

IPv6 Ready Logo



[www.ipv6ready.org](http://www.ipv6ready.org)

---







***IPv6 Ready Logo Program***

***Contact: [ipv6ready-info@ipv6ready.org](mailto:ipv6ready-info@ipv6ready.org)***





<b>1. EXECUTIVE SUMMARY .....</b>	<b>4</b>
<b>2. IPV6 READY LOGO PROGRAM .....</b>	<b>5</b>
<b>3. IPV6 READY TEST SPECIFICATIONS .....</b>	<b>8</b>
<b>4. IPV6 READY LOGO PHASE SERIES - PHASE-1, PHASE-2 AND PHASE-3 .....</b>	<b>11</b>
4.1. Phase-1 (Silver) Logo  .....	12
4.2. Phase-2 (Gold) Logo  .....	12
4.3. Phase 3 Logo .....	18
4.4. Phase-1  vs Phase-2  Logo .....	18
4.5. Obtaining IPv6 Ready Logo .....	18
<b>5. TERMINOLOGY .....</b>	<b>25</b>
<b>6. IPV6 READY LOGO HISTORY .....</b>	<b>26</b>



## **Acknowledgement**

The IPv6 Forum would like to acknowledge the efforts of Yanick Pouffary (IPv6 Forum Fellow, IPv6 Ready Logo Adviser), Erica Johnson (IPv6 Forum Fellow, IPv6 Ready Logo Regional Officer, University of New Hampshire InterOperability Testing Lab (USA)) and Hiroshi MIYATA (IPv6 Forum Fellow, IPv6 Ready Logo Regional Officer, TAHI Project) for authoring this paper.



## 1. Executive Summary

The main objective of this present document is to describe the IPv6 Forum (<http://www.ipv6forum.com>) IPv6 Ready Logo Program, to describe the IPv6 Ready Test Specifications and IPv6 Ready Logo Phase Series and to provide a FAQ.

The IPv6 Ready (<http://www.ipv6ready.org/>) Logo Program provides conformance and interoperability test specifications based on open standards to support IPv6 deployment across the globe. Effective testing of IPv6 products is of critical importance in ensuring the deployment, interoperability, security and reliability of the IPv6 infrastructure.



## 2. IPv6 Ready Logo Program

The IPv6 Forum (<http://www.ipv6forum.com>), 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 the TAHI Project (Japan), the University of New Hampshire Interoperability UNH Testing Lab (USA), IRISA/INRIA (France), European Telecommunications standardization Institute ETSI (Europe), Telecommunication Technology Association TTA (Korea), Beijing Internet Institute BII (China), ChungHwa Telecom Labs CHT-TL (Taiwan) and Japan Approvals Institute for Telecommunications Equipment JATE (Japan).





The IPv6 Ready Logo Committee mission is to define the test specifications for IPv6 conformance and interoperability testing, to provide access to self-test tools and to deliver the IPv6 Ready Logo.

The key objectives and benefits of the IPv6 Ready Logo Program are to:

- Verify protocol implementation and validate interoperability of IPv6 products.
- Provide access to self-testing tools.
- Provide IPv6 Ready Logo testing laboratories across the globe.

The **IPv6 Ready Logo Committee** is structured as follows:

- IPv6 Forum President, Latif Ladid and IPv6 Forum Chief Technology Officer, [In Memoriam](#) Jim Bound.
- IPv6 Forum (Ready/Enabled) Logo Programs Chairperson, Yanick Pouffary @ IPv6 Forum Fellow
- IPv6 Ready Logo Committee Chairperson, Hiroshi Esaki @ WIDE Project/v6PC
  - Market: Hiroshi Esaki @ WIDE Project/v6PC
  - Legal: Philippe Cousin @ ETSI
  - Operational: Cesar Viho @ IRISA
  - Technical: Hiroshi Miyata @ TAHI Project
  - Advisor: Yanick Pouffary @ IPv6 Forum Fellow
- IPv6 Ready Logo Regional Officers:
  - Cesar Viho @ IRISA (Europe)
  - Erica Johnson @ UNH-IOL (North America)
  - Hiroshi Miyata @ TAHI Project (Asia)

The members of the **IPv6 Ready Logo Administrative Group** are responsible for:

- Defining procedures, regulations and steps for the IPv6 Ready Logo Program.
- Defining the strategy for deploying the IPv6 Ready Logo Program
- Administering the right to use the IPv6 Ready Logos for products.



The **IPv6 Ready Logo ID data base** and the **IPv6 Ready Logo Web site** are administered by v6PC Certification WG

The members of the **IPv6 Ready Logo Technical Group** are responsible for:

- Defining Test specifications
- Submitting those specifications to the **IPv6 Ready Logo Administrative Group** so that it can be published for public review.
- Updating Test specifications according to its published "Document update policy".

[http://www.ipv6ready.org/docs/v6LC\\_Test\\_Specification\\_Maintenance\\_Procedure\\_latest.pdf](http://www.ipv6ready.org/docs/v6LC_Test_Specification_Maintenance_Procedure_latest.pdf)

- Technical examination of Vendors Applications.

Future IPv6 Ready Logo test specifications are developed by IPv6 Ready Logo Technical Group. Final approval of new test specifications is done by the IPv6 Ready Logo Committee Chairperson, the IPv6 Forum President and IPv6 Forum Chief Technology Officer.

