

From JPNIC

Dear Readers,

The biggest thing that we at JPNIC did from last autumn to winter was Internet Week (IW) 2017 which was held from November 28 until December 1. IW is JPNIC's annual technical event for Internet infrastructure engineers. This year's theme was "Face eye-to-eye the 'Global' Internet (向き合おう、'グローバル'インターネット)". We held a panel discussion to literally face this theme "eye-to-eye" at IP Meeting, the plenary session which concluded the IW.

The session began with reviewing the principles of the Internet, which includes being open and inclusive, globally unfragmented and having permission-less innovation, among others. Then, it was pointed out that these principles were now at risk and that malicious conduct like cyberattacks and fake news also took advantage of the Internet on a massive scale. A panel of experts on international politics, media, telecom operators and artificial intelligence took the floor to discuss the current situation in their respective fields, the critical issues and severe situations, and some signs and hints for improvement. The panel moderator pointed out in the end part that the value of being connected, which was the very reason why the Internet emerged, would accelerate coordination towards addressing the risks and advancement of technology. He concluded the session with a call for collective endeavors by all Internet stakeholders to keep the Internet as a place for collaboration and innovation. A detailed report of this panel discussion is posted in Special Article 1.

Other articles of this newsletter are as follows.

• In "Prologue to the Internet: Its Technologies and Services," this time the JP29-type-robot "Nikkun" and "Dr. Netson" of the Internet Institute explain the emergence of the World Wide Web (WWW), which sometimes even represents the Internet itself. WWW was created with hypertext which can accommodate text, visuals and hyperlink. Hyperlink is the very concept which differentiates WWW from other services on the Internet and a link refers users to another server just by clicking it. The article explains the background of this concept and how it spread afterwards.

• For "Introducing JPNIC members", we visited Asahi Net. Inc. Asahi Net is a long established independent ISP derived from a project of the ASAHI Shimbun, one of the major newspaper publishers in Japan, and founded in 1990. They have been awarded the title of "Customer satisfaction No.1 ISP" for a long time. The CEO says "The Internet is the greatest invention of mankind, which is comparable to words and letters. We are proud to be an ISP which is indispensable for the Information Society as its infrastructure." We deliver the secret of their success.

• The "Internet loves you" is a corner to focus on "a person" who is active in the Internet industry. This time, we introduce Mr. Kaname Nishizuka of NTT Communications Corporation, who is a member of JPNIC's IPv6 education expert team and active in this arena. At the same time, he is thoroughly engaged and working diligently to standardize DOTS (DDoS Open Threat Signaling) for which he received the "Best Open Source Project" award at IETF100. We share his enthusiasm for security and why he wants DOTS to be so popular.

• "Internet Terms in 10 Minutes" covers HTTP/2. HTTP is a protocol that has been in use for a long time since its version 1.1 was enacted in 1997. Although version 1.1 is popular as a simple and easy-to-use protocol, HTTP/2 is becoming popular for its efficiency and improvements in speed. In this corner, we focus on the technology used in HTTP/2 and explain the method of speeding up websites.

• Articles such as Internet Topics, JPNIC Activity Report and Statistics that highlight information from recent months are also delivered.

Let us introduce another publication of ours, "Internet White Paper 2018," published in this February, in which JPNIC was involved as an Editorial Committee member. This covers the statistics and full line-up of recent developments that represent the current state of the Internet in Japan. We are afraid to say that there is no English version, but we would like to invite you to take a look at it if you are interested.

If you have any comments or feedback, please feel free to contact us at jpnict-news@nic.ad.jp.