

### ISO/IEC 29341-6-10

Edition 1.0 2008-11

# INTERNATIONAL STANDARD

Information technology – UPnP Device Architecture – Part 6-10: Heating, Ventilation, and Air Conditioning Device Control Protocol – Control Valve Service

INTERNATIONAL ELECTROTECHNICAL COMMISSION

PRICE CODE

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## INFORMATION TECHNOLOGY – UPNP DEVICE ARCHITECTURE –

### Part 6-10: Heating, Ventilation and Air Conditioning Device Control Protocol – Control Valve Service

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ISO/IEC 29341-6-10 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.

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## 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 Basic:1 Device   ISO/IEC 29341-1   UPnP Basic:1 Device   ISO/IEC 29341-3   UPnP MediaRenderer:1 Device   ISO/IEC 29341-3-2   UPnP MediaRenderer:1 Device   ISO/IEC 29341-3-3   UPnP AVTransport:1 Service   ISO/IEC 29341-3-3   UPnP AVTransport:1 Service   ISO/IEC 29341-3-10   UPnP ConnectionManager:1 Service   ISO/IEC 29341-3-10   UPnP ConnectionManager:1 Service   ISO/IEC 29341-3-11   UPnP ConnectionManager:2 Service   ISO/IEC 29341-3-12   UPnP RenderingControl:1 Service   ISO/IEC 29341-3-12   UPnP MediaRenderer:2 Device   ISO/IEC 29341-3-12   UPnP MediaRenderer:2 Device   ISO/IEC 29341-4-1   UPnP AVTransport:2 Service   ISO/IEC 29341-4-1   UPnP AVTransport:2 Service   ISO/IEC 29341-4-1   UPnP ConnectionManager:2 Service   ISO/IEC 29341-4-1   UPnP ConnectionManager:2 Service   ISO/IEC 29341-4-1   UPnP ConnectionManager:2 Service   ISO/IEC 29341-4-1   UPnP DigitalSecurityCamera:1 Device   ISO/IEC 29341-4-1   UPnP DigitalSecurityCameraStitings:1 Service   UPnP DigitalSecurityCameraStitings:1 Service   ISO/IEC 29341-5-1   UPnP DigitalSecurityCameraStitings:1 Service   UPnP DigitalSecurityCameraStitings:1 Service   ISO/IEC 29341-5-1   UPnP HVAC_ZoneThermostat:1 Device   ISO/IEC 29341-5-1   UPnP HVAC_ZoneThermostat:1 Device   ISO/IEC 29341-6-1   UPnP HVAC_ZoneThermostat:1 Device   ISO/IEC 29341-6-1   UPnP HVAC_SetpointSchedule:1 Service   ISO/IEC 29341-6-1   UPnP HVAC_SetpointSchedule:1 Service   ISO/IEC 29341-6-1   UPnP TemperatureSensor:1 Service   ISO/IEC 29341-6-1   UPnP DimmableLipht:1 Device   ISO/IEC 29341-8-1   UPnP DimmableLipht: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 MANDevice:1 Devi	UPnP Document Title	ISO/IEC 29341 Part
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UPnP RenderingControl:2 Service         ISO/IEC 29341-4-14           UPnP DigitalSecurityCamera:1 Device         ISO/IEC 29341-5-1           UPnP DigitalSecurityCameraSettings:1 Service         ISO/IEC 29341-5-10           UPnP DigitalSecurityCameraSettings:1 Service         ISO/IEC 29341-5-11           UPnP DigitalSecurityCameraStillImage:1 Service         ISO/IEC 29341-5-11           UPnP DHVAC_System:1 Device         ISO/IEC 29341-6-1           UPnP HVAC_System:1 Device         ISO/IEC 29341-6-1           UPnP ControlValve:1 Service         ISO/IEC 29341-6-1           UPnP HVAC_FanOperatingMode:1 Service         ISO/IEC 29341-6-1           UPnP HVAC_SetpointSchedule:1 Service         ISO/IEC 29341-6-1           UPnP HVAC_SetpointSchedule:1 Service         ISO/IEC 29341-6-1           UPnP TemperatureSensor:1 Service         ISO/IEC 29341-6-1           UPnP TemperatureSetpoint:1 Service         ISO/IEC 29341-6-16           UPnP DimmableLight:1 Device         ISO/IEC 29341-7-1           UPnP DimmableLight:1 Device         ISO/IEC 29341-7-2           UPnP DimmableLight:1 Device         ISO/IEC 29341-7-2           UPnP DimmableLight: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		
