



2017 TWNIC Annual Report

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董事長的話

苟日新，日日新，又日新

台灣網路資訊中心為我國國家級網路資訊中心(National Network Information Center)，它的主要目標在為台灣網際網路使用者與相關產業提供一個安全且高效率的網路環境。面對日新月異的網路科技進步以及瞬息萬變的挑戰與威脅，維持現狀不會是一個合理的選項，必須不斷地因應與進步。「苟日新，日日新，又日新」正是台灣網路資訊中心必須要有的自我要求。

大量手機上網用戶以及更大量的物聯網（IoT）設備使得網際網路通訊協定升級至 IPv6 需求日亟，可以預見 IPv6 的使用將會從極少數快速增加到很明顯的比例。對於目前還佔絕大多數的 IPv4 使用者來說，轉換成 IPv6 的技術障礙雖然不高，但卻一直缺乏推動改變的誘因。除了努力宣傳 IPv4 與 IPv6 混用可能造成的安全與效率問題，更重要的是必須創造出有效的推動誘因或鞭策力量。



台灣網路資訊中心
董事長 卓政宏

隨著物聯網逐漸成為國內外網路發展的主要趨勢之一，大量連網設備的資料上傳將會形成網路流動方向的改變；大數據 (Big Data) 的多元應用也將造成更大量的數據流動。由於這些網路資料流動型態與規模的改變，網路效能的提升勢必成為重要的挑戰。

近年來，網路安全的威脅日益嚴重，除了現有的攻擊方式，更必然會結合前述的各種發展趨勢來進行技術上的演化。面對這些不斷進化的網路安全威脅，很難有單一技術或是方法可以來防範，必須建立一套能隨著威脅的演變而成長的運作機制。

面對所有的這些重要議題，我們都需要多方利害關係人的共同努力。台灣網路資訊中心除了現有的『網域名稱委員會』、『IP位址及網路協定委員會』、『國際事務委員會』及『網路安全委員會』必須更加扮演好溝通平台的角色，還應以開放的態度去吸納更多的參與。

「苟日新，日日新，又日新」不只是台灣網路資訊中心應有的自我期許，也是所有人在面對網路世界應有的態度。

財團法人台灣網路資訊中心 董事長



Words from the Chairman

Renovate Today, Renovate Daily, and There Will Be Daily Renovation

As a national network information center in Taiwan, the Taiwan Network Information Center (TWNIC) dedicates itself to ensuring a secure and efficient Internet environment for domestic Internet users and industries. As Internet technology evolves, the TWNIC must strive for continuous improvement to address challenges and problems related to technological development.

The growing usage of mobile Internet and the rising number of Internet-of-Things (IoT) devices has increased the demand for updating existing Internet protocols (IPs) to version 6. It is foreseeable that the use of IPv6 will increase rapidly from a very small degree to a noticeable increase in depth of penetration. For most IPv4 users, the switch to IPv6 entails minimal technical difficulties; however, a lack of incentive precludes this change. In addition to efforts to promote the issues of security and efficiency that may arise from the IPv4 and IPv6 dual stack, it is even more important to create effective incentives or driving forces.

As IoT has increasingly become one of the major trends of the Internet development in Taiwan and overseas, considerable data uploading activities among network facilities that will change the direction of data flow on the Internet. The diverse range of application of big data and blockchain will likely enhance data flow. Because data flow is expected to change in terms of pattern and scale, it becomes an important challenge that the network performance must be elevated in response to this impending trend.

Threats to Internet security have increased in recent years, and while prevailing in their existing form, such threats will likely evolve technically as a result of the aforementioned Internet developments. Handling ever-evolving Internet security threats requires not a single technique or approach but rather a set of mechanisms that improves alongside such threats.

Facing the aforementioned issues the Taiwan's Internet communities all needs to collaborate with the joint efforts via the model of multistakeholders. Currently, the TWNIC has organized the four committees including Domain Name Committee, Internet Protocol Committee, International Affairs Committee, and Network Security Committee; furthermore, we must strive to improve and perform a communication platform with an open mind to encourage participation from the Internet communities in Taiwan.

Most crucially, continued improvement should be sought not only by the TWNIC but also by every individual in the virtual world of the Internet.

Chairman of Board, Taiwan Network Information Center



執行長的話

數位轉換的挑戰與契機

網際網路過去幾年發展並不平靜，網路安全衝擊不同產業領域、假新聞充斥社群媒體、網路巨擘壟斷市場、網路中立加劇不同倡議者主張。科技擁護者期待新科技帶動新生活型態，人權工作者憂慮新科技分化社會損害社會整體福祉。

網域名稱與IP位址是網際網路運作的核心機制，網域名稱註冊與IP位址管理正是台灣網路資訊中心TWNIC核心業務。近年來，我國國家頂級網域名稱.tw 註冊量逐年降低、IPv4位址發放數量停止成長、亞太區IPv4位址最後區塊近乎枯竭。導入IPv6為急迫且勢在必行的推動方向，但我國 IPv6位址普及率至2018年一月僅達 0.5%。台灣歷經多年網路快速成長，數位資源建構之數位環境已達飽和程度，使得數位資源使用數量停滯不前。

數位環境發展前景看似不樂觀，數位環境面臨困境時往往創造出新的發展。以網域名稱安全為例，傳統DNS簡化的設計產生網域名稱安全問題，網路標準機構IETF規範DNSSEC技術，由網域名稱註冊管理局與註冊商提供DNSSEC服務，改善傳統 DNS 域名安全。網路路由安全事件一直層出不窮、IETF與RIR (Regional Internet Registry) 合作推動RPKI (Resource Public Key Infrastructure)技術，由RIR或NIR (National Internet Registry)提供RPKI路由憑證服務。網路骨幹路由設備多已支援RPKI技術，RIR營運模式與政策機制也一直獲得絕大多數網路服務營運商ISP支持與肯定，全球RPKI普及率穩定成長。近年來許多商業憑證授權中心CA(Certificate Authority)發生資安漏洞影響網站安全，IETF規劃設計DANE (DNS-based Authentication of Name Entities)憑證技術，DANE捨棄集中式憑證授權中心模式，由頂級網域名稱註冊管理局與註冊商提供DANE公共憑證服務。這些發展趨勢可以發現，網際網路除了技術發展外，多方利害關係人模式的網路治理機構在數位轉換過程擔任重要的角色，並在未來數位環境執掌關鍵功能與任務。

TWNIC作為全球網路治理機構的一份子，我們依循多方利害關係人模式審慎處理未來可能面臨的議題與挑戰，保持開放態度與國內外社群合作及努力。網際網路正處在數位轉換的分岔路，前方道路看似崎嶇難行，科技發展進程與治理模式軌跡使我們對網路前景懷抱信心。相信在蜿蜒曲折的途徑上，將是發展創新的最佳契機。



台灣網路資訊中心
董事兼執行長 黃勝雄

財團法人台灣網路資訊中心 董事執行長

黃勝雄



Words from the CEO

Challenges and Opportunities in Digital Transformation

Dynamic is the character in recent Internet developments, with network security concerns haunting industries, so-called “fake news” pervading social media, Internet giants becoming monopolistic, and the growing tide of net neutrality widening differences of opinion. Technology proponents expect new technologies to reshape existing lifestyles; however, human rights workers are concerned that new technologies encourage social differentiation to the detriment of overall public welfare.

Considering that domain names and IP addresses are vital cores in Internet operation, the TWNIC focuses on domain name registration and IP address management as its core services. As registration of “.tw” country code top-level domain names decreases annually, the number of IPv4 addresses stagnates and IPv4 address exhaustion is the depletion of the pool of unallocated IPv4 addresses in the Asia-Pacific region. Therefore, the time to introduce and promote IPv6 has arrived. However, the penetration of IPv6 addresses in Taiwan was a mere 0.5% as of January 2018 because several years of rapid Internet growth had saturated the domestic digital industry, causing the usage of digital resources to stagnate.

Despite its bleak outlook, Taiwan’s digital industry continues to develop, exemplifying the phenomenon that new developments are often made at times of difficulty. For example, traditional domain name systems are prone to domain name security problems because of their simplified design; to address this problem, domain name registries and registrars provide Domain Name System Security Extensions (DNSSEC)—a suite of specifications developed by the Internet Engineering Task Force (IETF). As Internet and routing security problems continue to prevail, the IETF and regional Internet registries (RIRs) developed the Resource Public Key Infrastructure (RPKI); RIRs and national Internet registries are tasked with RPKI routing certification. Most Internet backbone routers support the RPKI, and the operational models and policy mechanisms of RIRs have earned considerable positive feedback and support from Internet service providers. Therefore, global penetration of the RPKI is increasing steadily. Equally crucially, the IETF is developing a system called the DNS-Based Authentication of Named Entities (DANE) to resolve website security vulnerabilities that have plagued numerous commercial certification authorities in recent years. The DANE is provided as a public service by top-level domain name registries and registrars rather than being delivered by certification authorities in a centralized manner. The aforementioned developments all suggest that Internet technologies continue to evolve. The model of multistakeholder in Internet governance plays a vital role in digital transformation and can perform crucial functions and tasks in the digital industry.

As one of global Internet governance entities, the TWNIC adopts a multistakeholder approach to address Internet issues and challenges. The Internet is undergoing a digital transformation and has a circuitous road ahead. However, in light of technological progress and the process of Internet governance, we believe that the Internet will garner opportunities for innovation while journeying on this difficult road.

CEO, Taiwan Network Information Center

Kenny Huang



域名註冊服務

因應個人資料保護法施行，TWNIC 執行相關業務依法應遵守個資相關規範，106 年 5 月完成個資保護相關管理制度標準 BS 10012 (PIMS 個人資訊管理系統) 稽核，正式通過取得國際標準之驗證。通過 BS 10012 國際認證後，TWNIC 已取得 ISO 27001、ISO 9001 及 BS 10012 三項國際標準，成為全球第一家同時擁有資訊安全管理系統 (ISMS)、品質管理系統 (QMS) 及個人資訊管理系統 (PIMS) 多元化整合管理系統之國家級網路資訊中心 (NIC)。

因應 Google 及微軟等國際電子信箱服務業相繼宣布支援 EAI 國際標準，辦理中文化電子郵件體驗活動，推廣中文化的網域名稱以及中文化電子郵件地址的搭配使用，促成中文域名之成長。面對網路急速發展，網路應用也不斷創新與進化，TWNIC 辦理多場次講座活動及實作課程，分享電子商務、社群經營、網路行銷、互動網站發展等議題，並邀請網路創業故事競賽得獎之 .tw 註冊人以素人代言方式分享創業故事分享 .tw 域名及網路應用，並開辦各式課程『網域名稱入門實機課程 - 專屬網站架設實務』針對一般使用者 (非技術人員) 的網站架設實務課程，透過實際註冊網域名稱與設定 DNS、使用免費架站資源等課程，體驗架設專屬的網站。

為提升 .tw/ 台灣域名認知度並與強化社群緊密連結，106 年度辦理「網路創業故事徵選」、「新人王網站設計大賽」、「啟動視覺飆創意 .tw/ 台灣形象廣宣品設計競賽」等競賽、「TWNIC 域名飄、愛心揚 根留台灣」慈善活動及粉絲團經營，除強化 .tw/ 台灣域名形象，並結合社群媒體，擴大宣傳效果。

TWNIC 於 90 年制訂「財團法人台灣網路資訊中心網域名稱爭議處理辦法暨實施要點 (TWDRP)」，為一快速、有效的訴訟外紛爭解決機制。106 年度經網域名稱爭議處理機制執行之案件共計 10 件 (10 筆網域名稱)，分別為 6 件 (6 筆網域名稱) 資策會科技法律研究所受理，4 件 (4 筆網域名稱) 台北律師公會受理。其專家小組決定結果為 9 件移轉 (9 筆網域名稱)；1 件駁回 (1 筆網域名稱)。



▲ .tw/台灣受理註冊機構列表 / TWNIC- Accredited Registrars



Domain Name Registration Service

The Taiwan Network Information Center (TWNIC) currently conducts businesses in compliance with the Personal Information Protection Act. In May 2017, the TWNIC Personal Information Management System (PIMS) passed BS 10012, an internationally recognized standard for data protection. The TWNIC has obtained not only BS 10012 but also ISO 27001 and ISO 9001 certifications, making it the world's first national Network Information Center (NIC) equipped with systems of information security management, quality management, and personal information management.

