

LEVERAGING UPnP+[®]: THE NEXT GENERATION OF UNIVERSAL INTEROPERABILITY

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UPnP Forum
www.upnp.org

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- **UPnP+** is a new certification level for UPnP devices and services
- **UPnP+** uses a simple and complete certification program with new enriched test tools that are available now
- **UPnP+** is fully backwards-compatible with existing UPnP devices and services
- **UPnP+** supports full integration of IPv6 with seamless backwards compatibility to IPv4
- **UPnP+** provides an improved interoperability baseline incorporating the latest specifications including A/V, Device Protection, and Energy Management

What is UPnP+ Cloud?

- Adds cloud services extending the utility of UPnP devices over the Internet
- Builds upon mature UPnP core technologies that already provide a base for IoT
- Enables existing UPnP specifications and devices to be UPnP Cloud capable
- Enables device and service discovery through the UPnP Cloud
- Combines UPnP and XMPP ecosystems to enable new IoT possibilities
- Connects UPnP Devices (UCCD) and Control Points (UCC-CP) as XMPP clients via an XMPP server
- Leverages commonly used web technologies to create secure communication between devices
- Uses role-based access control with read-only actions for untrusted devices
- Supports simple, data-based device descriptions for the incorporation of resource-constrained devices
- Provides a path for low-risk and rapid implementations of UPnP Cloud solutions

What is UPnP Bridging?

- Allows different local communication and protocol networks to interact as one, even if they do not use IP-based networking
- Includes seamless bridging to existing device network protocols such as Bluetooth, Z-Wave, or ZigBee
- Provides a development platform for “home automation hub” manufacturers to integrate with the billions of UPnP devices already in the home
- Aggregates the control point and management interfaces to include disparate technologies and connectivity implementations

- **UPnP+** provides the confidence of proven security, superior interoperability and the new features that make it the most complete and open solution for the Internet of Things
- **UPnP+** is the simplest and most complete way to securely share devices
- **UPnP+** certification is inexpensive and open source solutions can validate their implementations for free
- **UPnP+** tools and certification are available TODAY

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