UPnP ScheduledRecording:1         ISO/IEC 29341-5-1           UPnP DigitalSecurityCameraMotionImage:1 Service         ISO/IEC 29341-5-1           UPnP DigitalSecurityCameraSettings:1 Service         ISO/IEC 29341-5-1           UPnP DigitalSecurityCameraSettillmage:1 Service         ISO/IEC 29341-5-12           UPnP DigitalSecurityCameraStillImage:1 Service         ISO/IEC 29341-5-12           UPnP HVAC_System:1 Device         ISO/IEC 29341-6-1           UPnP HVAC_TenOperatingMode:1 Service         ISO/IEC 29341-6-1           UPnP HVAC_FanOperatingMode:1 Service         ISO/IEC 29341-6-1           UPnP HVAC_SetopinitSchedule:1 Service         ISO/IEC 29341-6-1           UPnP HVAC_SetopinitSchedule:1 Service         ISO/IEC 29341-6-1           UPnP HouseStatus:1 Service         ISO/IEC 29341-6-1           UPnP BramperatureSetpoint:1 Service         ISO/IEC 29341-7-1 <td></td> <td></td>		
UPnP DigitalSecurityCamera:1 Device         ISO/IEC 29341-5-10           UPnP DigitalSecurityCameraeMotionImage:1 Service         ISO/IEC 29341-5-10           UPnP DigitalSecurityCameraeStillImage:1 Service         ISO/IEC 29341-5-11           UPnP HVAC_System:1 Device         ISO/IEC 29341-6-1           UPnP HVAC_System:1 Device         ISO/IEC 29341-6-1           UPnP ControlValve:1 Service         ISO/IEC 29341-6-1           UPnP HVAC_FanOperatingMode:1 Service         ISO/IEC 29341-6-10           UPnP HouseStatus:1 Service         ISO/IEC 29341-6-13           UPnP HOuseStatus:1 Service         ISO/IEC 29341-6-13           UPnP HOuseStatus:1 Service         ISO/IEC 29341-6-14           UPnP TemperatureSensor:1 Service         ISO/IEC 29341-6-16           UPnP TemperatureSetpoint:1 Service         ISO/IEC 29341-6-16           UPnP Dimming:1 Service         ISO/IEC 29341-6-16           UPnP Dimming:1 Service         ISO/IEC 29341-6-17           UPnP Dimming:1 Service         ISO/IEC 29341-6-18           UPnP Dimming:1 Service         ISO/IEC 29341-7-10           UPnP Device:1 Device         ISO/IEC 29341-7-10           UPnP Device: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 WAN		
UPnP DigitalSecurityCameraMotionImage:1 Service         ISO/IEC 29341-5-10           UPnP DigitalSecurityCameraSettlings:1 Service         ISO/IEC 29341-5-11           UPnP DigitalSecurityCameraStilImage:1 Service         ISO/IEC 29341-6-1           UPnP HVAC_System:1 Device         ISO/IEC 29341-6-1           UPnP HVAC_ZoneThermostat:1 Device         ISO/IEC 29341-6-1           UPnP HVAC_FanOperatingMode:1 Service         ISO/IEC 29341-6-12           UPnP HVAC_SetpointSchedule: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_UserOperatingMode:1 Service         ISO/IEC 29341-6-16           UPnP BimaryLight:1 Device         ISO/IEC 29341-6-16           UPnP BimaryLight:1 Device         ISO/IEC 29341-6-16           UPnP Dimming:1 Service         ISO/IEC 29341-6-16           UPnP Dimming:1 Service         ISO/IEC 29341-7-1           UPnP Dimming:1 Service         ISO/IEC 29341-7-1           UPnP InternetGatewayDevice: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 WANDationing:1 Service         ISO/IEC		