In response to the implementation of the Personal Data Protection Act, TWNIC's related businesses are legally required to comply with related regulations in accordance with laws and regulations. TWNIC has been audited successfully by BSI and certificated with BS 10012 (PIMS Personal Information Management System) . In addition, TWNIC has held three international standards of certifications including ISO 27001, ISO 9001 and BS 10012, becoming the first NIC in the world to be certificated with Information System Management System (ISMS), Quality Management System (QMS) and Personal Information Management System (PIMS).

After Google and Microsoft implemented Email Address Internationalization (EAI), the TWNIC followed suit by launching a trial campaign for Chinese EAI to encourage the combined use of Chinese domain names and Chinese EAI and foster the growth of domain names. In 2017, TWNIC hosted seminars and workshops on e-commerce, online community management, online marketing, and interactive website development, and invited .tw domain name registrants who had won TWNIC Internet Entrepreneur Storytelling Competition to share their experiences on establishing businesses online and using .tw domain names. In addition, TWNIC ran various laymen's courses to instruct nonspecialists about how to register domain names, configure the settings for the domain name system (DNS), use free website-building resources, and build their own websites.

To promote public awareness of .tw/.台灣 domain names, in 2017, TWNIC hosted various competitions such as the Internet Entrepreneur Storytelling Competition, Innovative Webpage Design Competition, and Visual Innovation Competition. In addition, TWNIC has implemented a charity campaign to improve computer literacy among children in under-resourced regions and teach them how to build websites, and has created and managed a Facebook fan page and harnessed social media to further its promotion of .tw domain names.

In 2001, the TWNIC formulated the TWNIC Domain Name Dispute Resolution Policy for resolving disputes quickly and effectively. In 2017, 10 dispute cases (10 domain names) were processed using this resolution mechanism. Of these, 6 dispute cases (6 domain names) were initiated by the Science and Technology Law Institute of the Institute of Information Industry, and 4 dispute cases (4 domain names) were initiated by the Taipei Bar Association. By the end of 2017, the panel decisions transferred 9 of the domain names, and 1 domain name dismissed.



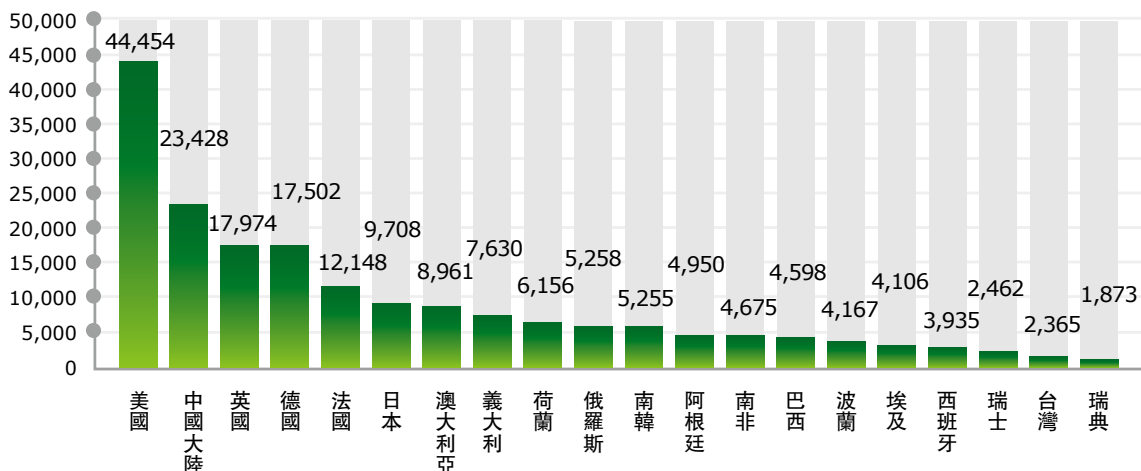
網址發放服務

全球面臨 IPv4 位址發罄，國際上為了因應 IPv4 位址短缺狀況，各界積極推動發展 IPv6，國際主要的服務網站如 Google、Facebook、Yahoo! 等已提供永久性的商用 IPv6 服務，世界各國也已積極推動 IPv6 網路的佈建。依據 Google 的連線統計，透過 IPv6 連線其搜尋網頁的使用者比例自 102 年 1 月至 106 年 12 月由 1.07% 快速上升至 22%，成長幅度超過 22 倍，各國 ISP 也已陸續展開 IPv6 部署作業，部份國家之 IPv6 用戶比例已超過 50%。

網際網路已成為生活上不可或缺的一環，從早期的電腦使用，已演變到無所不在，物物都需要有 IP 的物聯網的重要基礎設施。在 106 年底台灣 IPv6 位址數量為 2,365 個 /32(2 的 96 次方個)，為全球第 19 大國家，IPv4 位址數量為 35,523,072 個，為全球第 15 大國家。

為因應 IPv4 位址發罄，IPv6 已是全球趨勢，行政院於 100 年宣示「2011 年啟動網路升級」，希望國內由政府率先帶動網路升級，政策性推動 IPv6 產業的發展，帶動民營業界發展動能。依據「網際網路通訊協定升級推動方案」，106 年順利推動 100 個政府單位完成 IPv6 內部網路升級並繳交報告書，並協助推動中華電信完成 6,181 處 iTaiwan 熱點升級 IPv6。

在推動 ISP 升級 IPv6 方面，106 年與中華電信、遠傳電信和台灣大哥大三家 4G 行動業者合作，推動 4G IPv6 試用專案，分別於 7 月 1 日、10 月 18 日及 11 月 30 日共開放三波試用申請，共 1,546 個門號參與 ISP 4G IPv6 試用專案，預期 107 年 ISP 4G IPv6 商用服務開通後，將帶動台灣 IPv6 的蓬勃發展。



▲全球IPv6累計核發統計圖(單位：/32) / Global IPv6 Allocations ((Unit: /32))

IP Address Allocation Service

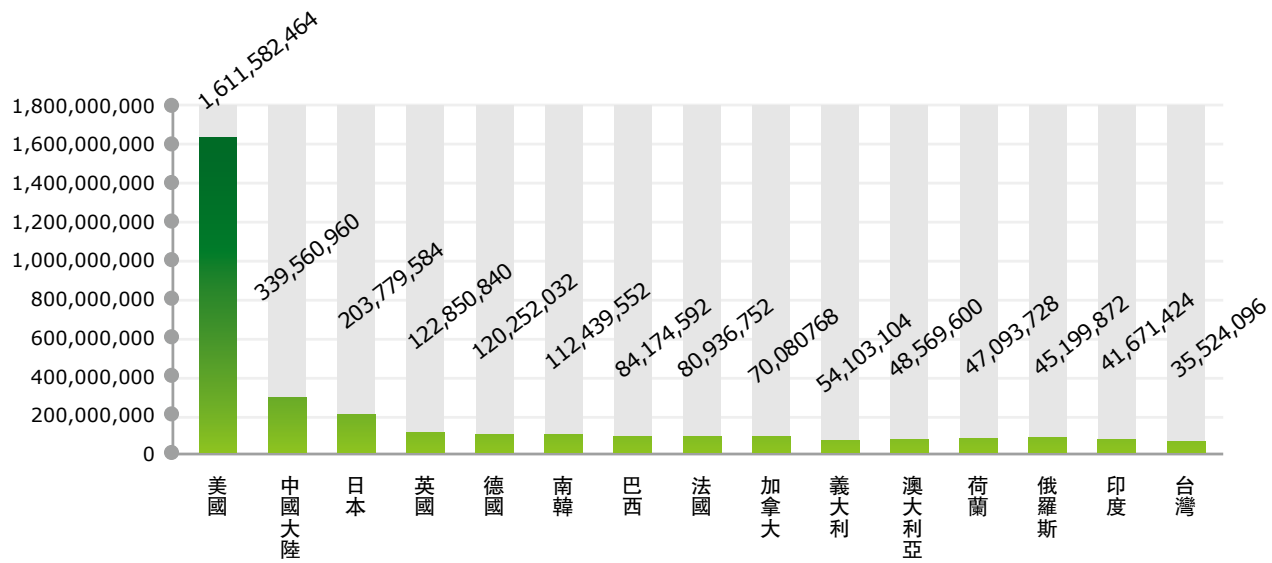
The global shortage of Internet Protocol version 4 (IPv4) addresses has prompted global efforts to develop Internet Protocol version 6 (IPv6). Globally recognized service websites such as Google, Facebook, and Yahoo! provide permanent commercial IPv6 services; IPv6 is being deployed and built worldwide. Google’s statistics regarding IPv6 adoption online suggest that the percentage of users who access Google over IPv6 rose from 1.07% in January 2013 to 22% in December 2017. Internet service providers (ISPs) worldwide have begun IPv6 deployment; in some countries, the proportion of IPv6 users exceeded 50%.

The Internet has become an indispensable separable part of daily life for many people. Since the age of early computers, the Internet has gradually become attained an omni presentce; and today, nearly all current devices everything requires the IoT facilities of the IoT and with IPs. In 2017, Taiwan was the 19th largest IPv6 country in the world, with exhibiting 2,365/32 (2⁹⁶) IPv6 addresses, and the 15th largest IPv4 country in the world, with exhibiting 35,523,072 IPv4 addresses.

After considering the IPv4 address exhaustion and dominant trends in the use of IPv6, the Executive Yuan of Taiwan proposed the Internet Protocol Upgrade and Promotion Program to implement the Internet upgrade policy in 2011 to strategically promote the deployment of IPv6 through the implementation of related policies, thereby driving relevant development by private businesses.

By implementing the Internet Protocol Upgrade and Promotion Program in 2017, the TWNIC upgraded the internal networks of 100 government organizations to IPv6 and submitted a report on the upgrading project. In addition, throughout the year, it upgraded 6,181 of Chunghwa Telecom’s iTaiwan Wi-Fi hotpots to IPv6.

In 2017, the TWNIC worked with three local operators of the fourth-generation (4G) mobile communications network—Chunghwa Telecom, FarEasTone Telecommunications, and Taiwan Mobile—to launch three “4G IPv6” trial campaigns on July 1, October 18, and November 30, respectively. The campaigns enrolled a combined 1,546 subscribers. The upcoming launch of commercial 4G IPv6 services in 2018 is expected to foster the development of the IPv6 network in Taiwan.



▲全球IPv4累計核發統計圖(單位：個) / Global IPv4 Allocations (Unit: address)

國際參與

APNIC 44 台中會議

亞太地區重要國際組織亞太網路資訊中心 (Asia Pacific Network Information Centre, APNIC)、財團法人台灣網路資訊中心 (Taiwan Network Information Center, TWNIC) 及台中市政府於 106 年 9 月 12 至 14 日共同合作舉辦「APNIC 44 台中會議」吸引來自超過 43 個經濟體、383 餘人參與這場國際盛會。討論議題皆為國際網路重要議題及未來發展趨勢，涵括如網路安全、下一代網路通訊協定 IPv6。

開幕典禮由交通部長賀陳旦、TWNIC 董事長林榮松、台中市長林佳龍、APNIC Executive Council Chair

Gaurab Raj Upadhaya 以及 APNIC Director General Paul Wilson 到場致詞。開幕專講邀請網路設備廠商思科 (Cisco Systems) 資深副總裁 Anand Oswal、APNIC 首席科學家 Geoff Huston 探討有關 IPv6 以及 DNS 相關重要議題。



▲ (由左至右) 為 APNIC Deputy Director General Sanjaya、台灣網路資訊中心副執行長呂愛琴、APNIC Director General Paul Wilson、APNIC Executive Council Chair Gaurab Raj Upadhaya、交通部長賀陳旦、台中市長林佳龍、台灣網路資訊中心董事長林榮松、台中市政府經濟發展局長呂耀志及台中市政府市府顧問蕭景燈。

三天 APNIC 議程包括多場有關網路當前重要技術討論，開放政策及 BoF，國內外專家學者與會分享觀點；除正式會議議程外，亦於 9 月 7-11 日舉辦一連 5 天之網路實作工作坊 (Workshop)，吸引近 100 位國內外網路實際營運工程人員參加訓練課程。

ICANN 網路治理

因應 ICANN 多方利害關係人 (multistakeholders) 的網路治理模式，台灣網路資訊中心在技術社群、Registry/Registrar 社群及 ccNSO 社群中分別積極參與重要議題討論，以本中心之 DN、IP、國際網路政策等三大核心與 ICANN 議題結合，除維護現有 .tw/ 台灣國碼域名註冊者之權益，更強化本中心對社群之服務及國家網路資訊中心之重要角色扮演。

在 106 年 ICANN 針對 DNSSEC 安排 KSK Rollover 之轉換規劃，本中心為我國國碼域名之管理機構及國家網路資訊中心，對於 KSK Rollover 之相關資訊亦在國內網路技術社群進行更進一步之說明與介紹，並擔負技術溝通管道說明轉換應注意之事項並提供相關協助。



▲ ICANN 董事會主席 Dr. Steve Crocker 在 Public Forum 回覆社群提問。/ Dr. Steve Crocker at ICANN's Public Forum



International Participation

APNIC 44 Conference in Taichung

The Asia-Pacific Network Information Centre (APNIC), TWNIC, and Taichung City Government cohosted the APNIC 44 conference in Taichung, central Taiwan, from September 12 to 14, 2017. The event hosted 383 attendees from 43 economies and covered topics of worldwide interest concerning the Internet and its development.

