## Standardizations and considerations on P2P-based contents distribution for digital signage service

Wook Hyun\*, MiYoung Huh\*, SungHei Kim\*, JuYoung Park\*

\* ETRI (Electronics and Telecommunications Research Institute), Korea

whyun@etri.re.kr, myhuh@etri.re.kr, shkim@etri.re.kr, jypark@etri.re.kr

Abstract— Digital signage service provides advertisement and informational content to audiences by use of electronic displays. Nowadays, the resolution of display goes higher and quality of contents is also increasingly getting higher. On distributing its contents to multiple displays, it takes much time proportional to the number of terminal and size of content. This paper proposes a method for content distribution using P2P with more considerations for digital signage service.

Keyword—P2P, contents delivery, digital signage



**Wook Hyun** is a research staff member with ETRI (Electronics and Telecommunications Research Institutes) since 2000. He has received M.S. degree in Information Communication Engineering from Chungnam National University, Korea in 2000. His research interests include VoIP, SIP, NGN, P2P, overlay networking and digital signage.



**Mi Young Huh** is a research staff member with ETRI (Electronics and Telecommunications Research Institutes) since 1990. She has received M.S. degree in Information Communication Engineering from Chung Nam National University, Korea in 2004. Her research interests include VoIP, SIP, IPTV, and Digital Signage.



Sung Hei Kim is a research staff member with ETRI (Electronics and Telecommunications Research Institutes) since 1991. She has received M.S. degree in Computer Science from Chung Nam National University, Korea in 1995. Her research interests include network management, NGN, service engineering, multicasting, P2P systems, and overlay networking.



Ju Young Park is working for ETRI from when he has received his PH.D degree in 2001 from Chungnam National University. Thereafter, he took project editorships both in ITU-T and ISO/IEC/JTC1, and he also has developed three International Standards (IS). His major research areas are smart work, Multicast, QoS protocol and architecture. He also has great concerns on mobile communication and IOT.