The IPv6 Ready Logo Committee welcomes the contribution of organizations to assist vendors with the IPv6 Ready Logo testing and application requirements. The process to become a member of the "IPv6 Ready Logo Program IPv6 Logo Committee" and/or an Approved Test Laboratories. The document is currently under the review of the Logo Committee. Please note that approval for **IPv6 Ready Logo Committee membership** and **Approved Test Laboratories** is done by the IPv6 Ready Logo Committee Chairperson, the IPv6 Forum President and IPv6 Forum Chief Technology Officer.

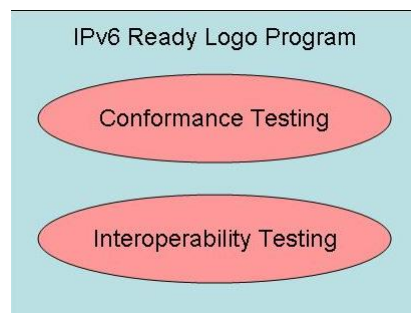
In order to maintain credibility and neutral services among vendors and users, the member organizations and Approved Laboratories that support IPv6 Ready Logo Committee functions operates according to the IPv6 Ready Logo Program Code of Conduct [http://www.ipv6ready.org/docs/v6LC\\_Code\\_of\\_Conduct.pdf](http://www.ipv6ready.org/docs/v6LC_Code_of_Conduct.pdf) and are tied by a signed Non Disclosure Commitment.



### 3. IPv6 Ready Test Specifications

The IPv6 Ready Logo test specifications are the result of technical consensus between the IPv6 Ready Logo Program Committee members and industry review.

The series of tests defined as part of the IPv6 Ready Logo test specifications suite can be divided into two types of tests: conformance and interoperability.



The conformance test aims at validating a product to IETF RFCs (a conformance test for a protocol may deal with several RFCs). This is accomplished through specific tools, which emulates a network of reference for the tested product. The protocol for a test is analyzed for each of the specifications functional assertions and the conformance test verifies the implementation profile reference of the protocol.

The interoperability test is realized in a lab environment, and the tested product is interconnected with other IPv6 Ready Logo-ed products supporting typical configurations. The developed scenarios aim at verifying if the product is able to interact with other IPv6 Ready Logo-ed products of different origins.



The IPv6 Ready Logo test specifications are developed by the following technical labs:

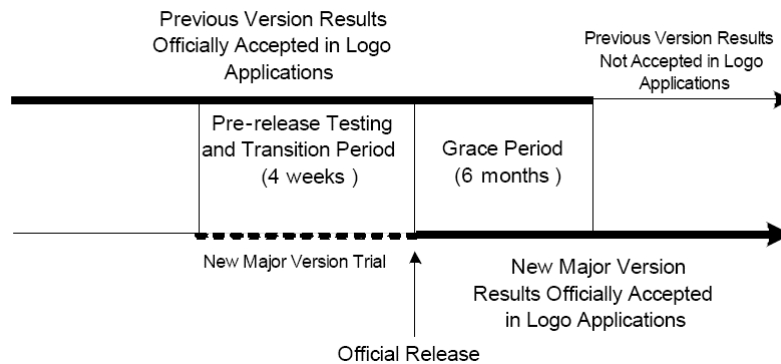
- TAHI Project – Japan – <http://www.tahi.org/>
- UNH – IOL – University of New Hampshire InterOperability Lab - IPv6 <http://www.iol.unh.edu/services/testing/ipv6/>
- IRISA – France – European Laboratory for Interoperability testing Internet protocols and supporting the IPv6 Ready Logo program <http://www.irisa.fr/tipi/>
- CHT-TL ChungHwa Telecom Labs - Taiwan – IPv6 Testing Lab - ChungHwa Telecom Labs. <http://interop.ipv6.org.tw/>
- BII – Beijing Internet Institute – China – IPv6 Ready Logo testing Lab - <http://www.ipv6ready.org.cn/>
- TTA - Korea - Telecommunication Technology Association - IPv6 <http://www.tta.or.kr/English/new/main/index.htm>
- JATE – Japan Approvals Institute for Telecommunications Equipment <http://www.jate.or.jp/english/index.html>

The test specifications are then published and distributed for public review and updated accordingly. Updates to the IPv6 Ready Logo program test specifications (and corresponding test tools) are done according to the IPv6 Ready Logo Program "IPv6 Ready Logo Committee Test Suite Maintenance Procedure Document". The document introduces the concept of “major version”, “major revision” and “minor revision”. “Major version” update occurs when an RFC has been revised or when additional tests coverage are introduced that changes the compatibility with the previous version, and “Minor revision” update is related to normal maintenance of the document (bug fixes for example). If there are no major releases required updates to the document occur in May and November of each year (every 6 months).

Once a new Major Version test specification is released, the applicant has a grace period of 6 months to continue using the former test specification. This is to ensure proper notice for implementers to abide by the new test specification. Likewise, applicants have a grace period of 4 weeks after the release of a Major Revision or Minor Revision to continue to use the former test specifications.



