IPv6 Promotion Council

1. Guideline and guidebook (written in Japanese)
   * Home router implementation.
   * Security, concluded in 2014,

<http://www.v6pc.jp/jp/upload/pdf/swg-IPv6SecurityGuideline_v1.0.pdf>

* + Procedure guide for IPv6 migration against IPv4 address exhaustion, for server, end-terminal, ISP, application, access network, enterprise.

1. **Certification of IPv6 network engineer and training course since 2012, updated in 2019.** 
   * Sorry in Japanese, <http://www.v6pc.jp/jp/entry/wg/2016/09/v6qualification.phtml>
     + Focusing on basic technologies, transition technologies and operation.
     + Collaboration with NTT Communications
   * AITAC, <https://aitac.jp/>, is related but advanced capacity building program.
2. **Hands-on workshop for capacity building**
   * Few times in Japan for IPv6 deployment
   * AIII, <https://www.soi.asia/ai3-project/>, has run and is running the capacity building activities, collaborating with SOI Asia, <https://www.soi.asia/>
3. **Measurement of IPv6 traffic and deployment** 
   * IPv6 access network, i.e., NTT, KDDI and CTC, since 2012

<http://v6pc.jp/jp/spread/ipv6spread_03.phtml>

* + Mobile providers, since 2016.
  + Software development and deployment for traffic measurement and troubleshooting, including users’ local networks, i.e., SHINDAN (Simple Integrated Network Diagnosis And Notification), <https://www.sindan-net.com/> and iNonius(Internet Nonius) <https://inonius.net/> .
  + We have joint multiple study groups with MIC(Japanese government) to collect and analyze the commercial traffic data in Japanese commercial networks.

1. IPv6 Ready Logo program for product certification
   * Run as global IPv6 Ready Logo program, <https://www.ipv6ready.org/>
   * Had stablished and concluded in 2013, a testing laboratory in Tokyo
   * There are IPv6 Ready Logo Approved Test Laboratories, at China, Taiwan, Korea, India and USA in Asian Pacific region. **You could establish new testing laboratory in Asian Pacific area.**
   * IPv6 Forum run other categories, such as WWW, ISP, CDN, Application, we have not deeply involved in because of technical difficulty to achieve enough quality for certification with our understanding.
2. **Interoperability testing event** 
   * Most of activities focusing on key function and protocols have concluded. These are such as core protocol, IPSec, Mobile IPv6, SIP, MLD or DHCP.
   * **The participation to the “shownet” of INTEROP Tokyo, held every year in Toyo, is an opportunity to verify the interoperability and quality check (and promotion) of hardware and software products. With our understanding, the INTEROP Tokyo is the only one event running hand-made ad-hoc advanced network at exhibition event in the world.**

**Sorry for in Japanese page only,** [**https://www.interop.jp/2020/shownet/**](https://www.interop.jp/2020/shownet/)

1. Award certification of business player for IPv6 deployment
   * Since 2012, we have awarded two business players every year at INEROP Tokyo opening event. We award one from service provider and one from vender.
   * **You could establish similar awarding in Asian Pacific, which is different from IPv6 Hall of Fame run by IPv6 Forum for individual.**
2. IPv6 Education Certification Program run by IPv6 Forum, which has established by Prof.Sureswaran Ramadass at Malaysia University of Science & Technology.

<https://education.ipv6forum.com/index.php>

**You could (re)establish this work by APNIC for capacity building.**

1. **Books for programing and operation for IPv6**

* We have some books, written in Japanese, e.g, IPv6 Network Programing by Dr.Hagino Jun-ichiro, that seems to valuable for IPv6 product development and operation. Translate in non-Japanese language for Asian engineers and operators
* We could have a support of publishment from key engineers/operators.

1. **IPv6 enabled sites list**