UPnP DigitalSecurityCameraStillmage:1 Service         ISO/IEC 29341-5-11           UPnP HVAC_System:1 Device         ISO/IEC 29341-5-12           UPnP HVAC_ZoneThermostat:1 Device         ISO/IEC 29341-6-1           UPnP HVAC_ZoneThermostat:1 Device         ISO/IEC 29341-6-1           UPnP HVAC_FanOperatingMode:1 Service         ISO/IEC 29341-6-10           UPnP FanSpeed:1 Service         ISO/IEC 29341-6-12           UPnP HVAC_SetpointSchedule:1 Service         ISO/IEC 29341-6-13           UPnP TemperatureSensor:1 Service         ISO/IEC 29341-6-13           UPnP TemperatureSetpoint:1 Service         ISO/IEC 29341-6-16           UPnP BimanyLight:1 Device         ISO/IEC 29341-6-16           UPnP BimanyLight:1 Device         ISO/IEC 29341-6-16           UPnP DimmanyLight:1 Device         ISO/IEC 29341-6-16           UPnP DimmanyLight:1 Device         ISO/IEC 29341-6-16           UPnP DimmableLight:1 Device         ISO/IEC 29341-7-10           UPnP DimmableLight:1 Device         ISO/IEC 29341-8-1           UPnP WANDevice:1 Device         ISO/IEC 29341-8-1		
UPnP DigitalSecurityCameraStillmage:1 Service         ISO/IEC 29341-5-12           UPnP HVAC_ZoneThermostat:1 Device         ISO/IEC 29341-6-1           UPnP HVAC_FanOperatingMode:1 Service         ISO/IEC 29341-6-1           UPnP HVAC_FanOperatingMode:1 Service         ISO/IEC 29341-6-11           UPnP HouseStatus:1 Service         ISO/IEC 29341-6-13           UPnP HOSE Status:1 Service         ISO/IEC 29341-6-13           UPnP TemperatureSensor:1 Service         ISO/IEC 29341-6-14           UPnP TemperatureSetpoint:1 Service         ISO/IEC 29341-6-15           UPnP TemperatureSetpoint:1 Service         ISO/IEC 29341-6-15           UPnP DimmaperatureSetpoint:1 Service         ISO/IEC 29341-6-16           UPnP DimmaperatureSetpoint:1 Service         ISO/IEC 29341-6-17           UPnP DimmaperatureSetpoint:1 Service         ISO/IEC 29341-6-17           UPnP DimmaperatureSetpoint:1 Device         ISO/IEC 29341-7-1           UPnP Dimming:1 Service         ISO/IEC 29341-7-1           UPnP Dimming:1 Service         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 29341-8-3           UPnP WANDactonfighManagement:1 Service         ISO/IEC 29341-8-1           UPnP WANDactonfighManagement:1 Service		
UPnP HVAC_ZoneThermostat:1 Device         ISO/IEC 29341-6-1           UPnP ControlValve:1 Service         ISO/IEC 29341-6-10           UPnP FanSpeed:1 Service         ISO/IEC 29341-6-11           UPnP FanSpeed:1 Service         ISO/IEC 29341-6-11           UPnP HVAC_SetpointSchedule: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 TemperatureSepoint:1 Service         ISO/IEC 29341-6-15           UPnP TemperatureSepoint:1 Service         ISO/IEC 29341-6-15           UPnP TemperatureSepoint:1 Service         ISO/IEC 29341-6-15           UPnP DimmarbleLight:1 Device         ISO/IEC 29341-6-15           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 Wanter Device:1 Device         ISO/IEC 29341-8-1           UPnP DimmableLight:1 Device         ISO/IEC 29341-8-1           UPnP LANDevice:1 Device         ISO/IEC 29341-8-1           UPnP WANDevice:1 Device         ISO/IEC 29341-8-1           UPnP WANConnectionDevice:1 Device         ISO/IEC 29341-8-1           UPnP WANDevice:1 Service         ISO/IEC 29341-8-1 <t< td=""><td></td><td></td></t<>		
