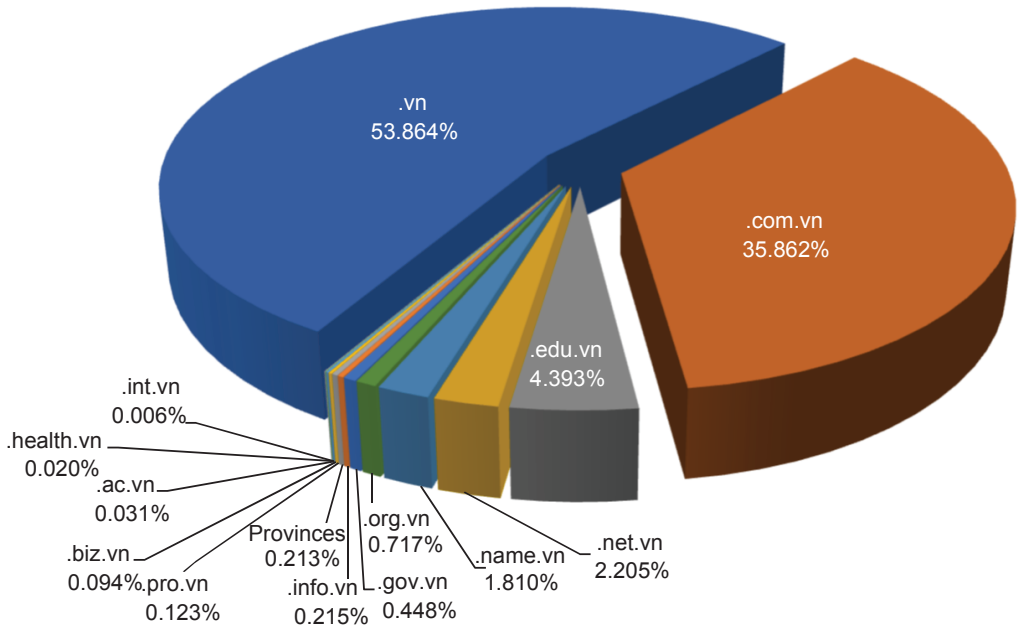


***Figure 10:*** *Cumulative number of ".vn" domain name by extension*


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## 1.5. New services added to ".vn" domain name in 2017

### *1.5.1. Registry Lock Service*

Registry Lock is a service that provides an extra layer of security against domain name hijacking by locking the domain name at registry level, preventing the domain name from being deleted or transferred or any domain name information from being altered. Before 2017, VNNIC provided this service without any cost for domain names related to sovereign and national benefits according to Section 1 Article 8 Circular No. 24/2015/TT-BTTTT. There were 2,305 domain names falling into this category.

In 2017, VNNIC has been supporting some ".vn" domain name Registrars to experiment with locking domain service for Registrants. By October 2017, there were 5,930 ".vn" domain names registered with locking domain service by Registrars.

### *1.5.2. Domain transfer*

Since June 1st, 2017, the transfer has been made official for the ".vn" domain names assigned without auction. Registrants can easily execute the sale, transfer the right to use legally and still keep the lawful right. The transaction should be secured and the domain service is not interrupted during the transaction.

By October 2017, the number of domain names with complete transfer transaction was 581 by almost all domestic Registrars.

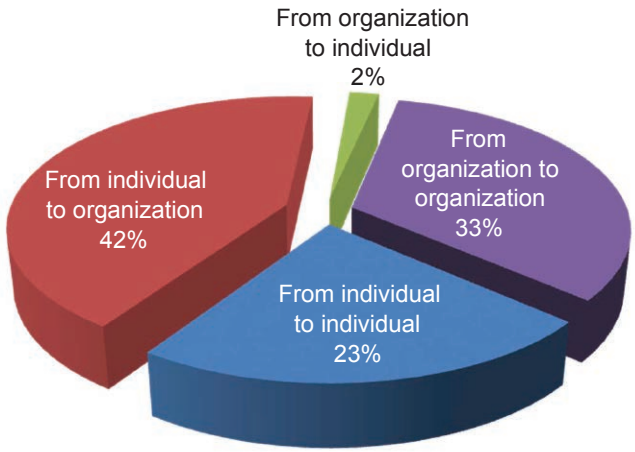


***Figure 11:*** *Domain transfer by types of parties in the transaction*

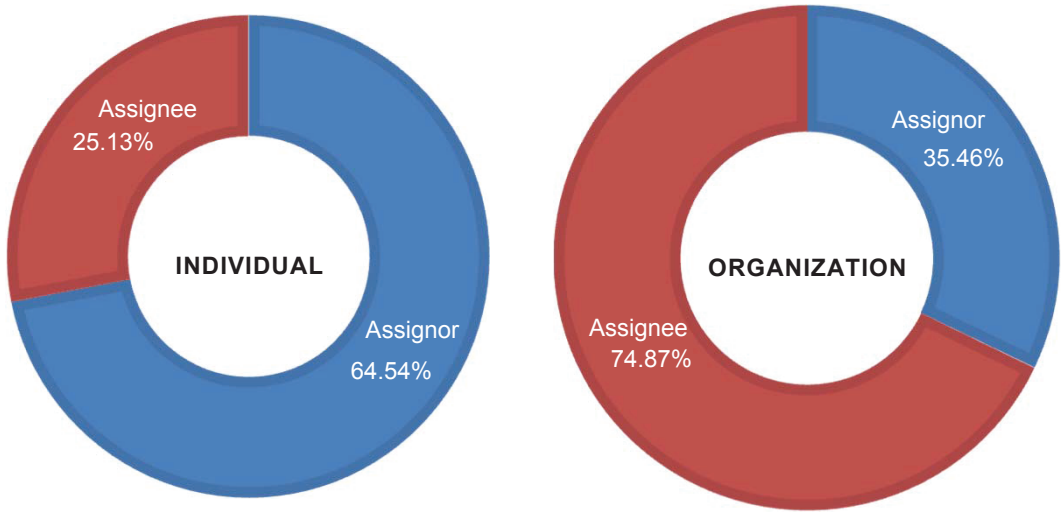


***Figure 12:*** *Domain transfer by registrant*


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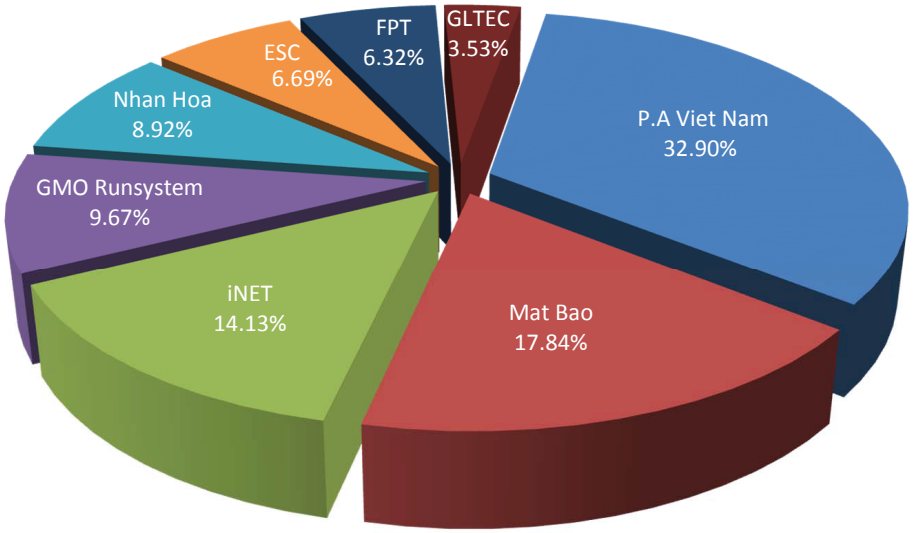


***Figure 13:*** *Domain transfer by Registrars*

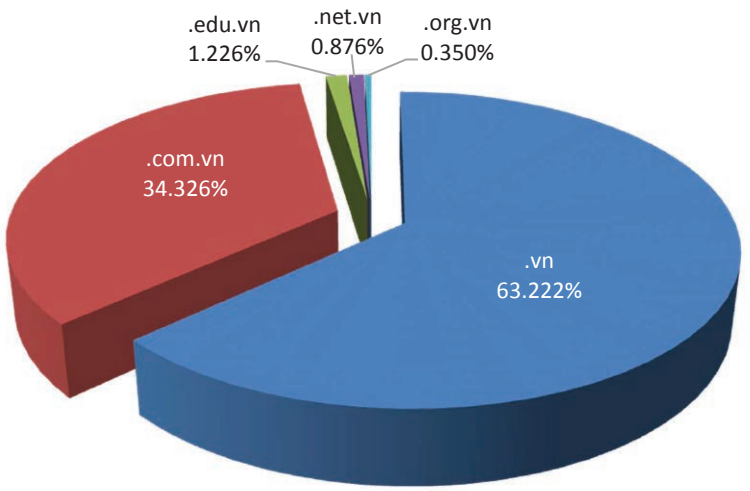


***Figure 14:*** *Domain transfer by extension*

### *1.5.3. DNSSEC deployment on the national DNS*

On December 20th, 2016, DNSSEC was officially launched on the national ".vn" DNS servers, marking a milestone of the development of Internet infrastructure in Viet Nam, with better preparation for e-commerce and e-government application.

## 1.6. Top 20 ".vn" ASCII domain names most queried on the national DNS

**Table 4:** Top 20 ".vn" ASCII domanin names most queried on the national DNS

| No. | Domains name | No. | Domains name | No. | Domains name |
|---|---|---|---|---|---|
| 1 | google.com.vn | 8 | mecon.vn | 15 | viettinbanksc.com.vn |
| 2 | dantri.com.vn | 9 | zing.vn | 16 | sanxehot.vn |
| 3 | viettel.com.vn | 10 | eva.vn | 17 | xem.vn |
| 4 | vnpt.vn | 11 | viettelidc.com.vn | 18 | nhanhoa.com.vn |
| 5 | cict.com.vn | 12 | yahoo.com.vn | 19 | ica.net.vn |
| 6 | 24.com.vn | 13 | thanhnien.com.vn | 20 | kienthuc.net.vn |
| 7 | navavina.com.vn | 14 | tripadvisor.com.vn | | |

# 2. VIETNAMESE INTERNATIONALIZED DOMAIN NAME (VIETNAMESE IDN)

## 2.1. Change in the Vietnamese Internationalized domain name (Vietnamese IDN) management model in 2017

**Change in the domain fee band**

Since January 1st, 2017, in accordance with the Circular No. 208/2016/TT-BTC, registration fee of Vietnamese Internationalized Domain Name (IDN) still stays at 0 VND, while the renewal fee should be 20,000 VND/year (less than


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1 USD) to cover the administration cost. The price for value added services for the Vietnamese IDN would be decided by the Registrars and market demand.