The opening ceremony of the APNIC 44 featured addresses by Hochen Tan (Taiwan’s Minister of Transportation and Communications), Lin Long-Song (TWNIC’s former Chairman of the Board), Lin Chia-lung (Mayor of Taichung City), and Paul Wilson (Director-General of the APNIC) and keynote speeches on IPv6 and the DNS by Anand Oswal (Senior Vice President of Cisco Systems) and Geoff Huston (Chief Scientist at the APNIC).

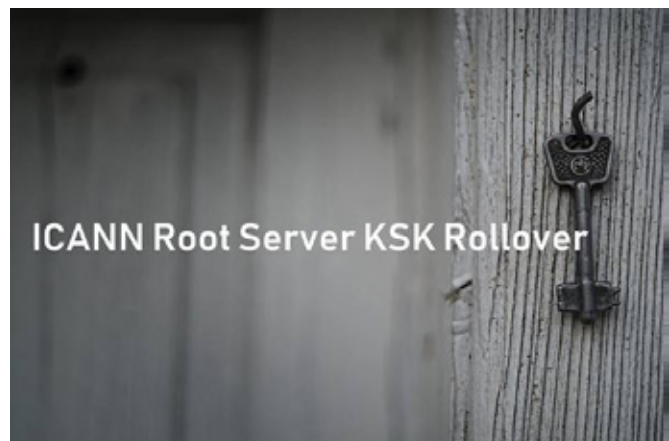
The 3-day APNIC 44 included discussions on current and crucial Internet technologies, opening-up policies, “Birds of a Feather” gatherings (informal meetings where attendees shared information, brainstormed, and deliberated on specific topics), and idea exchanges between experts from Taiwan and overseas. A 5-day training workshop from September 7 to 11 was held in the run-up to the conference; the workshop drew approximately 100 Internet engineers and operators from Taiwan and overseas.



Internet Governance by the Internet Corporation for Assigned Names and Numbers

The TWNIC has joined the “Technical,” “Registry-Registrar,” and “ccNSO” working groups in the Internet Corporation for Assigned Names and Numbers (ICANN)’s multistakeholder Internet governance model to witness developments in topics addressed by these groups. Moreover, the TWNIC integrated its domain name, Internet protocol, and international-Internet policies with ICANN topics to safeguard the rights of registrants of the .tw/.台灣 country code top-level domain name, improve the quality of the Center’s service community, and elevate its role as Taiwan’s national Network Information Center.

The ICANN performed a Root Zone Domain Name System Security Extensions (DNSSEC) KSK rollover in 2017. As Taiwan’s country code manager and National Network Information Center, the TWNIC has provided the domestic Internet technology community with an overview and details of the KSK rollover as well as technical assistance for implementing the rollover.



網路會議

2017 台灣網路論壇

財團法人台灣網路資訊中心 (Taiwan Network Information Center, TWNIC) 於 12 月 12 日舉行「2017 Taiwan Internet Forum」，主管機關國家通訊傳播委員會 (NCC) 詹婷怡主任委員蒞臨開幕典禮進行致詞。

2017 Taiwan Internet Forum 於 106 年 12 月 12 至 15 日假台大醫院國際會議中心舉辦。此次會議結合「2017 全球 IPv6 高峰會議」、「第 29 屆 TWNIC IP 政策資源管理會議」、「2017 TWNOG」、「2017 台灣網路青年論壇」及「2017 資安研討會」。本次全球 IPv6 高峰會議中邀請到日本和澳洲的講者來介紹他們國家 IPv6 的發展，能作為台灣發展的借鏡，未來將邀請更多其他 IPv6 發展普及國家的專家來台灣參加會議作經驗分享。另外針對不同主題，邀集國內外產官學代表，就未來趨勢進行經驗分享。



▲國家通訊傳播委員會 (NCC) 詹婷怡主任委員 / Chan, Ting-i, Chairperson of the National Communications Commission (NCC)

TWNIC IP OPM、TWNOC 以及 IPv6 網路安全教育訓練場次，特別為 TWNIC IP 代理發放單位以及網路技術人員設計的議程，內容涵蓋管理面和技術面，並探討 NCC 正在修訂的電信管理法相關議題。全球域名發展趨勢及展望場次，以全球域名市場及域名價值為題分別規劃。台灣網路青年論壇是由台灣的青年學子組成，藉由論壇 Facebook 專頁之經營及實體論壇活動之舉辦，讓網路世代的青年公民能就網路相關議題，以公開論壇的場域，表述自己對議題的觀點、接受不同立場與意見，以網路由下而上的基本民主討論精神，深入探討網路議題，以提升新網路世代的網路公民素養。資安研討會場次之主要目標為藉由回顧今年國內外發生之多起重大資安事故，並從這些發生過的事件加以分析與了解攻擊之手法，透過實例與經驗分享，藉以鑑往知來強化未來防禦機制。



▲2017 網際網路趨勢研討會 / Internet Trend Seminar Taiwan

2017 網際網路趨勢研討會

財團法人台灣網路資訊中心 3 月 29 至 30 日於台大醫院國際會議中心舉辦 2017 網際網路趨勢研討會，以「網路大趨勢：從物聯網到人機智慧的創意生活」為主題。

本次研討會首日，邀請到產官學界重量級人物從物聯網發展針對人工智慧與未來人機互動對我國網路經濟產業、智慧城市對我國整體數位發展的契機與挑戰進行深入探討；第 2 天進行「DDoS 安全防護」、「我國推動產業 IPv6 全面升級之利基與挑戰」、「從人機溝通虛擬社群談 .tw 國碼識別之品牌識別效果」議題探討，同時為讓大眾更了解本中心政策與業務，台灣網路資訊中心各業務組進行「TWNIC 網路政策論壇」場次。為鼓勵台灣青年對網路重要議題以公民的角色發聲，在研討會最後一個場次與台灣網路青年論壇代表深入探討時下年輕人對網路議題的看法。

Meeting

2017 Taiwan Internet Forum

The TWNIC held the 2017 Taiwan Internet Forum from September 12 to 15, 2017, at the International Convention Center of the National Taiwan University Hospital. Chan Ting-i, chairperson of the National Communications Commission (NCC) in Taiwan, gave a speech at the opening ceremony of the forum.

The Forum featured the 2017 Global IPv6 Summit, 29th TWNIC IP Open Policy Meeting (OPM) and 2017 Taiwan Network Operator Group (TWNORG), 2017 Taiwan Youth Internet Forum, and 2017 Network Security Seminar. At the Global IPv6 Summit, speakers from Japan and Australia delivered talks on the development of IPv6 in their respective countries; their experiences served as an example for Taiwan to improve its IPv6.

The Forum's TWNIC IP OPM, TWNOG, and workshops on IPv6 Internet Security Educational Training—which were held primarily for the TWNIC's authorized local Internet Registries and Internet engineers—covered managerial and technical issues and discussions on the Telecommunication Administration Act that was being amended by the NCC at the time. The Taiwan Youth Internet Forum, organized by a group of young Taiwanese people, operates a Facebook group and hosts events to encourage young people to deliberate on Internet-related issues. The network security seminar reviewed major information security incidents in Taiwan and overseas throughout 2017 and analyzed the attack techniques involved in these cases.

Taiwan Internet Trend Seminar 2017

From March 29 to 30, at the International Convention Center of the National Taiwan University Hospital, the TWNIC held the Taiwan Internet Trend Seminar 2017 under the theme of "Major Internet Trends: Innovative Lifestyle, from the Internet of Things (IoT) to Human-Computer Intelligence."

On the first day of the seminar, experts from industry, academia, and government explored the role of IoT development in artificial intelligence, influence of future human-computer interactions on the Taiwanese Internet economy industry, opportunities for development to be provided by smart cities for domestic digital industries, and challenges that these cities would pose to industry. On the second day of the event, issues such as protective measures against distributed denial-of-service attacks, the niches and challenges of upgrading the entire Taiwanese industrial community to IPv6, and the brand identity of the .tw/.台灣 country code within the virtual community of human-computer communication were discussed. Moreover, the TWNIC assigned all of its departments to host the TWNIC Internet Policy Forum at the seminar to promote public understanding of its policies and businesses. To encourage young Taiwanese people to express their opinions of cyber issues, the center discussed cyber issues of widespread concern to the young generation with representatives from the Taiwan Youth Internet Forum.



▲2018台灣網路青年論壇 / Taiwan Youth Internet Forum

教育訓練

.tw/. 台灣 網路趨勢系列講座

隨著網路急遽的發展，各種網路應用也不斷創新與進化，TWNIC 透過 12 個場次的「.tw/. 台灣網路趨勢講座」，邀請各領域專家，對現今網路趨勢的觀察及分析，分享電子商務、網路行銷、互動網站、網路搜尋優化等議題。106 年度首度針對一般使用者（非技術人員）開辦 7 次的網站架設實務課程，透過實際註冊網域名稱與設定 DNS、使用免費架站資源等課程，協助體驗如何架設專屬的網站行銷品牌與產品；另外，也結合受理註冊機構搭配各種不同的網路應用產品辦理 12 次網聚活動，介紹更多種類的網路行銷與實用的產品，協助註冊人可以活用所註冊的域名。



▲.tw/.台灣 趨勢講座台北場次 / Internet Trend Lecture Series

IPv6 教育訓練

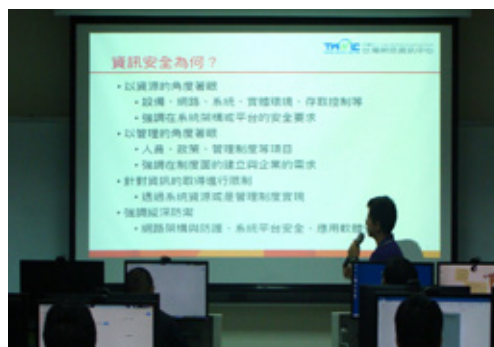
為推廣 IPv6 之應用與培養 IPv6 技術人才，及提供社會大眾 IPv6 相關技術受訓之機會，TWNIC 於 106 年 8 月~12 月於全國巡迴舉辦 47 場「2017 年 TWNIC 新一代網際網路協定教育訓練課程」課程，課程包括：

- 1.IPv6 路由互連設定講習
- 2.IPv6 內部升級 Router 設定與 DHCPv6 Server 建置技術講習
- 3.IPv6 網路分享器設定技術講習
- 4.IPv6 作業系統與應用服務建置實習 (Windows)
- 5.IPv6 作業系統與應用服務建置實習 (Linux)
- 6.IPv6 Proxy 應用與服務建置實習

此次教育訓練課程採授課與實機操作，並提供最新 IPv6 網路環境建置之技術，以提昇國內對建置 IPv6 網路環境之能力。為推廣 IPv6 網路升級，本教育訓練講習課程全數免費，費用全由 TWNIC 補助。

Tech 網安教育訓練

TWNIC 為推廣網域名稱使用者對網域名稱之基礎觀念、及啟發其對資訊安全之重視並提高資安之風險意識與敏感度，進而加強對資安之防護能力，於 106 年度委外舉辦 40 門教育訓練課程總計 360 小時，並於課程結束後實施簡易評量，通過評量且全程到課者，由 TWNIC 統一發給上課證明，所有課程總共有 1,133 位學員熱烈參與，通過評量者有 847 位。課程內容涵概 DNS 安全、Linux 防火牆、系統安全、駭客入侵手法剖析、OpenStack、Log 分析等與網路資訊安全相關領域，且為因應 ICANN 組織於 107 年度第一季更換 root DNS KSK 作業，另加開了 3 場「DNSSEC 介紹與 KSK 更換」課程，提供 DNS 管理者相關設定及注意事項，以協助順利完成 KSK 轉換作業。



▲網安教育訓練 / Network Security Training

Training

.tw/.台灣 Internet Trend Lecture Series

In 2017, the TWNIC hosted 12 lectures during the.tw/.台灣 Internet Trend Lecture Series, which invited specialists from different areas of expertise and covered current Internet trends, e-commerce, online marketing, interactive websites, and Internet search optimization. TWNIC also conducted its first layman's program on website building, teaching attendees how to register a domain name, configure DNS settings, tap free website-building resources, and create a website to market a brand or product. The program was run seven times throughout the year. Furthermore, TWNIC worked with registrars to hold 12 meetups for registrants to introduce a variety of online marketing tactics and practical products and help registrants to apply their registered domain names.

