

Certification of IPv6 ready products

Reference

IETF and Internet standards

- Internet Engineering Task Force (IETF)
 - Started in 1986: very early era of the Internet
 - Not for profit organization
 - Develops and promotes voluntary Internet standards
 - An open standards organization
 - No formal membership or membership requirements
 - All participants are volunteers – usually their work is funded by their employers or sponsors
 - Process of Request For Comments (RFC)
 - Mandatory and optional RFCs
- Vendors to implement defined “standards” by IETF

Spirit of IETF and the Internet

- “We believe in **rough consensus and running code**”
 - Foundation to support nimble development of both useful and destructive technologies
 - Support innovation = the current and future Internet
- Identify and propose solutions to pressing **operational and technical problems**
- Consensus based decision making process
 - Humming, not show hands or voting
- Commercial activities left to the industry's hand

An example of IETF defined IPv6 standard

- 464XLAT: RFC6877
 - Combination of Stateful and Stateless Translation
 - A IPv6 transition mechanism
 - Allow to quickly deploy limited IPv4 access service to IPv6-only edge networks without encapsulation
- T-Mobile USA needed to deploy low capex/opex IPv6 transition technologies for their mobile networks in 2009
 - Cameron Byrne (T-Mobile USA)
 - Masataka Mawatari (Japan Internet Exchange)
 - Masanobu Kawashima (NEC)
- April 2013: Informational standard
- Android adopted requirements
 - Samsung, Sony, LG...

Requirements for IPv6 ICT equipment

- Lots of RFCs defined by IETF
 - Since mid 1990s
- Information provided by RIPE NCC
- <https://www.ripe.net/publications/docs/ripe-554>
 - To ensure the smooth and cost-effective uptake of IPv6 across governments and large enterprises specify requirements for IPv6 compatibility when seeking tenders for network equipment and support
 - Not specify any standards or policy itself

Requirements for IPv6 ICT equipment

- Information provided by RIPE NCC
 - IPv6 Ready Logo certificate can be required for any device
 - The easiest way for vendors providing the equipment to provide the equipment to prove that it fulfills basic IPv6 requirement

Requirements for IPv6 ICT equipment

- The IPv6 Forum (<http://www.ipv6forum.com>)
 - IPv6 Ready Logo Program (<https://www.ipv6ready.org/>)
 - Committee members
 - President: Latif Ladid
 - Hiroshi Esaki (WIDE, IPv6-PC), Erica Jonshon, Hiroshi Miyata, Yanick
 - Define the test specifications for IPv6 conformance and interoperability testing
 - Provide self-test tools and deliver the IPv6 Ready Logo



IPv6 Ready Logo Program Approved List

- <https://www.ipv6ready.org/db/index.php/public/?o=4>

[25 | 50 | ALL]

Logo ID ▲▼	Approved Date ▲▼	Application Phase ▲▼	Test Category ▲▼	Vendor Name ▲▼	Region/Country Name ▲▼	Product Name	Product Version
02-C-001483	2016/05/18	Phase-2	Core Protocols	Beijing Topsec Network Security Technology Co.,Ltd	CN	TopSec Network Intrusion Detection System TopSentry3000(G) /TopSentry3000(10G)	V3
02-C-001482	2016/05/14	Phase-2	Core Protocols	VMware Inc.	US	VMware ESXi 6.0.0	ESXi 6.0.0
02-E-000119	2016/05/14	Phase-2	CE Router	Technicolor	BR	TC7300.B0	IPv6 Stack Version 1.2.3
02-C-001481	2016/05/10	Phase-2	Core Protocols	DHC Software Co. Ltd.	CN	DHC Application Delivery System	V200R0100B201402
02-C-001480	2016/05/08	Phase-2	Core Protocols	Brocade Communications Systems, Inc.	US	Brocade ICX Series	Fast Iron v8.0.40
02-C-001479	2016/05/08	Phase-2	Core Protocols	TP-LINK TECHNOLOGIES CO.,LTD	CN	Archer C8/Archer C9/Archer C1900/Archer C3150/Archer C5400/TD965W /TX-W6961N/Archer D9/Archer MR200/Archer C2600(Charter)/Archer C1200	2.3.36
02-C-001478	2016/05/05	Phase-2	Core Protocols	EFI	US	Fiery NX Premium	NX Premium
02-C-001477	2016/05/05	Phase-2	Core Protocols	EFI	US	Fiery NX Pro	NX Pro
02-C-001476	2016/05/05	Phase-2	Core Protocols	EFI	US	Fiery XB	Fiery XB
02-C-001475	2016/04/30	Phase-2	Core Protocols	Cisco Systems	US	Cisco MDS9250i, Cisco MDS9396S, Cisco MDS9148S	7.3(0)D1(1)
02-C-001474	2016/04/29	Phase-2	Core Protocols	Centre for Development of Telematics	IN	CDOT DWDM	1.0