Please refer to [http://www.ipv6ready.org/docs/v6LC\\_Test\\_Specification\\_Maintenance\\_Procedure\\_latest.pdf](http://www.ipv6ready.org/docs/v6LC_Test_Specification_Maintenance_Procedure_latest.pdf)



The IPv6 Ready Logo self test specifications are free of charge and available for download at <http://www.ipv6ready.org>. The self tests suite are based on the IPv6 Ready Logo test specifications and are provided by TAHI Project free of charge and available for download at <http://www.tahi.org/logo/phase2-core/>

The **IPv6 Ready Logo Program** approved the following Testing Laboratories:

- TTA (KOREA)
- BII (CHINA)
- CHT-TL (TAIWAN)
- IRISA (EUROPE)
- UNH-IOL (US)
- JATE (Japan)

There may be a fee associated with this testing service.

Industry organized Interoperability testing events where IPv6 interoperability can be validated:

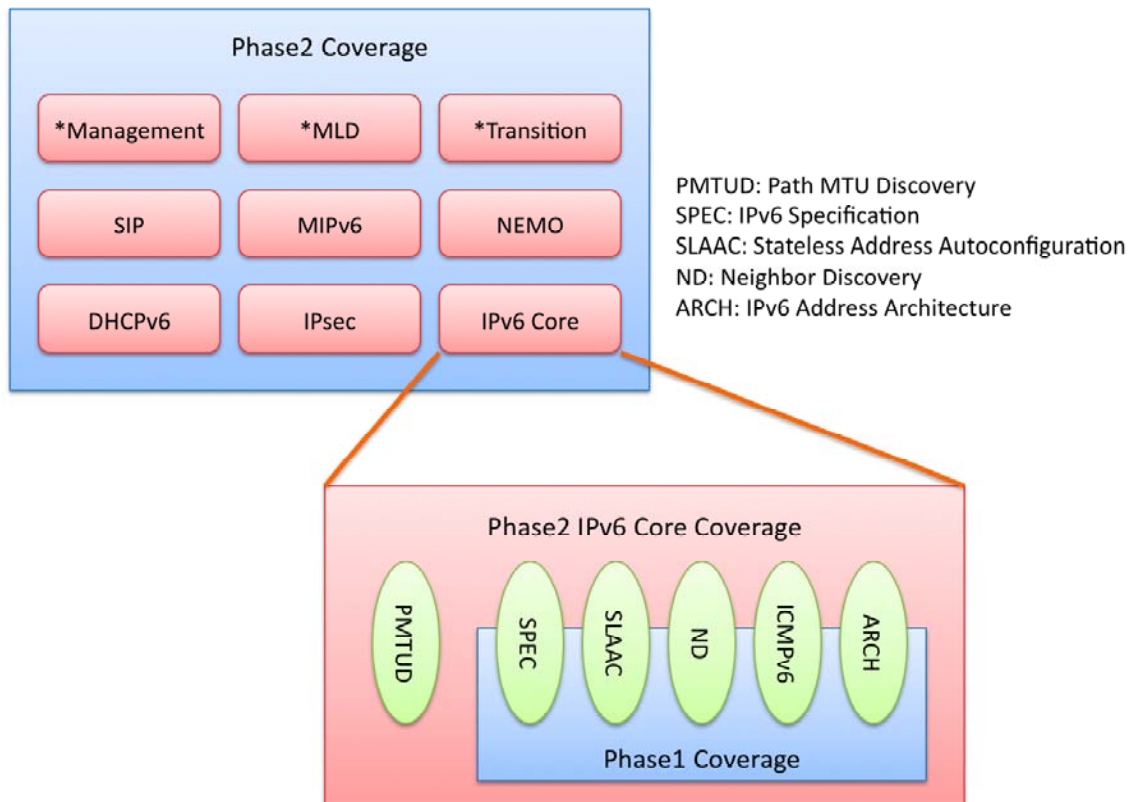
- UNH-IOL Test Events (<http://www.iol.unh.edu/pressroom/events/>)
- PLUGTEST/ETSI (<http://www.etsi.org/Website/OurServices/Plugtests/home.aspx>)
- TAHI interoperability test event (<http://www.tahi.org/>)



#### 4. IPv6 Ready Logo Phase Series - Phase-1, Phase-2 and Phase-3

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 and later on with Phase-3.


The image below describes the scope for Phase-1 and Phase-2 of the IPv6 Ready Logo Program.





#### 4.1. Phase-1 (Silver) Logo



The Phase-1 Logo  focuses on "core IPv6 protocols". Its objective is to verify minimum IPv6 support. The logo background color is silver.

The test coverage is approximately 170 tests as specified on page 16 of the IPv6 Core Protocols Test specification

[http://www.ipv6ready.org/docs/Core\\_Conformance\\_Latest.pdf](http://www.ipv6ready.org/docs/Core_Conformance_Latest.pdf)


[http://www.ipv6ready.org/docs/Core\\_Interoperability\\_Latest.pdf](http://www.ipv6ready.org/docs/Core_Interoperability_Latest.pdf)

This Phase-1 logo has been available since September 1 2003.

More information can be found at <http://www.ipv6ready.org/?page=phase-1>

#### 4.2. Phase-2 (Gold) Logo



The Phase-2 logo  expands the "core IPv6 protocols" test coverage to approximately 450 tests and adds new extended test categories. The logo background color is gold.