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 HVAC_SetpointSchedule:1 Service         ISO/IEC 29341-6-13           UPnP HVAC_SetpointSchedule:1 Service         ISO/IEC 29341-6-13           UPnP TemperatureSensor:1 Service         ISO/IEC 29341-6-16           UPnP TemperatureSetpoint:1 Service         ISO/IEC 29341-6-16           UPnP HVAC_UserOperatingMode:1 Service         ISO/IEC 29341-6-16           UPnP DimmableLight:1 Device         ISO/IEC 29341-7-1           UPnP DimmableLight:1 Device         ISO/IEC 29341-7-1           UPnP DimmableLight:1 Device         ISO/IEC 29341-7-10           UPnP P SwitchPower:1 Service         ISO/IEC 29341-7-10           UPnP Device:1 Device         ISO/IEC 29341-8-1           UPnP WANDevice: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 WANDevice:1 Device         ISO/IEC 29341-8-1           UPnP Layer3Forwarding:1 Service         ISO/IEC 29341-8-1           UPnP WANDevice:1 Service         ISO/IEC 29341-8-10           UPnP WANConfig:1 Service         ISO/IEC 29341-8-14           U	UPnP DigitalSecurityCameraStillimage:1 Service	
UPnP ControlValve:1 Service         ISO/IEC 29341-6-10           UPnP HVAC_FanOperating/Mode:1 Service         ISO/IEC 29341-6-11           UPnP HouseStatus: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 29341-6-16           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 29341-7-1           UPnP DimmableLight:1 Device         ISO/IEC 29341-7-1           UPnP DimmableLight:1 Device         ISO/IEC 29341-7-1           UPnP SwitchPower:1 Service         ISO/IEC 29341-7-1           UPnP SwitchPower:1 Service         ISO/IEC 29341-8-1           UPnP LANDevice:1 Device         ISO/IEC 29341-8-1           UPnP WANDevice:1 Device         ISO/IEC 29341-8-3           UPnP WANDevice:1 Device         ISO/IEC 29341-8-3           UPnP WANDevice:1 Device         ISO/IEC 29341-8-5           UPnP WANDevice:1 Device         ISO/IEC 29341-8-5           UPnP WANDevice:1 Service         ISO/IEC 29341-8-5           UPnP Layer3Forwarding:1 S	LIDDD LIVAC ZanaThermostatid Davisa	
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 29341-6-14           UPnP HVAC_SetpointSchedule:1 Service         ISO/IEC 29341-6-15           UPnP TemperatureSetpoint: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 29341-7-1           UPnP SwitchPower:1 Service         ISO/IEC 29341-7-1           UPnP InternetGatewayDevice:1 Device         ISO/IEC 29341-8-1           UPnP LANDevice:1 Device         ISO/IEC 29341-8-1           UPnP WANDevice:1 Device         ISO/IEC 29341-8-2           UPnP WANDevice:1 Device         ISO/IEC 29341-8-5           UPnP Layer3Forwarding:1 Service         ISO/IEC 29341-8-5           UPnP Layer3Forwarding:1 Service         ISO/IEC 29341-8-1           UPnP WANCableLinkConfig:1 Service         ISO/IEC 29341-8-13           UPnP WANCableLinkConfig:1 Service         ISO/IEC 29341-8-14           UPnP WANPOTSLinkConfig:1 Service         ISO/IEC 29341-8-16		
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 29341-6-16           UPnP TemperatureSetpoint:1 Service         ISO/IEC 29341-6-16           UPnP HVAC_UserOperatingMode:1 Service         ISO/IEC 29341-6-17           UPnP DimmableLight: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 Dimming:1 Service         ISO/IEC 29341-7-10           UPnP Dimming:1 Service         ISO/IEC 29341-8-1           UPnP LANDevice:1 Device         ISO/IEC 29341-8-1           UPnP LANDevice:1 Device         ISO/IEC 29341-8-3           UPnP WANConnectionDevice:1 Device         ISO/IEC 29341-8-3           UPnP WANConnectionDevice:1 Device         ISO/IEC 29341-8-3           UPnP Layer3Forwarding:1 Service         ISO/IEC 29341-8-1           UPnP Layer3Forwarding:1 Service         ISO/IEC 29341-8-1           UPnP WANCableLinkConfig:1 Service         ISO/IEC 29341-8-1           UPnP WANCableLinkConfig:1 Service         ISO/IEC 29341-8-1           UPnP WANDESLLinkConfig:1 Service         ISO/IEC 29341-8-1		
