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INTERNATIONAL STANDARD

Information technology – UPnP Device Architecture – Part 9-1: Imaging Device Control Protocol LePrinter Device

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Information technology - DPnA Device Architecture VIEW Part 9-1: Imaging Device Control Protocol - Printer Device

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INFORMATION TECHNOLOGY – UPNP DEVICE ARCHITECTURE –

Part 9-1: Imaging Device Control Protocol – Printer Device

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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:

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UPnP ControlValve:1 Service ISO/IEC 29341-6-10 UPnP HVAC_FanOperatingMode:1 Service_9-12008 ISO/IEC 29341-6-11 UPnP FanSpeed:1 Service atalog/standards/sist/c4ecbet ISO/IEC 29341-6-12 UPnP House Status:1 Service atalog/standards/sist/c4ecbet ISO/IEC 29341-6-13 UPnP HVAC_SetpointSchedule:1 Service ISO/IEC 29341-6-14 UPnP TemperatureSensor:1 Service ISO/IEC 29341-6-14 UPnP TemperatureSetpoint:1 Service ISO/IEC 29341-6-16 UPnP TemperatureSetpoint:1 Service ISO/IEC 29341-6-16 UPnP BinaryLight:1 Device ISO/IEC 29341-6-16 UPnP DimmableLight:1 Device ISO/IEC 29341-6-17 UPnP DimmableLight:1 Device ISO/IEC 29341-7-1 UPnP DimmableLight:1 Device ISO/IEC 29341-7-1 UPnP DimmableLight:1 Device ISO/IEC 29341-7-1 UPnP DimmableLight:1 Device ISO/IEC 29341-8-1 UPnP ManDevice:1 Device ISO/IEC 29341-8-1 UPnP LanderSatewayDevice:1 Device ISO/IEC 29341-8-1 UPnP WANDevice:1 Device ISO/IEC 29341-8-1 UPnP WANDevice:1 Device ISO/IEC 29341-8-1 UPnP WANDevice:1 Device ISO/IEC 29341-8-1 UPnP Layer3Forwarding:1 Service	UPnP HVAC_Systems Device (12 r as 1 ten. 2	ISO/IEC 29341-6-1
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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 29341-7-10 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 WANDevice:1 Device ISO/IEC 29341-8-2 UPnP WANDevice:1 Device ISO/IEC 29341-8-3 UPnP WANDconnectionDevice:1 Device ISO/IEC 29341-8-3 UPnP WANACcessPointDevice:1 Device ISO/IEC 29341-8-3 UPnP WANACcessPointDevice:1 Device ISO/IEC 29341-8-5 UPnP Layer3Forwarding:1 Service ISO/IEC 29341-8-5 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 29341-8-13 UPnP WANCableLinkConfig:1 Service ISO/IEC 29341-8-15 UPnP WANDSLLinkConfig:1 Service ISO/IEC 29341-8-15 UPnP WANPOTSLinkConfig:1 Service ISO/IEC 29341-8-10 <td></td> <td></td>		
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1. Overview and Scope

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

Printer:1 provides the following functionality:

• <u>Printing</u>

This device template does not address:

• Faxing

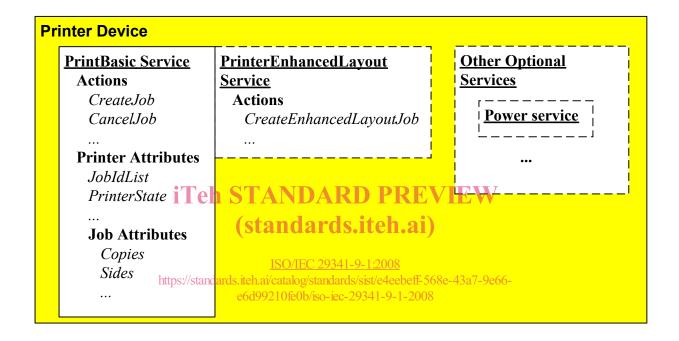


Figure 1 Printer:1 Functional Diagram

The above model illustrates a Printer device with the required service of PrintBasic Service. The PrintBasic Service includes print-related attributes along with all job-related attributes (e.g., JobName, DocumentFormat, Copies, etc). The number of Jobs accepted by the service is vendor dependent. Other jobs that may be queued to print are not accessible to the client. However, it is possible to get a list of all jobs using a JobIDList attribute (a comma-separated list of JobIDs) and cancel a specific job using the JobID. The JobIDList attribute enables a control point to obtain the JobID of the active job. In this model, printer-related events, as well as all job-related events, are sent to the subscribed clients. The client must filter for their specific job events.

The PrintBasic Service is mandatory in a Printer Device. Additional services may be present. One of these optional services is the PrintEnhancedLayout Service. The PrintEnhancedLayout Service extends the PrintBasic service with additional operations and semantics. The PrintEnhancedLayout Service makes use of the Printer and Job attributes from the PrintBasic Service.