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SERIES J: CABLE NETWORKS AND TRANSMISSION
OF TELEVISION, SOUND PROGRAMME AND OTHER
MULTIMEDIA SIGNALS

Artificial intelligence (AI) assisted cable networks –
Requirements for the set-top box

The architecture for a smart home gateway

Recommendation ITU-T J.1612

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The architecture for a smart home gateway

Summary

Smart home is a kind of home automation system in which a wide range of IoT devices in a home cooperate to provide intelligent controlling and monitoring functions for home users. Smart home gateway connects various smart home devices, provides hardware interfaces of various smart home communication protocols, runs communication protocols, performs protocol conversion and bridging, realizes the interaction between user control terminal and Cloud server.

Recommendation ITU-T J.1612 aims to define the architecture for a smart home gateway (SHGW) which addresses the functional requirements found in Recommendation ITU-T J.1611. The Recommendation consists of concepts of a virtual device model, dynamic device profile and other important software modules. With the introduction of these important modules, the architecture can dynamically support existing smart home devices and the devices in the future.

History

Edition	Recommendation	Approval	Study Group	Unique ID*
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Keywords

Smart home, smart home gateway, universal control platform, virtual device model.

* To access the Recommendation, type the URL <http://handle.itu.int/> in the address field of your web browser, followed by the Recommendation's unique ID. For example, <http://handle.itu.int/11.1002/1000/11830-en>.

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