Making the Smart Home Smarter with UPnP® Technologies

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UPnP Forum
www.upnp.org
Agenda

• The Need for a Smarter Home
• How UPnP Forum℠ 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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