- Test specification for IPv6 Core Protocols:  
[http://www.ipv6ready.org/docs/Core\\_Conformance\\_Latest.pdf](http://www.ipv6ready.org/docs/Core_Conformance_Latest.pdf)
- Test interoperability specification base document  
[http://www.ipv6ready.org/docs/Core\\_Interoperability\\_Latest.pdf](http://www.ipv6ready.org/docs/Core_Interoperability_Latest.pdf)
- Test interoperability specification appendix  
[http://www.ipv6ready.org/docs/Core\\_Interoperability\\_Appendix\\_Latest.pdf](http://www.ipv6ready.org/docs/Core_Interoperability_Appendix_Latest.pdf)



- Test tools for self-test (TAHI Project)

<http://www.tahi.org/logo/phase2-core/>

The Phase-2 logo extended test categories are:

- IPsec
- MIPv6
- NEMO
- DHCPv6
- SIP
- Management (SNMPv2)
- IMS UE (TRIAL)
- MLD (under development)

Obtaining the Phase-2 IPv6 Ready Core Logo is a prerequisite before obtaining extended test categories. You cannot obtain the Phase-2 logo for extended protocol features just by meeting the requirements of that extended test category.

The Phase-2 logo test and extended test specifications, the interoperability test specifications documents and self-test tools are available at <http://www.ipv6ready.org/?page=phase-2-tech-info>.

#### IPsec

- Test specification  
[http://www.ipv6ready.org/docs/Phase2\\_IPsec\\_Conformance\\_Latest.pdf](http://www.ipv6ready.org/docs/Phase2_IPsec_Conformance_Latest.pdf)
- Test interoperability specification  
[http://www.ipv6ready.org/docs/Phase2\\_IPsec\\_Interoperability\\_Latest.pdf](http://www.ipv6ready.org/docs/Phase2_IPsec_Interoperability_Latest.pdf)
- Test tools for self-test (IPv6PC/TAHI Project) <http://www.tahi.org/logo/ipsec/>



## IKEv2

- Phase-2 IKEv2 Guidelines for Implementation  
[http://www.ipv6ready.org/docs/Phase2\\_IKEv2\\_Guidelines\\_Latest.pdf](http://www.ipv6ready.org/docs/Phase2_IKEv2_Guidelines_Latest.pdf)
- Appendix-A (EAP-MD5)  
[http://www.ipv6ready.org/docs/Phase2\\_IKEv2\\_Appendix\\_A\\_EAP-MD5\\_Latest.pdf](http://www.ipv6ready.org/docs/Phase2_IKEv2_Appendix_A_EAP-MD5_Latest.pdf)
- Appendix-B (EAP-TLS)  
[http://www.ipv6ready.org/docs/Phase2\\_IKEv2\\_Appendix\\_B\\_EAP-TLS\\_Latest.pdf](http://www.ipv6ready.org/docs/Phase2_IKEv2_Appendix_B_EAP-TLS_Latest.pdf)
- Test Specification  
[http://www.ipv6ready.org/docs/Phase2\\_IKEv2\\_Conformance\\_Latest.pdf](http://www.ipv6ready.org/docs/Phase2_IKEv2_Conformance_Latest.pdf)
- Interoperability Test Scenario  
[http://www.ipv6ready.org/docs/Phase2\\_IKEv2\\_Interoperability\\_Latest.pdf](http://www.ipv6ready.org/docs/Phase2_IKEv2_Interoperability_Latest.pdf)
- Test Tools (IPv6PC/TAHI Project)  
<http://cert.v6pc.jp/ikev2/>

## MIPv6

- Phase-2 Policy  
[http://www.ipv6ready.org/docs/Phase2\\_MIPv6\\_Policy\\_Latest.pdf](http://www.ipv6ready.org/docs/Phase2_MIPv6_Policy_Latest.pdf)
- Phase-2 Policy Appendix  
[http://www.ipv6ready.org/docs/Phase2\\_MIPv6\\_Policy\\_Appendix\\_Latest.html](http://www.ipv6ready.org/docs/Phase2_MIPv6_Policy_Appendix_Latest.html)
- Test Specification Profile  
[http://www.ipv6ready.org/docs/Phase2\\_MIPv6\\_Profile\\_Latest.pdf](http://www.ipv6ready.org/docs/Phase2_MIPv6_Profile_Latest.pdf)
- Test Specification Correspondent Node (CN)  
[http://www.ipv6ready.org/docs/Phase2\\_MIPv6\\_Conformance\\_CN\\_Latest.pdf](http://www.ipv6ready.org/docs/Phase2_MIPv6_Conformance_CN_Latest.pdf)
- Test Specification Home Agent (HA)  
[http://www.ipv6ready.org/docs/Phase2\\_MIPv6\\_Conformance\\_HA\\_Latest.pdf](http://www.ipv6ready.org/docs/Phase2_MIPv6_Conformance_HA_Latest.pdf)
- Test Specification Mobile Node (MN)  
[http://www.ipv6ready.org/docs/Phase2\\_MIPv6\\_Conformance\\_MN\\_Latest.pdf](http://www.ipv6ready.org/docs/Phase2_MIPv6_Conformance_MN_Latest.pdf)
- Interoperability test Specification



[http://www.ipv6ready.org/docs/Phase2\\_MIPv6\\_Interoperability\\_Latest.pdf](http://www.ipv6ready.org/docs/Phase2_MIPv6_Interoperability_Latest.pdf)

- Test tools for self-test (IPv6PC/TAHI Project) <http://www.tahi.org/mipv6/phase2/>