IPv6 Educational Training

To promote the application of IPv6, produce IPv6 specialists, and provide training on IPv6 for the public, the TWNIC hosted 47 workshops from August to December 2017. These courses were organized under the following categories:

- Setting up the IPv6 router's Internet connection
- Configuring the settings for upgrading the internal IPv6 router and creating a DHCPv6 server
- Setting up an IPv6 sharing device
- Providing hands-on training on establishing an operating system and application services for IPv6 (under Windows)
- Providing hands-on training on establishing an operating system and application services for IPv6 (under Linux)
- Offering hands-on training on creating an IPv6 proxy and IPv6 services



▲IPv6 教育訓練/IPv6 Training

These workshops were conducted through instructions and hands-on activities and within the state-of-the-art IPv6 Internet environment to equip trainees to create an IPv6 Internet environment. Moreover, the workshops were free as they were run under the full sponsorship of the TWNIC to facilitate the transition of the existing network infrastructure to IPv6.

Tech-based Internet Security Educational Training

To equip domain name users with an understanding of domain names and improve their ability to protect information, the TWNIC hosted 40 training courses in 2017 spanning 360 hours and covering the following topics concerning network information security: DNS security, the Linux firewall, system security, hacking tactics, OpenStack, and log analysis. Attendees were administered a test at the end of each course; those who passed the test and participated in every lesson of the course received a certificate of attendance. The courses had a combined attendance of 1,133. Of all the attendees, 847 passed the courses. To facilitate the rollover of the Root DNSSEC KSK in the first quarter of 2018, TWNIC launched three additional training courses, all of which provided an overview of the DNSSEC and the KSK rollover.

競賽活動

「TWNIC 網路創業故事徵選活動」匯集創業優秀人才

TWNIC 為匯集網路創業經驗，將創業者的創業過程及運用網站經營模式分享，作為有興趣投入網路創業者最佳的經驗傳承，辦理「網路創業故事徵選活動」，將每個團隊的寶貴經驗分享給其他同樣在創業領域中努力的夥伴，並藉此認識網域名稱為網路創業不可輕忽的投資，強化網域名稱對網路品牌及網站經營的重要性。

「TWNIC 網路創業故事徵選活動」於 106 年 8 月 18 日北科大集思會議中心舉辦最終決選，在眾多作品中評選出得獎名單，評選結果及活動資訊詳見活動網站

<https://www.twmic.net.tw/ebiz/2017>

TWNIC 並於活動結束後陸續安排活動，將各屆之網路創業案例分享給大眾，並將前三名創業故事拍攝成為電影，於域名之友粉絲團、資訊月、.tw/. 台灣網路趨勢系列講座…等活動露出，最新之「TWNIC 網路創業故事徵選活動」前三名微電影詳見：<https://www.twmic.net.tw/result/story.html>



▲「TWNIC 網路創業故事徵選活動」得獎人與評審

「啟動視覺飆創意 .tw/. 台灣形象廣宣品設計競賽」將 .tw 融入設計

TWNIC 為推展網際網路應用之普及，鼓勵台灣青年學子參與多元化網際網路活動，提供激發設計創意潛能兼具認識網域名稱之舞台，辦理「啟動視覺飆創意 .tw/. 台灣形象廣宣品設計競賽」。期能藉由本競賽創意的展現，將 .tw/. 台灣品牌形象及理念融入參賽作品設計，並可增加青年學子及社會大眾對 .tw/. 台灣域名註冊服務之認識及關注度。

「啟動視覺飆創意 .tw/. 台灣形象廣宣品設計競賽」活動已圓滿結束，本屆競賽徵求二項組別之作品參賽：「環保提袋設計組」及「文創禮品設計組」，參賽者無不使出渾身解數展現最好的一面，融入時下新元素於創作，最終在競賽中評選出優秀的得獎作品。

本活動計有 204 件作品報名參賽，12 月 25 日完成決選頒獎，選出前三名及佳作等 11 件作品。

活動介紹及完整得獎作品可見網站：<https://www.twmic.net.tw/adv/2017>。

「第 16 屆新人王網站設計大賽」新創網站展現創意

TWNIC 為協助推展網際網路應用之普及，舉辦新人王網站設計大賽，本競賽至今已舉辦 16 屆，參賽者以代表台灣頂級國碼「.tw/. 台灣」之域名作為網站的識別，將創作理念建置成參賽作品，並運用新一代網路技術及社群媒體之結合，表現出符合主題且具創意創新之網站。期能藉由本競賽，發掘及表揚網站設計創作人才，同時提供「.tw/. 台灣」新創網站表現的機會。參賽者用網站設計構思想表達的故事，傳遞心目中認為值得品味的故事。

本活動計有 40 件作品報名參賽，12 月 25 日完成決選頒獎，選出前三名及佳作等 5 件作品。

活動介紹及完整得獎作品可見網站：<http://netking.tw> 或 <http://新人王.台灣>。

Contest

The TWNIC Internet Entrepreneur Storytelling Competition

The TWNIC Internet Entrepreneur Storytelling Competition is held for entrants to share their experiences of starting and running businesses online and managing websites. The stories told by the entrants are expected to serve as valuable pointers for would-be and current online entrepreneurs and foster awareness of the significance of domain name use to e-brands and website management.

The storytelling competition was most recently hosted in 2017. The award-winning entries were announced at GIS Taipei Tech Convention Center on August 18 of the same year. For the list of award-winning entries and details about the competition, please go to <https://www.twnic.net.tw/ebiz/2017>

After the competition had concluded, the TWNIC provided the public access to entries of online startup stories submitted to all the previous contests and shot the top three entries from each competition into microfilms on the "twnicNEWS" .tw fan page, at the annual Information Technology Month exhibition, and in.tw/.台灣 Internet Trend Lecture Series. For the up-to-date list of microfilms for top three entries in the TWNIC's previous storytelling competitions, visit <https://www.twnic.net.tw/result/story.html>

Visual Innovation Competition with the .tw/.台灣 Domain Name

To promote Internet use, expose young Taiwanese people to diverse Internet activities, and inspire creative designs, the TWNIC held a competition for creative works crafted with the .tw/.台灣 domain name. The entries to the competition were expected to convey elements related to the brand image and concept of the .tw/.台灣 domain name and improve public understanding of the registration service for the domain name.

Entries to the competition were submitted under "environmentally friendly carrier bags" and "cultural and creative gifts" and created with trendy elements. In total, 204 entries were submitted; of these, 11 were awarded with first, second, and third place as well as honorable mentions on December 25, 2017.

Details about the competition and a complete list of award-winning entries are available at <https://www.twnic.net.tw/adv/2017>

Innovative Webpage Design Competition

To encourage Internet use, the TWNIC holds an annual competition to invite website entries including the .tw/.台灣 domain name and using state-of-the-art Internet technologies and social media resources to creatively present contents in line with the competition's theme. The competition has been held for 16 consecutive years. In its 16th year, the competition received 40 entries, five of which earned first, second, and third place as well as honorable mentions on December 25, 2017.

For details about the competition and a complete list of award-winning entries, visit <http://netking.tw>
<http://新人王.台灣>.



社群服務

「中文化電子郵件信箱」體驗活動反應熱烈

因應 Google 及微軟等國際電子信箱服務業相繼宣布支援 EAI 國際標準，使國際化電子郵件的使用及應用環境更加完善，TWNIC 推出「中文化電子郵件信箱」體驗活動，提供給使用 Gmail 或 Outlook2016 郵件軟體之使用者申請體驗。藉此將中文化電子郵件推廣給全國民眾，使用熟悉的語言在網際網路上收發郵件，讓電子郵件信箱可用更直覺的方式記憶及使用。希望帶動更多民眾認識並經常性使用中文化電子郵件，推廣中文文化的網域名稱以及中文化電子郵件地址的搭配使用，促成中文網域名稱之成長。

本次體驗活動已圓滿落幕，共計超過 1,600 人申請體驗活動，超過 700 人完成體驗。活動詳情可見網站：
<https://www.twNIC.net.tw/eai>

域名之友粉絲團和您一同關注域名動態

TWNIC 因應網路社群的發展，並期盼與民眾能以更即時之互動，分享與民眾習習相關的網域名稱消息與 TWNIC 最新活動消息，於 100 年 8 月成立「域名之友粉絲團」，不僅為公開之資訊平台，亦為網域名稱搭起溝通之橋梁，互相切磋促進「.tw/. 台灣」網域名稱之成長，至今已累積四萬多名粉絲加入。



歡迎各位加入！可於 Facebook 搜尋「域名之友」，或至域名之友粉絲團網址：
<https://www.facebook.com/twnicNEWS/> 得知最新消息。



「.tw/. 台灣 網域名稱」形象廣告 進駐台灣高鐵車站宣傳

TWNIC 為推廣「.tw/. 台灣網域名稱」並配合 APNIC 第 44 次會議於台中舉行，於 106 年 8 月 -10 月期間，於台北、桃園、台中等高鐵車站進行車站內燈箱廣告及高鐵車廂內刊物廣告刊登，以直接的廣告訊息接觸目標客群，藉由高鐵車站的大量人潮來往，提升「.tw/. 台灣」網域名稱之能見度，提升註冊之需求。

Networking

Trial Campaign for Chinese EAI

After Google and Microsoft announced that their respective email services started to support EAI to expedite the use of EAI, the TWNIC launched a trial campaign for Chinese EAI allowing Gmail and Outlook 2016 users in Taiwan to use email services in Chinese. The campaign was aimed at promoting public awareness of Chinese EAI; it enrolled over 1,600 applicants, more than 700 of whom completed the trial. Details about the trial campaign are available at <https://www.twnic.net.tw/eai>



The .tw Fan Page

To harness the ever-evolving virtual community and disseminate domain name-related information of public interest and event-related announcements through more timely interaction with the public, the TWNIC has created a fan page called Domain Name Fans. The page is not only a public information platform but also serves to raise public awareness of domain names and promote the development of the .tw/.台灣 domain name. Thus far, it has garnered approximately 40,000 fans. For the latest information about Domain Name Fans, Please go to <https://www.facebook.com/twnicNEWS>.

Promote the .tw/.台灣 Domain Name at Taiwan High-Speed Rail Station

To promote the .tw/.台灣 domain name across Taiwan and provide an understanding of the domain name to the attendees of the APNIC 44 meeting (hosted in Taichung, central Taiwan), the TWNIC advertised the domain name in advertising lightboxes inside the High-Speed Rail (HSR) stations in Taipei, Taoyuan, and Taichung and through promotional items provided on HSR trains between August and October 2017. This promotional strategy drew on crowds in HSR stations to increase the visibility and registration of the .tw/.台灣 domain name.

