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# Taiwan Network Information Center, a non-profit organization

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## Establishment :

●The Taiwan Network Information Center (TWNIC) is a non-profit organization, officially funded by the Directorate General Telecommunications of MOTC (Ministry of Transportation and Communications) and Computer Society of Republic of China, on December 29, 1999.

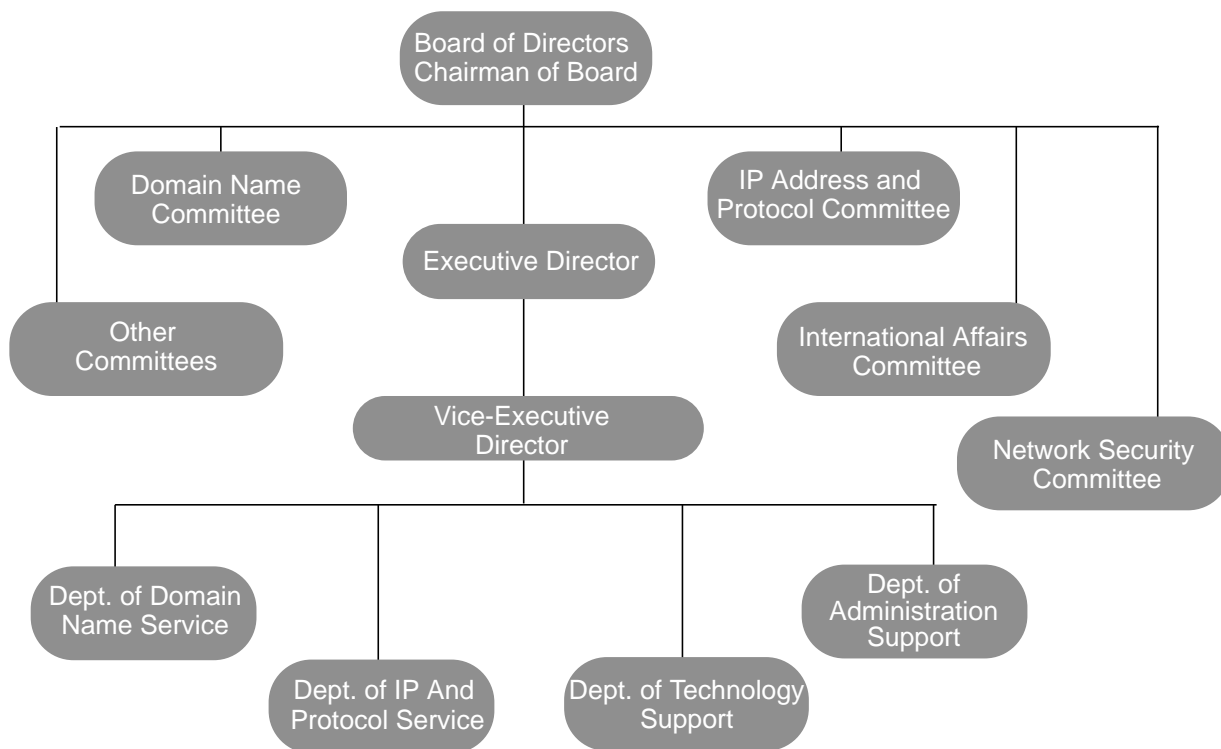
## ●Primary Duties

As a national network information center, TWNIC has following fundamental missions and duties :

1. To provide Internet services such as domain name and IP/ASN registration and management, directory and database access as well as the promotion for the nation's Internet business, based on its non-profit, neutral and mutual sharing of network resources.
2. To facilitate and coordinate the activities and co-operation between national and international Internet-related organizations.
3. To assist the promotion of nationwide Internet applications, and to coordinate the exchange and integration of Internet information services.

## Organization Structure

TWNIC consists of a Board of Directors, four major committees and four departments of its operations:



## Function of Committees

Responsible for providing suggestion and consultation of Internet-related policy

### ● International Affairs Committee

1. To enhance the collaboration with international Internet communities and secure the interests of national Internet communities.
2. To actively participate in the meetings and activities of ICANN, APNIC, APNG, INET and other related Internet international organizations.
3. To coordinate Internet-related international affairs with other countries.

### ● Domain Name Committee

1. To establish the Internet domain name registration policy.
2. To actively participate in the meetings and activities of International network registration organizations.
3. To coordinate other related research and promotion activities on domain name.

### ● IP Address and Protocol Committee

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1. To establish the Internet Ipv4 and Ipv6 address application and distribution policy.
  2. To actively participate in the meeting and activities of related international IP address and Protocol organizations.
  3. To coordinate other related research and promotion activities of IP address and Protocol.

