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Part 26-2:

Telephony device control protocol — Level 2 — Telephony client device

Technologies de l'information — Architecture de dispositif UPnP — Partie 26-2: Protocole de contrôle de dispositif de téléphonie — Niveau 2 — Dispositif de client de téléphonie





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CONTENTS

1	Scope	iv
2	Normative references	1
3	Terms, definitions and abbreviated terms	1
4	Notations and conventions	2
	4.1 Text conventions	2
	4.2 Vendor-defined extensions	2
5	Device Definitions	
	5.1 Device Type	2
	5.2 <u>TelephonyClient</u> Device Architecture	
	5.3 Device Model	3
6	XML Device Description	3
7	Test	5
An	nnex A (informative) Theory of Operation	6
An	nnex B (informative) Bibliography	7
Fig	gure 1 — TelephonyClient Device Architecture	3
Fig	gure A.1 — Interaction Between a Telephony Client and Telephony Control Point	6
Tal	able 1 — Device Requirements	3

Foreword

ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. National bodies that are members of ISO or IEC participate in the development of International Standards through technical committees established by the respective organization to deal with particular fields of technical activity. ISO and IEC technical committees collaborate in fields of mutual interest. Other international organizations, governmental and non-governmental, in liaison with ISO and IEC, also take part in the work. In the field of information technology, ISO and IEC have established a joint technical committee, ISO/IEC JTC 1.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of document should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see http://www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO and IEC shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the voluntary nature of Standard, the meaning of the ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: Foreword – Supplementary information

ISO/IEC 29341-26-2 was prepared by UPnP Forum and adopted, under the PAS procedure, by joint technical committee ISO/IEC JTC 1, *Information technology*, in parallel with its approval by national bodies of ISO and IEC.

The list of all currently available parts of ISO/IEC 29341 series, under the general title *Information technology — UPnP Device Architecture*, can be found on the ISO web site.

Introduction

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Original UPnP Document

Reference may be made in this document to original UPnP documents. These references are retained in order to maintain consistency between the specifications as published by ISO/IEC and by UPnP Implementers Corporation and later by UPnP Forum. The following table indicates the original UPnP document titles and the corresponding part of ISO/IEC 29341:

