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**Information technology — UPnP  
Device Architecture —**

**Part 26-16:  
Telephony device control protocol —  
Level 2 — Presence service**

*Technologies de l'information — Architecture de dispositif UPnP —  
Partie 26-16: Protocole de contrôle de dispositif de téléphonie —  
Niveau 2 — Service de présence*

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ISO/IEC 29341-26-16 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](#).

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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 Document Title                             | ISO/IEC 29341 Part      |
|-------------------------------------------------|-------------------------|
| 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 29341-1-1:2011  |
| 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 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 29341-3-2:2011  |
| 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 29341-4-11:2008 |
| 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 29341-4-13:2008 |
| 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 29341-4-4:2008  |
| UPnP AV Datastructure Template:1                | ISO/IEC 29341-4-4:2011  |
| UPnP DigitalSecurityCamera:1 Device             | ISO/IEC 29341-5-1       |
| UPnP DigitalSecurityCameraMotionImage:1 Service | ISO/IEC 29341-5-10      |
| UPnP DigitalSecurityCameraSettings:1 Service    | ISO/IEC 29341-5-11      |
| UPnP DigitalSecurityCameraStillImage:1 Service  | ISO/IEC 29341-5-12      |
| 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 TemperatureSetpoint:1 Service              | ISO/IEC 29341-6-16      |

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| UPnP HVAC_UserOperatingMode:1 Service   | ISO/IEC 29341-6-17       |
| UPnP HVAC_ZoneThermostat:1 Device       | ISO/IEC 29341-6-2        |
| 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 29341-7-2        |
| UPnP InternetGatewayDevice:1 Device     | ISO/IEC 29341-8-1        |
| UPnP LANHostConfigManagement:1 Service  | ISO/IEC 29341-8-10       |
| UPnP Layer3Forwarding:1 Service         | ISO/IEC 29341-8-11       |
| UPnP LinkAuthentication:1 Service       | ISO/IEC 29341-8-12       |
| UPnP RadiusClient:1 Service             | ISO/IEC 29341-8-13       |
| UPnP WANCableLinkConfig:1 Service       | ISO/IEC 29341-8-14       |
| UPnP WANCommonInterfaceConfig:1 Service | ISO/IEC 29341-8-15       |
| UPnP WANDSLLinkConfig:1 Service         | ISO/IEC 29341-8-16       |
| UPnP WANEthernetLinkConfig:1 Service    | ISO/IEC 29341-8-17       |
| UPnP WANIPConnection:1 Service          | ISO/IEC 29341-8-18       |
| 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  |

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|                                                   |                          |
|---------------------------------------------------|--------------------------|
| UPnP ContentSync:1                                | ISO/IEC 29341-15-10:2011 |
| 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 29341-17-1:2011  |
| UPnP QoSDevice:3 Service                          | ISO/IEC 29341-17-10:2011 |
| UPnP QoSManager:3 Service                         | ISO/IEC 29341-17-11:2011 |
| UPnP QoSPolicyHolder:3 Service                    | ISO/IEC 29341-17-12:2011 |
| UPnP QoSDevice:3 Addendum                         | ISO/IEC 29341-17-13:2011 |
| UPnP RemoteAccessArchitecture:1                   | ISO/IEC 29341-18-1:2011  |
| UPnP InboundConnectionConfig:1 Service            | ISO/IEC 29341-18-10:2011 |
| UPnP RADAConfig:1 Service                         | ISO/IEC 29341-18-11:2011 |
| UPnP RADASync:1 Service                           | ISO/IEC 29341-18-12:2011 |
| UPnP RATAConfig:1 Service                         | ISO/IEC 29341-18-13:2011 |
| UPnP RAClient:1 Device                            | ISO/IEC 29341-18-2:2011  |
| UPnP RAServer:1 Device                            | ISO/IEC 29341-18-3:2011  |
| UPnP RADiscoveryAgent:1 Device                    | ISO/IEC 29341-18-4:2011  |
| UPnP SolarProtectionBlind:1 Device                | 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 service definition is compliant with the [1]. It defines a service type referred to herein as Presence service.

The Presence service is a UPnP service that allows control points, or better known as Telephony Control Points (TelCP), to manage presence information through a Telephony Server (TS) device or a Telephony Client (TC) device (in the role of UPnP server device for Presence service). This service provides control points with the following functionality:

- Presence of contacts, access the presence information of contacts, as provided by the UPnP Telephony Server device. Contacts referenced by the Presence service may be managed via PhoneManagement service and the *Phone Data Model*.
- Managing presence information, update the presence status stored in the TS;

This service does not provide the following functionality:

- To update the presence status of the local UPnP network, from the UPnP server device to remote presence servers (i.e. outside the local UPnP network).
- To retrieve the presence information of contacts from remote presence servers (i.e. outside the local UPnP network).

When the features provided by the Presence service are associated to the PhoneManagement features, then an integrated management of the address book and the presence of contacts in the address book can be delivered.

## 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] – Data elements and interchange formats – Information interchange -- Representation of dates and times, International Standards Organization, December 21, 2000. Available at: [ISO 8601:2000](http://www.iso.org/iso/8601.html).

[3] – IETF RFC 2046, Multipurpose Internet Mail Extensions (MIME) Part Two: Media Types, N. Freed, Innosoft, N. Borenstein, First Virtual, November 1996. Available at: <http://www.ietf.org/rfc/rfc2046.txt>.

[4] – IETF RFC 2119, Key words for use in RFCs to Indicate Requirement Levels, S. Bradner, 1997. Available at: <http://www.faqs.org/rfcs/rfc2119.html>.

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### 3 Terms, definitions, symbols and abbreviated terms

For the purposes of this document, the terms and definitions given in [1] and the following apply.

#### 3.1 Provisioning terms

##### 3.1.1

##### **conditionally allowed**

##### **CA**

The definition or behavior depends on a condition. If the specified condition is met, then the definition or behavior is allowed, otherwise it is not allowed.

##### 3.1.2

##### **conditionally required**

##### **CR**

The definition or behavior depends on a condition. If the specified condition is met, then the definition or behavior is required, otherwise it is not allowed.

##### 3.1.3

##### **not allowed**

The definition or behavior is prohibited by this specification. Opposite of required.