**Change in the management model**

In 2017, VNNIC completed and brought the registration service management system of Vietnamese IDN in accordance with EPP standards into effect. Now registrants could contact ".vn" Registrars to register the Vietnamese IDN, instead of dealing directly with VNNIC previously. There are now 6 Registrars to provide IDN services, including iNet, GMO-Z.com Runsystem, P.A Viet Nam, DOT VN, Nhan Hoa and ESC.

## 2.2. Vietnamese IDN growth in 2017

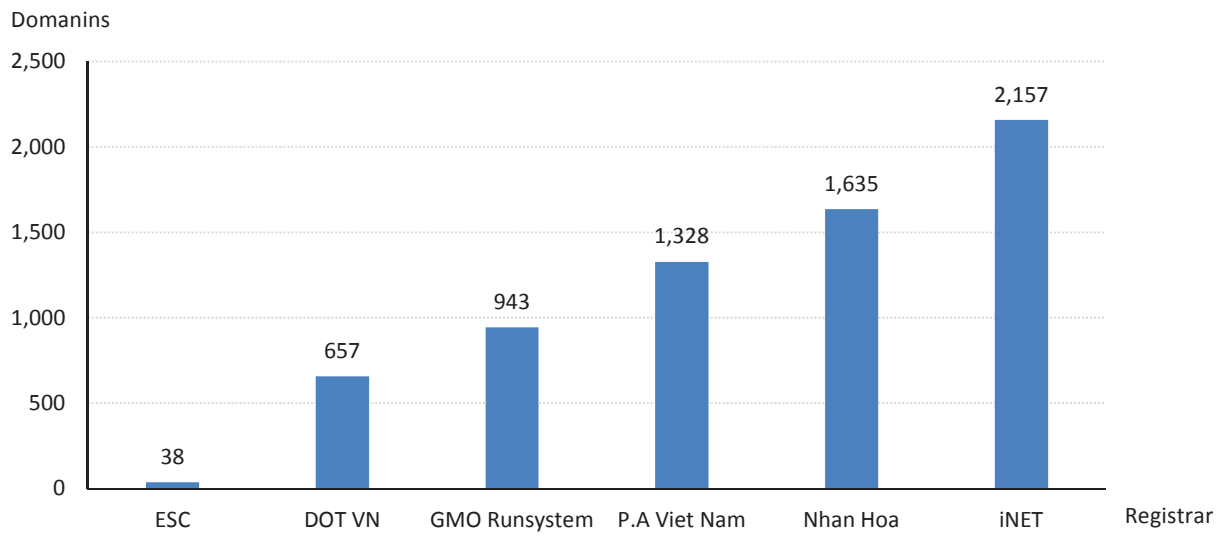


***Figure 15:*** *New IDN Registrantions by Registrars*

Year 2017 witnessed the breakthrough of Vietnamese IDN with major changes in fee band and adoption of ASCII ".vn" domain policies and management model, together with its value added services (Registry Lock service, domain name transfer of rights without auction, DNSSEC).

By October 31st 2017, new IDN registrations reached 6,770 domain names. The whole namespace came further to the practical use of IDN. Thanks to new service management system, more competition was created among ".vn" Registrars to provide IDN services to the public, in which they had to improve technical systems and service quality to meet the requirements and demand of customers.

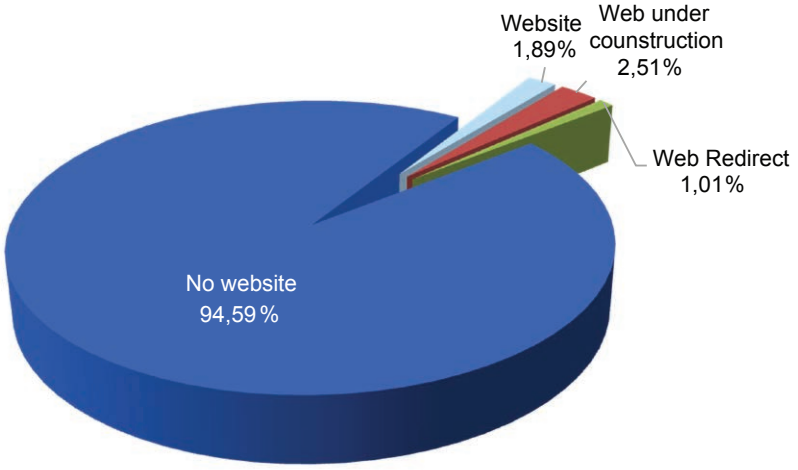


***Figure 16:*** *Vietnamese IDN with website rate*


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.vn
.com.vn
.edu.vn
.net.vn
.name.vn
.org.vn
.info.vn
.province
.pro.vn
.gov.vn
.biz.vn
.ac.vn
.int.vn
.health.vn

# 3. ".VN" DOMAIN NAME USAGE IN 2017

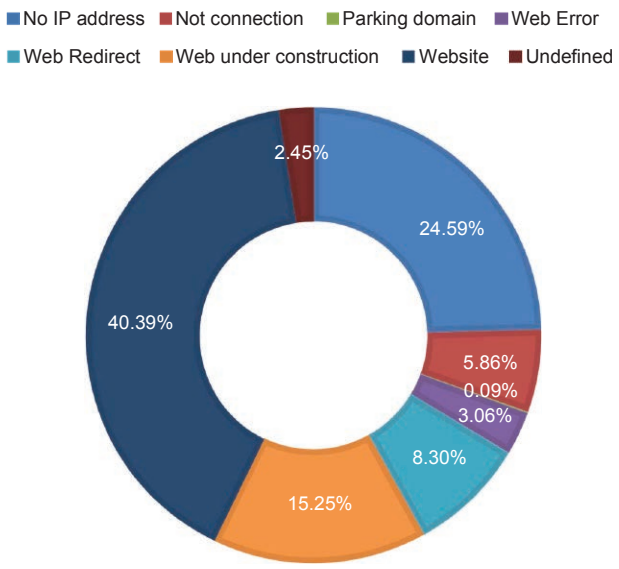


***Figure 17:*** *".vn" usage rate (Updated to October 31st, 2017)*

**Table 5:** Status of extentions in the ".vn" namespace

| Extension | Pending Delete | No IP adress | Not connection | Parking domain | Web Error | Web Redirect | Web under Construction | Undefined | Web Site |
|---|---|---|---|---|---|---|---|---|---|
| .vn | 2,262 | 54,801 | 12,656 | 194 | 7,254 | 18,473 | 32,277 | 3,404 | 96,320 |
| .com.vn | 1,356 | 40,932 | 9,584 | 199 | 4,543 | 14,139 | 22,585 | 2,195 | 56,029 |
| .net.vn | 120 | 2,626 | 859 | 6 | 246 | 800 | 1,351 | 118 | 3,193 |
| .org.vn | 12 | 575 | 195 | 2 | 88 | 194 | 362 | 47 | 1,557 |
| .gov.vn | 3 | 108 | 87 | 0 | 71 | 118 | 172 | 42 | 1,293 |
| .int.vn | 0 | 13 | 2 | 0 | 1 | 2 | 3 | 1 | 2 |
| .edu.vn | 210 | 2,600 | 894 | 0 | 543 | 1,001 | 2,168 | 274 | 10,873 |
| .pro.vn | 3 | 129 | 25 | 0 | 22 | 43 | 75 | 7 | 216 |
| .ac.vn | 2 | 30 | 10 | 0 | 4 | 9 | 18 | 1 | 58 |
| .name.vn | 173 | 1,485 | 324 | 0 | 102 | 64 | 5,120 | 41 | 343 |
| .biz.vn | 3 | 160 | 30 | 0 | 13 | 49 | 50 | 4 | 89 |
| .health.vn | 4 | 34 | 13 | 0 | 4 | 5 | 9 | 1 | 14 |


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| Extension | Pending Delete | No IP adress | Not connection | Parking domain | Web Error | Web Redirect | Web under Construction | Undefined | Web Site |
|---|---|---|---|---|---|---|---|---|---|
| .info.vn | 20 | 293 | 55 | 0 | 24 | 91 | 129 | 15 | 282 |
| [provines].vn | 16 | 144 | 48 | 0 | 30 | 76 | 130 | 12 | 443 |
| **Total** | | | | | | | | | **170,712** |

**Table 6:** The quality of Local Hosting Service and Overseas Hosting Service in the ".vn" namescape

| Extension | Local Hosting | | | | | | Overseas Hosting | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Not connection | Web Error | Parking Domain | Web Redirect | Web under construction | Website | Not connection | Web Error | Parking Domain | Web Redirect | Web under construction | Website |
| .vn | 10,277 | 5,522 | 0 | 11,640 | 27,602 | 80,393 | 2,379 | 1,732 | 194 | 6,833 | 4,674 | 15,926 |
| .com.vn | 8,160 | 3,588 | 0 | 9,689 | 19,814 | 48,201 | 1,423 | 955 | 199 | 4,450 | 2,771 | 7,828 |
| .net.vn | 816 | 194 | 0 | 599 | 1,225 | 2,751 | 42 | 52 | 6 | 201 | 126 | 442 |
| .org.vn | 166 | 77 | 0 | 138 | 318 | 1,347 | 29 | 11 | 2 | 56 | 44 | 210 |
| .gov.vn | 84 | 69 | 0 | 113 | 166 | 1,237 | 3 | 2 | 0 | 5 | 6 | 56 |
| .int.vn | 1 | 1 | 0 | 1 | 0 | 2 | 1 | 0 | 0 | 1 | 3 | 0 |
| .edu.vn | 761 | 400 | 0 | 799 | 1,883 | 8,911 | 133 | 143 | 0 | 202 | 285 | 1,962 |
| .pro.vn | 23 | 15 | 0 | 22 | 60 | 190 | 2 | 7 | 0 | 21 | 15 | 26 |
| .ac.vn | 8 | 3 | 0 | 4 | 12 | 52 | 2 | 1 | 0 | 5 | 6 | 6 |
| .name.vn | 289 | 81 | 0 | 45 | 5,080 | 238 | 35 | 21 | 0 | 19 | 40 | 105 |
| .biz.vn | 19 | 12 | 0 | 19 | 42 | 78 | 11 | 1 | 0 | 30 | 8 | 11 |
| .health.vn | 12 | 4 | 0 | 3 | 8 | 13 | 1 | 0 | 0 | 2 | 1 | 1 |
| .info.vn | 47 | 14 | 0 | 47 | 114 | 216 | 8 | 10 | 0 | 44 | 15 | 66 |
| [provines].vn | 43 | 25 | 0 | 66 | 115 | 388 | 5 | 5 | 0 | 10 | 15 | 55 |
| **Total** | | | | | | **144,017** | | | | | | **26,694** |