UPnP Device Architecture 1.0 ISO/IEC 29341-1:2008 UPnP Device Architecture Version 1.0 ISO/IEC 29341-1:2011 UPnP Device Architecture 1.1 ISO/IEC 29341-1-2 UPnP Device Architecture 2.0 ISO/IEC 29341-2 UPnP Basic:1 Device ISO/IEC 29341-2 UPnP AV Architecture:1 ISO/IEC 29341-3-1:2008 UPnP AV Architecture:1 ISO/IEC 29341-3-1:2011 UPnP AV Transport:1 Service ISO/IEC 29341-3-10 UPnP ConnectionManager:1 Service ISO/IEC 29341-3-12 UPnP ContentDirectory:1 Service ISO/IEC 29341-3-12 UPnP RenderingControl:1 Service ISO/IEC 29341-3-12 UPnP MediaRenderer:1 Device ISO/IEC 29341-3-13 UPnP MediaRenderer:2 Device ISO/IEC 29341-3-2 UPnP MediaRenderer:2 Device ISO/IEC 29341-3-2 UPnP MediaServer:1 Device ISO/IEC 29341-3-2 UPnP AVTransport:2 Service ISO/IEC 29341-4-10:2008 UPnP AVTransport:2 Service ISO/IEC 29341-4-10:2011 UPnP ConnectionManager:2 Service ISO/IEC 29341-4-11:2011 UPnP ConnectionManager:2 Service ISO/IEC 29341-4-11:2011 UPnP RenderingControl:2 Service ISO/IEC 29341-4-12 <	UPnP Document Title	ISO/IEC 29341 Part
UPnP Device Architecture 1.1 ISO/IEC 29341-1-1:2011 UPnP Device Architecture 2.0 ISO/IEC 29341-2 UPnP Basic: 1 Device ISO/IEC 29341-2 UPnP AV Architecture:1 ISO/IEC 29341-3-1:2008 UPnP AV Architecture:1 ISO/IEC 29341-3-1:2011 UPnP AV Architecture:1 ISO/IEC 29341-3-10 UPnP ConnectionManager:1 Service ISO/IEC 29341-3-10 UPnP ContentDirectory:1 Service ISO/IEC 29341-3-12 UPnP RenderingControl:1 Service ISO/IEC 29341-3-12 UPnP MediaRenderer:1 Device ISO/IEC 29341-3-2 UPnP MediaRenderer:2 Device ISO/IEC 29341-3-2 UPnP MediaRenderer:2 Device ISO/IEC 29341-3-3 UPnP MediaRenderer:2 Device ISO/IEC 29341-3-3 UPnP MediaRenderer:2 Service ISO/IEC 29341-4-10:2018 UPnP AVTransport:2 Service ISO/IEC 29341-4-10:2018 UPnP ConnectionManager:2 Service ISO/IEC 29341-4-11:2011 UPnP ConnectionManager:2 Service ISO/IEC 29341-4-11:2011 UPnP RenderingControl:2 Service ISO/IEC 29341-4-12 UPnP RenderingControl:2 Service ISO/IEC 29341-4-13:2011 UPnP MediaRenderer:2 Device ISO/IEC 29341-4-14 <t< td=""><td>UPnP Device Architecture 1.0</td><td>ISO/IEC 29341-1:2008</td></t<>	UPnP Device Architecture 1.0	ISO/IEC 29341-1:2008
UPnP Device Architecture 2.0 ISO/IEC 29341-1-2 UPnP Basic:1 Device ISO/IEC 29341-2 UPnP AV Architecture:1 ISO/IEC 29341-3-1:2008 UPnP AV Transport:1 Service ISO/IEC 29341-3-1:2011 UPnP ConnectionManager:1 Service ISO/IEC 29341-3-10 UPnP ContentDirectory:1 Service ISO/IEC 29341-3-12 UPnP RenderingControl:1 Service ISO/IEC 29341-3-12 UPnP RenderingControl:1 Service ISO/IEC 29341-3-13 UPnP MediaRenderer:2 Device ISO/IEC 29341-3-2 UPnP MediaRenderer:2 Device ISO/IEC 29341-3-2 UPnP MediaServer:1 Device ISO/IEC 29341-3-2 UPnP MediaServer:1 Device ISO/IEC 29341-3-2 UPnP MediaServer:2 Service ISO/IEC 29341-3-2 UPnP AVTransport:2 Service ISO/IEC 29341-3-3 UPnP AVTransport:2 Service ISO/IEC 29341-4-10:2008 UPnP ConnectionManager:2 Service ISO/IEC 29341-4-11:2008 UPnP ConnectionManager:2 Service ISO/IEC 29341-4-11:2011 UPnP ContentDirectory:2 Service ISO/IEC 29341-4-12 UPnP RenderingControl:2 Service ISO/IEC 29341-4-13:2011 UPnP ScheduledRecording:1 ISO/IEC 29341-4-13:2011 <tr< td=""><td>UPnP Device Architecture Version 1.0</td><td>ISO/IEC 29341-1:2011</td></tr<>	UPnP Device Architecture Version 1.0	ISO/IEC 29341-1:2011
UPnP Basic:1 Device ISO/IEC 29341-2 UPnP AV Architecture:1 ISO/IEC 29341-3-1:2008 UPnP AV Architecture:1 ISO/IEC 29341-3-1:2011 UPnP AVTransport:1 Service ISO/IEC 29341-3-10 UPnP ConnectionManager:1 Service ISO/IEC 29341-3-12 UPnP ContentDirectory:1 Service ISO/IEC 29341-3-12 UPnP RenderingControl:1 Service ISO/IEC 29341-3-13 UPnP MediaRenderer:1 Device ISO/IEC 29341-3-2 UPnP MediaRenderer:2 Device ISO/IEC 29341-3-2 UPnP MediaRenderer:1 Device ISO/IEC 29341-3-2 UPnP MediaRenderer:2 Device ISO/IEC 29341-3-2 UPnP MediaRenderer:2 Device ISO/IEC 29341-3-2 UPnP MediaRenderer:2 Device ISO/IEC 29341-3-2 UPnP MediaServer:1 Device ISO/IEC 29341-3-2 UPnP AVTransport:2 Service ISO/IEC 29341-4-10:2008 UPnP ConnectionManager:2 Service ISO/IEC 29341-4-11:2011 UPnP ConnectionManager:2 Service ISO/IEC 29341-4-11:2011 UPnP RenderingControl:2 Service ISO/IEC 29341-4-12 UPnP RenderingControl:2 Service ISO/IEC 29341-4-13:2011 UPnP MediaRenderer:2 Device ISO/IEC 29341-4-1 <	UPnP Device Architecture 1.1	ISO/IEC 29341-1-1:2011
UPnP AV Architecture:1 ISO/IEC 29341-3-1:2008 UPnP AV Architecture:1 ISO/IEC 29341-3-1:2011 UPnP AVTransport:1 Service ISO/IEC 29341-3-10 UPnP ContectionManager:1 Service ISO/IEC 29341-3-11 UPnP ContentDirectory:1 Service ISO/IEC 29341-3-13 UPnP RenderingControl:1 Service ISO/IEC 29341-3-13 UPnP MediaRenderer:2 Device ISO/IEC 29341-3-2 UPnP MediaRenderer:2 Device ISO/IEC 29341-3-2 UPnP MediaRenderer:2 Device ISO/IEC 29341-3-3 UPnP MediaServer:1 Device ISO/IEC 29341-3-3 UPnP AVTransport:2 Service ISO/IEC 29341-4-10:2008 UPnP AVTransport:2 Service ISO/IEC 29341-4-10:2011 UPnP ConnectionManager:2 Service ISO/IEC 29341-4-11:2011 UPnP ContentDirectory:2 Service ISO/IEC 29341-4-12 UPnP RenderingControl:2 Service ISO/IEC 29341-4-12 UPnP RenderingControl:2 Service ISO/IEC 29341-4-13 UPnP ScheduledRecording:1 ISO/IEC 29341-4-14 UPnP ScheduledRecording:2 ISO/IEC 29341-4-14 UPnP MediaRenderer:2 Device ISO/IEC 29341-4-14 UPnP MediaRenderer:2 Device ISO/IEC 29341-4-1	UPnP Device Architecture 2.0	ISO/IEC 29341-1-2
UPnP AV Architecture:1 ISO/IEC 29341-3-1:2011 UPnP AVTransport:1 Service ISO/IEC 29341-3-10 UPnP ConnectionManager:1 Service ISO/IEC 29341-3-11 UPnP ContentDirectory:1 Service ISO/IEC 29341-3-12 UPnP RenderingControl:1 Service ISO/IEC 29341-3-13 UPnP MediaRenderer:1 Device ISO/IEC 29341-3-2 UPnP MediaRenderer:2 Device ISO/IEC 29341-3-3 UPnP MediaServer:1 Device ISO/IEC 29341-3-3 UPnP AVTransport:2 Service ISO/IEC 29341-4-10:2008 UPnP AVTransport:2 Service ISO/IEC 29341-4-10:2011 UPnP ConnectionManager:2 Service ISO/IEC 29341-4-11:2011 UPnP ConnectionManager:2 Service ISO/IEC 29341-4-11:2011 UPnP RenderingControl:2 Service ISO/IEC 29341-4-12 UPnP RenderingControl:2 Service ISO/IEC 29341-4-13:2008 UPnP RenderingControl:2 Service ISO/IEC 29341-4-13:2011 UPnP ScheduledRecording:1 ISO/IEC 29341-4-13:2011 UPnP ScheduledRecording:2 ISO/IEC 29341-4-14:2011 UPnP MediaRenderer:2 Device ISO/IEC 29341-4-1 UPnP MediaRenderer:2 Device ISO/IEC 29341-4-1 UPnP DigitalSecurityCamera:1 Device ISO/IEC 29	UPnP Basic:1 Device	ISO/IEC 29341-2
UPnP AVTransport:1 Service ISO/IEC 29341-3-10 UPnP ConnectionManager:1 Service ISO/IEC 29341-3-11 UPnP ContentDirectory:1 Service ISO/IEC 29341-3-12 UPnP RenderingControl:1 Service ISO/IEC 29341-3-13 UPnP MediaRenderer:1 Device ISO/IEC 29341-3-2 UPnP MediaRenderer:2 Device ISO/IEC 29341-3-2:2011 UPnP MediaServer:1 Device ISO/IEC 29341-3-3 UPnP AVTransport:2 Service ISO/IEC 29341-4-10:2008 UPnP AVTransport:2 Service ISO/IEC 29341-4-10:2008 UPnP ConnectionManager:2 Service ISO/IEC 29341-4-11:2010 UPnP ConnectionManager:2 Service ISO/IEC 29341-4-11:2011 UPnP ContentDirectory:2 Service ISO/IEC 29341-4-12 UPnP RenderingControl:2 Service ISO/IEC 29341-4-13:2018 UPnP RenderingControl:2 Service ISO/IEC 29341-4-13:2011 UPnP ScheduledRecording:1 ISO/IEC 29341-4-14:2011 UPnP ScheduledRecording:2 ISO/IEC 29341-4-14:2011 UPnP MediaServer:2 Device ISO/IEC 29341-4-1 UPnP MediaServer:2 Device ISO/IEC 29341-4-1 UPnP DigitalSecurityCamera:1 Device ISO/IEC 29341-6-1 UPnP DigitalSecurityCamera:1 Device I	UPnP AV Architecture:1	ISO/IEC 29341-3-1:2008