## Functions of Operational Departments

### ● Domain Name Service Department

1. To manage DNS services.
2. To coordinate and consolidate domain name services and registry among government, academy and business.
3. To support the activities of the committees.

### ● IP address and Protocol Service Department

1. To manage the application and distribution of IP address and AS number.
2. To coordinate and consolidate the application and distribution of IP address and AS number among government, academy and business.
3. To support the activities of the committees.

### ● Technology Support Department

1. To establish, manage and maintain all of the service related systems.
2. To coordinate and consolidate the related network protocol standard, network information access and statistics among government, academy and business.
3. To support the activities of the committees.

### ● Administration Support Department

1. To coordinate and consolidate the affairs regarding network promotion and publications among government, academy and business.
2. To take charge of board meeting and board related business.
3. To make the business plans and monitor their progress.
4. To manage general affairs, personnel and purchasing.
5. To control budget and file tax.

## TWNIC Core Business

### ● Domain Name Registration Service

#### 1.English Domain Name Registration Service

Currently, TWNIC provides the registration service of .com.tw, .net.tw, .org.tw and .idv.tw. The registration service of .idv.tw has just started officially since 2000/5/1.

#### 2.Chinese Domain Name Registration Service

Since 1 May 2000, TWNIC has provided Chinese Domain Name Registration Service. Currently, TWNIC is working on progressing the Multilingual Domain Name System with many Network Information Centers (NICs) from other countries. It also is establishing a Chinese Domain Name Registration technical support team under Domain Name Committee to discuss related standard and technology at regular meetings. TWNIC will develop a system that follows open source, internationalization, standardization, and localization for testing and service. TWNIC will provide a international standard for a better Chinese Domain Name registration service.

#### 3.Domain Name Registry/Registrar Service

With the rapid growth of Internet and related business, the registry/ registrar service system should be re-organized according to the principle of free-market competition and open-participated. We are looking forward to having a more free and healthier environment and better Internet related services. In the last quarter of year 2000, we have selected several qualified registrars. So far, We have authorized 6 companies as ccTLD domain name registrars: Asia Pacific Online Service Inc.(APOL), PC home Online Co. Ltd , Chunghwa Telecom Co. Ltd (HiNet), Digital United Inc .(SeedNet), TISNet Technology Inc.(TISNET), Net-Chinese Co., Ltd.. Therefore, from year 2001, there will have more local registrars providing Domain Name registration services.

#### 4.The Task Force for the dispute resolution policy for Domain Name

With the rapid growth of Domain Name registration, there are more and more arguments. Therefore, we are working on a practical dispute resolution package and forging the qualifications for the administration center for dispute resolution in order to manage these increasing related problems more effectively.

● IP Address Allocation Service

TWNIC is responsible for IP address allocation in Taiwan. So far, there are already 33 ISPs or agents which are authorized by TWNIC to assign IP address to its users. According to the expeditious growth and change in the Internet business in Taiwan, there will have more qualified and authorized agents in the future.