社會責任

「域名飄 愛心揚 根留台灣」－ 慈善公益活動

TWNIC 秉持回饋社會自 90 年起與受理註冊機構共同舉辦「域名飄、愛心揚、根留台灣」慈善捐款，以「一筆註冊、無限希望」提撥固定比例之域名註冊費作為公益，幫助弱勢族群縮短數位落差。

活動期間 106 年 8 月 1 日至 10 月 31 日，至參與本活動之受理註冊機構網站，新申請或續用一筆 .tw/. 台灣網域名稱，TWNIC 與參與本活動之受理註冊機構即提撥網域名稱管理費用作為愛心公益基金。

參與本活動之受理註冊機構：網路家庭國際資訊股份有限公司 (PChome) 與管地有限公司 (Gandi) 與 TWNIC 共同推動「域名飄、愛心揚、根留台灣」慈善捐款活動。

106 年度計畫徵選結果，包括社團法人台灣愛希望兒童關懷發展協會、社團法人台灣數位有聲書推展學會、財團法人愛盲基金會、社團法人台灣微客公益行動協會、社團法人台灣黃絲帶愛網關懷協會、社團法人南投縣麻煩小天使協會、財團法人台北市私立雙連視障關懷基金會、財團法人心路社會福利基金會、財團法人台東縣私立牧心智能發展中心、台灣兒童伊比力斯協會及財團法人喜憨兒社會福利基金會等 11 家。

詳情請見活動網站：<http://lovetw.tw>



▲ 域名飄 愛心揚 根留台灣-慈善公益活動捐贈儀式 / Domain Name Charity Donation Ceremony

2017 年 TWNIC 校園公益「網路公益 讓愛延伸」

106 年公益青年企劃徵選活動「網路公益 讓愛延伸」，鼓勵青年學生發揮創意，使用創意推廣網路使用，幫助弱勢族群，身體力行去實現公益夢想，藉此網路青年帶動社會公益。

本次全國共募集 120 件公益企劃參加徵選，初賽徵選出 16 件作品，複賽徵選出 8 件作品獲得 TWNIC 補助，計畫包括有幫助弱勢及偏鄉地區學童發揮創意學習，陪伴原鄉孩子認識自己居住地的歷史創造在地認同感；幫助老農進行農作採收及銷售。

TWNIC 自 100 年起，長期贊助國內學生社團利用寒暑假進行公益服務活動，讓青年學子走出校園幫助他人也圓自己的公益夢想。

台灣網路青年論壇

TWNIC 為培育台灣年輕世代關注網路相關議題及持續建立公開良善交流平台，透過台灣網路青年論壇進行意見溝通與討論，由青年學子主動與積極參與，透過多元聲音的交流，形成一個以自由、民主與相互尊重為根基的公共論壇 (Public Forum)。

TWNIC 持續進行「台灣網路青年論壇」維運，106 年於全國大專院校進行成員招募，並選拔出 20 位表現優秀成員參與 TWNIC 舉辦 3 天 2 夜營隊營隊邀請到社會、資安、經濟及科技領域的產學研專家擔任講者，與成員分享專業知識，促發思考議題的廣度與深度。此外，成員們透過 workshops，分組討論並模擬實際論壇舉辦方式展現學習成果。

台灣網路青年論壇 FB 社團：<https://www.facebook.com/groups/taiwanyouthforum/>

Social Responsibility

TWNIC Charity Campaign

The TWNIC commits itself to social responsibility. Since 2001, it has worked with domain name registrars to allocate certain proportions of registration fees to a charity fund that finances outreach programs aimed at improving digital literacy among underprivileged individuals.

In 2017, the TWNIC launched a fundraising initiative where a specified proportion of the management fee for domain names paid by registrants who had applied or subscribed to a .tw/.台灣 domain name on the website of an authorized registrar was earmarked for charity. The initiative ran from August 1 to October 31, 2017.

The registrars that signed up for the initiative were PChome and Gandi. In 2017, 11 social welfare agencies in Taiwan received a grant from the fund. For more information about the fundraising initiative, visit <http://lovetw.tw/>.

Outreach Projects Run by Digital Natives

In 2017, the TWNIC held a competition to select university students' outreach projects for sponsorship. The competition was aimed at encouraging digital natives to harness their creativity for public benefit.

In total, 120 entries were submitted to the competition; of these, 16 were shortlisted and 8 were selected as finalists for the TWNIC grant. Some entries featured creative educational activities catering to schoolchildren in under-resourced and far-flung regions. To encourage students to help those in need and put their public-spiritedness into action, the TWNIC commits itself to sponsoring student-led outreach projects conducted across Taiwan during winter and summer vacation periods.



Taiwan Youth Internet Forum

To encourage young people in Taiwan to openly discuss Internet-related topics, the TWNIC has sponsored the Taiwan Youth Internet Forum, a student-organized public forum where participants are expected to communicate and talk about such topics in a democratic and civilized manner.

The members of the forum were selected from across higher education institutions in Taiwan; 20 were invited to a 3-day camp hosted by the TWNIC, where they attended lectures presented

by experts on social sciences, information security, economics, and technology. At the camp workshops, the attendees worked in groups to simulate executing the forum's agenda and demonstrated what they had learned at the camp. The Facebook group for the Taiwan Youth Internet Forum can be accessed at <https://www.facebook.com/groups/taiwanyouthforum>

網路使用調查

台灣寬頻網路使用調查

「2017 年台灣寬頻網路使用調查」結果公布，15 年來首次超越 ADSL / VDSL 行動連網成主要上網方式。

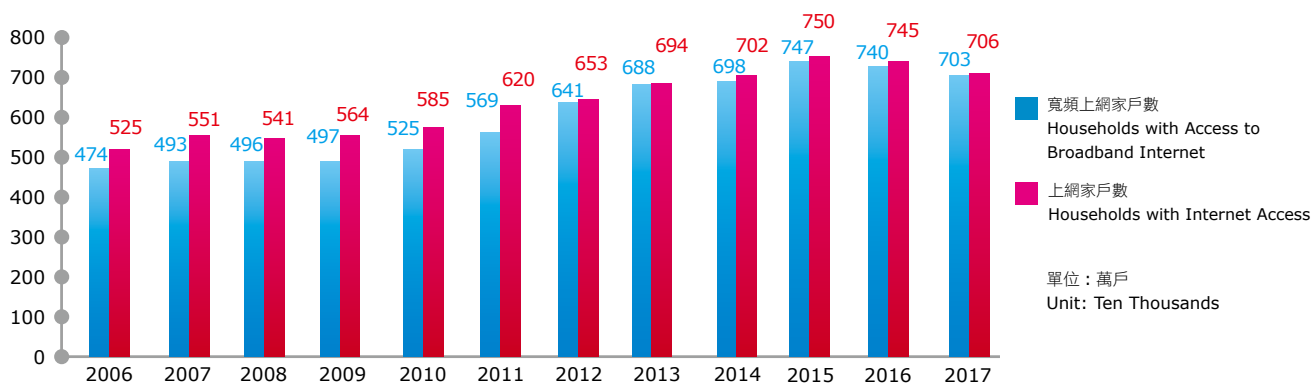
根據調查報告指出，推估全國 12 歲以上上網人數達 1,760 萬人；而全國上網人數經推估已達 1,879 萬，整體上網率達 80.0%。其中，網民主要上網方式為使用行動電信網路，占 39.1%，是自 102 年進行該調查以來首度超越 ADSL (含 ADSL+WLAN) / VDSL (光纖到府/光纖到宅)，顯示行動上網已成國人最常使用的連網方式。

家戶上網部分，「2017 台灣寬頻網路使用調查」報告推估全國家庭可上網有 706 萬戶，全國家戶上網比例達 82.3%，主要上網方式為寬頻上網，比例高達 82.0%，就歷年數據顯示，近 3 年在家庭上網以及家庭寬頻上網比例已呈現略微下降趨勢，推估原因為行動電信網路逐漸取代 ADSL / VDSL 成為個人最主要連網方式，使得家戶能夠上網之重要性降低所導致。

Internet Survey

The TWNIC's 2017 survey of broadband usage in Taiwan put the number of Internet users aged 12 years or above at 17.6 million and the nationwide Internet population at 18.79 million, suggesting an Internet usage rate of 80% across the nation. The majority of respondents browsed the web via a mobile device (39.1%), which had overtaken ADSL (including the combination of ADSL and WLAN) and VDSL (fiber to homes or buildings) as the primary means of Internet access among Taiwanese people for the first time since the survey was first conducted in 2003.

At the household level, approximately 7.6 million families across Taiwan—approximately 82.3% of all families in Taiwan—had Internet access, with 80% using broadband services. Over the preceding 3 years, the number of households subscribing to broadband or other cable-based Internet connection services has declined slightly, likely because mobile devices are increasingly replacing ADSL and VDSL as the main means of Internet access.



台灣上網家戶與寬頻上網家戶數統計 / Households with Internet and Broadband Internet Access

Internet Usage Survey

台灣無線網路使用調查

「2017年台灣無線網路使用調查」結果公布 無線網路查資訊 觀光、地圖、氣象排前三。

TWNIC「2017年台灣無線網路使用調查」結果，推估全國12歲以上曾使用無線上網比例高達75.1%，約1,586萬人；以年齡層來看，「20-24歲」、「25-29歲」受訪者皆達100%；地區分布以「東部地區」（花蓮縣、台東縣）受訪者達83.8%，高於其他地區；教育程度則以「研究所及以上」受訪者達95.3%，高於其他教育程度。

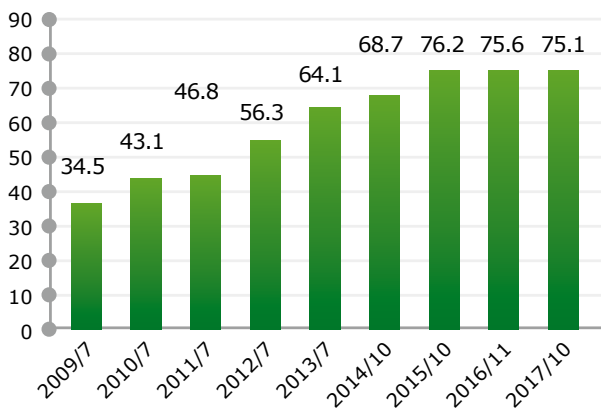
在未上網部分調查結果指出，全國12歲以上有21.2%未上網，以年齡層來看，「65歲以上」受訪者達73.8%，高於其他年齡層；地區分布以「南部地區」（嘉義縣市、台南市、高雄市、屏東縣、澎湖縣）受訪者有26.4%，高於其他地區；教育程度以「小學」受訪者達78.1%，高於其他教育程度。

另外，今年調查結果也發現，曾使用無線上網的受訪者中，最近1年使用無線上網搜尋或瀏覽的資訊類別，排序前三分別為「觀光/旅遊」有20.2%，「地圖/交通路線」有19.5%，「氣象」有18.1%。

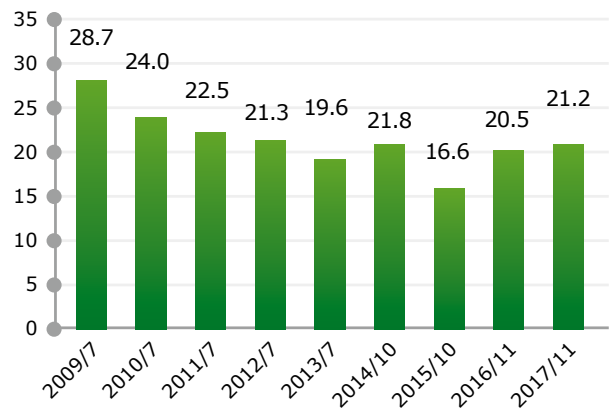
Wireless Network Penetration in Taiwan

The TWNIC's 2017 Taiwan Wireless Internet Usage Survey showed that Wi-Fi was used mainly to access tourism-related information, maps, and weather forecasts; 75.1% of Wi-Fi users were aged 12 years or above (and accounted for 15.86 million of the entire Taiwanese population); all respondents in the age cohorts of 20-24 years and 25-29 years used Wi-Fi; most respondents came from Hualien and Taichung in eastern Taiwan (83.8%) and the vast majority held a Master's degree or above (95.3%).

Of all respondents without Internet access, 21.2% were aged 12 years or above, whereas most (or 73.8%) were from cohorts of individuals older than 65. 26.4% of the unconnected respondents lived in southern Taiwan (i.e., Chiayi, Tainan, Kaohsiung, Pingtung, or Penghu) and 78.1% of them had received only elementary education.



無限上網率歷年趨勢 / Wireless Internet Access
單位:百分比/Unit: Percentage



台灣民眾未上網率歷年趨勢 / Population not Getting Internet Access
單位:百分比/Unit: Percentage

網路統計

106 年台灣網際網路連線頻寬調查

根據台灣網路資訊中心 (TWNIC) 進行的「台灣網際網路連線頻寬調查」，於106年12月底的統計結果顯示，我國對外連線總頻寬達2,352,257 Mbps[如圖一]。

關於連線國家與地區

在連線國家/地區方面，於2017年12月底統計，在國外連線頻寬方面，美國以1,270,881Mbps連線頻寬居我國最主要的連網國家，其他依序為日本(426,268Mbps)、香港(355,743Mbps)、中國大陸(194,927 Mbps)、南韓(43,328Mbps)。整體而言，我國對外連線之國家除美國、荷蘭、英國之外，皆以亞太地區為主。

關於國內外連線頻寬

在國外連線頻寬，HiNet(中華電信數據分公司)、NCIC(新世紀資通)、NTT(台灣恩悌悌)為我國前三大的連外頻寬機構。

在國內ISP互連頻寬，HiNet(中華電信數據分公司)、NCIC(新世紀資通)、TFN(台灣固網)、CNS-KBT(中嘉和網)、emome(中華電信行動通信分公司)，為前5大ISP互連頻寬之單位。

The TWNIC's survey of Internet bandwidth in Taiwan, released at the end of December 2017, revealed that the bandwidth of Internet access from Taiwan to other countries totaled 2,352,257 megabits per second (Mbps). Please see Chart 1.