# 4. INTERNATIONAL DOMAIN NAMES

## 4.1. The list of International Domain Name Registrars in Viet Nam

**Table 7:** The list of International Domain Name Registrars in Viet Nam

| No. | Name | Website |
|---|---|---|
| 1 | GLTEC Corporation | gltec.com.vn |
| 2 | DOT VN INC Joint Stock Company | it.vn |
| 3 | Online Solutions Company Ltd | esc.vn |
| 4 | Nhan Hoa Software Company Limited | nhanhoa.com |
| 5 | Vietnext | vietnext.vn |
| 6 | Mat Bao Corporation | matbao.vn |
| 7 | NetNam Corporation | netnam.vn |
| 8 | Tan Duc Technical Development and Trading Joint Stock Company | tdt-tanduc.com |
| 9 | Viet Arrow Company | vietarrow.com |
| 10 | P.A Viet Nam Company Limited | pavietnam.vn |
| 11 | Vi Nam Informatics Technology Solution and Business Company Limited | vinabits.com.vn |
| 12 | Hong Son Technology Joint Stock Company | viethost.net |
| 13 | Viet Nam., Isc | vietnap.vn |
| 14 | Viet Solution E-Commerce Company Limited | vietsol.net |
| 15 | L.p.v.n Informatics - Design Co., Ltd | lpvietnam.com |
| 16 | Trang Web Vang Company | trangwebvang.com |
| 17 | Ht&Ecom Online Business Development Company Limited | htecom.vn |
| 18 | Vipcom Company Limited | vipcom.vn |
| 19 | SGC Company LTD | sgc.vn |


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| No. | Name | Website |
|---|---|---|
| 20 | Minhtriet Network Administrator Company Limited | adonlead.com |
| 21 | New Vision Technology Service Trading Company Limited | vdata.vn |
| 22 | Bachkim Network Solution Joint Stock Company | bkns.vn |
| 23 | GMO-Z.COM Runsystem Joint Stock | runsystem.net |
| 24 | IM Develop and Investment Corporation | imgroup.vn |
| 25 | INET Corporation | iNET.vn |
| 26 | Viet Khanh Company | telnetvn; vietkhanh.net |
| 27 | Nguyen Ngoc Thanh Trading Limited Company | tnd.vn |
| 28 | Digistar Company Limited | digistar.vn |
| 29 | Digital Storage Company Limited | 123host.vn |
| 30 | Digital World Data Online Company Limited | tgs.com.vn |
| 31 | Huu Nhan Online Solutions Company Limited | huunhan.vn; hnvietnam.vn |
| 32 | Online Data Services Joint Stock Company | ods.vn |
| 33 | Viet Nam Future Technology Joint Stock Company | ftech.vn |
| 34 | VIETWEB | vietweb.vn |
| 35 | Viet Hosting Company | viethosting.com |
| 36 | Viet Nam Online Software Solutions Joint Stock Company | vinaweb.vn |
| 37 | April Sea Information Technology Company Limited | maprilis.com.vn |
| 38 | Viet Nam Multimedia Service Joint Stock Company | vmms.vn |
| 39 | Vinahost Company Limited | vinahost.vn |

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## 4.2. International domain name statistics in Viet Nam

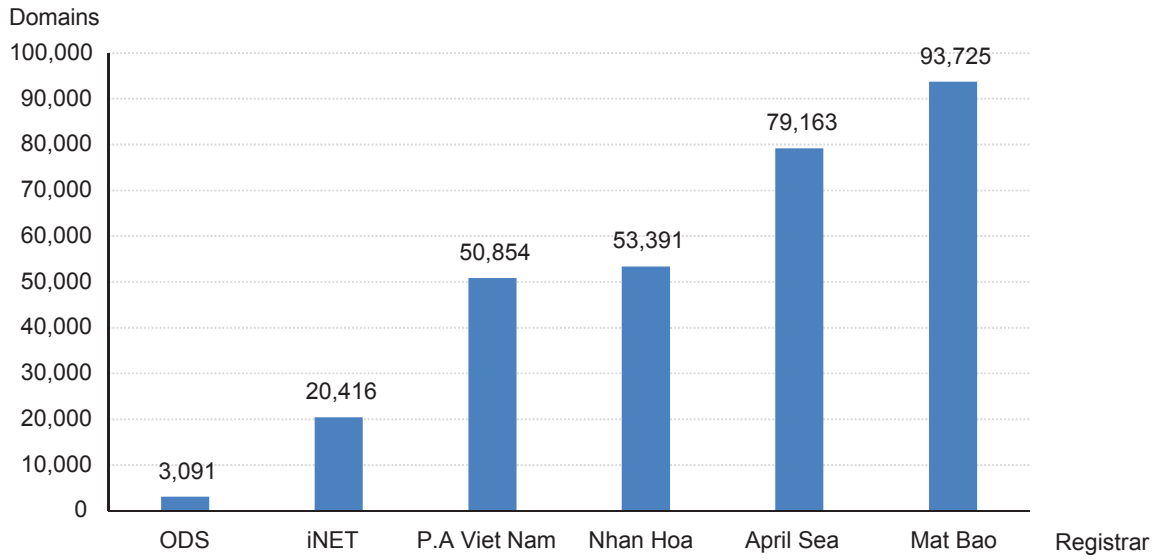


***Figure 18:*** *International domain name statistics*


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# 5. NUMBER RESOURCES (IP ADDRESS/ AUTONOMOUS SYSTEM NUMBER)

## 5.1. IPv6 deployment in Viet Nam in 2017

Source: APNIC

***Figure 19:*** *Use of IPv6 for Viet Nam*

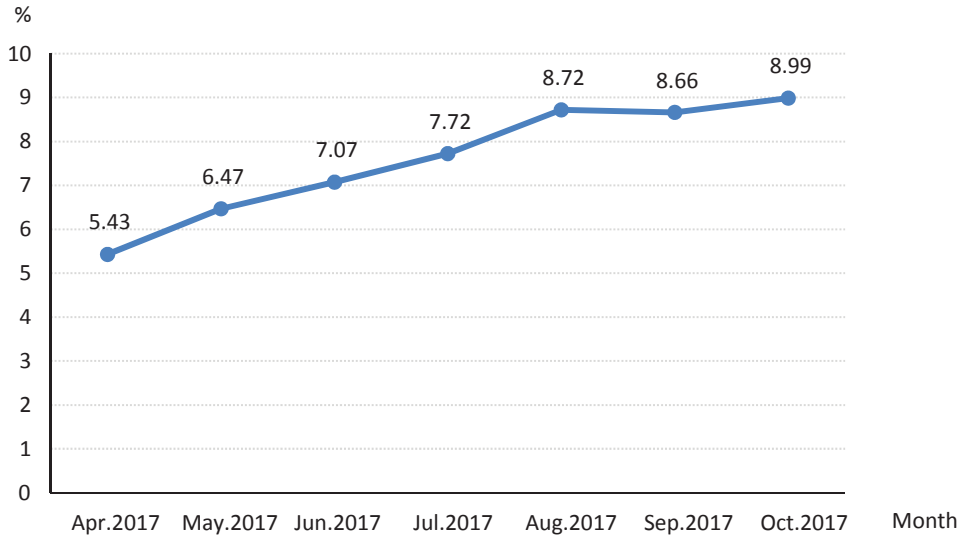


***Figure 20:*** *IPv6 user rate growth during 2017*

IPv6 adoption rate in Viet Nam rose considerably since April 2016. According to APNIC statistics, by October 2017, IPv6 adoption rate of Viet Nam reached about 10% (almost 4.3 million IPv6 users), standing at the third place in the ASEAN region (after Malaysia and Thailand), the fifth in Asia (after India, Japan, Malaysia and Thailand).


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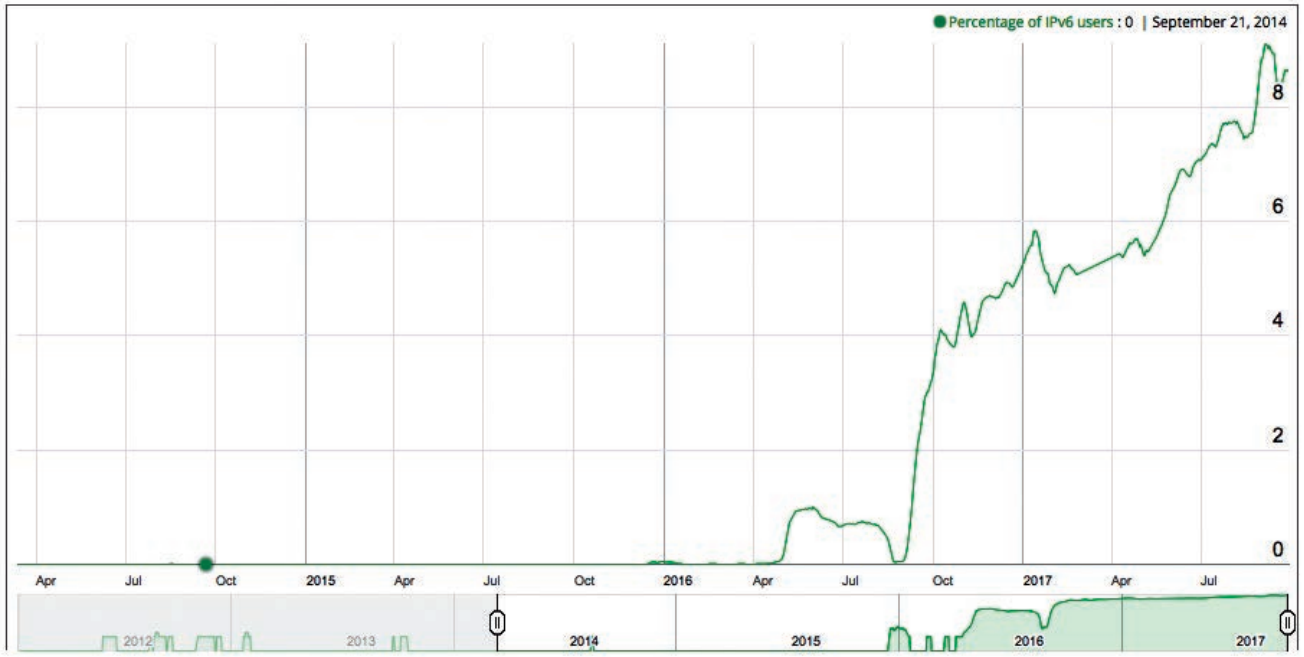


*(Source: Cisco)*

***Figure 21:*** *Viet Nam IPv6 user rate growth*

**Table 8:** IPv6 adoption rate by ISPs (updated on October 31st, 2017)

| No. | ASN | ISP | IPv6 adoption rate |
|---|---|---|---|
| 1 | AS18403 | FPT Telecom | 34.61% |
| 2 | AS45899 | VNPT Group | 7.92% |
| 3 | AS38732 | CMC Telecom | 1.20% |
| 4 | AS38731 | Viettel CHT | 0.28% |
| 5 | AS24173 | NetNam | 0.40% |
| 6 | AS45538 | ODS | 0.18% |

| No. | ASN | ISP | IPv6 adoption rate |
|---|---|---|---|
| 7 | AS45544 | Superdata | 0.09% |
| 8 | AS131429 | MobiFone | 0.05% |
| 9 | AS24085 | QTSC | 0.02% |
| 10 | AS45543 | SCTV | 0.07% |
| 11 | AS7552 | VIETTEL Group | 0.02% |
| 12 | AS7602 | SPT | 0.03% |
| 13 | AS38247 | VIETNAMOBILE | 0.01% |
| 14 | AS38726 | VTC DIGICOM | 0.02% |
| 15 | AS24088 | HANOITELECOM | 0.00% |
| 16 | AS45557 | VNTT | 0.03% |
| 17 | AS45539 | VTCWLB | 0.02% |
| 18 | AS45896 | MobiFone Global | 0.07% |

*Source: APNIC*

Two major ISPs including FPT Telecom and VNPT have achieved great results in IPv6 deployment:

- By July 2017, FPT Telecom provided IPv6 services to about 882,230 FTTH subscribers. Till October 31st, 2017, international traffic via IPv6 of FPT Telecom reached 34.61% (source: APNIC).