Case: Japan

- IPv6 Ready Logo 認証 (certification) Centre
 - <http://ipv6.jate.jp/ready>
 - Japan Approvals Institute for Telecommunications Equipment (JATE)
 - An incorporated association established
 - An ex-Agency under Ministry of Internal Affairs and Communications
 - Aligned with The IPv6 Forum

Case: Japan

<http://ipv6.jate.jp/ready>

一般財団法人 電気通信端末機器審査協会 JATE
Japan Approvals Institute for Telecommunications Equipment

IPv6 Ready Logo 認証

メニュー

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ホーム » 日本IPv6認証センター » IPv6 Ready Logo翻訳情報

IPv6 Ready Logo Program翻訳情報

当ページについて

当サイトでは、IPv6 Ready Logoに関する情報の日本語環境を提供するためにIPv6 Ready Logo ProgramのWebサイトをJATEが必要が高いものから翻訳しています。

IPv6 Ready Logo Programに関する情報の原本はあくまでも英文サイトであり、翻訳が原因で生じる一切の事象に対してJATEは責任を負いかねますのでご了承ください。

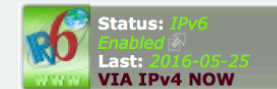
コンテンツ

- お知らせ・新着情報

IPv6 Ready Logo Programに関するお知らせや最新情報を提供しています。

- ログプログラムについて

あなたがお使いのIPアドレスは
203.113.60.182 です。



ID: W1-JP-00000652

IPv4枯渇時計

▼現在の状況(地域別)

枯渇予想日とブロック残数
(/8単位)

AfriNIC	2018/04/10	1.62
APNIC	2011/04/15	0.54
ARIN	2015/09/24	0
LACNIC	2014/06/10	0.38
RIPE NCC	2012/09/14	0.94

iNetCore via IPv4

Case: India

- Telecommunication Engineering Centre
 - Ministry of Communications and Information Technology
 - Department of Telecommunications Government of India
 - <http://www.tec.gov.in/ready-logo-program/>
 - Aligned with The IPv6 Forum

Case: India

<http://www.tec.gov.in/ready-logo-program/>



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TEC > Ready Logo Program

Ready Logo Program

The IPv6 Forum, a world-wide consortium, with a key focus to provide technical guidance for the deployment of IPv6, launched a single world-wide IPv6 Ready Logo Program (conformance and interoperability testing). The IPv6 Ready Logo Program is a conformance and interoperability testing program intended to increase user confidence by demonstrating that IPv6 is available now and ready to be used.

The IPv6 Forum has created the IPv6 Ready Logo Committee (v6LC), to manage the IPv6 Ready Logo Program. It comprises representatives from equipment vendors, service providers, academic institutions, IPv6 organizations, members from IPv6 Ready Logo approved labs.

IPv6 Ready Logo Phase Series – Phase-1 (Concluded) and Phase-2.

The IPv6 Ready Logo series of tests were progressively enriched, from a minimum coverage with Phase-1 to a more complete coverage with the Phase-2.

