Design of Interfaces among Functionalities for Smart Greenhouse

MiYoung Huh*, JuYoung Park*

* ETRI (Electronics and Telecommunications Research Institute), 218 Gajeong-ro, Yuseong-gu, Daejeon, Korea

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

Abstract—In order to analyse the impact of environment condition to the crop, it is necessary to accumulate the data generated by the smart greenhouse. Thus, it is important to define the standard interface and data format among functional entities within smart greenhouse to be able to use the accumulated data is meaningful. In this paper, we will describe the status of standardization in ITU-T and TTA regarding smart greenhouse briefly, and introduce the reference architecture and functional entities defined in standardization document. Additionally, we will suggest the considerations of interfaces and related information among functional entities

Keyword—Smart Greenhouse, Agriculture

MiYoung 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, digital signage.

Juyoung Park received the BE in electronics engineering from Chungnam University, Korea, in 1995 and the **M.S and** Ph.D. degree in Information Communication engineering from Chungnam University, Korea, in 1997 and 2001, respectively.
He is working for ETRI since 2001. His research interests include Multicast, IPTV, Smart Work, Smart Farming and future network.