UPnP ConnectionManager:1 Service ISO/IEC 29341-3-11 UPnP ContentDirectory:1 Service ISO/IEC 29341-3-12 UPnP RenderingControl:1 Service ISO/IEC 29341-3-13 UPnP MediaRenderer:1 Device ISO/IEC 29341-3-2 UPnP MediaRenderer:2 Device ISO/IEC 29341-3-2 UPnP MediaServer:1 Device ISO/IEC 29341-3-3 UPnP MediaServer:1 Device ISO/IEC 29341-4-10:2008 UPnP AVTransport:2 Service ISO/IEC 29341-4-10:2011 UPnP ConnectionManager:2 Service ISO/IEC 29341-4-11:2001 UPnP ConnectionManager:2 Service ISO/IEC 29341-4-11:2011 UPnP ContentDirectory:2 Service ISO/IEC 29341-4-12 UPnP RenderingControl:2 Service ISO/IEC 29341-4-13:2018 UPnP RenderingControl:2 Service ISO/IEC 29341-4-13:2011 UPnP ScheduledRecording:1 ISO/IEC 29341-4-13:2011 UPnP ScheduledRecording:1 ISO/IEC 29341-4-14:2011 UPnP MediaRenderer:2 Device ISO/IEC 29341-4-1 UPnP MediaRenderer:2 Device ISO/IEC 29341-4-3 UPnP AV Datastructure Template:1 ISO/IEC 29341-4-3 UPnP DigitalSecurityCameraStillmage:1 Service ISO/IEC 29341-5-1 UPnP DigitalSecurityCameraStillmage:1 Ser	UPnP AV Architecture:1	ISO/IEC 29341-3-1:2011
UPnP ContentDirectory:1 Service ISO/IEC 29341-3-12 UPnP RenderingControl:1 Service ISO/IEC 29341-3-13 UPnP MediaRenderer:1 Device ISO/IEC 29341-3-2 UPnP MediaRenderer:2 Device ISO/IEC 29341-3-2 UPnP MediaServer:1 Device ISO/IEC 29341-3-3 UPnP AVTransport:2 Service ISO/IEC 29341-4-10:2008 UPnP AVTransport:2 Service ISO/IEC 29341-4-10:2011 UPnP ConnectionManager:2 Service ISO/IEC 29341-4-11:2011 UPnP ContentDirectory:2 Service ISO/IEC 29341-4-12 UPnP RenderingControl:2 Service ISO/IEC 29341-4-13:2018 UPnP RenderingControl:2 Service ISO/IEC 29341-4-13:2008 UPnP RenderingControl:2 Service ISO/IEC 29341-4-13:2011 UPnP ScheduledRecording:1 ISO/IEC 29341-4-13:2011 UPnP ScheduledRecording:2 ISO/IEC 29341-4-14:2011 UPnP MediaRenderer:2 Device ISO/IEC 29341-4-1 UPnP MediaRenderer:2 Device ISO/IEC 29341-4-3 UPnP AV Datastructure Template:1 ISO/IEC 29341-4-3 UPnP AV Datastructure Template:1 ISO/IEC 29341-5-1 UPnP DigitalSecurityCamera:1 Device ISO/IEC 29341-5-1 UPnP DigitalSecurityCameraSettings:1 Service	UPnP AVTransport:1 Service	ISO/IEC 29341-3-10
UPnP RenderingControl:1 Service ISO/IEC 29341-3-13 UPnP MediaRenderer:1 Device ISO/IEC 29341-3-2 UPnP MediaRenderer:2 Device ISO/IEC 29341-3-3 UPnP MediaServer:1 Device ISO/IEC 29341-4-10:2008 UPnP AVTransport:2 Service ISO/IEC 29341-4-10:2011 UPnP ConnectionManager:2 Service ISO/IEC 29341-4-11:2011 UPnP ConnectionManager:2 Service ISO/IEC 29341-4-11:2011 UPnP ContentDirectory:2 Service ISO/IEC 29341-4-12 UPnP RenderingControl:2 Service ISO/IEC 29341-4-13:2008 UPnP RenderingControl:2 Service ISO/IEC 29341-4-13:2011 UPnP ScheduledRecording:1 ISO/IEC 29341-4-14 UPnP ScheduledRecording:2 ISO/IEC 29341-4-14 UPnP MediaRenderer:2 Device ISO/IEC 29341-4-12 UPnP MediaServer:2 Device ISO/IEC 29341-4-12 UPnP AV Datastructure Template:1 ISO/IEC 29341-4-12 UPnP DigitalSecurityCamera:1 Device ISO/IEC 29341-5-10 UPnP DigitalSecurityCamera:1 Device ISO/IEC 29341-5-10 UPnP DigitalSecurityCameraSettings:1 Service ISO/IEC 29341-5-12 UPnP DigitalSecurityCameraSettings:1 Service ISO/IEC 29341-6-1 UPnP HVAC_System:1 Devic	UPnP ConnectionManager:1 Service	ISO/IEC 29341-3-11
UPnP MediaRenderer:1 Device ISO/IEC 29341-3-2 UPnP MediaRenderer:2 Device ISO/IEC 29341-3-3 UPnP MediaServer:1 Device ISO/IEC 29341-3-3 UPnP AVTransport:2 Service ISO/IEC 29341-4-10:2008 UPnP AVTransport:2 Service ISO/IEC 29341-4-10:2011 UPnP ConnectionManager:2 Service ISO/IEC 29341-4-11:2011 UPnP ConnectionManager:2 Service ISO/IEC 29341-4-12 UPnP ContentDirectory:2 Service ISO/IEC 29341-4-12 UPnP RenderingControl:2 Service ISO/IEC 29341-4-13:2008 UPnP RenderingControl:2 Service ISO/IEC 29341-4-13:2011 UPnP ScheduledRecording:1 ISO/IEC 29341-4-14 UPnP ScheduledRecording:2 ISO/IEC 29341-4-14:2011 UPnP MediaRenderer:2 Device ISO/IEC 29341-4-2 UPnP MediaServer:2 Device ISO/IEC 29341-4-3 UPnP AV Datastructure Template:1 ISO/IEC 29341-4-3 UPnP DigitalSecurityCamera:1 Device ISO/IEC 29341-5-1 UPnP DigitalSecurityCameraSettings:1 Service ISO/IEC 29341-5-1 UPnP DigitalSecurityCameraSettings:1 Service ISO/IEC 29341-5-1 UPnP HVAC_System:1 Device ISO/IEC 29341-6-1 UPnP HVAC_FanOperatingMode:1 Service	UPnP ContentDirectory:1 Service	ISO/IEC 29341-3-12
UPnP MediaRenderer:2 Device ISO/IEC 29341-3-2:2011 UPnP MediaServer:1 Device ISO/IEC 29341-3-3 UPnP AVTransport:2 Service ISO/IEC 29341-4-10:2008 UPnP AVTransport:2 Service ISO/IEC 29341-4-10:2011 UPnP ConnectionManager:2 Service ISO/IEC 29341-4-11:2011 UPnP ContentDirectory:2 Service ISO/IEC 29341-4-12 UPnP RenderingControl:2 Service ISO/IEC 29341-4-12 UPnP RenderingControl:2 Service ISO/IEC 29341-4-13:2008 UPnP RenderingControl:2 Service ISO/IEC 29341-4-13:2011 UPnP ScheduledRecording:1 ISO/IEC 29341-4-14:2011 UPnP ScheduledRecording:2 ISO/IEC 29341-4-14:2011 UPnP MediaRenderer:2 Device ISO/IEC 29341-4-2 UPnP MediaServer:2 Device ISO/IEC 29341-4-3 UPnP AV Datastructure Template:1 ISO/IEC 29341-4-3 UPnP AV Datastructure Template:1 ISO/IEC 29341-4-4:2011 UPnP DigitalSecurityCamera:1 Device ISO/IEC 29341-5-1 UPnP DigitalSecurityCameraSettings:1 Service ISO/IEC 29341-5-11 UPnP DigitalSecurityCameraStillmage:1 Service ISO/IEC 29341-6-1 UPnP HVAC_System:1 Device ISO/IEC 29341-6-1 UPnP FanSpeed:1 Service </td <td>UPnP RenderingControl:1 Service</td> <td>ISO/IEC 29341-3-13</td>	UPnP RenderingControl:1 Service	ISO/IEC 29341-3-13
UPnP MediaServer:1 Device ISO/IEC 29341-3-3 UPnP AVTransport:2 Service ISO/IEC 29341-4-10:2008 UPnP AVTransport:2 Service ISO/IEC 29341-4-10:2011 UPnP ConnectionManager:2 Service ISO/IEC 29341-4-11:2011 UPnP ContentDirectory:2 Service ISO/IEC 29341-4-12 UPnP RenderingControl:2 Service ISO/IEC 29341-4-12 UPnP RenderingControl:2 Service ISO/IEC 29341-4-13:2008 UPnP RenderingControl:2 Service ISO/IEC 29341-4-13:2011 UPnP ScheduledRecording:1 ISO/IEC 29341-4-14 UPnP ScheduledRecording:2 ISO/IEC 29341-4-14:2011 UPnP MediaRenderer:2 Device ISO/IEC 29341-4-3 UPnP MediaServer:2 Device ISO/IEC 29341-4-3 UPnP AV Datastructure Template:1 ISO/IEC 29341-4-3 UPnP AV Datastructure Template:1 ISO/IEC 29341-4-4:2008 UPnP DigitalSecurityCamera:1 Device ISO/IEC 29341-5-1 UPnP DigitalSecurityCameraSettings:1 Service ISO/IEC 29341-5-1 UPnP DigitalSecurityCameraStillImage:1 Service ISO/IEC 29341-6-1 UPnP HVAC_System:1 Device ISO/IEC 29341-6-1 UPnP FanSpeed:1 Service ISO/IEC 29341-6-1 UPnP FanSpeed:1 Service <t< td=""><td>UPnP MediaRenderer:1 Device</td><td>ISO/IEC 29341-3-2</td></t<>	UPnP MediaRenderer:1 Device	ISO/IEC 29341-3-2