## NEMO

- Phase-2 Policy

[http://www.ipv6ready.org/docs/Phase2\\_NEMO\\_Policy\\_Latest.pdf](http://www.ipv6ready.org/docs/Phase2_NEMO_Policy_Latest.pdf)

- Phase-2 Policy Appendix

[http://www.ipv6ready.org/docs/Phase2\\_NEMO\\_Policy\\_Appendix\\_Latest.pdf](http://www.ipv6ready.org/docs/Phase2_NEMO_Policy_Appendix_Latest.pdf)

- Test Specification Profile

[http://www.ipv6ready.org/docs/Phase2\\_NEMO\\_Profile\\_Latest.pdf](http://www.ipv6ready.org/docs/Phase2_NEMO_Profile_Latest.pdf)

- Test Specification Home Agent (HA)

[http://www.ipv6ready.org/docs/Phase2\\_NEMO\\_Conformance\\_HA\\_Latest.pdf](http://www.ipv6ready.org/docs/Phase2_NEMO_Conformance_HA_Latest.pdf)

- Test Specification Mobile Router (MR)

[http://www.ipv6ready.org/docs/Phase2\\_NEMO\\_Conformance\\_MR\\_Latest.pdf](http://www.ipv6ready.org/docs/Phase2_NEMO_Conformance_MR_Latest.pdf)

- Interoperability Test Specification

[http://www.ipv6ready.org/docs/Phase2\\_NEMO\\_Interoperability\\_Latest.pdf](http://www.ipv6ready.org/docs/Phase2_NEMO_Interoperability_Latest.pdf)

- Test tools for self-test (IPv6PC/TAHI Project)

<http://cert.v6pc.jp/nemo/phase2/index.html>

## DHCPv6

- Test specification

[http://www.ipv6ready.org/docs/Phase2\\_DHCPv6\\_Conformance\\_Latest.pdf](http://www.ipv6ready.org/docs/Phase2_DHCPv6_Conformance_Latest.pdf)

- Test interoperability specification

[http://www.ipv6ready.org/docs/Phase2\\_DHCPv6\\_Interoperability\\_Latest.pdf](http://www.ipv6ready.org/docs/Phase2_DHCPv6_Interoperability_Latest.pdf)

- Test tools for self-test (IPv6PC/TAHI Project) <http://www.tahi.org/logo/dhcpv6>

## SIP



- Phase-2 Policy  
[http://www.ipv6ready.org/docs/Phase2\\_SIP\\_Policy\\_Latest.pdf](http://www.ipv6ready.org/docs/Phase2_SIP_Policy_Latest.pdf)
- SIP UA Conformance Test Profile  
[http://www.ipv6ready.org/docs/Phase2\\_SIP\\_Conformance\\_UA\\_Latest.pdf](http://www.ipv6ready.org/docs/Phase2_SIP_Conformance_UA_Latest.pdf)
- SIP Server Conformance Test Profile  
[http://www.ipv6ready.org/docs/Phase2\\_SIP\\_Conformance\\_Server\\_Latest.pdf](http://www.ipv6ready.org/docs/Phase2_SIP_Conformance_Server_Latest.pdf)
- SIP Test item priority for UA  
[http://www.ipv6ready.org/docs/Phase2\\_SIP\\_Test\\_Item\\_Priority\\_UA\\_Latest.pdf](http://www.ipv6ready.org/docs/Phase2_SIP_Test_Item_Priority_UA_Latest.pdf)
- SIP Test item priority for Server  
[http://www.ipv6ready.org/docs/Phase2\\_SIP\\_Test\\_Item\\_Priority\\_Server\\_Latest.pdf](http://www.ipv6ready.org/docs/Phase2_SIP_Test_Item_Priority_Server_Latest.pdf)
- Explanation of submission  
[http://www.ipv6ready.org/docs/Phase2\\_SIP\\_Explanation\\_Submission\\_Latest.pdf](http://www.ipv6ready.org/docs/Phase2_SIP_Explanation_Submission_Latest.pdf)
- SIP IPv6 Interoperability Test scenario  
[http://www.ipv6ready.org/docs/Phase2\\_SIP\\_Interoperability\\_Latest.pdf](http://www.ipv6ready.org/docs/Phase2_SIP_Interoperability_Latest.pdf)
- Test tools for self-test (IPv6PC/TAHI Project)  
<http://cert.v6pc.jp/sip-ipv6/ipv6ready/>

#### SNMPv2

- Test Specification  
[http://www.ipv6ready.org/docs/Phase2\\_SNMPv2\\_Conformance\\_Latest.pdf](http://www.ipv6ready.org/docs/Phase2_SNMPv2_Conformance_Latest.pdf)
- Test Interoperability specification  
[http://www.ipv6ready.org/docs/Phase2\\_SNMPv2\\_Interoperability\\_Latest.pdf](http://www.ipv6ready.org/docs/Phase2_SNMPv2_Interoperability_Latest.pdf)
- Test tools for self-test (CHT-TL)  
<http://interop.ipv6.org.tw/snmp/>

#### IMS UE (TRIAL)

- Test Specification  
[http://www.ipv6ready.org/docs/Phase2\\_IMS\\_UE\\_Conformance\\_Latest.pdf](http://www.ipv6ready.org/docs/Phase2_IMS_UE_Conformance_Latest.pdf)
- Test Interoperability specification