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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 29341-7-1           UPnP SwitchPower:1 Service         ISO/IEC 29341-8-1           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 WLANAccessPointDevice:1 Device         ISO/IEC 29341-8-3           UPnP WLANAccessPointDevice:1 Device         ISO/IEC 29341-8-5           UPnP Layer3Forwarding:1 Service         ISO/IEC 29341-8-10           UPnP Layer3Forwarding:1 Service         ISO/IEC 29341-8-10           UPnP RadiusClient:1 Service         ISO/IEC 29341-8-11           UPnP WANCableLinkConfig:1 Service         ISO/IEC 29341-8-13           UPnP WANCableLinkConfig:1 Service         ISO/IEC 29341-8-15           UPnP WANIPConnection:1 Service         ISO/IEC 29341-8-10           UPnP WANPOTSLinkConfig:1 Service         ISO/IEC 29341-8-10 </td <td></td> <td></td>		
UPnP TemperatureSetpoint: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 29341-7-2           UPnP DimmableLight:1 Device         ISO/IEC 29341-7-2           UPnP Dimming:1 Service         ISO/IEC 29341-7-10           UPnP SwitchPower:1 Service         ISO/IEC 29341-8-1           UPnP InternetGatewayDevice:1 Device         ISO/IEC 29341-8-1           UPnP LANDevice:1 Device         ISO/IEC 29341-8-3           UPnP WANDevice:1 Device         ISO/IEC 29341-8-3           UPnP WANConnectionDevice:1 Device         ISO/IEC 29341-8-3           UPnP WANConnectionDevice:1 Device         ISO/IEC 29341-8-3           UPnP Layer3Forwarding:1 Service         ISO/IEC 29341-8-1           UPnP Layer3Forwarding:1 Service         ISO/IEC 29341-8-10           UPnP LinkAuthentication:1 Service         ISO/IEC 29341-8-10           UPnP RadiusClient:1 Service         ISO/IEC 29341-8-12           UPnP WANCommonInterfaceConfig:1 Service         ISO/IEC 29341-8-13           UPnP WANDSLLinkConfig:1 Service         ISO/IEC 29341-8-15           UPnP WANPPConnection:1 Service         ISO/IEC 29341-8-10           UPnP WANPPConnection:1 Service         ISO/IEC 29341-8-20		
UPnP TemperatureSetpoint:1 Service UPnP HVAC_UserOperatingMode:1 Service UPnP BinaryLight:1 Device UPnP DimmableLight:1 Device UPnP Dimming:1 Service UPnP Dimming:1 Service UPnP Dimming:1 Service UPnP Dimming:1 Service UPnP InternetGatewayDevice:1 Device UPnP WANDevice:1 Device UPnP WANDevice:1 Device UPnP WANConnectionDevice:1 Device UPnP WANConnectionDevice:1 Device UPnP Layer3Forwarding:1 Service UPnP Layer3Forwarding:1 Service UPnP WANCableLinkConfig:1 Service UPnP WANCommonInterfaceConfig:1 Service UPnP WANDSLLinkConfig:1 Service UPnP WANDSLLinkConfig:1 Service UPnP WANDEVICE:1 Service UPnP WANDConnection:1 Service UPnP WANCOMMONINTERCE UPNP WANCO		
