

## *Session A : Sensor & Home Networks*

### **Open Service Platform Providing Services for Home Appliances**

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#### **Biography**

Mr. Ishihara received the B.E and M.E degrees in Electrical Engineering from Waseda University, Tokyo, Japan in 1983 and 1985, respectively. He joined Fujitsu Laboratories Ltd., Kawasaki, Japan in 1985, where he has been engaged in research and development of SDH transport systems, broadband access systems, ATM networking, and IP networking. Currently he is a research fellow of Network Systems Laboratories in Fujitsu Laboratories Ltd., and leading R&D on home networking and home gateway to provide new network services over broadband access.

#### **Abstract**

New network services targeting home appliances (e.g. TV, DVR, network camera and sensors) are attracting great attentions. However, these services are provided by appliance vendors for their own appliances. An open platform on which third-parties can provide services to any home appliances is not yet available. We propose an open service platform where a home gateway and center-located servers cooperate. To achieve the open platform, our home gateway can add its software functions and be managed remotely. Remote access service to control home appliances is one of the key services over this platform. We propose a remote access method which provides highly secured and scalable access from the Internet into home. This paper also shows a prototype system with which we have demonstrated our proposed architecture.