Ministry of Education Computer Center (TANet)	( <a href="http://www.edu.tw/tanet">http://www.edu.tw/tanet</a> )
Digital United Inc. (SeedNet)	( <a href="http://www.seed.net.tw">http://www.seed.net.tw</a> )
Chunghwa Telecom Co., Ltd.(HiNet)	( <a href="http://www.hinet.net">http://www.hinet.net</a> )
Reach & Range Inc.(GCN)	( <a href="http://www.gcn.net.tw">http://www.gcn.net.tw</a> )
Universal Joint Network Technologies Co., Ltd(UNET)	( <a href="http://www.unet.net.tw">http://www.unet.net.tw</a> )
PAGIC Net, Inc. (PAGIC)	( <a href="http://www.pagic.net">http://www.pagic.net</a> )
HITRON Technology Inc.(HTNet)	( <a href="http://www.ht.net.tw">http://www.ht.net.tw</a> )
Taiwan Telecom. Network Services Co. Ltd. (TTNET)	( <a href="http://www.ttn.net.tw">http://www.ttn.net.tw</a> )
System Corporation Ltd. (SYSNet)	( <a href="http://www.sysnet.net.tw">http://www.sysnet.net.tw</a> )
Infoserve Technology Corp. (ISNet)	( <a href="http://www.is.net.tw">http://www.is.net.tw</a> )
Seeder Computer Corporation Ltd. (Seeder)	( <a href="http://www.seeder.net.tw">http://www.seeder.net.tw</a> )
TimeNet International Corp. (TimeNet)	( <a href="http://www.timenet.net.tw">http://www.timenet.net.tw</a> )
Pacific Resources Technology Corp. (MyNet)	( <a href="http://www.my.net.tw">http://www.my.net.tw</a> )
Mackay Telecommunications Inc. (MKY)	( <a href="http://www.mkty.net.tw">http://www.mkty.net.tw</a> )
Sun Yard Info. Tech Co., Ltd.	( <a href="http://www.cable.net.tw">http://www.cable.net.tw</a> )
ERA Communications Co., Ltd. (ERA)	( <a href="http://www.eranet.net">http://www.eranet.net</a> )
SaveCom International Inc.(SaveCom)	( <a href="http://www.savecom.net">http://www.savecom.net</a> )
Far EdsTone Telecommunication Co., Ltd (FetNet)	( <a href="http://www.fetnet.com.tw">http://www.fetnet.com.tw</a> )
Government Service Network(GSN)	( <a href="http://gsnet.gsn.gov.tw">http://gsnet.gsn.gov.tw</a> )
FIC Network Service, Inc. (FIC Net)	( <a href="http://www.ficnet.net.tw/">http://www.ficnet.net.tw/</a> )
Multa Communications Corp. Taiwan (Multa Com)	( <a href="http://www.multacom.com">http://www.multacom.com</a> )
Internet Solution Lab., Inc. (Easy Net)	( <a href="http://www.isl.net.tw">http://www.isl.net.tw</a> )
Goldsun Computer & Communication Co., Ltd.(GSNet)	( <a href="http://www.gsnet.com.tw/">http://www.gsnet.com.tw/</a> )
TransAsia Information Services Inc.(TATNet)	( <a href="http://www.tat.net.tw/">http://www.tat.net.tw/</a> )
Atlas Internet & Life International, Inc.(Atlas)	( <a href="http://www.atlas.net.tw/">http://www.atlas.net.tw/</a> )
KG Telecommunications Co.,Ltd ( KGT )	( <a href="http://www.kgt.com.tw/">http://www.kgt.com.tw/</a> )

NETPOLY TELECOM INC. (INTERGRAND)	( <a href="http://www.intergrand.net">http://www.intergrand.net</a> )
MCI WorldCom Taiwan Co., Ltd. (WORLDCOM)	( <a href="http://www.wcom.com">http://www.wcom.com</a> )
TISNet Technology Inc. (TISNET)	( <a href="http://www.tisnet.net.tw/">http://www.tisnet.net.tw/</a> )
Trans World Communication Taiwan Co., Ltd. (TWC)	( <a href="http://www.twc.com.tw/">http://www.twc.com.tw/</a> )
New Century InfoComm Co., Ltd (NCIC)	( <a href="http://www.ncicnet.net">http://www.ncicnet.net</a> )
GRADE Technology Co., Ltd. (GliveNet)	( <a href="http://www.glive.net">http://www.glive.net</a> )
New Silker Network Co., Ltd. (Silker)	( <a href="http://www.silker.net/">http://www.silker.net/</a> )

1. For the development of Internet business, TWNIC authorizes ISPs to allocate the IP address to their users.
2. To become an agent, ISPs must submit their allocation proposal along with the ISP licences approved by MOTC to TWNIC. The IP address and Protocol committee will evaluate and approve its application.
3. The proposal should include the following subjects:
  - To demonstrate the DNS and Routing can be operated normally.
  - Plans which show IP address use.
  - Network topology which includes the numbers of regional network centers and the domestic and global dedicated lines bandwidth.

With the booming growth of Internet, the current IPv4 address can not meet today's needs. Therefore, the IPv6 will become the main stream for the future Internet. TWNIC has setup a IPv6 working group under the IP committee with representations from academic institutes, from the ISP and from related software corporations in order to perfect the IPv6 environment in Taiwan.

#### ●Autonomous System Number Service

AS number applications are necessary when the system works through the Exterior Gateway Protocol(EGP), Border Gateway Protocol(BGP) or OSI Inter-Domain Routing Protocol(IDRP). Therefore, only the users who are multi-homed to more than one Internet Service Provider can apply for the Autonomous System Number Service from TWNIC.

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## Prospects

In the year 2000, it was not only the first year for TWNIC to incorporate officially as a non-profit organization, but it was also a key moment of the booming Internet world and E-commerce. Besides, the new standard of Internet like IPv6, multi-language domain name and the dispute resolution of domain name are changing very rapidly impacting the DN or IP business every day. Therefore, we believe this business is highly competitive and challenging.

The core businesses of TWNIC are responsible for domain name registry and IP address allocation which are also the essential parts of Internet infrastructure. In the future, we hope we can provide satisfactory service on domain name registration and IP address allocation. In addition, we look forward to being much more active in trying to host international meetings and participating in international Internet affairs. We believe that we can improve all these issues. It is our goal and pleasure to bring the most satisfying and high quality service to all people who want it.