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 29341-7-10           UPnP SwitchPower:1 Device         ISO/IEC 29341-8-1           UPnP InternetGatewayDevice:1 Device         ISO/IEC 29341-8-2           UPnP WANDevice:1 Device         ISO/IEC 29341-8-3           UPnP WANDevice:1 Device         ISO/IEC 29341-8-3           UPnP WANConnectionDevice:1 Device         ISO/IEC 29341-8-4           UPnP WANACcessPointDevice: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 P RadiusClient:1 Service         ISO/IEC 29341-8-12           UPnP WANCammonInterfaceConfig:1 Service         ISO/IEC 29341-8-13           UPnP WANDELLinkConfig:1 Service         ISO/IEC 29341-8-16           UPnP WANIPConnection:1 Service         ISO/IEC 29341-8-18           UPnP WANPOTSLinkConfig:1 Service         ISO/IEC 29341-8-20           UPnP P Scanner:1.0 Device         ISO/IEC 29341-8-20		
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 29341-8-1           UPnP InternetGatewayDevice:1 Device         ISO/IEC 29341-8-2           UPnP LANDevice:1 Device         ISO/IEC 29341-8-2           UPnP WANDevice:1 Device         ISO/IEC 29341-8-3           UPnP WANDevice:1 Device         ISO/IEC 29341-8-3           UPnP WANDaccessPointDevice:1 Device         ISO/IEC 29341-8-3           UPnP WANDaccessPointDevice:1 Device         ISO/IEC 29341-8-5           UPnP Layer3Forwarding:1 Service         ISO/IEC 29341-8-1           UPnP Layer3Forwarding:1 Service         ISO/IEC 29341-8-10           UPnP Layer3Forwarding:1 Service         ISO/IEC 29341-8-11           UPnP RadiusClient:1 Service         ISO/IEC 29341-8-12           UPnP RadiusClient:1 Service         ISO/IEC 29341-8-13           UPnP WANCableLinkConfig:1 Service         ISO/IEC 29341-8-13           UPnP WANDSLLinkConfig:1 Service         ISO/IEC 29341-8-15           UPnP WANIPConnection:1 Service         ISO/IEC 29341-8-16           UPnP WANPOTSLinkConfig:1 Service         ISO/IEC 29341-8-19           UPnP WANPOTSLinkConfig:1 Service         ISO/IEC 29341-8-20		
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 29341-8-3           UPnP WANAccessPointDevice:1 Device         ISO/IEC 29341-8-4           UPnP WANAccessPointDevice:1 Device         ISO/IEC 29341-8-5           UPnP Layer3Forwarding:1 Service         ISO/IEC 29341-8-1           UPnP LinkAuthentication:1 Service         ISO/IEC 29341-8-10           UPnP RadiusClient:1 Service         ISO/IEC 29341-8-13           UPnP RadiusClient:1 Service         ISO/IEC 29341-8-13           UPnP WANCableLinkConfig:1 Service         ISO/IEC 29341-8-13           UPnP WANDOMSLLinkConfig:1 Service         ISO/IEC 29341-8-15           UPnP WANIPConnection:1 Service         ISO/IEC 29341-8-16           UPnP WANPOTSLinkConfig:1 Service         ISO/IEC 29341-8-19           UPnP WANPOTSLinkConfig:1 Service         ISO/IEC 29341-8-19           UPnP Printer:1 Device         ISO/IEC 29341-8-10           UPnP Scanner:1.0 Device         ISO/IEC 29341-9-1	UPnP BinaryLight:1 Device	
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 29341-8-5           UPnP Layer3Forwarding:1 Service         ISO/IEC 29341-8-10           UPnP Layer3Forwarding:1 Service         ISO/IEC 29341-8-10           UPnP Layer3Forwarding:1 Service         ISO/IEC 29341-8-11           UPnP Layer3Forwarding:1 Service         ISO/IEC 29341-8-12           UPnP RadiusClient: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 WANDSLLinkConfig:1 Service         ISO/IEC 29341-8-16           UPnP WANDSLLinkConfig:1 Service         ISO/IEC 29341-8-17           UPnP WANPOTSLinkConfig:1 Service         ISO/IEC 29341-8-18           UPnP WANPPPConnection:1 Service         ISO/IEC 29341-8-20           UPnP WANPPPConnection:1 Service         ISO/IEC 29341-9-1		