- By July 2017, VNPT had deployed IPv6 for more than 500.000 FTTH subscribers in 22 provinces and cities; piloted the 4G LTE service on IPv6; international traffic via IPv6 climbed from 0.03% in January 2017 to 7.92% at the end of October 2017 (source: APNIC).


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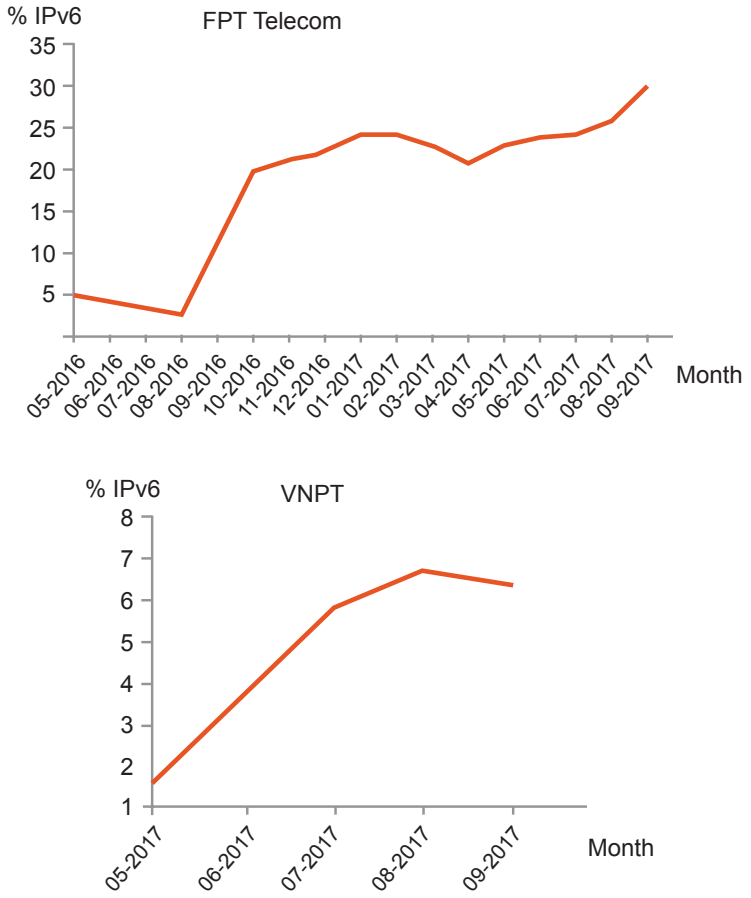


*Source: World IPv6 Launch*

***Figure 22:*** *IPv6 deployment of FPT Telecom and VNPT (by October 31st, 2017)*

In the content area, VnExpress was the first to move their main content page to IPv6 with 13 Websites successfully transitioned, including the main Website: Vnexpress.net; domestic IPv6 traffic reached 6.5%, while international traffic reached 13% with 1,034,000 users accessing over IPv6 per day.

## 5.2. IPv6 Enabled Websites List

In 2017, there were 4,156 IPv6 Enabled Websites within ".vn", as follows:

| No. | Extension | Number of domains |
|---|---|---|
| 1 | .gov.vn | 19 |
| 2 | .edu.vn | 530 |
| 3 | .com.vn | 973 |
| 4 | .net.vn | 66 |
| 5 | .name.vn | 16 |
| 6 | .org.vn | 44 |
| 7 | .vn | 2,508 |
| | **Total** | **4,156** |

**Table 9:** IPv6 Enabled Websites List

| No. | Site | Organization |
|---|---|---|
| 1 | Mic.gov.vn | Ministry of Information and Communications (MIC) |
| 2 | Vnnic.vn | Viet Nam Internet Network Information Center (VNNIC) |
| 3 | Vietnamipv6ready.vn | Viet Nam Internet Network Information Center (VNNIC) |
| 4 | Ipv6event.vn | Viet Nam Internet Network Information Center (VNNIC) |
| 5 | 2012.Ipv6event.vn | Viet Nam Internet Network Information Center (VNNIC) |
| 6 | 2013.Ipv6event.vn | Viet Nam Internet Network Information Center (VNNIC) |
| 7 | 2014.Ipv6event.vn | Viet Nam Internet Network Information Center (VNNIC) |
| 8 | 2015.Ipv6event.vn | Viet Nam Internet Network Information Center (VNNIC) |
| 9 | 2016.Ipv6event.vn | Viet Nam Internet Network Information Center (VNNIC) |
| 10 | ccklbinhduong.gov.vn | Department of Agriculture and Rural Development Binh Duong Province |


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| No. | Site | Organization |
|---|---|---|
| 11 | qlclbinhduong.gov.vn | Department of Agriculture and Rural Development Binh Duong Province |
| 12 | ccttbvtvbinhduong.gov.vn | Department of Agriculture and Rural Development Binh Duong Province |
| 13 | ttknbinhduong.gov.vn | Department of Agriculture and Rural Development Binh Duong Province |
| 14 | cctlbinhduong.gov.vn | Department of Agriculture and Rural Development Binh Duong Province |
| 15 | bqlrphbinhduong.gov.vn | Department of Agriculture and Rural Development Binh Duong Province |
| 16 | bqldannptntbinhduong.gov.vn | Department of Agriculture and Rural Development Binh Duong Province |
| 17 | vpdpbinhduong.gov.vn | Department of Agriculture and Rural Development Binh Duong Province |
| 18 | financepublishinghouse.gov.vn | Finance Publishing House |
| 19 | nhaxuatbanbotaichinh.gov.vn | Finance Publishing House |
| 20 | nxbtc.gov.vn | Finance Publishing House |
| 21 | sachnxbtc.gov.vn | Finance Publishing House |
| 22 | nhaxuatbantaichinh.gov.vn | Finance Publishing House |
| 23 | nxbtcbotaichinh.gov.vn | Finance Publishing House |
| 24 | xuatbantaichinh.gov.vn | Finance Publishing House |
| 25 | xbtc.gov.vn | Finance Publishing House |
| 26 | xbtaichinh.gov.vn | Finance Publishing House |
| 27 | xuatbantc.gov.vn | Finance Publishing House |

IPv6 enabled Websites should be applied for IPv6 WWW Logo of IPv6 Forum. Viet Nam already has 33 Websites which were certified.

**Table 10:** List of Websites with IPv6 Ready Logo

| No. | Website | Organization |
|---|---|---|
| 1 | www.vnnic.vn | Viet Nam Internet Network Information Center (VNNIC) |
| 2 | Vietnamipv6ready.vn | Viet Nam Internet Network Information Center (VNNIC) |
| 3 | Ipv6event.vn | Viet Nam Internet Network Information Center (VNNIC) |

ISO 27001:2013

| No. | Website | Organization |
|---|---|---|
| 4 | 2014.ipv6event.vn | Viet Nam Internet Network Information Center (VNNIC) |
| 5 | 2015.ipv6event.vn | Viet Nam Internet Network Information Center (VNNIC) |
| 6 | 2016.ipv6event.vn | Viet Nam Internet Network Information Center (VNNIC) |
| 7 | www.fshare.vn | FPT Telecom |
| 8 | fsend.vn | FPT Telecom |
| 9 | billingonline.ivoice.com.vn | FPT Telecom |
| 10 | office365.fpt.vn | FPT Telecom |
| 11 | www.startalk.vn | FPT Telecom |
| 12 | abcplay.net | FPT Telecom |
| 13 | mix166.com | FPT Telecom |
| 14 | ods.fpt.net | FPT Telecom |
| 15 | truyenhinh.fpt.vn | FPT Telecom |
| 16 | fpt.vn | FPT Telecom |
| 17 | ipv6.fpt.vn | FPT Telecom |
| 18 | member.hcm.fpt.vn | FPT Telecom |
| 19 | member.fpt.vn | FPT Telecom |
| 20 | ipv6.hcmc.netnam.vn | NetNam Corporation |
| 21 | www.hcmc.netnam.vn | NetNam Corporation |
| 22 | hcmc.netnam.vn | NetNam Corporation |
| 23 | go6.vn | NetNam Corporation |
| 24 | tunnelbroker.netnam.vn | NetNam Corporation |
| 25 | www.ipv6.net.vn | NetNam Corporation |
| 26 | www.netnam.vn | NetNam Corporation |
| 27 | usth.edu.vn | Ha Noi University of Science and Technology |


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| No. | Website | Organization |
|---|---|---|
| 28 | vfossa.vn | VFOSSA |
| 29 | hfh.com.vn | The French Hospital of Ha Noi |
| 30 | virror.hanoilug.org | Viet Nam mirror for FLOSS |
| 31 | vntt.com.vn | Viet Nam Technology & Telecommunication JSC |
| 32 | viettelidc.com.vn | Viettel IDC |
| 33 | www.vietnamhosts.com | Tinh Thong Corporation |