UPnP AVTransport:2 Service UPnP AVTransport:2 Service UPnP ConnectionManager:2 Service UPnP ConnectionManager:2 Service UPnP ConnectionManager:2 Service UPnP ConnectionManager:2 Service UPnP ContentDirectory:2 Service UPnP ContentDirectory:2 Service UPnP RenderingControl:2 Service UPnP RenderingControl:2 Service UPnP RenderingControl:2 Service UPnP RenderingControl:2 Service UPnP ScheduledRecording:1 UPnP ScheduledRecording:1 UPnP ScheduledRecording:2 UPnP MediaRenderer:2 Device UPnP MediaRenderer:2 Device UPnP MediaServer:2 Device UPnP AV Datastructure Template:1 UPnP AV Datastructure Template:1 UPnP DigitalSecurityCamera:1 Device UPnP DigitalSecurityCameraSettings:1 Service UPnP DigitalSecurityCameraSettings:1 Service UPnP DigitalSecurityCameraSettings:1 Service UPnP ControlValve:1 Service UPnP ControlValve:1 Service UPnP HVAC_System:1 Device UPnP HVAC_FanOperatingMode:1 Service UPnP FanSpeed:1 Service UPnP HVAC_SetpointSchedule:1 Service USO/IEC 29341-6-12 UPnP HVAC_SetpointSchedule:1 Service USO/IEC 29341-6-13 UPnP HVAC_SetpointSchedule:1 Service USO/IEC 29341-6-14 UPnP TemperatureSensor:1 Service USO/IEC 29341-6-15	UPnP MediaRenderer:2 Device	ISO/IEC 29341-3-2:2011
UPnP AVTransport:2 Service UPnP ConnectionManager:2 Service UPnP ConnectionManager:2 Service UPnP ConnectionManager:2 Service UPnP ConnectionManager:2 Service UPnP ContentDirectory:2 Service UPnP RenderingControl:2 Service UPnP RenderingControl:2 Service UPnP RenderingControl:2 Service UPnP ScheduledRecording:1 UPnP ScheduledRecording:1 UPnP ScheduledRecording:2 UPnP MediaRenderer:2 Device UPnP MediaRenderer:2 Device UPnP MediaServer:2 Device UPnP AV Datastructure Template:1 UPnP DigitalSecurityCamera:1 Device UPnP DigitalSecurityCameraSettings:1 Service UPnP DigitalSecurityCameraSettings:1 Service UPnP DigitalSecurityCameraStillmage:1 Service UPnP ControlValve:1 Service UPnP HVAC_System:1 Device UPnP HVAC_FanOperatingMode:1 Service UPnP FanSpeed:1 Service UPnP HVAC_SetpointSchedule:1 Service USO/IEC 29341-6-14 UPnP TemperatureSensor:1 Service USO/IEC 29341-6-15	UPnP MediaServer:1 Device	ISO/IEC 29341-3-3
UPnP ConnectionManager:2 Service UPnP ConnectionManager:2 Service UPnP ConnectionManager:2 Service UPnP ContentDirectory:2 Service UPnP RenderingControl:2 Service UPnP RenderingControl:2 Service UPnP RenderingControl:2 Service UPnP RenderingControl:2 Service UPnP ScheduledRecording:1 UPnP ScheduledRecording:1 UPnP ScheduledRecording:2 UPnP MediaRenderer:2 Device UPnP MediaRenderer:2 Device UPnP MediaServer:2 Device UPnP AV Datastructure Template:1 UPnP DigitalSecurityCamera:1 Device UPnP DigitalSecurityCameraMotionImage:1 Service UPnP DigitalSecurityCameraStillImage:1 Service UPnP DigitalSecurityCameraStillImage:1 Service UPnP ControlValve:1 Service UPnP ControlValve:1 Service UPnP HVAC_FanOperatingMode:1 Service UPnP HVAC_FanOperatingMode:1 Service UPnP HouseStatus:1 Service UPnP HVAC_SetpointSchedule:1 Service USO/IEC 29341-6-13 UPnP TemperatureSensor:1 Service USO/IEC 29341-6-15	UPnP AVTransport:2 Service	ISO/IEC 29341-4-10:2008
UPnP ConnectionManager:2 Service UPnP ContentDirectory:2 Service UPnP RenderingControl:2 Service UPnP RenderingControl:2 Service UPnP RenderingControl:2 Service UPnP RenderingControl:2 Service UPnP ScheduledRecording:1 UPnP ScheduledRecording:1 UPnP ScheduledRecording:2 UPnP MediaRenderer:2 Device UPnP MediaRenderer:2 Device UPnP MediaServer:2 Device UPnP AV Datastructure Template:1 UPnP DigitalSecurityCamera:1 Device UPnP DigitalSecurityCameraSettings:1 Service UPnP HVAC_System:1 Device UPnP HVAC_System:1 Device UPnP HVAC_System:1 Device UPnP HVAC_FanOperatingMode:1 Service UPnP FanSpeed:1 Service UPnP HVAC_SetpointSchedule:1 Service UPnP HVAC_SetpointSchedule:1 Service USO/IEC 29341-6-13 UPnP TemperatureSensor:1 Service USO/IEC 29341-6-15	UPnP AVTransport:2 Service	ISO/IEC 29341-4-10:2011
UPnP ContentDirectory:2 Service UPnP RenderingControl:2 Service UPnP RenderingControl:2 Service UPnP RenderingControl:2 Service UPnP RenderingControl:2 Service UPnP ScheduledRecording:1 UPnP ScheduledRecording:1 UPnP ScheduledRecording:2 UPnP MediaRenderer:2 Device UPnP MediaServer:2 Device UPnP MediaServer:2 Device UPnP AV Datastructure Template:1 UPnP AV Datastructure Template:1 UPnP DigitalSecurityCamera:1 Device UPnP DigitalSecurityCameraMotionImage:1 Service UPnP DigitalSecurityCameraSettings:1 Service UPnP DigitalSecurityCameraSettings:1 Service UPnP DigitalSecurityCameraSettings:1 Service UPnP ControlValve:1 Service UPnP ControlValve:1 Service UPnP HVAC_FanOperatingMode:1 Service UPnP HouseStatus:1 Service UPnP HouseStatus:1 Service UPnP HVAC_SetpointSchedule:1 Service UPnP TemperatureSensor:1 Service USO/IEC 29341-6-14 UPnP TemperatureSensor:1 Service USO/IEC 29341-6-15	UPnP ConnectionManager:2 Service	ISO/IEC 29341-4-11:2008
UPnP RenderingControl:2 Service UPnP RenderingControl:2 Service UPnP RenderingControl:2 Service UPnP ScheduledRecording:1 UPnP ScheduledRecording:1 UPnP ScheduledRecording:2 UPnP MediaRenderer:2 Device UPnP MediaServer:2 Device UPnP MediaServer:2 Device UPnP AV Datastructure Template:1 UPnP AV Datastructure Template:1 UPnP DigitalSecurityCamera:1 Device UPnP DigitalSecurityCameraMotionImage:1 Service UPnP DigitalSecurityCameraSettings:1 Service UPnP HVAC_System:1 Device UPnP ControlValve:1 Service UPnP HVAC_FanOperatingMode:1 Service UPnP HVAC_FanOperatingMode:1 Service UPnP HouseStatus:1 Service UPnP HouseStatus:1 Service UPnP HVAC_SetpointSchedule:1 Service UPnP TemperatureSensor:1 Service USO/IEC 29341-6-14 UPnP TemperatureSensor:1 Service USO/IEC 29341-6-15	UPnP ConnectionManager:2 Service	ISO/IEC 29341-4-11:2011
UPnP RenderingControl:2 Service UPnP ScheduledRecording:1 UPnP ScheduledRecording:2 UPnP ScheduledRecording:2 UPnP MediaRenderer:2 Device UPnP MediaServer:2 Device UPnP MediaServer:2 Device UPnP AV Datastructure Template:1 UPnP AV Datastructure Template:1 UPnP DigitalSecurityCamera:1 Device UPnP DigitalSecurityCameraMotionImage:1 Service UPnP DigitalSecurityCameraSettings:1 Service UPnP DigitalSecurityCameraStillImage:1 Service UPnP DigitalSecurityCameraStillImage:1 Service UPnP DigitalSecurityCameraStillImage:1 Service UPnP HVAC_System:1 Device UPnP ControlValve:1 Service UPnP HVAC_FanOperatingMode:1 Service UPnP HVAC_FanOperatingMode:1 Service UPnP HouseStatus:1 Service UPnP HVAC_SetpointSchedule:1 Service UPnP TemperatureSensor:1 Service USO/IEC 29341-6-14 UPnP TemperatureSensor:1 Service USO/IEC 29341-6-15	UPnP ContentDirectory:2 Service	ISO/IEC 29341-4-12
UPnP ScheduledRecording:1 UPnP ScheduledRecording:2 UPnP MediaRenderer:2 Device UPnP MediaServer:2 Device UPnP MediaServer:2 Device UPnP AV Datastructure Template:1 UPnP DigitalSecurityCamera:1 Device UPnP DigitalSecurityCameraMotionImage:1 Service UPnP DigitalSecurityCameraSettings:1 Service UPnP DigitalSecurityCamera:1 Device UPnP DigitalSec	UPnP RenderingControl:2 Service	ISO/IEC 29341-4-13:2008
UPnP ScheduledRecording:2 UPnP MediaRenderer:2 Device UPnP MediaServer:2 Device UPnP MediaServer:2 Device UPnP AV Datastructure Template:1 UPnP AV Datastructure Template:1 UPnP DigitalSecurityCamera:1 Device UPnP DigitalSecurityCamera:1 Device UPnP DigitalSecurityCameraMotionImage:1 Service UPnP DigitalSecurityCameraSettings:1 Service	UPnP RenderingControl:2 Service	ISO/IEC 29341-4-13:2011