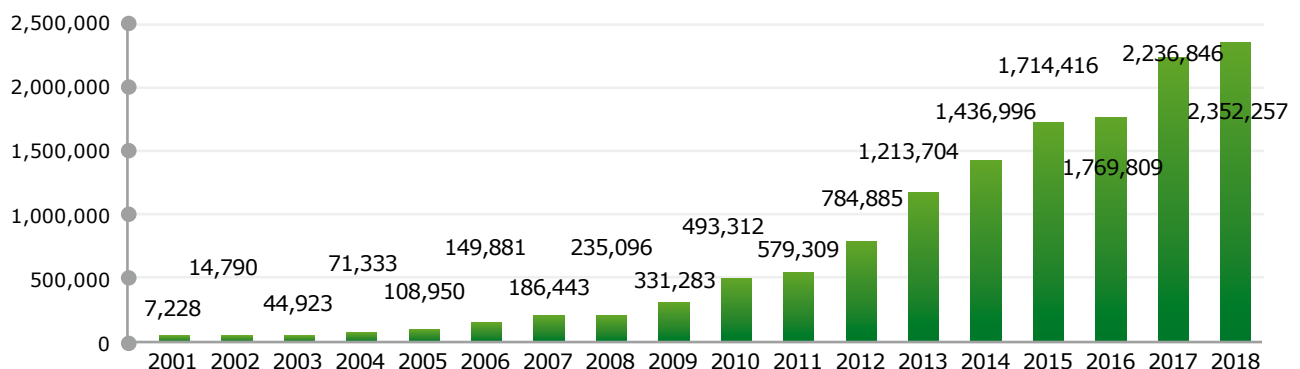
Countries and Regions Accessed Online by Taiwanese People

According to the survey, most overseas websites visited by Taiwanese Internet users were based in the United States (1,270,881 Mbps), followed by Japan (426,268Mbps) Hong Kong (355,743 Mbps), China (194,927 Mbps), and South Korea (43,328 Mbps). Overall, most countries accessed online by Taiwanese people are based in Asia, except for the United States, Netherlands, and the United Kingdom.

Providers of Domestic and International Internet Connectivity

HiNet (the data communication arm of Chunghwa Telecom), New Century InfoComm Tech (NCIC), and Nippon Telegraph and Telephone Communications are currently three major providers of Internet access from Taiwan to other countries and regions.

HiNet, NCIC, Taiwan Fixed Network, CNS KBT, and Emome (the mobile communications arm of Chunghwa Telecom) are five major ISPs that enable domestic connection.



圖一：每年國外連線總頻寬成長圖(單位：Mbps) 2018/1月製圖 / Chart 1: International Internet Connection Bandwidth

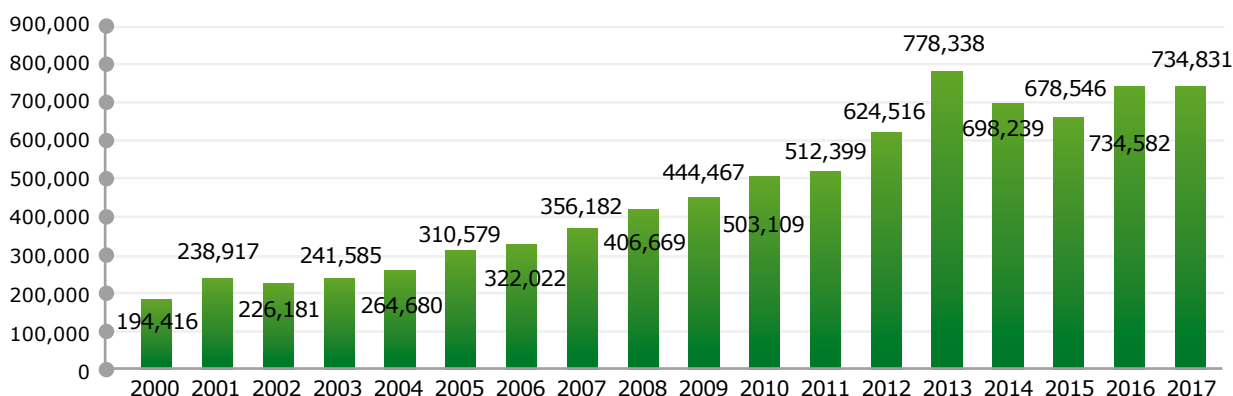
Internet Statistics

tw/. 台灣域名數量統計

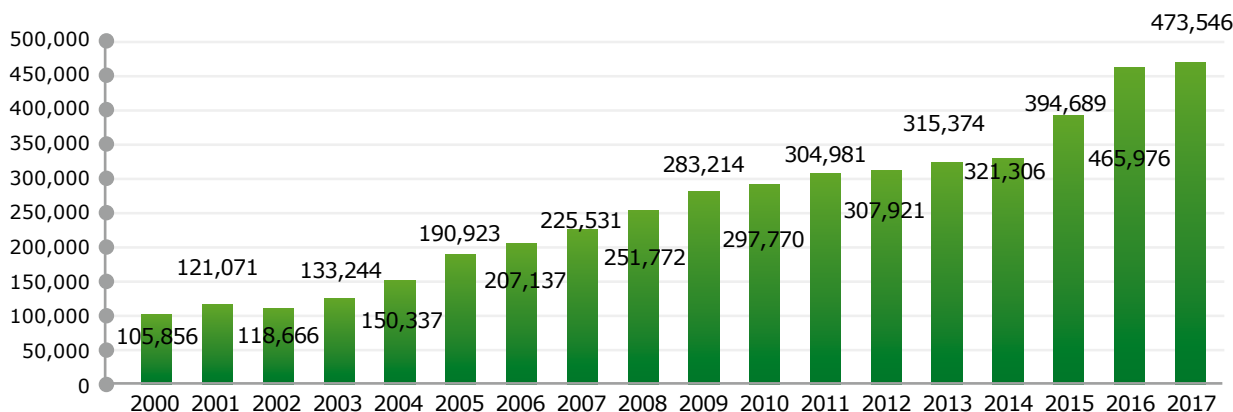
.tw/. 台灣 Domain Name Registrations

截至106年12月31日止，我國.tw/.台灣網域名稱之註冊總量共計734,831筆，各類型網域名稱註冊數量分布狀況如：英文網域名稱註冊總量：473,546筆。中文網域名稱共計261,285筆

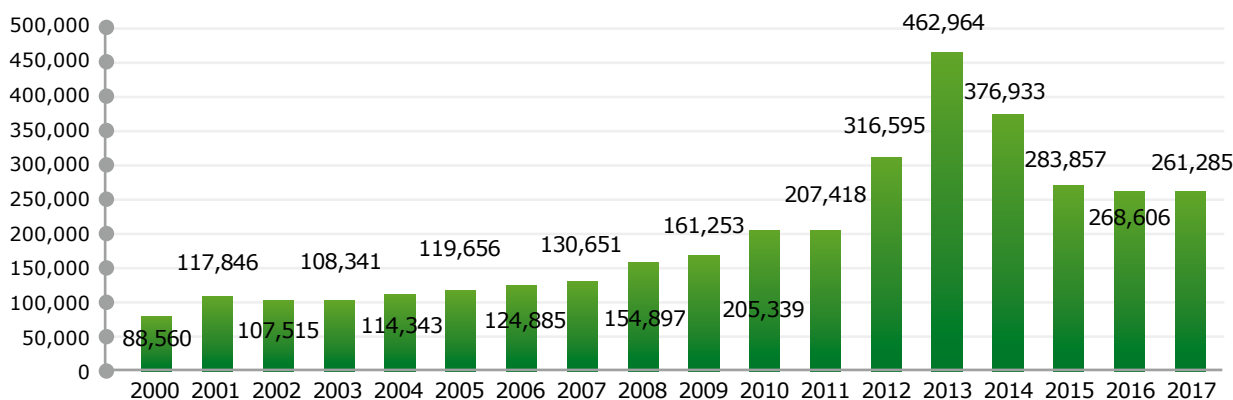
As of December 2017 a total of 734,831 .tw/.台灣 domain names were registered.



.tw/.台灣 網域名稱註冊數量 / Number of .tw/.台灣 Domain Name Registrations.



英文網域名稱註冊數量 / Number of .tw English Domain Name Registrations.

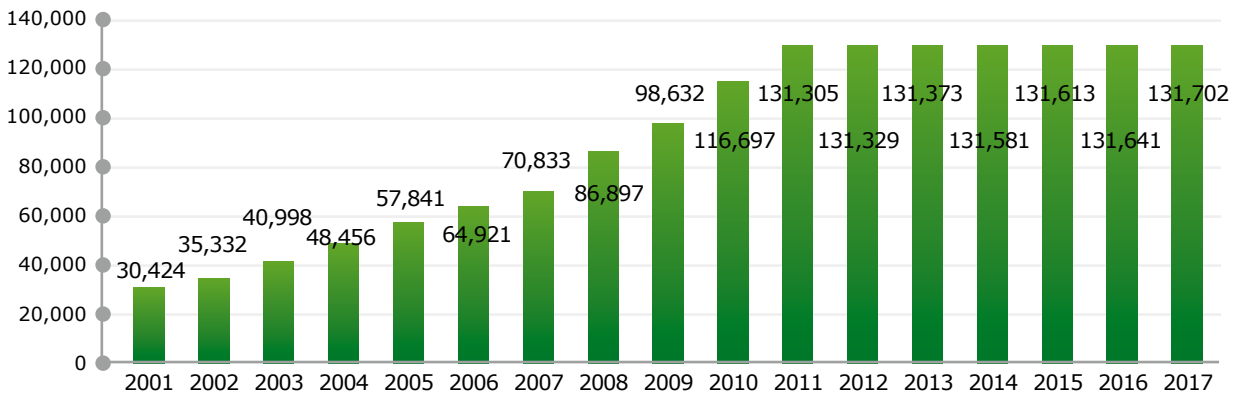


中文網域名稱註冊數量 / Number of .tw/.台灣 Chinese Domain Name Registrations.

