Making the Smart Home Smarter with UPnP® Technologies

April 2015

UPnP Forum
www.upnp.org

Agenda

- The Need for a Smarter Home

- How UPnP Forum^{sm} Has Met the Challenge

- New Usage Scenarios

- Summary

- Contact Information

- Other Resources

The Need for a Smarter Home

- More and more devices are connecting to the home network and the out to the Internet

- The Smart Home is moving from Islands of Things to the Internet of Things (IoT)

- IoT is driving a whole new market segment and ecosystem of devices

- Manufacturers and developers want open connectivity based on industry standards

Consumers want
- New products to integrate with what they already have
- Everything to work together
- Access and control from anywhere and at any time
- Everything to be easy to use
- Useful information to help guide them through the buying process

How UPnP Forum Has Met The Challenge

- New Testing Tools

- Enhancements to the UPnP Device Control Protocols (DCPs) and UPnP architecture

- UPnP®+ for Cloud and remote access

- Rigid Cloud Security

- Enhanced compatibility and interoperability through UPnP Bridging

- UPnP+ for the Internet of Things (IoT)

- IoT Sensor Management

- Enhanced Device Protection

- Enhanced Device Management

- Enhanced Services for networking and A/V

- Data Modeling for new devices

- Better management for low power devices

- Integration with resource constrained devices

- Better integration and control for home power management and the utilities

New Usage Scenarios

Social Media Integration

- Universal connectivity through UPnP+ Cloud
- Interaction using Extensible Messaging and Presence Protocol (XMPP)
- Sharing using secure Virtual Chat Rooms
- Management using secure Role-based Access Control

Cohesive Device Interaction And Control

- Universal connectivity through UPnP® Bridging
- Bidirectional integration and communications to other non-IP networks (Bluetooth, ZigBee, Z-Wave, CoAP, etc.)
- Access, control, and monitoring through a single Control Point interface

Device Modeling

- Standardized support for the creation of new Data Models or SensorTypes
- Extensible interoperability and manageability with the rest of the UPnP ecosystem
- New levels of innovation and connected solutions within a set of standardized Data Models

Summary

UPnP Technologies Provide

- The confidence of proven security, superior interoperability, and new features that make it the most complete and open solution for the connected smart home
- The simplest and most complete way to share devices and content securely within the home or across the Internet
- A certification program that is inexpensive with free and open source solutions for validating implementations
- Product, device, and service development tools in addition to a certification process that are available TODAY

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Other Resources

- Website: www.upnp.org
- News & Events
  - http://upnp.org/news/ & http://upnp.org/events/
- Latest Publications
  - http://upnp.org/latestupdates/newestpubs/
- UPnP+ Certification
  - http://upnp.org/certification/upnpcertification/upnppluscertification/
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