[http://www.ipv6ready.org/docs/Phase2\\_IMS\\_UE\\_Interoperability\\_Latest.pdf](http://www.ipv6ready.org/docs/Phase2_IMS_UE_Interoperability_Latest.pdf)

- IMS UE Policy  
[http://www.ipv6ready.org/docs/Phase2\\_IMS\\_UE\\_Policy\\_Latest.pdf](http://www.ipv6ready.org/docs/Phase2_IMS_UE_Policy_Latest.pdf)
- Conformance Test Profile Index  
[http://www.ipv6ready.org/docs/Phase2\\_IMS\\_UE\\_Profile\\_Latest.pdf](http://www.ipv6ready.org/docs/Phase2_IMS_UE_Profile_Latest.pdf)
- Interoperability Scenario Check List  
[http://www.ipv6ready.org/docs/Phase2\\_IMS\\_UE\\_Interoperability\\_Checklist\\_Latest.pdf](http://www.ipv6ready.org/docs/Phase2_IMS_UE_Interoperability_Checklist_Latest.pdf)
- Test tools for self-test (IPv6PC/TAHI Project)  
<http://cert.v6pc.jp/ims-ipv6/ue6/ipv6ready/index.html>

The following bulleted list describes examples of possible IPv6 Ready Phase-2 logo combinations:

- IPv6 Core Protocols
- IPv6 Core Protocols + IPsec
- IPv6 Core Protocols + MIPv6
- IPv6 Core Protocols + IPsec + MIPv6
- IPv6 Core Protocols + DHCPv6 + MIPv6
- IPv6 Core Protocols + SIP

The following bulleted list describes examples of when you **cannot** obtain the Phase-2 logo:

- IPsec only
- MIPv6 only
- DHCPv6 only
- SIP only
- IPsec + MIPv6 only
- Etc.



This Phase-2 logo has been available since February 16th 2005,

More information can be found at <http://www.ipv6ready.org/?page=phase-2-about>

#### **4.3. Phase 3 Logo**

The Phase-3 Logo, being planned now, will be the same as the Phase 2 Logo in terms of content, except that the extended test category for IPsec will be mandatory.

Phase-3 start date is TBD.



#### **4.4. Phase-1 vs Phase-2 Logo**

The IPv6 Forum strongly encourages vendors to obtain the IPv6 Ready Logo Phase-2



(Gold logo).

The Phase-2 Gold logo verifies optimum compliance because of the complete series of tests including the “MUST” and the recommended “SHOULD” for the IETF specifications tested.

The Phase-1 Silver Logo tests include only the “MUST” requirements in the IETF specification and are less extensive.

#### **4.5. Obtaining IPv6 Ready Logo**

The process for obtaining the IPv6 Ready Logo (Phase-1 or Phase-2) is basically the same. The tested product needs to pass 100% each of the appropriate conformance and interoperability test assertions.



1. Download the test specifications from the IPv6 Ready Logo web site.
2. Either download the self-testing tools and interoperability test scenarios and execute them against your product; or submit your product to one of the IPv6 Ready Logo Recognized laboratories for testing.
3. Gather the complete test result log from either 1) the self-testing tool and interoperability test you conducted or 2) an IPv6 Ready testing laboratory. (If you are a participant of an interoperability test event, you can use the event test logs at the event as the interoperability test log<sup>1</sup>)
4. Fill out the Application Form:
  - Application Form (IPv6CoreProtocols)  
[http://www.ipv6ready.org/docs/app\\_form\\_Core.txt](http://www.ipv6ready.org/docs/app_form_Core.txt)
  - Application Form (IPsec)  
[http://www.ipv6ready.org/docs/app\\_form\\_Phase2\\_IPsec.txt](http://www.ipv6ready.org/docs/app_form_Phase2_IPsec.txt)
  - Application Form (IKEv2)  
[http://www.ipv6ready.org/docs/app\\_form\\_Phase2\\_IKEv2.txt](http://www.ipv6ready.org/docs/app_form_Phase2_IKEv2.txt)
  - Application Form (MIPv6 CN)  
[http://www.ipv6ready.org/docs/app\\_form\\_Phase2\\_MIPv6\\_CN.txt](http://www.ipv6ready.org/docs/app_form_Phase2_MIPv6_CN.txt)
  - Application Form (MIPv6 HA)  
[http://www.ipv6ready.org/docs/app\\_form\\_Phase2\\_MIPv6\\_HA.txt](http://www.ipv6ready.org/docs/app_form_Phase2_MIPv6_HA.txt)
  - Application Form (MIPv6 MN)  
[http://www.ipv6ready.org/docs/app\\_form\\_Phase2\\_MIPv6\\_MN.txt](http://www.ipv6ready.org/docs/app_form_Phase2_MIPv6_MN.txt)
  - Application Form (NEMO HA)  
[http://www.ipv6ready.org/docs/app\\_form\\_Phase2\\_NEMO\\_HA.txt](http://www.ipv6ready.org/docs/app_form_Phase2_NEMO_HA.txt)
  - Application Form (NEMO MR)  
[http://www.ipv6ready.org/docs/app\\_form\\_Phase2\\_NEMO\\_MR.txt](http://www.ipv6ready.org/docs/app_form_Phase2_NEMO_MR.txt)

---

<sup>1</sup> The participation to Interoperability event is not mandatory.



