



ISO/IEC 29341-9-2

Edition 1.0 2008-11

# INTERNATIONAL STANDARD

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**Information technology – UPnP Device Architecture –  
Part 9-2: Imaging Device Control Protocol – Scanner Device**

INTERNATIONAL  
ELECTROTECHNICAL  
COMMISSION

PRICE CODE

C

ICS 35.200

ISBN 978-2-88910-893-0

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### **Part 9-2: Imaging Device Control Protocol – Scanner Device**

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ISO/IEC 29341-9-2 was prepared by UPnP Implementers Corporation 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 the ISO/IEC 29341 series, under the general title *Universal plug and play (UPnP) architecture*, can be found on the IEC web site.

This International Standard has been approved by vote of the member bodies, and the voting results may be obtained from the address given on the second title page.

## ORIGINAL UPnP DOCUMENTS (informative)

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. 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     |
| UPnP Basic:1 Device                             | ISO/IEC 29341-2     |
| UPnP AV Architecture:1                          | ISO/IEC 29341-3-1   |
| UPnP MediaRenderer:1 Device                     | ISO/IEC 29341-3-2   |
| UPnP MediaServer:1 Device                       | ISO/IEC 29341-3-3   |
| 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: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   |
| UPnP AVTransport:2 Service                      | ISO/IEC 29341-4-10  |
| UPnP ConnectionManager:2 Service                | ISO/IEC 29341-4-11  |
| UPnP ContentDirectory: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 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 HVAC_ZoneThermostat:1 Device               | ISO/IEC 29341-6-2   |
| 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  |
| UPnP HVAC_UserOperatingMode:1 Service           | ISO/IEC 29341-6-17  |
| UPnP BinaryLight:1 Device                       | ISO/IEC 29341-7-1   |
| UPnP DimmableLight:1 Device                     | ISO/IEC 29341-7-2   |
| UPnP Dimming:1 Service                          | ISO/IEC 29341-7-10  |
| UPnP SwitchPower:1 Service                      | ISO/IEC 29341-7-11  |
| UPnP InternetGatewayDevice:1 Device             | ISO/IEC 29341-8-1   |
| UPnP LANDevice:1 Device                         | ISO/IEC 29341-8-2   |
| 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 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 WANPPPPConnection:1 Service                | ISO/IEC 29341-8-20  |
| UPnP WLANConfiguration:1 Service                | ISO/IEC 29341-8-21  |
| UPnP Printer:1 Device                           | ISO/IEC 29341-9-1   |
| UPnP Scanner:1.0 Device                         | ISO/IEC 29341-9-2   |
| 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 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 QOS v2 Schema Files                        | ISO/IEC 29341-11-2  |

| <b>UPnP Document Title</b>         | <b>ISO/IEC 29341 Part</b> |
|------------------------------------|---------------------------|
| 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 RemoteUIClientDevice:1 Device | ISO/IEC 29341-12-1        |
| UPnP RemoteUIServerDevice:1 Device | ISO/IEC 29341-12-2        |
| UPnP RemoteUIClient:1 Service      | ISO/IEC 29341-12-10       |
| UPnP RemoteUIServer:1 Service      | ISO/IEC 29341-12-11       |
| UPnP DeviceSecurity:1 Service      | ISO/IEC 29341-13-10       |
| UPnP SecurityConsole:1 Service     | ISO/IEC 29341-13-11       |

# 1. Overview and Scope

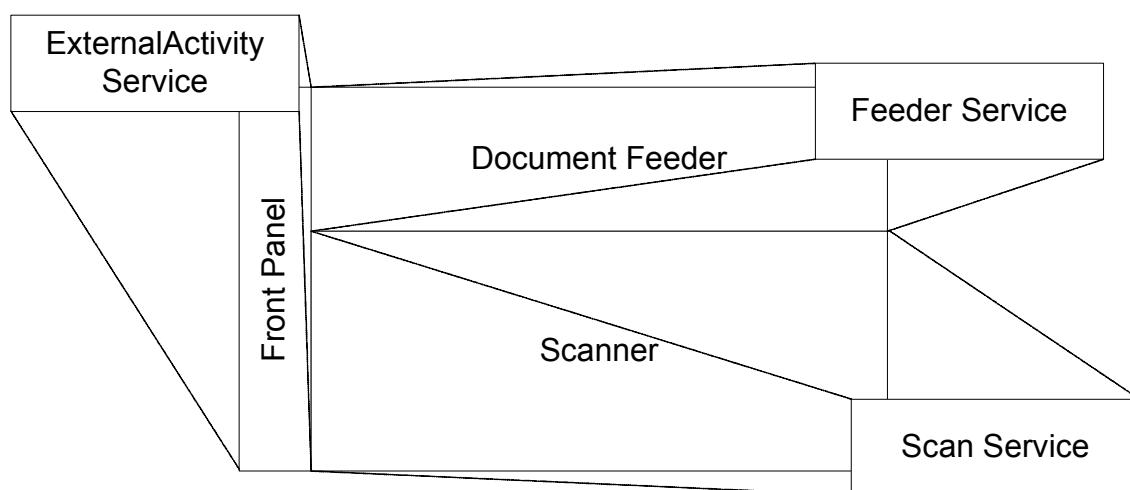
This device template is compliant with the UPnP Device Architecture, Version 1.0.

Scanner:1 represents a Scanner device with an optional feeder and minimal front panel. The associated services may be used to configure and initiate a scan operation, control the use of a feeder, and identify the intended recipients of front-panel interactions. The following services are defined:

- Scan – Used to acquire image files that represent the document(s)
- Feeder – Used to configure and independently control an optional document feeder
- ExternalActivity – Used to configure and interact with a simple front panel on the device

This device template does not address:

- Fax or Copy functions



**Figure 1 - Scanner Device Functional Diagram**