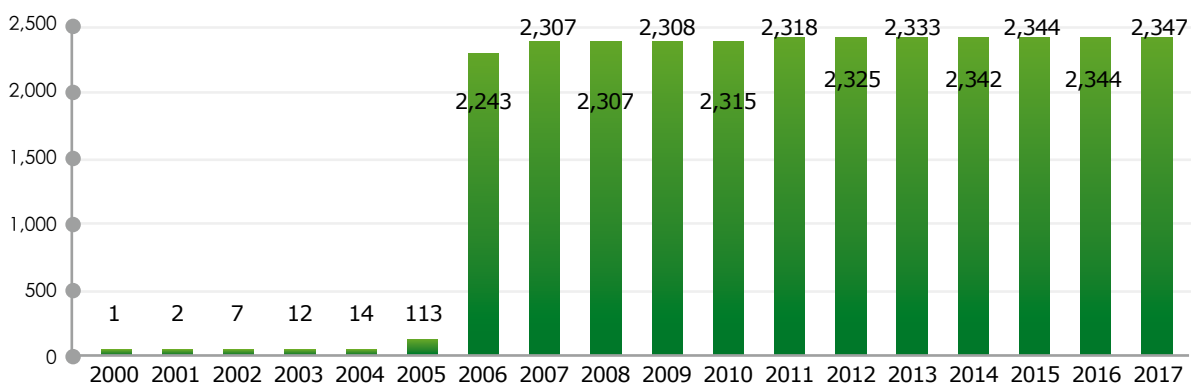
網路統計

IPv4/IPv6/ASN 數量統計

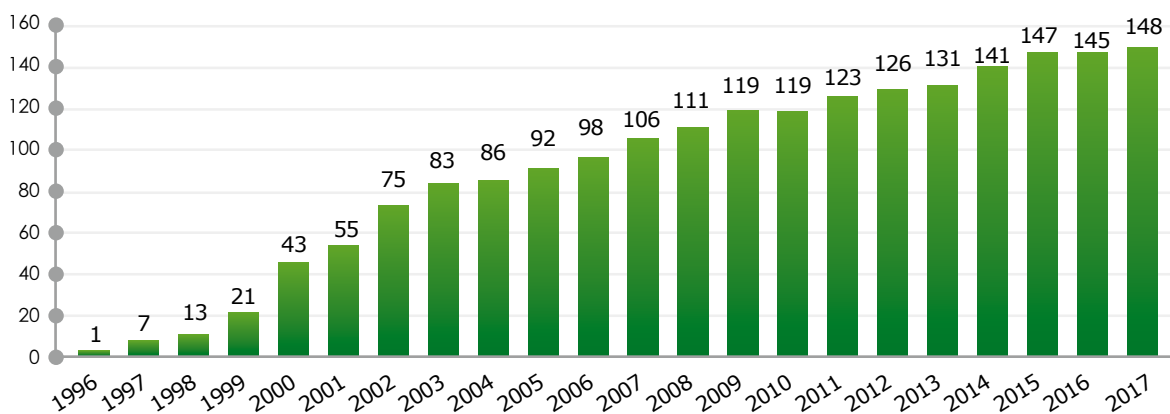
IPv4, IPv6 and ASN Allocations



IPv4位址核發成長統計圖 / Number of IPv4 Addresses



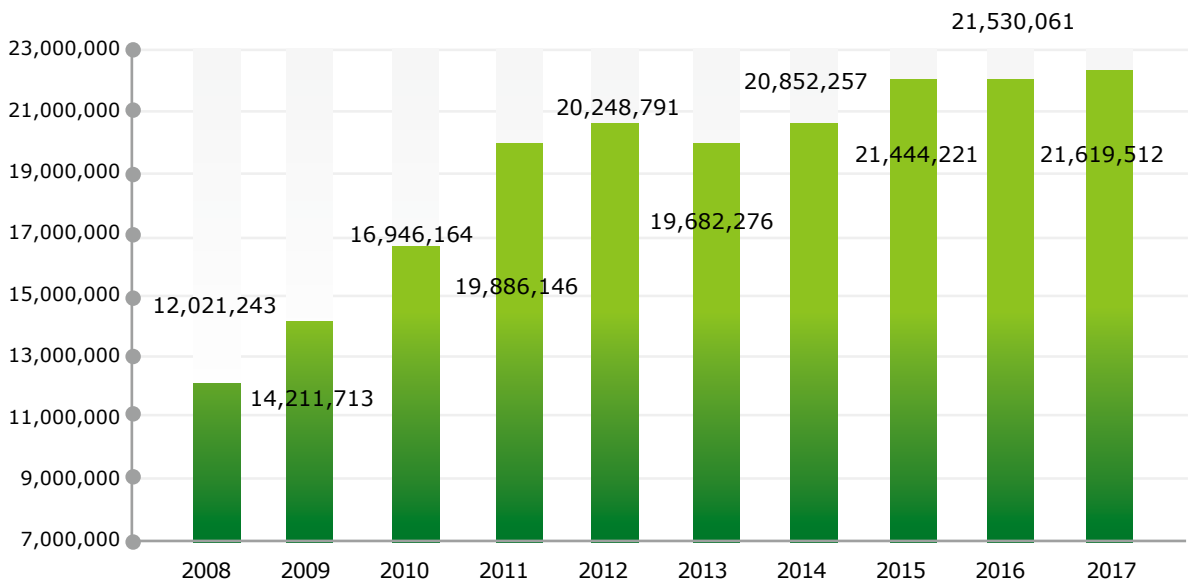
IPv6位址核發統計圖 / Number of IPv6 Allocations



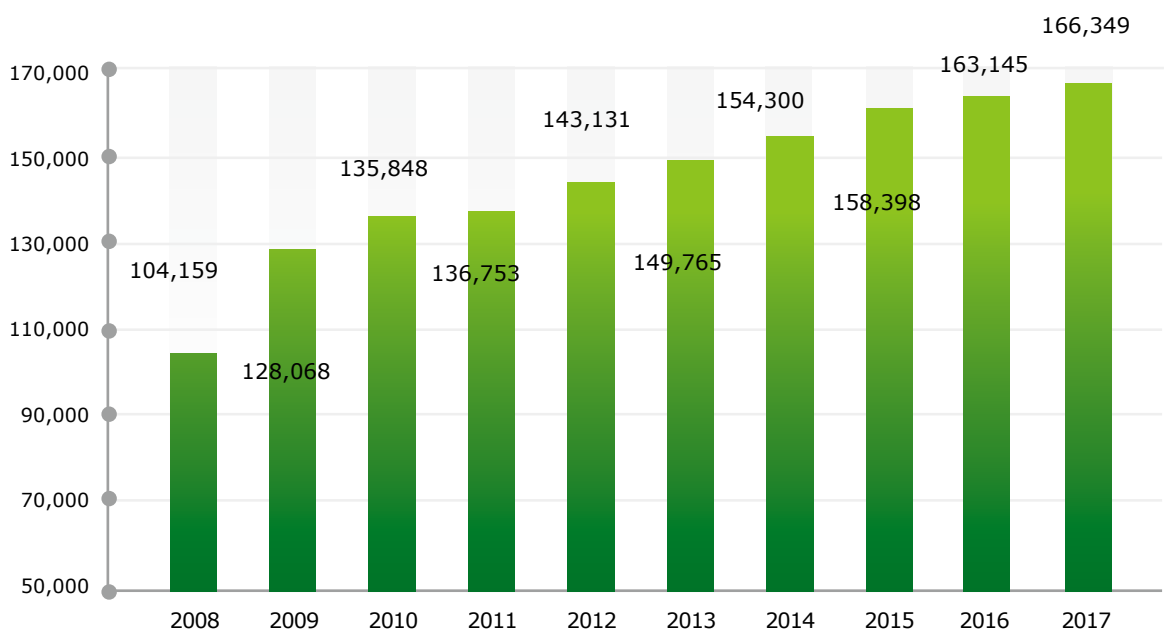
ASN核發統計圖 / Number of ASN Allocations

Internet Statistics

網路主機 / WWW 伺服器數量統計 Number of WWW and Host Servers



網路主機數量統計 / Number of Host Servers



WWW伺服器數量統計 / Number of WWW Servers

組織暨部門

本中心之組織架構如下圖所示，董事會為最高決策會議，董事長對外代表本中心。四個委員會負責協助政策擬定及提供諮詢建議，另成立五個業務部門執行本中心任務，包括執行長、副執行長、各部門主管及成員。現有各委員會及業務組之任務如下：

委員會

1. 網域名稱委員會：擬定我國網際網路網域名稱之制定與註冊服務政策；積極參與國際網域註冊組織之會議及相關活動；協調及分工國內各單位有關網域名稱之研究發展與推廣活動。
2. IP 位址及網路協定委員會：擬定我國網際網路 IPv4 及 IPv6 位址申請與分配政策；積極參與國際 IP 位址及網路協定組織之會議及相關活動；協調及分工國內各單位有關 IP 位址與網路協定之研究發展與推廣活動。
3. 國際事務委員會：維護我國網際網路社群之利益，並增進與世界各國網際網路社群之合作；積極加入參與 ICANN、APNIC 及其他有關網際網路等國際組織之會議及相關活動；協調及分工其他有關我國之國際網際網路相關事務。
4. 網路安全委員會：我國網際網路安全管理政策之諮詢；網路安全及網路危機處理標準作業程序之擬定；提升並確保國內所有 DNS SERVER 之安全性；大規模網站安全掃描檢測，國內網路安全指標調查年報。

業務組

1. 網域名稱服務組：主要負責「.tw」與「.台灣」網域名稱註冊服務；網域名稱爭議處理機制、網域名稱註冊 / 受理註冊機制運作等。
2. 網址及協定服務組：主要負責台灣 IPv4 及 IPv6 位址及 AS 數字申請與分配；審核 IP 代理發放單位資格；推動各項 IP 位址相關網路協定技術標準之研究、整合與制訂。
3. 國際事務暨公共關係組：主要推動國際間網路相關單位之聯繫與會議參與，展現我國網路發展成果；協調及整合國內網路相關單位，加強多元化活動宣傳管道，結合資源，共同推廣網路相關活動。
4. 技術組：積極推動台灣網際網路環境之維護，參與網路技術相關之國際組織活動，持續引進與研發國際最新 DNS、網路安全等技術標準，提升國內網路技術發展。
5. 行政組：主要負責一般行政、人事、會計及稅務等管理事項。協助辦理本中心董事、監察人會議，提供其他業務之行政協助。





Organizational Structure

The TWNIC operates under the supervision of the NCC and the organizational structure of TWNIC is shown in the figure on P.28 the Board of Directors holds the greatest decision-making power, and the Chairman of the Board represents our center to the outside world. Four Committees are responsible for drafting policy and providing information and recommendations, and five departments implement and carry out our center’s missions. Each Committee is responsible for the following:

Committee

1. Domain Name Committee: draft national Internet domain name systems and registration service policies; participate in international domain registration conferences and related activities; coordinate and assist in domain name-related R&D and promotion to cooperate with Internet multistakeholders.
2. IP Address & Protocol Committee: draft application and distribution policies for national IPv4 and IPv6 addresses; participate in international IP address and protocol conferences and related activities; coordinate and assist in IP address and protocol-related R&D and promotional activities undertaken by domestic institutions.
3. International Affairs Committee: maintain national social networking benefits and advance social networking cooperation with worldwide networks; participate in international conferences and related activities organized by ICANN, APNIC and other international network institutions; coordinate and assist in any matters relating to national Internet activities internationally.
4. Network Security Committee: offer consultation services on national Internet security management policies; draft standard operating procedures for Internet security and Internet threat management; improve and maintain the security of all national DNS Servers; perform security scans on large Internet websites and report annually on national Internet safety.

Department

1. Department of Domain Name Service: primarily responsible for domain name registration under “.tw” and “.台灣”; Domain Name Dispute Process, Domain Name Registration/Registrar Registration Processes etc.
2. Department of Internet Resource Service: Processes applications for IPv4 and IPv6 addresses and autonomous system numbers in Taiwan; reviews the qualifications of applicants seeking authorization to distribute IP addresses; investigates, integrates, and develops various sets of technical standards for IP addresses.
3. Department of International Affairs and Public Relations: primarily promotes connections and conference participation with international Internet institutions and announces our national achievements; coordinates and integrates domestic Internet institutions, enhances diversified activity promotion channels, integrates resources and assists in the promotion of Internet-related events and activities.
4. Department of Technology: Promotes the maintenance of the Internet environment in Taiwan; participates in events related to Internet technology hosted by international organizations; introduces and develops internationally recognized technical standards for the DNS and cybersecurity; and upgrades Taiwan's Internet infrastructure.
5. Department of Administration: primarily responsible for general administration, human resource management, accounting, tax and other management matters. Providing support to the Board and Supervisor meetings, and administrative assistance to four departments.



106年度大事紀要

日期	事項
1月	4日 召開第19次網域名稱爭議處理機制諮詢小組會議
	5日 BS10012 個人資訊管理系統驗證導入
	9日 2016年台灣無線網路使用調查結果公布記者會暨焦點座談會
	30日 發表105年第四季台灣ISP連線頻寬圖
2月	7日 召開第80次IP位址及網路協定委員會
	15日 召開2月份受理註冊機構協調會議
	16日 召開第51次網路安全委員會
	21-24日 參加CDNC會議(地點:中國北京)
	24日 中文化電子郵件信箱體驗活動起跑
	26日-3月3日 參加APNIC會議(地點:越南胡志明市)
3月	2-3日 APTLD會議(地點:越南胡志明市)
	3日 .tw/.台灣網路趨勢講座起跑
	12-18日 參加ICANN會議(地點:丹麥哥本哈根)
	21日 召開第34次主任委員會議
	23日 2017 TWNIC網路創業故事徵選競賽活動開跑
	23日 召開第6屆第5次監察人會議
	24日 召開第6屆第6次董事會議
	24日 出版2016年報
	24日 出版2017.tw/.台灣 Watch季刊(春季號)
	28日 出版2016年台灣ISP年鑑
	29-30日 舉辦2017網際網路趨勢研討會
4月	18日 交通部行政檢查
	21-22日 辦理IPv6升級顧問群第1次工作研習會議
	26日 召開第103次網域名稱委員會
5月	11日 召開第104次網域名稱委員會(通訊會議)
	11-12日 辦理「ISO 27001(資訊安全管理系統ISMS)」暨「ISO 9001(品質管理系統QMS)」稽核作業、「BS 10012(個人資訊管理系統PIMS)」書面稽核作業
	25日 因應資安需求中心網頁建立https傳輸加密機制
	26日 辦理「BS 10012(個人資訊管理系統PIMS)」第二階段稽核作業
	7-8日 參與國家通訊傳播委員會106年度電信事業DNS防護實兵演練
6月	12日 召開第52次網路安全委員會
	14日 「2017點進台灣攝影短文徵選-我拍我寫台灣風情」活動起跑
	15日 召開第81次IP位址及網路協定委員會
	19日 完成並通過資安通過資安健檢事務
	21-22日 辦理2017 TWNOG暨第28屆TWNIC OPM會議
	22日 106年度網安教育訓練起跑
	23日 Newsletter季刊(夏季號)出刊
	23日 出版2017.tw/.台灣 Watch季刊(夏季號)
	26-30日 參加ICANN會議(地點:南非約翰尼斯堡)
	27日 「2017啟動視覺瘋創意.tw/.台灣形象廣宣品設計競賽」活動開跑
	30日 參與國家通訊傳播委員會106年度電信事業DNS防護情境演練
7月	3日 召開第51次國際事務委員會