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 29341-8-10           UPnP Layer3Forwarding:1 Service         ISO/IEC 29341-8-11           UPnP Layer3Forwarding:1 Service         ISO/IEC 29341-8-12           UPnP RadiusClient: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 WANPOTSLinkConfig:1 Service         ISO/IEC 29341-8-18           UPnP WANPPPConnection:1 Service         ISO/IEC 29341-8-19           UPnP WANPPPConnection:1 Service         ISO/IEC 29341-8-20           UPnP Printer:1 Device         ISO/IEC 29341-9-1           UPnP P Scanner:1.0 Device         ISO/IEC 29341-9-1 <td></td> <td></td>		
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 29341-8-4 UPnP LANHostConfigManagement: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 LinkAuthentication:1 Service ISO/IEC 29341-8-12 UPnP RadiusClient:1 Service ISO/IEC 29341-8-13 UPnP WANCableLinkConfig:1 Service ISO/IEC 29341-8-13 UPnP WANCableLinkConfig:1 Service ISO/IEC 29341-8-15 UPnP WANDSLLinkConfig:1 Service ISO/IEC 29341-8-15 UPnP WANDSLLinkConfig:1 Service ISO/IEC 29341-8-16 UPnP WANIPConnection:1 Service ISO/IEC 29341-8-17 UPnP WANPOTSLinkConfig:1 Service ISO/IEC 29341-8-18 UPnP WANPPConnection:1 Service ISO/IEC 29341-8-19 UPnP WANPPPConnection:1 Service ISO/IEC 29341-8-20 UPnP WLANConfiguration:1 Service ISO/IEC 29341-8-20 UPnP Printer:1 Device ISO/IEC 29341-9-1 UPnP Scanner:1.0 Device ISO/IEC 29341-9-1 UPnP Feeder:1.0 Service ISO/IEC 29341-9-1 UPnP PrintBasic:1 Service ISO/IEC 29341-9-1 UPnP Poscan:1 Service ISO/IEC 29341-9-10 UPnP Qos Architecture:1.0 ISO/IEC 29341-10-11 UPnP QosDevice:1 Service ISO/IEC 29341-10-10 UPnP QosDevice:1 Service ISO/IEC 29341-10-10 UPnP QosPolicyHolder: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		ISO/IEC 29341-7-11
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 29341-8-11 UPnP RadiusClient:1 Service ISO/IEC 29341-8-12 UPnP RadiusClient:1 Service ISO/IEC 29341-8-13 UPnP WANCableLinkConfig:1 Service ISO/IEC 29341-8-13 UPnP WANCableLinkConfig:1 Service ISO/IEC 29341-8-14 UPnP WANCommonInterfaceConfig:1 Service ISO/IEC 29341-8-15 UPnP WANDSLLinkConfig:1 Service ISO/IEC 29341-8-16 UPnP WANDENCONNECTION Service ISO/IEC 29341-8-17 UPnP WANIPConnection:1 Service ISO/IEC 29341-8-19 UPnP WANPOTSLinkConfig:1 Service ISO/IEC 29341-8-19 UPnP WANPPPConnection:1 Service ISO/IEC 29341-8-20 UPnP WANPPPConnection:1 Service ISO/IEC 29341-8-21 UPnP Printer:1 Device ISO/IEC 29341-9-1 UPnP Scanner:1.0 Device ISO/IEC 29341-9-1 UPnP ExternalActivity:1 Service ISO/IEC 29341-9-10 UPnP PrintBasic:1 Service ISO/IEC 29341-9-10 UPnP PrintBasic:1 Service ISO/IEC 29341-9-11 UPnP Qos Architecture:1.0 ISO/IEC 29341-9-11 UPnP Qos Device:1 Service ISO/IEC 29341-10-10 UPnP Qos Architecture:1.0 ISO/IEC 29341-10-10 UPnP Qos Architecture:2 ISO/IEC 29341-10-12 UPnP Qos Architecture:2 ISO/IEC 29341-10-11	UPnP InternetGatewayDevice:1 Device	ISO/IEC 29341-8-1