UPnP MediaRenderer:2 Device UPnP MediaServer:2 Device UPnP MediaServer:2 Device UPnP AV Datastructure Template:1 UPnP AV Datastructure Template:1 UPnP DigitalSecurityCamera:1 Device UPnP DigitalSecurityCameraMotionImage:1 Service UPnP DigitalSecurityCameraSettings:1 Service UPnP DigitalSecurityCameraSettings:1 Service UPnP DigitalSecurityCameraStillImage:1 Service UPnP DigitalSecurityCameraStillImage:1 Service UPnP HVAC_System:1 Device UPnP ControlValve:1 Service UPnP HVAC_FanOperatingMode:1 Service UPnP HVAC_SetpointSchedule:1 Service UPnP TemperatureSensor:1 Service USO/IEC 29341-6-14 UPnP TemperatureSensor:1 Service USO/IEC 29341-6-15	UPnP ScheduledRecording:1	ISO/IEC 29341-4-14
UPnP MediaServer:2 Device UPnP AV Datastructure Template:1 UPnP AV Datastructure Template:1 UPnP AV Datastructure Template:1 UPnP DigitalSecurityCamera:1 Device UPnP DigitalSecurityCamera:1 Device UPnP DigitalSecurityCameraMotionImage:1 Service UPnP DigitalSecurityCameraSettings:1 Service UPnP DigitalSecurityCameraSettings:1 Service UPnP DigitalSecurityCameraStillImage:1 Service UPnP DigitalSecurityCameraStillImage:1 Service UPnP HVAC_System:1 Device UPnP ControlValve:1 Service UPnP ControlValve:1 Service UPnP HVAC_FanOperatingMode:1 Service UPnP HVAC_FanOperatingMode:1 Service UPnP HouseStatus:1 Service UPnP HouseStatus:1 Service UPnP HouseStatus:1 Service UPnP HVAC_SetpointSchedule:1 Service UPnP TemperatureSensor:1 Service USO/IEC 29341-6-14 UPnP TemperatureSensor:1 Service	UPnP ScheduledRecording:2	ISO/IEC 29341-4-14:2011
UPnP AV Datastructure Template:1 UPnP AV Datastructure Template:1 UPnP DigitalSecurityCamera:1 Device UPnP DigitalSecurityCameraMotionImage:1 Service UPnP DigitalSecurityCameraSettings:1 Service UPnP DigitalSecurityCameraSettings:1 Service UPnP DigitalSecurityCameraSettings:1 Service UPnP DigitalSecurityCameraSettings:1 Service UPnP DigitalSecurityCameraStillImage:1 Service UPnP HVAC_System:1 Device UPnP HVAC_System:1 Device UPnP ControlValve:1 Service UPnP HVAC_FanOperatingMode:1 Service UPnP HVAC_FanOperatingMode:1 Service UPnP HouseStatus:1 Service UPnP HouseStatus:1 Service UPnP HVAC_SetpointSchedule:1 Service UPnP TemperatureSensor:1 Service ISO/IEC 29341-6-14 UPnP TemperatureSensor:1 Service	UPnP MediaRenderer:2 Device	ISO/IEC 29341-4-2
UPnP AV Datastructure Template:1 UPnP DigitalSecurityCamera:1 Device UPnP DigitalSecurityCameraMotionImage:1 Service UPnP DigitalSecurityCameraSettings:1 Service UPnP DigitalSecurityCameraSettings:1 Service UPnP DigitalSecurityCameraSettings:1 Service UPnP DigitalSecurityCameraStillImage:1 Service UPnP HVAC_System:1 Device UPnP HVAC_System:1 Device UPnP ControlValve:1 Service UPnP HVAC_FanOperatingMode:1 Service UPnP FanSpeed:1 Service UPnP HouseStatus:1 Service UPnP HouseStatus:1 Service UPnP HVAC_SetpointSchedule:1 Service UPnP TemperatureSensor:1 Service ISO/IEC 29341-6-14 UPnP TemperatureSensor:1 Service	UPnP MediaServer:2 Device	ISO/IEC 29341-4-3
UPnP DigitalSecurityCamera:1 Device UPnP DigitalSecurityCameraMotionImage:1 Service UPnP DigitalSecurityCameraSettings:1 Service UPnP DigitalSecurityCameraSettings:1 Service UPnP DigitalSecurityCameraStillImage:1 Service UPnP DigitalSecurityCameraStillImage:1 Service UPnP HVAC_System:1 Device UPnP HVAC_System:1 Device UPnP ControlValve:1 Service UPnP HVAC_FanOperatingMode:1 Service UPnP HVAC_FanOperatingMode:1 Service UPnP FanSpeed:1 Service UPnP HouseStatus:1 Service UPnP HVAC_SetpointSchedule:1 Service UPnP TemperatureSensor:1 Service USO/IEC 29341-6-14 UPnP TemperatureSensor:1 Service	UPnP AV Datastructure Template:1	ISO/IEC 29341-4-4:2008
UPnP DigitalSecurityCameraMotionImage:1 Service UPnP DigitalSecurityCameraSettings:1 Service UPnP DigitalSecurityCameraSettings:1 Service UPnP DigitalSecurityCameraStillImage:1 Service UPnP HVAC_System:1 Device UPnP HVAC_System:1 Device UPnP ControlValve:1 Service UPnP HVAC_FanOperatingMode:1 Service UPnP FanSpeed:1 Service UPnP HouseStatus:1 Service UPnP HVAC_SetpointSchedule:1 Service UPnP TemperatureSensor:1 Service USO/IEC 29341-6-14 UPnP TemperatureSensor:1 Service USO/IEC 29341-6-15	UPnP AV Datastructure Template:1	ISO/IEC 29341-4-4:2011
UPnP DigitalSecurityCameraSettings:1 Service UPnP DigitalSecurityCameraStillImage:1 Service UPnP HVAC_System:1 Device UPnP ControlValve:1 Service UPnP HVAC_FanOperatingMode:1 Service UPnP FanSpeed:1 Service UPnP HVAC_SetpointSchedule:1 Service UPnP HVAC_SetpointSchedule:1 Service UPnP HVAC_SetpointSchedule:1 Service UPnP HVAC_SetpointSchedule:1 Service UPnP TemperatureSensor:1 Service USO/IEC 29341-6-15 UPnP TemperatureSensor:1 Service USO/IEC 29341-6-15	UPnP DigitalSecurityCamera:1 Device	ISO/IEC 29341-5-1
UPnP DigitalSecurityCameraStillImage:1 Service UPnP HVAC_System:1 Device UPnP ControlValve:1 Service UPnP HVAC_FanOperatingMode:1 Service UPnP FanSpeed:1 Service UPnP HouseStatus:1 Service UPnP HVAC_SetpointSchedule:1 Service UPnP TemperatureSensor:1 Service ISO/IEC 29341-6-12 UPnP HVAC_SetpointSchedule:1 Service UPnP TemperatureSensor:1 Service ISO/IEC 29341-6-15	UPnP DigitalSecurityCameraMotionImage:1 Service	ISO/IEC 29341-5-10
UPnP HVAC_System:1 Device ISO/IEC 29341-6-1 UPnP ControlValve:1 Service ISO/IEC 29341-6-10 UPnP HVAC_FanOperatingMode:1 Service ISO/IEC 29341-6-11 UPnP FanSpeed:1 Service ISO/IEC 29341-6-12 UPnP HouseStatus:1 Service ISO/IEC 29341-6-13 UPnP HVAC_SetpointSchedule:1 Service ISO/IEC 29341-6-14 UPnP TemperatureSensor:1 Service ISO/IEC 29341-6-15	UPnP DigitalSecurityCameraSettings:1 Service	ISO/IEC 29341-5-11
UPnP ControlValve:1 Service UPnP HVAC_FanOperatingMode:1 Service UPnP FanSpeed:1 Service UPnP FanSpeed:1 Service UPnP HouseStatus:1 Service UPnP HVAC_SetpointSchedule:1 Service UPnP TemperatureSensor:1 Service ISO/IEC 29341-6-14 UPnP TemperatureSensor:1 Service ISO/IEC 29341-6-15	UPnP DigitalSecurityCameraStillImage:1 Service	ISO/IEC 29341-5-12
UPnP HVAC_FanOperatingMode:1 Service ISO/IEC 29341-6-11 UPnP FanSpeed:1 Service ISO/IEC 29341-6-12 UPnP HouseStatus:1 Service ISO/IEC 29341-6-13 UPnP HVAC_SetpointSchedule:1 Service ISO/IEC 29341-6-14 UPnP TemperatureSensor:1 Service ISO/IEC 29341-6-15	UPnP HVAC_System:1 Device	ISO/IEC 29341-6-1
UPnP FanSpeed:1 Service ISO/IEC 29341-6-12 UPnP HouseStatus:1 Service ISO/IEC 29341-6-13 UPnP HVAC_SetpointSchedule:1 Service ISO/IEC 29341-6-14 UPnP TemperatureSensor:1 Service ISO/IEC 29341-6-15	UPnP ControlValve:1 Service	ISO/IEC 29341-6-10
UPnP HouseStatus:1 Service ISO/IEC 29341-6-13 UPnP HVAC_SetpointSchedule:1 Service ISO/IEC 29341-6-14 UPnP TemperatureSensor:1 Service ISO/IEC 29341-6-15	UPnP HVAC_FanOperatingMode:1 Service	ISO/IEC 29341-6-11
UPnP HVAC_SetpointSchedule:1 Service ISO/IEC 29341-6-14 UPnP TemperatureSensor:1 Service ISO/IEC 29341-6-15	UPnP FanSpeed:1 Service	ISO/IEC 29341-6-12
UPnP TemperatureSensor:1 Service ISO/IEC 29341-6-15	UPnP HouseStatus:1 Service	ISO/IEC 29341-6-13
	UPnP HVAC_SetpointSchedule:1 Service	ISO/IEC 29341-6-14
UPnP TemperatureSetpoint:1 Service ISO/IEC 29341-6-16	UPnP TemperatureSensor:1 Service	ISO/IEC 29341-6-15
	UPnP TemperatureSetpoint:1 Service	ISO/IEC 29341-6-16