日期	事項
7月	4日 召開第35次主任委員會議
	4日 召開第6屆第6次監察人會議
	5日 召開第6屆第7次董事會議
	7-8日 召開第9次DNSSEC推動委員會會議
	16-19日 APNIC 人員來台實地確認APNIC 44會議場地
	21日 舉辦2017台灣寬頻網路使用調查結果公布記者會
	27日 2017年度公益計畫徵選活動起跑
8月	28-29日 辦理IPv6升級顧問群第2次工作研習會議
	28-29日 辦理Registry-Registrars交流會議
	9日 召開第7屆第1次董事、監察人遴選委員會會議
9月	18日 辦理2017 TWNIC網路創業故事徵選競賽活動決賽暨頒獎典禮
	28日 召開第5次ISP IPv6升級諮詢小組會議
	29日-9月1日 舉辦CDNC會議(地點:台北)
	5日 召開第7屆第2次董事、監察人遴選委員會會議
10月	5日 召開第82次IP位址及網路協定委員會
	7-14日 協辦APNIC 44次會議(地點:台中)
	18-19日 舉辦APIRA會議(地點:台中)
11月	29日 出版2017.tw/.台灣 Watch季刊(秋季號)
	13日 依交通部106年9月26日交郵字第1060030156號函轉行政院106年9月22日院臺科字第1060028535A號函辦理,召開第6屆第8次董事會議決議主管機關變更為國家通訊傳播委員會及重新組成第7屆董事、監察人遴選委員會
	18日 召開第20次網域名稱爭議處理機制小組諮詢會議
	20日 重新組成第7屆董事、監察人遴選委員會,召開第7屆第1次董事、監察人遴選委員會會議
	20-21日 辦理IPv6升級顧問群第3次工作研習會議
	26日 Newsletter季刊(秋季號)出刊
	28日-11月3日 參加ICANN會議(地點:阿拉伯聯合大公國阿布達比)
6日 召開第53次網路安全委員會	
12月	7日 召開第7屆第2次董事、監察人遴選委員會會議
	24日 召開第6屆第9次董事會議
	6日-107年1月9日 辦理106年度台北、台中、高雄、台南資訊月展覽
	8-9日 舉辦台灣域名論壇
	12-15日 舉辦2017 Taiwan Internet Forum研討會-2017全球IPv6高峰會議、第29屆TWNIC IP政策資源管理會議、2017 TWNOG、2017資安研討會及2017台灣網路青年論壇
	22日 完成法院主管機關變更登記為國家通訊傳播委員會
	22日 2017年台灣無線網路使用調查結果公布記者會暨焦點座談會
	25日 舉辦2017TWNIC聯合頒獎典禮
	28日 召開第7屆第1次、第2次董事會議
	29日 出版2017.tw/.台灣 Watch季刊(冬季號)
	29日 Newsletter季刊(冬季號)出刊

2017 Timeline

	Date	Event
January	4	Hosted the 19 th dispute resolution group meeting on disputed domain names
	5	Implemented BS10012 standards for a PIMS
	9	Held a press conference and focus group discussion on the results of the 2016 survey of Wi-Fi usage in Taiwan
	30	Published the Q4 2016 ISP broadband map for Taiwan
February	7	Held the 80 th IP Address and Protocol Committee meeting
	15	Held February negotiation meeting with registrars
	16	Held the 51 st Network Security Committee meeting
	21-24	Attended Chinese Domain Name Consortium (CDNC) meeting in Beijing, China
	24	Launched trial campaign for Chinese EAI
26-March 3	Attended the APNIC conference in Ho Chi Minh City, Vietnam	
March	2-3	Attended Asia-Pacific Top-Level Domain Association meeting in Ho Chi Minh City, Vietnam
	3	Began the .tw/.台灣 Internet Trend Lecture Series
	12-18	Attended ICANN in Copenhagen, Denmark
	21	Held the 34 th committee chair meeting
	23	Initiated the Internet Entrepreneur Storytelling Competition
	23	Held the 5 th meeting of the 6 th Supervisory Committee
	24	Held the 6 th meeting of the 6 th Board of Directors
	24	Published 2016 annual report
	24	Released spring 2017 issue of .tw/.台灣 Watch Quarterly
	28	Published 2016 Taiwan ISP Yearbook
29-30	Held Taiwan Internet Trend Seminar 2017	
April	18	Administrative inspection by Ministry of Transportation and Communications
	21-22	Conducted the 1 st workshop with consulting group on IPv6 upgrading
	26	Held the 103 rd Domain Name Committee meeting
May	11	Held the 104 th Domain Name Committee meeting (a communication meeting)
	11-12	Performed documentation audit of ISO 27001 (an information security management system standard), ISO 9001 (a quality management system standard), and a personnel information management system BS10012.
	25	Created HTTPS transmission encryption mechanism to improve information security on the TWNIC website
	26	Performed second-stage audit of BS10001 (specifications for a PIMS)
June	7-8	Attended NCC 2017 drill on DNS protection in the telecom sector
	12	Held the 52 nd Network Security Committee meeting
	14	Launched a competition for themed photo essays on the theme of Taiwan
	15	Held the 81 st IP Address and Protocol Committee meeting
	19	Underwent and passed an information security health check
	21-22	Held the 28 th TWNIC OPM in combination with TWNOG 2017
	22	Launched 2017 training program on network security
	23	Released summer 2017 issue of quarterly newsletter
	23	Released summer 2017 issue of .tw/.台灣 Watch Quarterly
	26-30	Attended ICANN in Johannesburg, South Africa
27	Launched a design competition for promotional pieces with the .tw/.台灣 domain name	
30	Attended NCC's 2017 situational drill on DNS protection in the telecom sector	
July	3	Held the 51 st International Affairs Committee meeting
	4	Held the 35 th committee chair meeting

	Date	Event
July	4	Held the 5 th meeting of 6 th supervisory committee
	5	Held the 7 th meeting of 6 th board of directors
	7-8	Held the 9 th DNSSEC promotion committee meeting
	16-19	Accompanied APNIC personnel to inspect venue for APNIC 44 meeting
	21	Held press conference releasing results of 2017 survey of Internet usage in Taiwan
	27	Launched an annual competition to select student-led outreach projects for sponsorship
	28-29	Conducted the 2 nd workshop with consulting group on IPv6 upgrading
August	28-29	Held registry-registrar exchange meeting
	9	Held the 1 st meeting of 7 th selection committee of board members and supervisors
	18	Held awards ceremony for 2017 TWNIC Internet Entrepreneur Storytelling Competition
September	28	Conducted the 5 th meeting with consulting group on ISP IPv6 upgrading
	2-September 1	Hosted CDNC meeting in Taipei, Taiwan
September	5	Held the 2 nd meeting of 7 th selection committee of board members and supervisors
	5	Held the 82 nd IP Address and Protocol Committee meeting
	7-14th	Cohosted APNIC 44 meeting in Taichung, Taiwan
	18-19	Hosted Asia-Pacific Internet Research Alliance International Conference in Taichung, Taiwan
	29	Released fall 2017 issue of .tw/.台灣 Watch Quarterly
October	13	NCC was assigned as the competent authority for resolution of the 8 th meeting of the TWNIC's 6 th board of directors, and the TWNIC's 7 th selection committee of board members and supervisors was reorganized based on the requirements of the Ministry of Transportation and Communications' in September 26, 2017, Order No. Jian-You-Zhi 1060030156, as processed by the Executive Yuan on September 22, 2017; Order No. Tai-Ke-Zhi 1060028535A
	18	Held the 20 th dispute resolution task force on disputed domain names
	20	Reorganized the 7 th selection committee of board members and supervisors and held 1 st meeting of the 7 th selection committee of board members and supervisors
	20-21	Conducted 3 rd workshop with consulting group on IPv6 upgrading
	26	Released spring issue of the quarterly newsletter
	28-November 3	Attended ICANN in Abu Dhabi, United Arab Emirates
	November	6
7		Held the 2 nd meeting of 7 th selection committee of board members and supervisors
24		Held the 9 th meeting of 6 th board of directors
December	6-January 9, 2018	Hosted 2017 Information Technology Month exhibition in Taipei, Taichung, Tainan, and Kaohsiung, Taiwan
	8-9	Hosted Taiwan Domain Name Forum
	12-15	Hosted 2017 Taiwan Internet Forum, 2017 Global IPv6 Summit in Taiwan, 29 th TWNIC IP OPM, 2017 TWNOG, 2017 Network Security Seminar, and 2017 Taiwan Youth Internet Forum
	22	Renamed as "NCC" through registration with the judicial competent authorities
	22	Held press conference and focus group discussion on results of 2017 survey of Wi-Fi usage in Taiwan
	25	Hosted joint awards ceremony of 2017
	28	Held the 1 st and 2 nd meetings of 7 th board of directors
29	Released winter 2017 issue of .tw/.台灣 Watch Quarterly	
29	Released winter 2017 issue of the quarterly newsletter	

出版品

2016 年台灣 ISP 年鑑出版

TWNIC 於 106 年 4 月出版「2016 年台灣 ISP 年鑑」。本次 ISP 年鑑主要探討 IPv6 企業升級的進度、政府作為及企業商機。說明在台灣整體網路使用如此成熟的環境下，新一代 IPv6 網路位址帶來了物聯網的發展契機。並請各 ISP 提供目前的發展現況，除企求營造網際網路相關業者相互交流及分享經驗之平台外，更致力於透過本刊物深入淺出之介紹，提供社會大眾最新的 ISP 產業相關資訊。

Publication

The TWNIC published the 2016 Taiwan ISP Yearbook in April 2017. The yearbook focuses on the progress of businesses' transition to IPv6, government work on IPv6 infrastructure, and business opportunities arising from the adoption of IPv6. Because Taiwan boasts a highly developed Internet infrastructure, IPv6 can facilitate the development of the IoT. The yearbook is an in-depth and readable account of recent developments in the ISP industry.



.tw/. 台灣 Watch 季刊帶您展望世界域名脈動

為使國人更加深入瞭解台灣及全球之網域名稱發展，TWNIC 於 102 年開始每季編印「.tw/. 台灣 Watch」刊物，內容彙整了全球及 .tw/. 台灣頂級國碼網域名稱最新發展概況、統計、重點活動 / 事件摘要、我國受理註冊機構活動與爭議處理機構消息…等相關資訊。出刊後於各個活動中提供給民眾，並寄送至相關機構，並同步將刊物電子化放置於網站上，提供線上閱讀，以期加速國內網域名稱消息與世界同步。

.tw/.台灣 Watch Quarterly Looks into the Pulse of the Global Domain Name Community

To provide the Taiwanese public with a comprehensive knowledge of developments in the domain name industry in Taiwan and abroad, .tw/.台灣 Watch Quarterly presents updates on the development of global and .tw/.台灣 top-level country code domain names, statistical data, summaries of major events, accounts of Taiwanese registrar events, and information regarding domain name dispute resolution service providers.

2017 桌曆「我拍我寫 新台灣」

「2017 點進台灣攝影短文」以「我拍我寫 台灣風情」為主題，競賽激烈，共有 340 作品參賽，兩輪遴選後，選出 12 名得獎作品，作品主題包含台灣自然風光、城市面貌及台灣傳統文化。得獎者運用卓越的攝影技術及優美文字，描繪出台灣各地角落真摯動人的事物，這些得獎作品也製成 2018 年桌曆，提供得獎者作為留念。



▲2018我拍我寫台灣風情月曆

2018 Desktop Calendar Made of Winning Photo Essays on Taiwan

The TWNIC's 2017 competition for themed photo essays on Taiwan received 340 entries; of these, 12 earned an award. The essays concerned Taiwan's natural, urban, and cultural landscapes. The winning entries, which portray Taiwan from various perspectives, were crafted into a 2018 desk calendar.

To learn more about the competition, visit <https://2017iwrite.twNIC.net.tw/>.



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