- Application Form (DHCPv6)  
[http://www.ipv6ready.org/docs/app\\_form\\_Phase2\\_DHCPv6.txt](http://www.ipv6ready.org/docs/app_form_Phase2_DHCPv6.txt)
  - Application Form (SNMP)  
[http://www.ipv6ready.org/docs/app\\_form\\_Phase2\\_SNMP.txt](http://www.ipv6ready.org/docs/app_form_Phase2_SNMP.txt)
  - Application Form (SIP Server)  
[http://www.ipv6ready.org/docs/app\\_form\\_Phase2\\_SIP-IPv6\\_Server.txt](http://www.ipv6ready.org/docs/app_form_Phase2_SIP-IPv6_Server.txt)
  - Application Form (SIP UA)  
[http://www.ipv6ready.org/docs/app\\_form\\_Phase2\\_SIP-IPv6\\_UA.txt](http://www.ipv6ready.org/docs/app_form_Phase2_SIP-IPv6_UA.txt)
5. Submit the Application Form and the test log<sup>2</sup> to [v6-appli@ipv6ready.org](mailto:v6-appli@ipv6ready.org) by e-mail<sup>3</sup>
  6. You will receive an Application ID for an acknowledgement and a URL of the Usage Agreement Confirmation page.
  7. You must complete the Usage Agreement [http://www.ipv6ready.org/docs/phase-2\\_logo\\_usage\\_agreement.pdf](http://www.ipv6ready.org/docs/phase-2_logo_usage_agreement.pdf) on this page by filling out the entry information and pressing the "apply button" to show your intention of agreement.<sup>4</sup>
  8. The **IPv6 Ready Logo Examiner** on the IPv6 Ready Logo Technical Group will contact you in order to guide the examination process of your application.
  9. Examination will be started by the **IPv6 Ready Logo Examiner**. If the applicant does not get any response within 1 month (2 weeks for Phase-1), please send mail to [ipv6ready-info@ipv6ready.org](mailto:ipv6ready-info@ipv6ready.org).
  10. After review by the IPv6 Ready Logo Technical Group, if the tested product passes 100% of the appropriate conformance and interoperability test assertions the IPv6 Forum Logo Regional Officers assign a Logo ID and authorize the usage of the IPv6 Ready Logo.
  11. Approved information of this application will be put on the approval website.

---

<sup>2</sup> The test evidence should include the following items: Configuration, Command result, Test result, Packet dump file and Others (If required)

<sup>3</sup> You can also send the test log via the web page, if your log is too big to be via e-mail.  
[http://cf.v6pc.jp/application/app\\_files.php](http://cf.v6pc.jp/application/app_files.php)

<sup>4</sup> If you don't agree with this Usage Agreement, we can't approve your usage of the IPv6 Ready Logo.



Each applicant will receive an IPv6 Ready Logo ID to identify their approved Logo.

The **IPv6 Ready Logo ID** includes: Serial Number and, approved functional component(s).

**The Phase-1 Logo ID** format is as follow:

{Phase(2digits)}-{serial\_number(6digits)}

Phase: "01"

serial\_number: World wide unique serial number (6 digits)

Example: Phase-1 Logo ID: "01-000123"

**The Phase-2 Logo ID** format is as follow:

{Phase(2digits)}-[[additional\_info]]-{serial\_number(6digits)}

Phase: "02"

additional\_info: Variable length.

Each character indicates an extended test category.

Each character can be combined.

C: for IPv6 Core Protocol

S: for IPsec

M: for MIPv6

N: for NEN0

D: for DHCPv6

P: for SIP

serial\_number : World wide unique serial number (6 digits)

Examples:

Phase-2 Logo ID for core 02-C-000123.

Phase-2 Logo ID for core, IPsec MIPv6 02-CSM-000123"

---



#### IPv6 Ready Logo requirements after a software/hardware product version update

- If a new product version changes the networking stack, the IPv6 Ready Logo Committee requires that the applicant reruns and resubmits both conformance and interoperability tests logs if the new product is to continue to use the already assigned IPv6 Ready Logo ID.
- If the new product version does not change the network stack, vendor can update the registered version by submitting a new application.

**Important:** The IPv6 Ready Logo Committee reserves the right to request for more information from vendors as required. If needed the IPv6 Ready Logo can ask the vendors to re-run the test and submit the test logs.

#### Product series with identical networking stack

- If a series of products uses an identical networking stack, that product series will be accepted with one application, on condition that the network stack is identical across the product family and that it is clearly stated in the application form.

**Important:** The IPv6 Ready Logo Committee reserves the right to request for more information from vendors as required. If needed the IPv6 Ready Logo Committee can ask the vendors to re-run the test and submit the test logs.

#### OEM licensee

- OEM Licensor can extend its IPv6 Ready Logo ID to OEM Licensee. OEM Licensee can register their products with IPv6 Ready Logo Committee without testing as long as there is a one to one IPv6 stack transfer is certified by OEM Licensor. At this time, Applicant must specify the original product name and Logo ID on the bottom of the application form.
  - The associated OEM Logo ID is always stated on the Logo website as part of their approval. This means that the applicant would have their own accepted Logo ID public on the website.
- If the OEM licensee does not wish to make this agreement known and wish to obtain its own IPv6 Ready Logo ID, they must run and submit both conformance and interoperability tests logs as for any products.