UPnP HVAC_UserOperatingMode:1 Service	ISO/IEC 29341-6-17
UPnP HVAC_ZoneThermostat:1 Device	ISO/IEC 29341-6-17
UPnP BinaryLight:1 Device	ISO/IEC 29341-7-1
UPnP Dimming:1 Service	ISO/IEC 29341-7-10
UPnP SwitchPower:1 Service	ISO/IEC 29341-7-11
UPnP DimmableLight:1 Device	ISO/IEC 29341-7-11
UPnP InternetGatewayDevice:1 Device	ISO/IEC 29341-7-2
UPnP LANHostConfigManagement:1 Service	ISO/IEC 29341-8-10
UPnP Layer3Forwarding:1 Service	ISO/IEC 29341-8-10
UPnP LinkAuthentication:1 Service	ISO/IEC 29341-8-11
UPnP RadiusClient:1 Service	ISO/IEC 29341-8-13
UPnP WANCableLinkConfig:1 Service	ISO/IEC 29341-8-14
-	ISO/IEC 29341-8-15
UPnP WANCommonInterfaceConfig:1 Service UPnP WANDSLLinkConfig:1 Service	ISO/IEC 29341-8-16
•	ISO/IEC 29341-8-17
UPnP WANIPConnection:1 Service UPnP WANIPConnection:1 Service	ISO/IEC 29341-6-17
UPnP WANPOTSLinkConfig:1 Service	ISO/IEC 29341-8-19
UPnP LANDevice:1 Device	ISO/IEC 29341-8-2
UPnP WANPPPConnection:1 Service	ISO/IEC 29341-8-20
UPnP WLANConfiguration:1 Service	ISO/IEC 29341-8-21
UPnP WANDevice:1 Device	ISO/IEC 29341-8-3
UPnP WANConnectionDevice:1 Device	ISO/IEC 29341-8-4
UPnP WLANAccessPointDevice:1 Device	ISO/IEC 29341-8-5
UPnP Printer:1 Device	ISO/IEC 29341-9-1
UPnP ExternalActivity:1 Service	ISO/IEC 29341-9-10
UPnP Feeder:1.0 Service	ISO/IEC 29341-9-11
UPnP PrintBasic:1 Service	ISO/IEC 29341-9-12
UPnP Scan:1 Service	ISO/IEC 29341-9-13
UPnP Scanner:1.0 Device	ISO/IEC 29341-9-2
UPnP QoS Architecture:1.0	ISO/IEC 29341-10-1
UPnP QosDevice:1 Service	ISO/IEC 29341-10-10
UPnP QosManager:1 Service	ISO/IEC 29341-10-11
UPnP QosPolicyHolder:1 Service	ISO/IEC 29341-10-12
UPnP QoS Architecture:2	ISO/IEC 29341-11-1
UPnP QosDevice:2 Service	ISO/IEC 29341-11-10
UPnP QosManager:2 Service	ISO/IEC 29341-11-11
UPnP QosPolicyHolder:2 Service	ISO/IEC 29341-11-12
UPnP QOS v2 Schema Files	ISO/IEC 29341-11-2
UPnP RemoteUIClientDevice:1 Device	ISO/IEC 29341-12-1
UPnP RemoteUIClient:1 Service	ISO/IEC 29341-12-10
UPnP RemoteUIServer:1 Service	ISO/IEC 29341-12-11
UPnP RemoteUIServerDevice:1 Device	ISO/IEC 29341-12-2
UPnP DeviceSecurity:1 Service	ISO/IEC 29341-13-10
UPnP SecurityConsole:1 Service	ISO/IEC 29341-13-11
UPnP ContentDirectory:3 Service	ISO/IEC 29341-14-12:2011
UPnP MediaServer:3 Device	ISO/IEC 29341-14-3:2011

