



**UPnP Forum Letter To:** oneM2M

**From:** Scott Lofgren (scott.o.lofgren@intel.com), UPnP Forum President & Chairman

**Date:** September 24, 2015

**Subject:** UPnP Data Models

Dear oneM2M Representatives,

As you may know, UPnP Forum is an ISO/IEC certified open standards organization whose specifications have traditionally been limited to the local area network (LAN) in the home. However, in the last couple of years we have made major enhancements to include secure extension to networked devices beyond the home over the Internet (using XMPP) and a data model approach to device definitions that is abstracted to support any ecosystem and scales at the speed of the Internet. UPnP Forum would like to share information of common interest with your organization and requests that you share similar information with UPnP Forum. Additionally, there is strong interest in enhancing the device data model within UPnP Forum with definitions from organizations like yours.

In order for the Internet of Things (IoT) to be successful, fragmentation and scalability are critical factors that need to be addressed. This success will depend in part on a simple, reliable and expandable model for connected devices. This is true regardless of whether new devices are added to existing verticals or as new verticals are added with the expansion of IoT. Moreover, a common open data model can be leveraged to bridge to additional ecosystems as they emerge.

To this end, UPnP Forum has used its internal specifications as well as public information from other organizations to develop a holistic set of device models (latest specification found at <http://upnp.org/specs/iotmc/UPnP-iotmc-IoTManagementAndControl-DataModel-v1-Service.pdf>). This specification is part of our UPnP IoT Management and Control specifications and can be found on our website at <http://upnp.org/specs/iotmc/iotmc1/>.

We are currently developing tools that automate the process of quickly adding new devices (minutes as opposed to months). Refer to our recent [press release](#). These tools will be made publicly available in order for the whole industry to benefit from this effort. Our goal with this approach to data modeling is to reduce fragmentation in the marketplace and to provide a process that can be incorporated directly into the processes of organizations worldwide.

In this context, we would like to request the following:

- Since the automated tool is not yet available, we request that any publicly available data models be shared with UPnP Forum for inclusion into the holistic set of data models.
- We request that any privately available data models that are not subject to IPR be shared with UPnP Forum for inclusion into the holistic set of data models.



- We would like to have information from you to ensure that the output formats supported by the tool will be of most benefit to your organization.
- We would like to demonstrate the UPnP IoT device data model tool to your group when it is live (expected later this month), either at one of your upcoming face-to-face meetings or through a web cast.

We welcome any questions that you may have with regards to the Live Data Model requests or any other information we have provided to you. We are also willing to participate in a presentation or call to provide you with more details. Included on the next page are additional resources you may find useful. Thank you.

Respectfully,

A handwritten signature in black ink, appearing to read "Scott Lofgren".

Scott Lofgren  
UPnP Forum President & Chairman



## UPnP Forum Resources:

### Latest Specifications

- [IoT Management And Control DataModel V1.0 Service DCP \(Revision Dated 15 May 2015\)](#)
  - See <http://upnp.org/specs/iotmc/iotmc1/> for all IoT Management & Control Specs
- [UPnP Device Architecture 2.0](#) (including the Cloud Annex)
- [MultiScreen:1](#) & [MultiScreen:2](#) DCPs

### Webinars and Videos

- Why You Should Upgrade to UPnP+ (February 17, 2015)  
[YouTube recording](#) | [Presentation slides only](#)
- UPnP+ demo at IBC (September 2014) - [YouTube video](#)

### Presentations

- [UPnP: The Discovery & Service Layer For The Internet of Things](#)
- [Leveraging UPnP+: The Next Generation of Universal Interoperability](#)
- [Making The Smart Home Smarter With UPnP Technologies](#)
- [UPnP Data Models](#)
- [UPnP Internet of Things Overview December 2014](#)
- [UPnP Internet of Things Overview July 2014](#)
- [Bringing UPnP to the Cloud and IOT](#)
- [Delivering the Internet of Things with UPnP](#)
- [New Tools for Commercial Video over IP](#)
- [UPnP Certification Overview](#)

### Tutorials & Guides

- [UPnP Device Architecture Tutorial](#)
- [UPnP AV Tutorial](#)

### Certification Program

- [UPnP+ Initiative](#) and [Certification Program](#)

### Whitepapers

- UPnP: The Discovery & Service Layer For The Internet of Things  
[Full Whitepaper](#) | [Short Marketing Brief](#)
- Leveraging UPnP+: The Next Generation of Universal Interoperability  
[Full Whitepaper](#) | [Short Marketing Brief](#)
- Making The Smart Home Smarter With UPnP Technologies  
[Full Whitepaper](#) | [Short Marketing Brief](#)