*Source: IPv6 Forum*

## 5.3. Cumulative numbers of IP addresses and ASNs

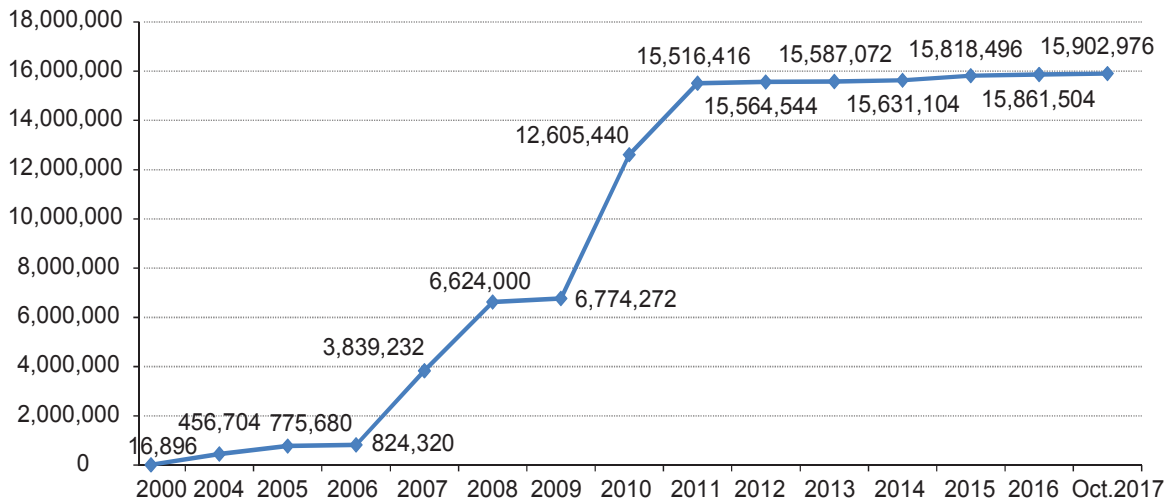


***Figure 23:*** *IPv4 growth over the year*

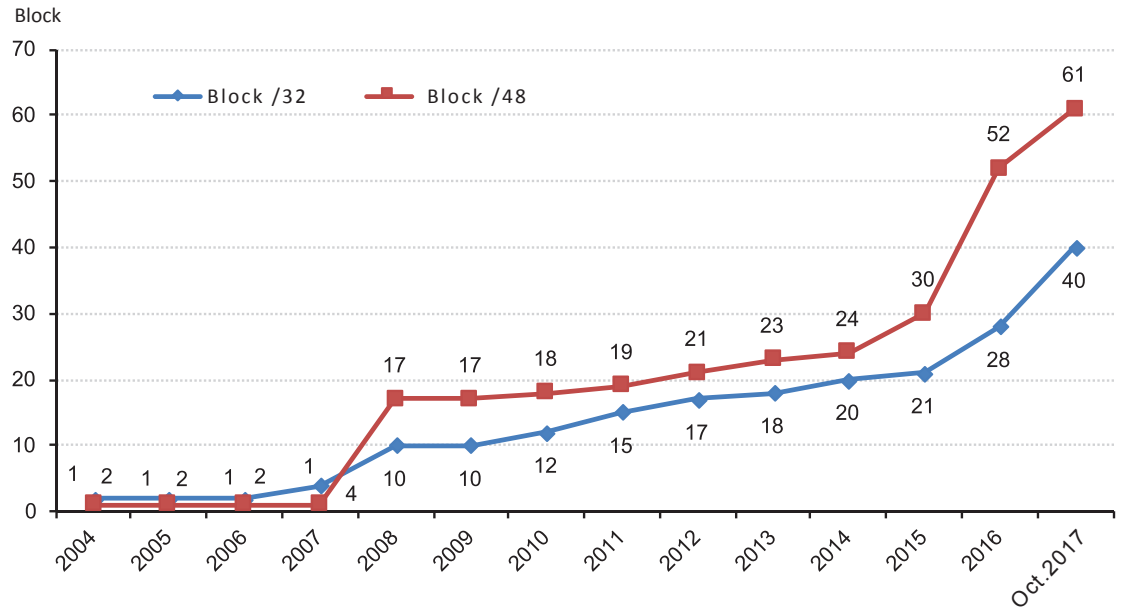


***Figure 24:*** *IPv6 growth over the years*

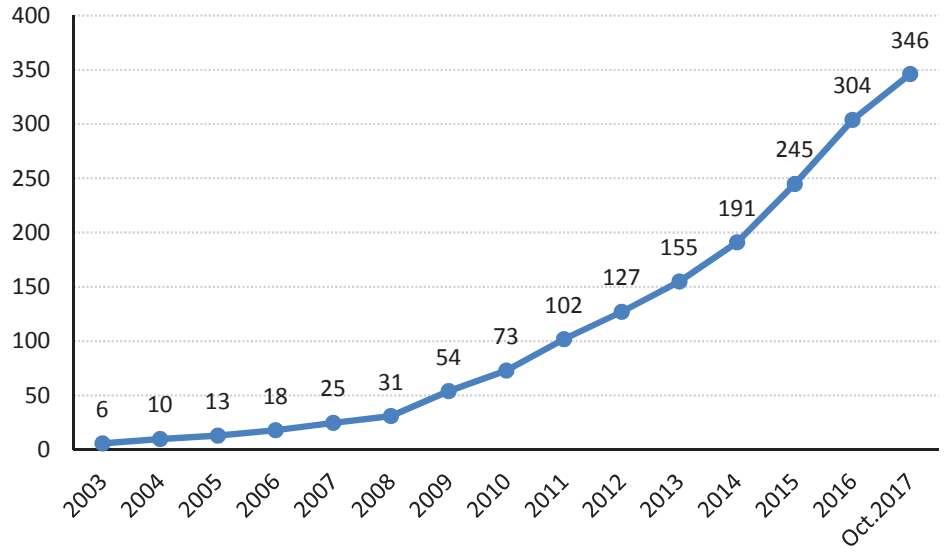


***Figure 25:*** *Cumulative IP members over the years*


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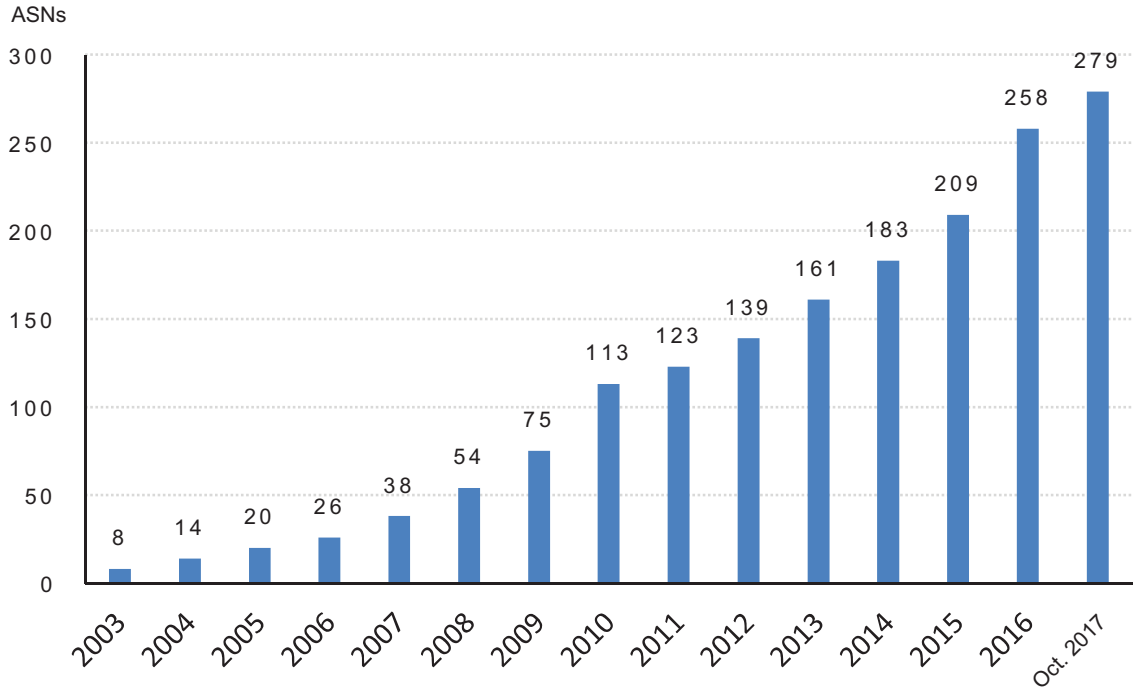


***Figure 26:*** *Cumulative ASNs over the years*

# VIET NAM NATIONAL INTERNET EXCHANGE – VNIX

Internet Exchange Point (IX) which is a physical infrastructure plays a crucial role for the development of Internet, allows different type of independent networks to interconnect using the IP and exchange Internet data traffic between independent networks (ASN).

Viet Nam National Internet eXchange (VNIX) was established in November, 2003 to develop, enhance and improve the quality and security of Internet in Viet Nam. The legal framework for the management of Internet connection and operation of VNIX was promulgated in the Decree No. 72/2013/ND-CP on July 15th, 2013, on the management, provision and use of Internet services and Internet Information. VNIX is operated according to BGP layer 2, supports IPv4/IPv6 dual stack with Router Server (RS) managing routing information exchange with participants' routers between which Internet traffic exchanges directly. Any information is updated on the Website https://vnnic.vn/vnix.

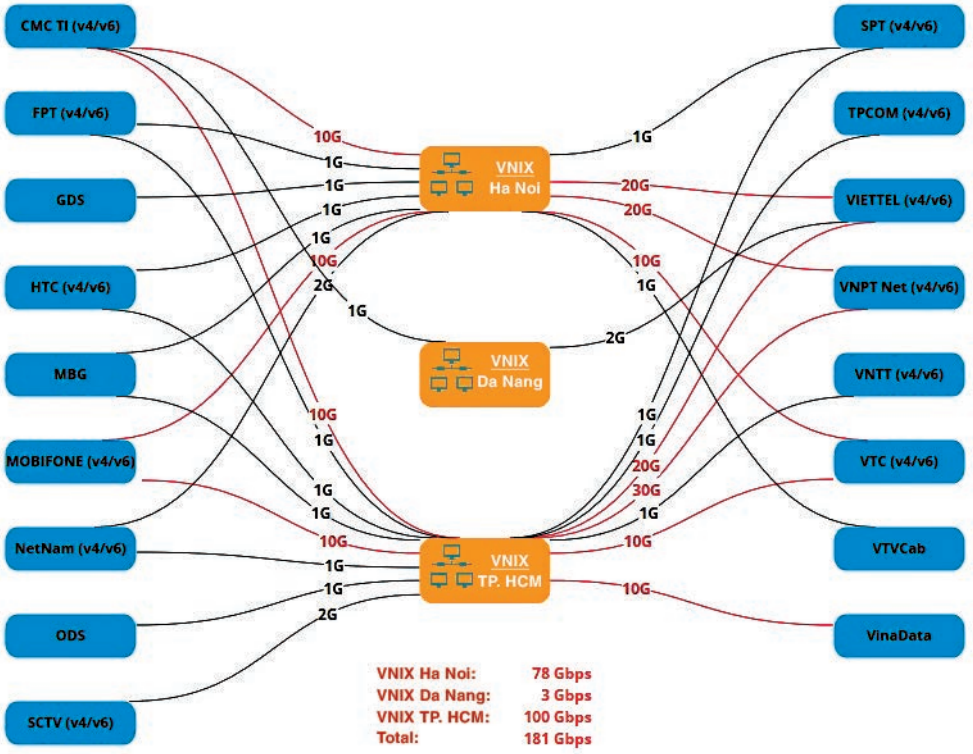


***Figure 27:*** *VNIX connection*

Throughout the development, VNIX has been contributing greatly to the growth of Internet in Viet Nam, via 3 regions: the North (Yen Hoa and Hoa Lac Hi-Tech Park in Ha Noi city), the Middle (An Don industrial zone in Da Nang city) and the South (Tan Thuan export processing zone in Ho Chi Minh city).