LIDnD ContentSync:1	ISO/IEC 29341-15-10:2011
UPnP ContentSync:1 UPnP Low Power Architecture:1	ISO/IEC 29341-16-1:2011
UPnP LowPowerProxy:1 Service	ISO/IEC 29341-16-10:2011
UPnP LowPowerDevice:1 Service	ISO/IEC 29341-16-11:2011
UPnP QoS Architecture:3	ISO/IEC 29341-10-11:2011
UPnP QosDevice:3 Service	ISO/IEC 29341-17-10:2011
UPnP QosManager:3 Service	ISO/IEC 29341-17-10:2011
UPnP QosPolicyHolder:3 Service	ISO/IEC 29341-17-11:2011
UPnP QosDevice:3 Addendum	ISO/IEC 29341-17-12:2011
UPnP RemoteAccessArchitecture:1	ISO/IEC 29341-17-13.2011
UPnP InboundConnectionConfig:1 Service	ISO/IEC 29341-18-10:2011
UPnP RADAConfig:1 Service	ISO/IEC 29341-18-10:2011
_	ISO/IEC 29341-18-11:2011
UPnP RADASync:1 Service UPnP RATAConfig:1 Service	ISO/IEC 29341-18-13:2011
UPnP RAClient:1 Device	ISO/IEC 29341-18-13.2011
UPnP RAServer:1 Device	ISO/IEC 29341-18-3:2011
UPnP RADiscoveryAgent:1 Device UPnP SolarProtectionBlind:1 Device	ISO/IEC 29341-18-4:2011
	ISO/IEC 29341-19-1:2011
UPnP TwoWayMotionMotor:1 Service	ISO/IEC 29341-19-10:2011
UPnP AV Architecture:2	ISO/IEC 29341-20-1
UPnP AVTransport:3 Service	ISO/IEC 29341-20-10
UPnP ConnectionManager:3 Service	ISO/IEC 29341-20-11
UPnP ContentDirectory:4 Device	ISO/IEC 29341-20-12
UPnP RenderingControl:3 Service	ISO/IEC 29341-20-13
UPnP ScheduledRecording:2 Service	ISO/IEC 29341-20-14
UPnP MediaRenderer:3 Service	ISO/IEC 29341-20-2
UPnP MediaServer:4 Device	ISO/IEC 29341-20-3
UPnP AV Datastructure Template:1	ISO/IEC 29341-20-4
UPnP InternetGatewayDevice:2 Device	ISO/IEC 29341-24-1
UPnP WANIPConnection:2 Service	ISO/IEC 29341-24-10
UPnP WANIPv6FirewallControl:1 Service	ISO/IEC 29341-24-11
UPnP WANConnectionDevice:2 Service	ISO/IEC 29341-24-2
UPnP WANDevice:2 Device	ISO/IEC 29341-24-3
UPnP Telephony Architecture:2	ISO/IEC 29341-26-1
UPnP CallManagement:2 Service	ISO/IEC 29341-26-10
UPnP MediaManagement:2 Service	ISO/IEC 29341-26-11
UPnP Messaging:2 Service	ISO/IEC 29341-26-12
UPnP PhoneManagement:2 Service	ISO/IEC 29341-26-13
UPnP AddressBook:1 Service	ISO/IEC 29341-26-14
UPnP Calendar:1 Service	ISO/IEC 29341-26-15
UPnP Presense:1 Service	ISO/IEC 29341-26-16
UPnP TelephonyClient:2 Device	ISO/IEC 29341-26-2
UPnP TelephonyServer:2 Device	ISO/IEC 29341-26-3
UPnP Friendly Info Update:1 Service	ISO/IEC 29341-27-1
UPnP MultiScreen MultiScreen Architecture:1	ISO/IEC 29341-28-1
UPnP MultiScreen Application Management:1 Service	ISO/IEC 29341-28-10