The lists of products approved for the IPv6 Ready Logo are published on the IPv6 Ready Logo Web page.

---



[http://www.ipv6ready.org/phase-1\\_approved\\_list](http://www.ipv6ready.org/phase-1_approved_list)

On August 1 2006: 246 products with IPv6 Ready Logo Phase-1.

On November 12 2007: 321 products with IPv6 Ready Logo Phase-1.

On August 28 2008: 363 products with IPv6 Ready Logo Phase-1.

On June 30, 2009: 393 products with IPv6 Ready Logo Phase-1.



[http://www.ipv6ready.org/phase-2\\_approved\\_list](http://www.ipv6ready.org/phase-2_approved_list)

On August 1 2006: 46 products with the IPv6 Ready Logo Phase-2.

On November 12 2007: 129 products with the IPv6 Ready Logo Phase-2.

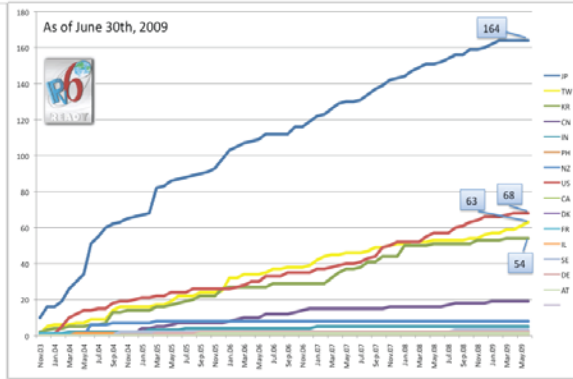
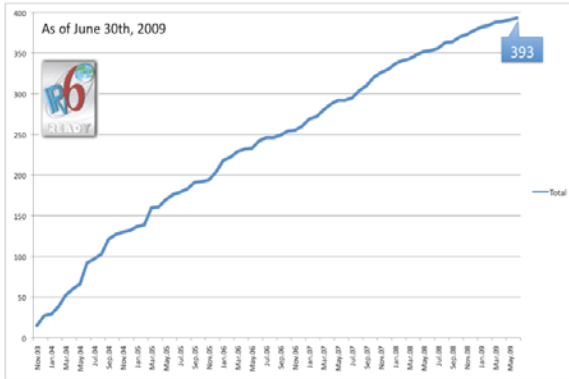
On August 28 2008: 181 products with the IPv6 Ready Logo Phase-2.

On June 30, 2009: 261 products with the IPv6 Ready Logo Phase-2.



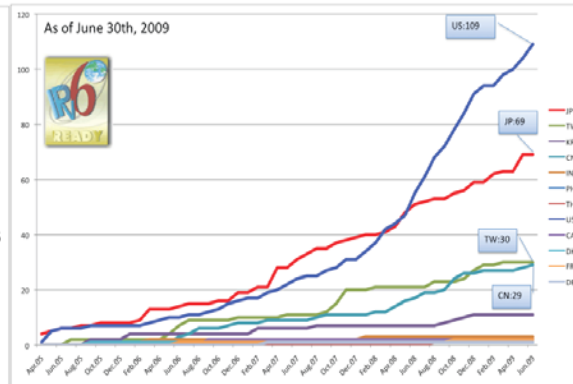
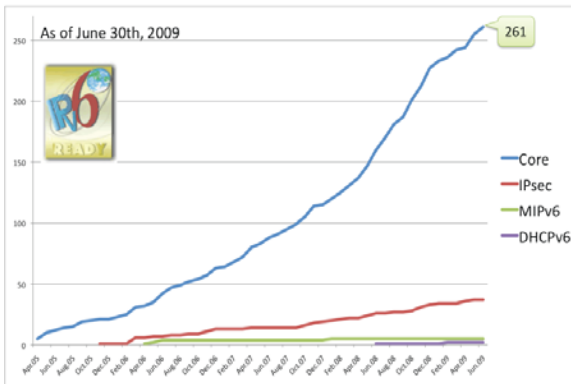
Phase 1 (Nov 03 - June 09) - 393

Phase 1 By Country



Phase 2 (Nov 03 - June 09) - 261

Phase 2 By Country





## 5. Terminology

**IPv6 Forum:** 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).

**IPv6 Ready Logo Program:** The IPv6 Forum IPv6 Ready Logo Program provides conformance and interoperability test specifications based on open standards to support IPv6 deployment across the globe.

**IPv6 Ready Logo Committee (v6LC):** To manage the IPv6 Ready Logo Program.

**IPv6 Ready Logo Regional Officer:** To authorize third parties passing successfully the IPv6 tests to use the IPv6 Ready Logo

**IPv6 Ready Logo Program Administrative Group:** To define procedures, regulations and steps for the IPv6 Ready Logo Program.

**IPv6 Ready Logo Program Technical Group:** To define IPv6 Ready Logo test specifications.

**IPv6 Ready Logo Examiner:** Member of IPv6 Ready Logo Program Technical Group, reviewer of vendor IPv6 Ready Logo application and test results.

**IPv6 Ready Logo Approved Testing Laboratories:** Approved testing laboratories.



## 6. IPv6 Ready Logo History

The picture below describes the IPv6 Ready Logo development history