# 1. VNIX MEMBERS

Starting from 02 members (VNPT and Viettel) at the beginning in 2003, VNIX now has 17 members (including the major ISPs in Viet Nam) with connection bandwidth reaching 181Gbps.

**Table 11:** Members of VNIX

| No. | Member | VNIX Ha Noi | VNIX Ho Chi Minh | VNIX Da Nang |
|---|---|---|---|---|
| 1 | VNPT-NET | 20 Gbps | 30 Gbps | |
| 2 | VIETTEL | 20 Gbps | 20 Gbps | 02 Gbps |
| 3 | CMC TI | 10 Gbps | 10 Gbps | 01 Gbps |
| 4 | MOBIFONE | 10 Gbps | 10 Gbps | |
| 5 | VTC Intecom | 10 Gbps | 10 Gbps | |
| 6 | VinaData | | 10 Gbps | |
| 7 | NetNam | 02 Gbps | 01 Gbps | |
| 8 | GDS | 02 Gbps | | |
| 9 | SCTV | | 02 Gbps | |
| 10 | FPT TELECOM | 01 Gbps | 01 Gbps | |
| 11 | SPT | 01 Gbps | 01 Gbps | |
| 12 | HTC | 01 Gbps | 01 Gbps | |


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| No. | Member | VNIX Ha Noi | VNIX Ho Chi Minh | VNIX Da Nang |
|---|---|---|---|---|
| 13 | MOBIFONE Global | 01 Gbps | 01 Gbps | |
| 14 | ODS | | 01 Gbps | |
| 15 | VNTT | | 01 Gbps | |
| 16 | VTVCAB | 01 Gbps | | |
| 17 | TPCOM | | 01 Gbps | |

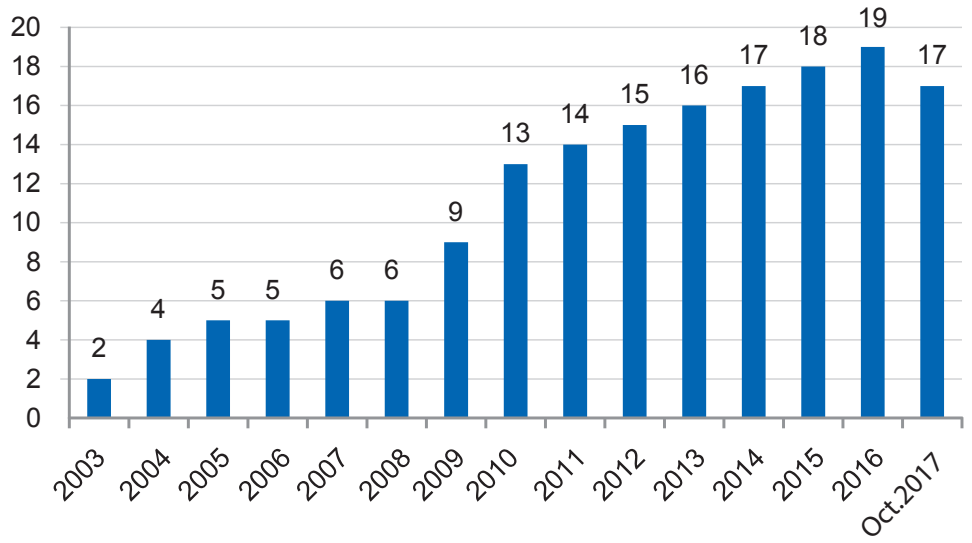


***Figure 28:*** *Number of VNIX members over the years*

# 2. CONNECTION BANDWIDTH

VNIX has played an important role in establishing the stable infrastructure for the national Internet and information systems, saving costs for ICT enterprises, .etc. VNIX connection bandwidth reached181Gbps, with many members having huge connection bandwidth such as VNPTNet (50G), VIETTEL (42G), CMCTI (21G), VTC and MBF (20G), in which VIETTEL and CMCTI connected to three VNIX points in Ha Noi city, Ho Chi Minh city and Da Nang city.

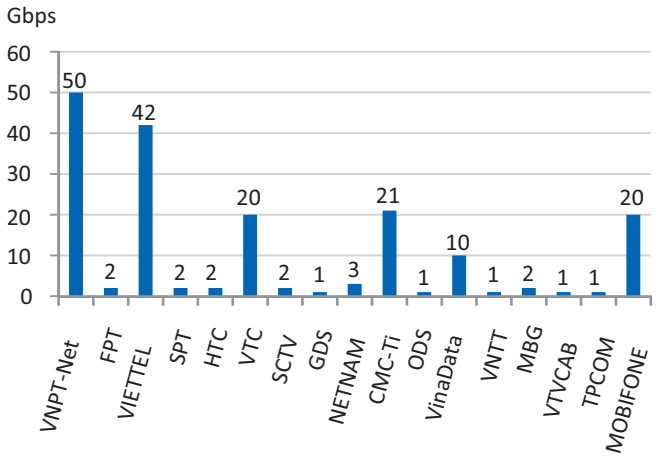


***Figure 29:*** *Bandwidth of VNIX members (Gbps)*

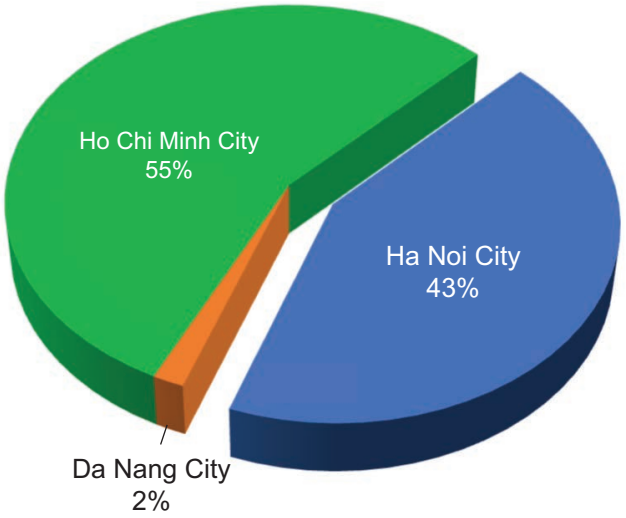


***Figure 30:*** *Percentage bandwidth by area*

In order to satisfy the demand of Internet development, as well as enhance availability, capacity, compatibility, safety and service quality, VNIX could support any SFP/SFP+ types of FC port up to 1G, 10G, 40G, 100G.


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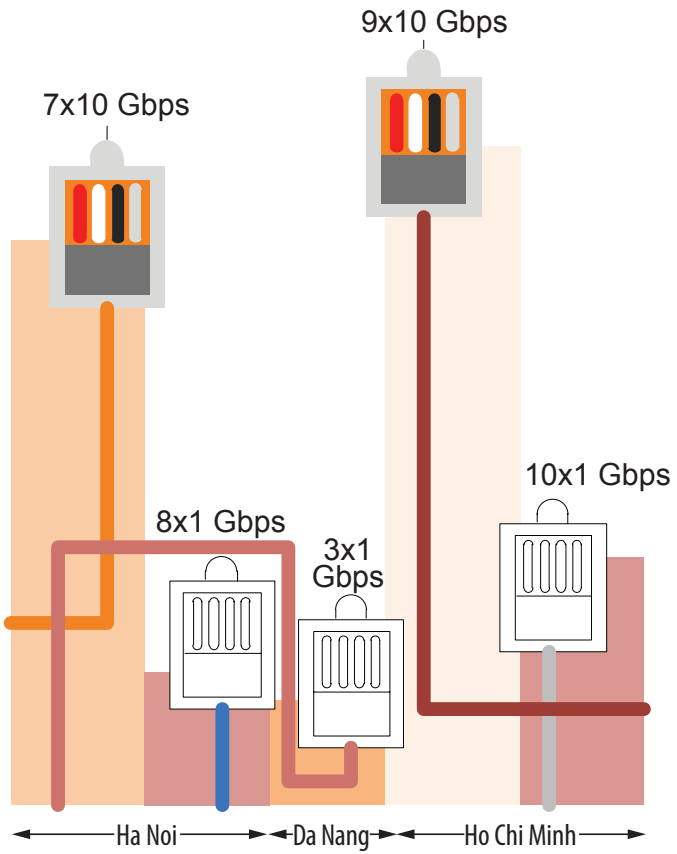


***Figure 31:*** *Number of ports of VNIX members*

# 3. TRAFFIC VIA VNIX

By October 31st 2017, VNIX members had exchanged 432,893,653 Gigabyte via the system. Within 10 months of 2017, the traffic via VNIX reached 54,374,087.35 Gigabyte with weekly average traffic reaching 1,359,352 Gigabyte.