- Phase 1 (Silver) Logo (Concluded): This Phase-1 logo has been concluded November 2011. This Logo indicated that the product includes IPv6 mandatory core protocols and can interoperate with other IPv6 implementations

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Core Divisions

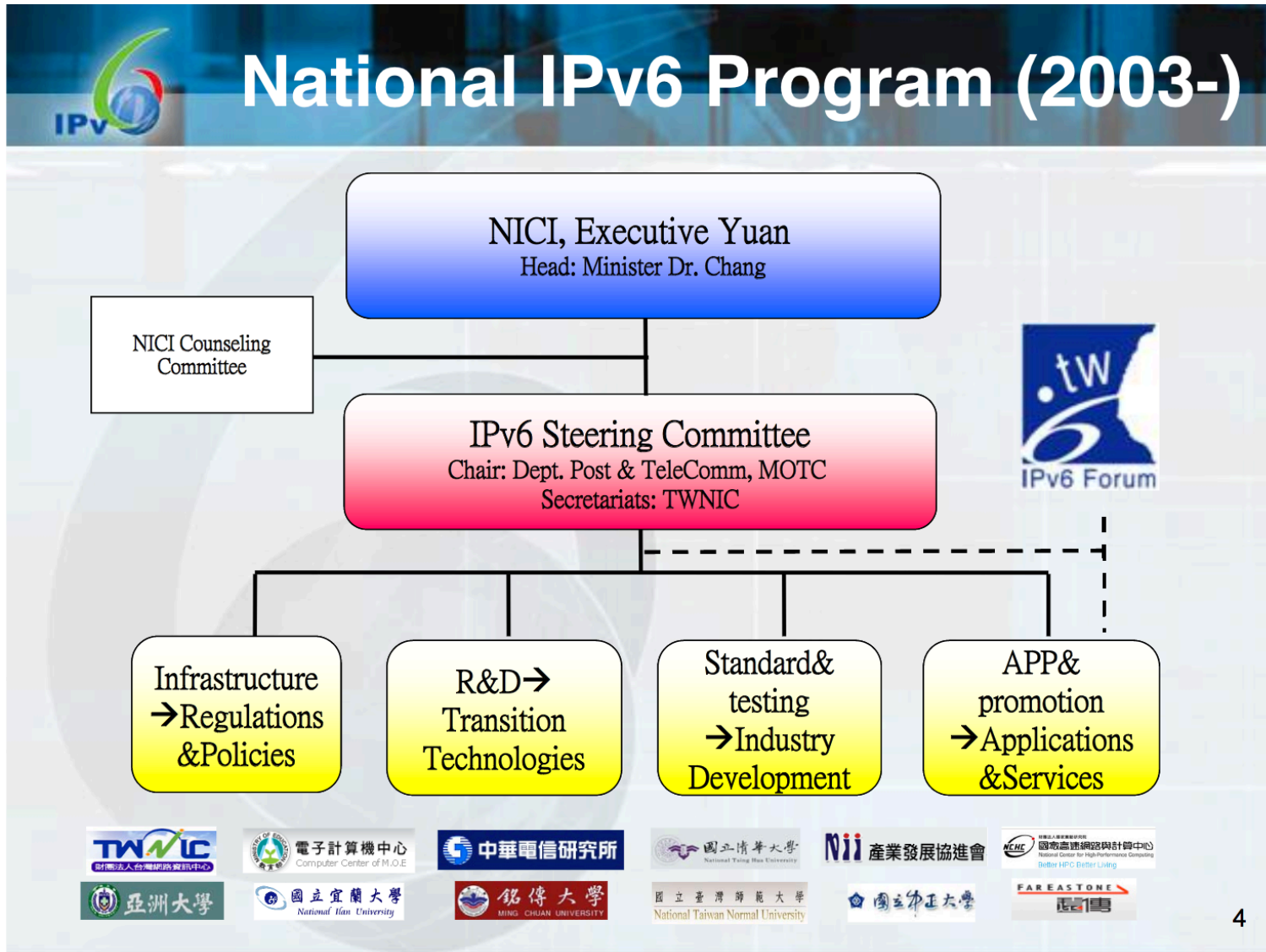
- > Fixed Access (FA)
- > Future Networks (FN)
- > Information Technology (IT)