UPnP MultiScreen Screen:1 Device	ISO/IEC 29341-28-2
UPnP MultiScreen Application Management:2 Service	ISO/IEC 29341-29-10
UPnP MultiScreen Screen:2 Device	ISO/IEC 29341-29-2
UPnP IoT Management and Control Architecture Overview:1	ISO/IEC 29341-30-1
UPnP DataStore:1 Service	ISO/IEC 29341-30-10
UPnP IoT Management and Control Data Model:1 Service	ISO/IEC 29341-30-11
UPnP IoT Management and Control Transport Generic:1	
Service	ISO/IEC 29341-30-12
UPnP IoT Management and Control:1 Device	ISO/IEC 29341-30-2
UPnP Energy Management:1 Service	ISO/IEC 29341-31-1

1 Scope

This document defines a device type named <u>TelephonyClient</u>, that complies with [1].

The <u>TelephonyClient</u> device is a UPnP device that allows control points to exploit a set of telephony features such as management of media session with a telephony server, messaging, presence etc via UPnP though other UPnP enabled home network devices. This device provides control points with the following functionality:

- Managing media session with a telephony server including setting up and terminating of media session with a telephony server.
- Messaging features including sending and retrieving messages and notifications of incoming messages.
- · Enabling user friendly input capability.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

[1] — UPnP Device Architecture, version 1.0, UPnP Forum, October 15, 2008. Available at: http://www.upnp.org/specs/arch/UPnP-arch-DeviceArchitecture-v1.0-20081015.pdf. Latest version available at: http://www.upnp.org/specs/arch/UPnP-arch-DeviceArchitecture-v1.0.pdf.

[2] – Extensible Markup Language (XML) 1.0 (Third Edition), François Yergeau, Tim Bray, Jean Paoli, C. M. Sperberg-McQueen, Eve Maler, eds., W3C Recommendation, February 4, 2004. Available at: http://www.w3.org/TR/2004/REC-xml-20040204/.