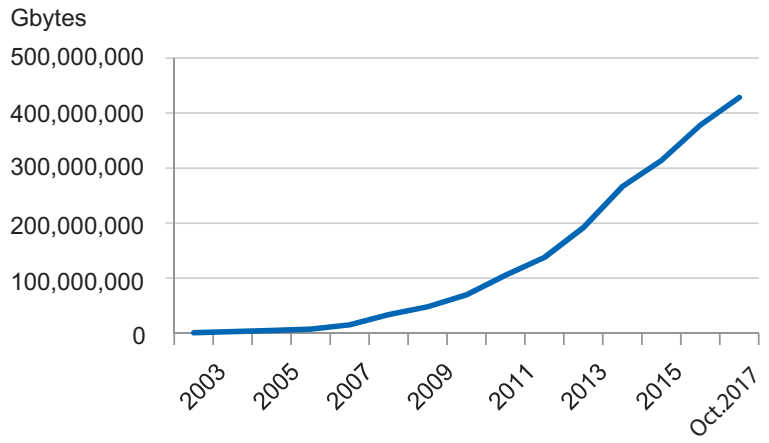


***Figure 32:*** *Cumulative Inbound traffic volume via VNIX (by October 2017)*

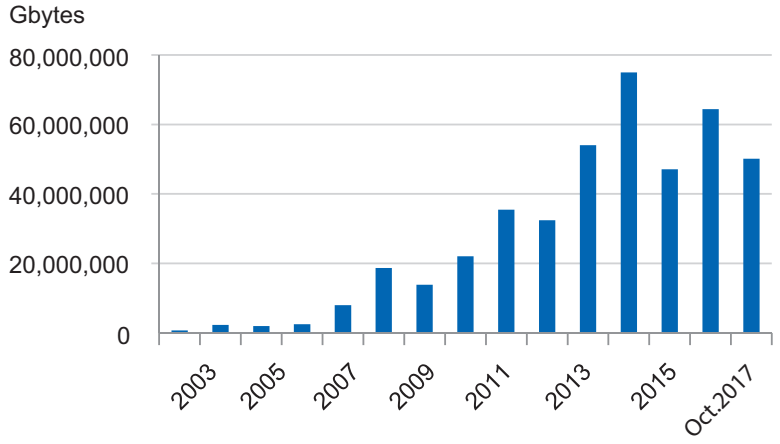


***Figure 33:*** *Annual Inbound traffic volume via VNIX (by October 2017)*


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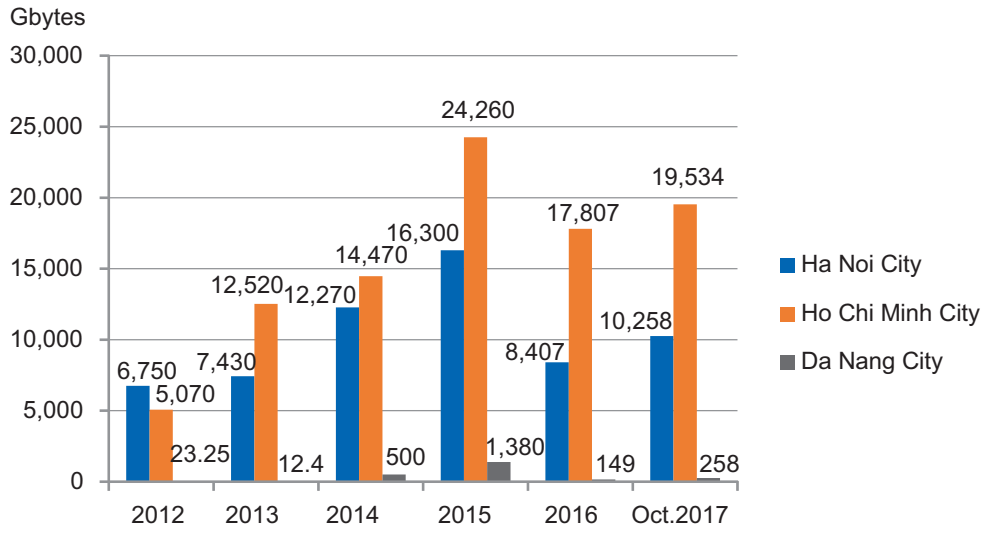


***Figure 34:*** *Max peak of traffic via VNIX (Gbytes)*

With four VNIX points in Ha Noi city (Yen Hoa, Hoa Lac), Da Nang city and Ho Chi Minh city, the highest traffic of all was in Ha Noi city with 65.23%, followed by Ho Chi Minh city (34.45%) and Da Nang city (0.32%).

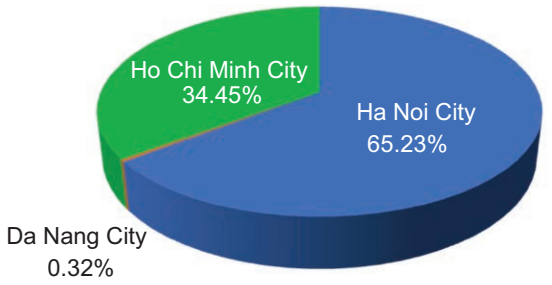


***Figure 35:*** *Percentage traffic via VNIX points (Updated to October 31st, 2017)*

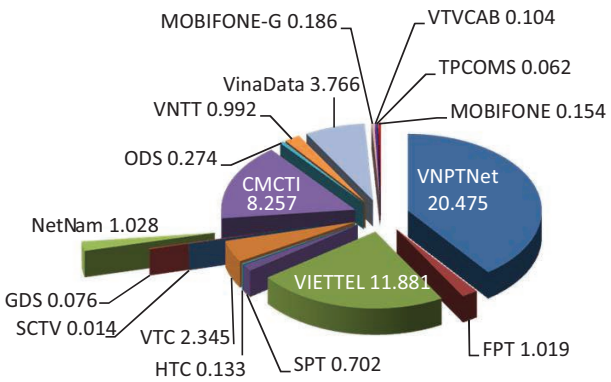


***Figure 36:*** *Inbound traffic of VNIX members in 2017 (PB)*

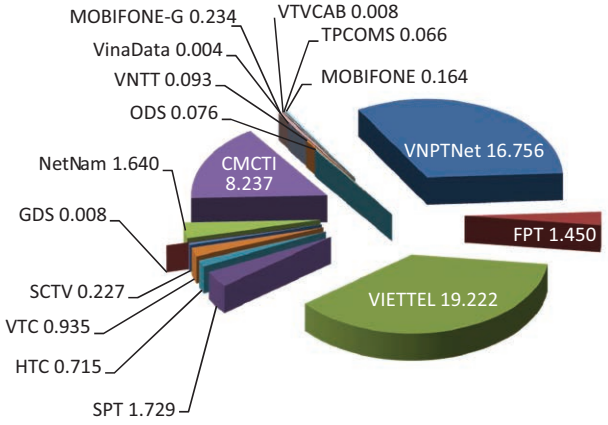


***Figure 37:*** *Outbound traffic of VNIX members in 2017 (PB)*

# 4. IPv4/IPv6 TRAFFIC VIA VNIX

Since April 2013, VNIX officially supported IPv6 service. Until now, there have been 12/17 members of VNIX to have IPv6 traffic (VNPT, Viettel, FPT, CMCTI, HTC, MBF, NetNam, SCTV, SPT, VTC, TPCOM, VNTT).


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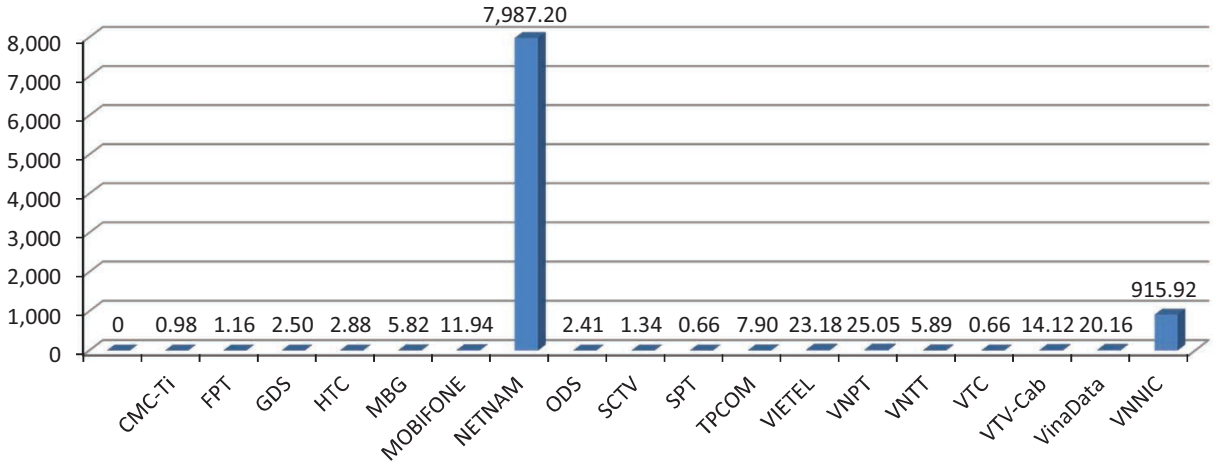