- > Certification Procedure Forms
- > Network Conformity Standards System & Procedures
- > Conformity Assessment
- > M2M / IoT Reports
- > News Letter
- > Hindi Sancharika
- > Study Papers / White Papers
- > Books and Documents Rates
- > Right to Information Act
- > Tenders Awarded
- > Citizens Charter

Case: Taiwan

- National IPv6 Program (since 2003)
 - Initiative: Ministry of Transportation and Communications of the Republic of China (MOTC)
 - Multi-stakeholder activities
 - Aligned with The IPv6 Forum

Case: Taiwan



Case: Taiwan

IPv6 Ready Logo Certification Testing Lab

D-Link
Building Networks for People

ZyXEL

intel

DNI

TiS

VIVOTEK

ShareTech
眾至資訊股份有限公司
ShareTech Information Co., LTD.

AMBIT
Ambit Microsystems Corporation

corega

ingrasys

R6 READY

O₂Security

ALPHA
明泰科技
Alpha Networks Inc.

GENTRICE
New Telecom Era
顯赫資訊

CAMEO
Networking Built to Order

korenix

Trend Chip

Accton
Making Partnership Work

BILLION

ORing
Designed

BROADCOM

MOXA

Soft MBEDED

鴻海

EDIMAX
NETWORKING PEOPLE TOGETHER

PRIMAX

LEADTEK

Avocent

中華電信研究所IPv6測試實驗室
Chungghwa Telecom Laboratories IPv6 Testing Lab

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Case: Singapore

- iDA
 - Singapore Telecommunications Standards Advisory Committee (TSAC)
 - Singapore Internet Protocol Version 6 (IPv6) Profile (2012)
 - <https://www.ida.gov.sg/~media/Files/PCDG/Licensees/StandardsQoS/RefStandards/IDARSIPv6.pdf>

Case: Singapore

- IPv6 Capabilities Check List

IDA RS IPv6 (Jan 2012)

Annex 1: IPv6 Basic Requirements

IETF Specification	IPv6 Basic Requirements	Residential				Government Agencies & Enterprise				Network Provider			
		Condition	Host	Router	NPD	Condition	Host	Router	NPD	Condition	Host	Router	NPD
RFC2460	IPv6 Specification		M	M			M	M			M	M	M
	IPv6 Packets: send, receive		M	M			M	M			M	M	M
	IPv6 packet forwarding			M				M				M	M
	Extension headers: processing		M	M			M	M			M	M	M
	Hop-by-Hop & unrecognized options		M	M			M	M			M	M	M
	Fragment headers: send, receive, process		M	M			M	M			M	M	M
	Destination Options extensions		M	M			M	M			M	M	M
RFC5095	Deprecation of Type 0 Routing Headers	Managed services	c(O)	c(M)			M	M			M	M	M
RFC2711	IPv6 Router Alert Option			M				M				M	M
RFC4443	ICMPv6		M	M			M	M			M	M	M
RFC4884	Extended ICMP for Multi-Part Messages	Managed services	c(O)	c(O)			S	S			S	S	S
RFC1981	Path MTU Discovery for IPv6		M	M			M	M			M	M	M
	Discovery Protocol Requirements		M	M			M	M			M	M	M
RFC2675	IPv6 Jumbograms		O	O		Configurable high-MTU links	c(O)	c(S)		Configurable high-MTU links	c(O)	c(S)	c(O)
RFC4861	Neighbor Discovery for IPv6		M	M			M	M			M	M	M
	Router Discovery		M	M			M	M			M	M	M
	Prefix Discovery		M	M			M	M			M	M	M
RFC4861	Address Resolution		M	M			M	M			M	M	M