

ITU-T IPv6 Workshop

Abstract

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Session: **1.2: IPv6 Internet Overview and Outlook**

Title of Presentation: The Real-Space Internet

IPv6 is designed for connecting all digital devices around human-being, and should be used not only for legacy IT industry but also for all other industry segments. Digital devices, such as computer systems, are getting small and light weight to be able to achieve mobility and ubiquity. The IPv6 is the networking protocol for this ubiquitous computing environment.

We have had many field trial applying the IPv6 technology, and tried to realize what are the benefits of IPv6 technology.

We have realized that one of killer application area is the "real-space" Internetsystem. Every digital objects around us are interacting to each other to create the space, which achieve higher efficient activities for business and entertainment. Also, we realized that some key functions of IPv6 can contribute to the cost reduction of system design, installation and management.

These key functions are (1) large address space, (2) auto-configuration, and (3) global IP address. We give some examples that IPv6 contributes to the cost reduction, in the Real-Space Internet applications.

Key Words: IPv6, Real-Space, Transportation, Facility Networking