***Figure 38:*** *IPv6 IN traffic by VNIX members (Mbytes)*

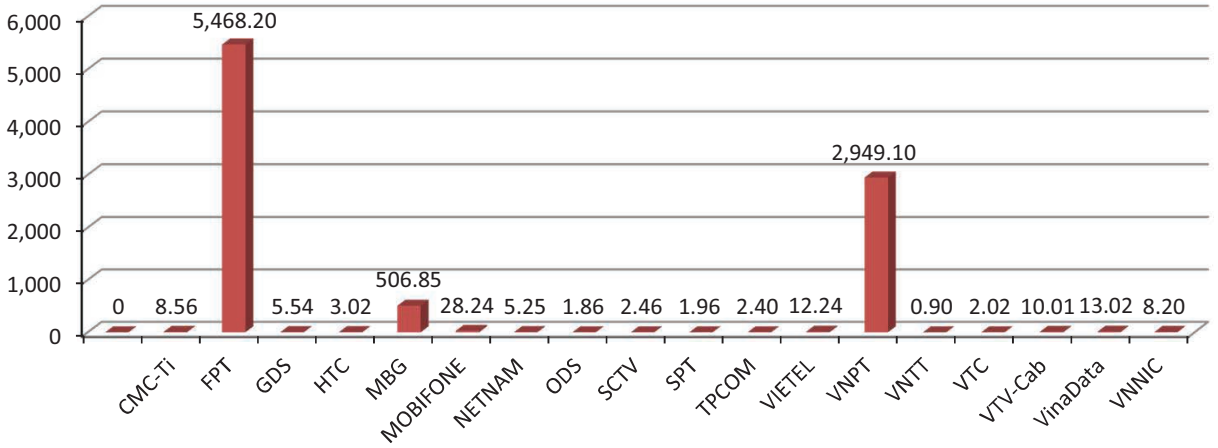


***Figure 39:*** *IPv6 OUT traffic by VNIX members(Mbytes)*

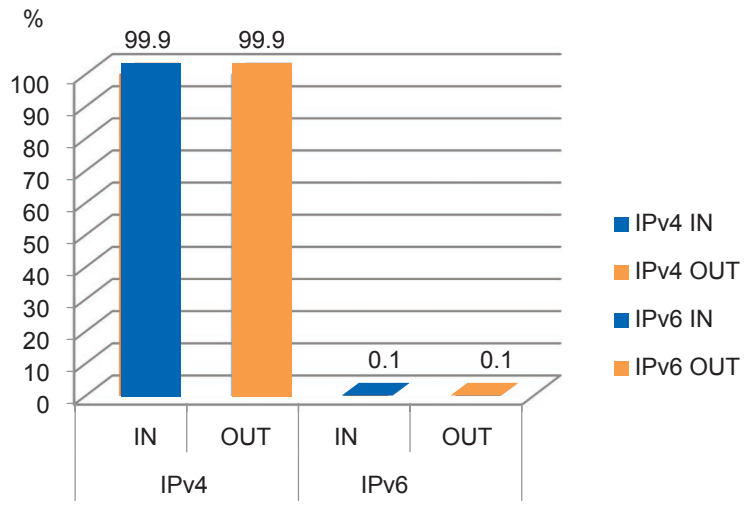


***Figure 40:*** *Percentage IPv4- IPv6 traffic via VNIX*

# 5. SERVICE TRAFFIC VIA VNIX

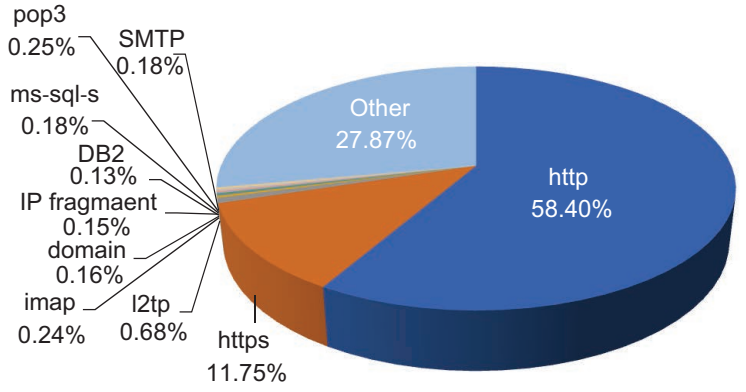


***Figure 41:*** *Percentage of 10 services with highest IN traffic via VNIX*


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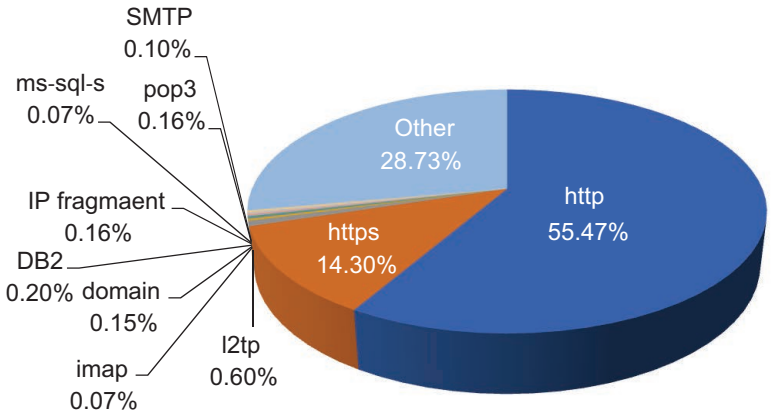


***Figure 42:*** *Percentage of 10 services with highest OUT traffic via VNIX*

# 6. IPv4/IPv6 PREFIX ADVERTISED VIA VNIX

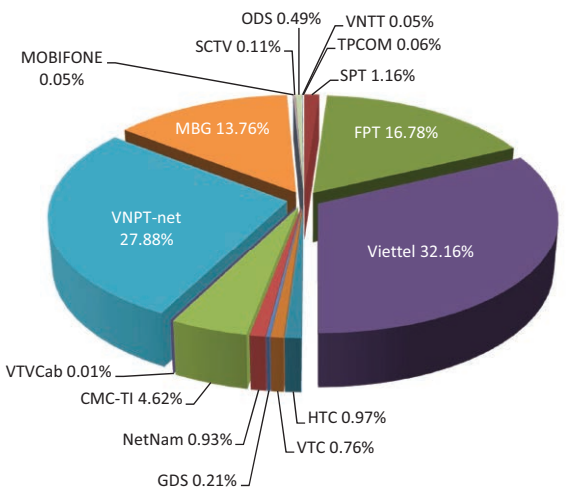


***Figure 43:*** *Percentage Prefix IPv4 advertised via VNIX*

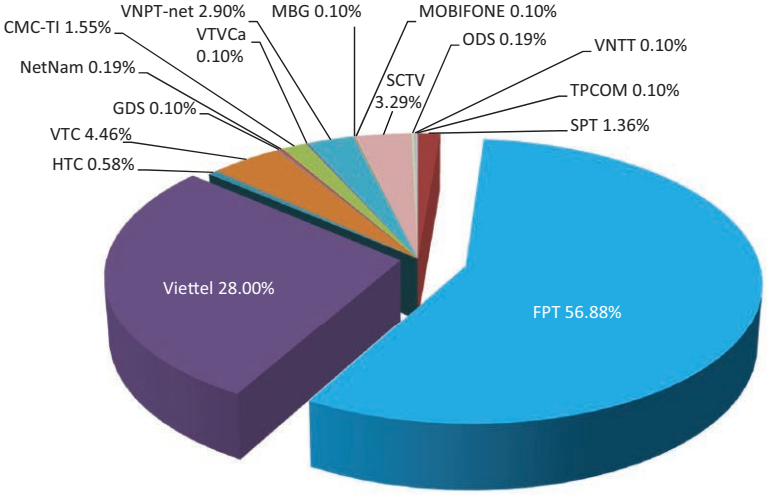


***Figure 44:*** *Percentage Prefix IPv6 advertised via VNIX*

# ABOUT VNNIC

# VNNIC - FUNCTIONS AND RESPONSIBILITIES

On April 28th, 2000, Viet Nam Internet Network Information Center (VNNIC) was established under the Department General of Posts and Telecommunications according to the Decision No. 372/QĐ-TCBD with the purposes of "strengthen the management of Internet in general, including systematic and planned modernization and specialization of the Internet resource management activity, promoting the fair use among enterprises and integration into the global and regional Internet, in accordance with international standards".

- All functions, tasks and power of VNNIC are currently stipulated by the Decision No. 1756/QD-BTTTT dated Oct 13st, 2017 by the Minister of Information and Communications, including:

- Allocating, assigning, suspending, revoking Internet addresses (IP) and Autonomous System Number (ASN) at national level; inspecting, supervising the allocation, registration, and use of IP, ASN by organizations and individuals;

- Managing the registration of use and suspension, revocation and withdrawal of ".vn" domain names and other domains assigned to Viet Nam by international Internet organizations via VNNIC.

- Establishing, managing and operating the national Domain Name System (DNS) servers, Viet Nam Internet Exchange (VNIX); participating in the implementation of technologies related to Internet resources and IP;

- Selecting and signing contract with ".vn" domain name Registrar; promoting the registration and use of ".vn";

- Receiving reports, managing domain information and monitoring activities of providing registration, renewal service and use of domain names assigned to Viet Nam;

- Collecting, managing and using the fees of registration and use of Internet resources in accordance of regulations;

- Training and improving the professional knowledge on internet resources under the assignment of the Minster of MIC;

- Executing the international cooperation in the backup operation of ".vn" domain system; registering and managing Viet Nam's Internet resources with international institutions; promoting the Internet in Viet Nam;

- Collaborating with authorities in the execution and inspection of orders by MIC towards the international domain name Registrars in Viet Nam, ISP, in order to prevent the distribution of international domain names with Vietnamese law infringing Websites;

- Securing the protection of the national DNS, VNIX;

- Providing related services to Internet resources, IT and participating in appropriate activities.

# VNNIC IN 2017

From February 27th to March 2nd, 2017, the Asia Pacific Regional Conference on Operational Technologies - APRICOT) was hosted for the first time in Ho Chi Minh city, Viet Nam, under the support of the Ministry of Information and Communications (MIC), with the collaboration of VNNIC, Asia Pacific Internet Association (APIA), Asia Pacific Network Information Center (APNIC), the Viet Nam Internet Association (VIA) and NetNam Corporation. The conference attracted more than 600 attendees while more than 140 attendees for the workshops, far exceeding the expectation as well as the number of previous event.

*APRICOT 2017*


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**March 1st, 2017,** VNNIC hosted for the first time the APTLD 71 meeting with more than 100 participants from 25 members and 10 international and regional Internet organizations.

*APTLD 71*

**May 3rd, 2017,** VNNIC, in cooperation with ICANN, hosted the media brief on IDN trend and development, to promote the growth of IDN against the barrier of languages.

*Media Briefing on IDNs and future of Internet*


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**May 5th, 2017,** on the occasion of the National IPv6 Day 2017, The IPv6 Task Force hosted the conference "IPv6 and Internet of Things" to deeply analyze the important role and vital relationship between IPv6 and Internet of Things, together with sharing experience among enterprises, and organizations about IPv6 deployment.

*National IPv6 Day 2017 – "IPv6 and Internet of Things"*

**From May to June 2017,** VNNIC, under the assignment of the Ministry of Information and Communications, hosted several training workshops and conferences on the topic of law and regulations on international domain names in VietNam. The participants had the chance to discuss the enforcement of legal document stipulated by the Ministry to ensure the lawful business, as well as support the rights of the registrants of those domains.

*"Law and regulations on international domain names in Viet Nam" workshop held on May 26th, 2017 in Ha Noi city*

*"Law and regulations on international domain names in Viet Nam" workshop held on June 9th 2017 in Ho Chi Minh city*


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**From May to September 2017:** VNNIC hosted the training workshop series to improve the capacity of the staff at ".vn" Registrars, especially on the topic of domain fee band and domain transfer change in 2017. Also, VNNIC would like to collaborate with the Registrars to promote ".vn" domain services.

*".vn" domain name CEO Registrars Conference on May 11st, 2017*

*Workshop on ".vn" domain name transfer on May 25th, 2017*

*VNNIC cooperates with Nhan Hoa Registrar to provide professional training for domain name system ".vn" (June 6th, 2017)*

*VNNIC cooperates with Mat Bao Registrar (September 19th, 2017) and P.A Viet Nam Registrar (September 23rd, 2017) open workshop "Improve knowledge and professionalism ".vn" domain"*


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*VNNIC open workshop "Improve knowledge and professionalism ".vn" domain for Registrars in Ho Chi Minh city (September 18th-21st, 2017)*

**From July to August 2017:** The national IPv6TF of which VNNIC acts as the standing committee pushed the activities of hosting IPv6 training workshops for the Party, Goverment entities, in order to execute the implementation plan for those bodies, with the main target of E-Government and online public services

*Workshop on "IPv6 Deployment for the Party, Goverment entities" in Da Nang city (July 12th-14th) and in Ho Chi Minh city (August 21st-23rd)*

*VNNIC togherther with Department of Central posts and Telecommunications held workshop on "IPv6 Deployment for the Party, Goverment entities" in Ha Noi city (July 26th-27th)"*


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**August 24th, 2017:** VNNIC hosted the 2017 annual meeting of IP members to deliver the new policies and regulatios on the management of IP/ASN, promotion of IPv6 deployment and improvement of effective IP/ASN usage.

*VNNIC's IP member annual meeting 2017*

**August 25th, 2017:** After the success of 2016 VNIX-NOG meeting, VNNIC continued to host the VNIX-NOG conference in HCMC with the participation of about 100 attendees from VIA, Local ISPs, APNIC, ISOC, JANOC, Google etc. The meeting was based on the idea of a Network Operators Group (NOG) forum where engineers, technical officers could share information, knowledge, and experience within the IT and network area.

*VNIX- NOG Conference 2017*


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**From 19th to 22nd September, 2017:** VNNIC, in collaboration with LANIC under the agreement between the Ministry of Information and Communications (Viet Nam) and the Ministry of Post and Telecommunications (Laos), conducted the IPv6 training workshop for engineers of major ISPs, government authorities in the IT sector of Laos. On this occasion also, VNNIC and LANIC had the bilateral meeting on the Internet resource management field, focusing on IPv6 experience, DNSSEC, domain names, and VNIX of VietNam. The training workshop really strengthened the relationship between VNNIC and LANIC, as well as the two Ministries in general.

*IPv6 training workshop for Laotian engineers and staffs in Vientiane in September 2017*