UPnP WANConnectionDevice:1 Device UPnP WLANAccessPointDevice:1 Device UPnP WLANAccessPointDevice:1 Device UPnP LANHostConfigManagement:1 Service UPnP Layer3Forwarding:1 Service UPnP Layer3Forwarding:1 Service UPnP LinkAuthentication:1 Service UPnP RadiusClient:1 Service UPnP RadiusClient:1 Service UPnP WANCableLinkConfig:1 Service UPnP WANCableLinkConfig:1 Service UPnP WANCommonInterfaceConfig:1 Service UPnP WANDSLLinkConfig:1 Service UPnP WANDSLLinkConfig:1 Service UPnP WANEthernetLinkConfig:1 Service UPnP WANIPConnection:1 Service UPnP WANPOTSLinkConfig:1 Service UPnP WANPOTSLinkConfig:1 Service UPnP WANPPPConnection:1 Service UPnP Scanner:1.0 Device UPnP ExternalActivity:1 Service UPnP ExternalActivity:1 Service UPnP PrintBasic:1 Service UPnP PrintBasic:1 Service UPnP PrintBasic:1 Service UPnP Qos Architecture:1.0 UPnP Qos Architecture:1.0 UPnP Qos Manager:1 Service UPnP Qos Architecture:2 UPnP Qos Architecture:2 UPnP Qos Architecture:2 UPnP Qos Architecture:2	UPnP LANDevice:1 Device	ISO/IEC 29341-8-2
UPnP WLANAccessPointDevice:1 Device UPnP LANHostConfigManagement:1 Service UPnP Layer3Forwarding:1 Service UPnP Layer3Forwarding:1 Service UPnP LinkAuthentication:1 Service UPnP RadiusClient:1 Service UPnP RadiusClient:1 Service UPnP WANCableLinkConfig:1 Service UPnP WANCableLinkConfig:1 Service UPnP WANCommonInterfaceConfig:1 Service UPnP WANDSLLinkConfig:1 Service UPnP WANDSLLinkConfig:1 Service UPnP WANEthernetLinkConfig:1 Service UPnP WANPOTSLinkConfig:1 Service UPnP Qos Architecture:1 Service UPnP Qos Architecture:2 UPnP Qos Architecture:2	UPnP WANDevice:1 Device	ISO/IEC 29341-8-3
UPnP LANHostConfigManagement:1 Service UPnP Layer3Forwarding:1 Service UPnP LinkAuthentication:1 Service UPnP RadiusClient:1 Service UPnP RadiusClient:1 Service UPnP WANCableLinkConfig:1 Service UPnP WANCommonInterfaceConfig:1 Service UPnP WANDSLLinkConfig:1 Service UPnP WANDSLLinkConfig:1 Service UPnP WANDSLLinkConfig:1 Service UPnP WANDSLLinkConfig:1 Service UPnP WANPConnection:1 Service UPnP WANPConnection:1 Service UPnP WANPOTSLinkConfig:1 Service UPnP QosPolicyHolder:1 Service UPnP QosPolicyHolder:1 Service UPnP Qos Architecture:2 UPnP Qos Architecture:2 UPnP Qos Architecture:2	UPnP WANConnectionDevice:1 Device	ISO/IEC 29341-8-4
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 WANDCommonInterfaceConfig: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 WANPConnection:1 Service         ISO/IEC 29341-8-18           UPnP WANPOTSLinkConfig:1 Service         ISO/IEC 29341-8-19           UPnP WANPPConnection:1 Service         ISO/IEC 29341-8-20           UPnP WANPPConnection: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 29341-9-1           UPnP Feeder:1.0 Service         ISO/IEC 29341-9-11           UPnP PrintBasic:1 Service         ISO/IEC 29341-9-12           UPnP Qos Architecture:1.0         ISO/IEC 29341-10-10           UPnP Qos Manager:1 Service         ISO/IEC 29341-10-10           UPnP Qos Architecture:2         ISO/IEC 29341-10-12           UPnP Qos Architecture:2         ISO/IEC 29341-10-12	UPnP WLANAccessPointDevice:1 Device	
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 WANDSLLinkConfig: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 WANPConnection:1 Service         ISO/IEC 29341-8-17           UPnP WANPOTSLinkConfig:1 Service         ISO/IEC 29341-8-18           UPnP WANPPConnection:1 Service         ISO/IEC 29341-8-19           UPnP WANPPConnection: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 29341-9-1           UPnP Feeder:1.0 Service         ISO/IEC 29341-9-11           UPnP PrintBasic:1 Service         ISO/IEC 29341-9-12           UPnP Qos Architecture:1.0         ISO/IEC 29341-10-10           UPnP Qos Manager:1 Service         ISO/IEC 29341-10-10           UPnP Qos Architecture:2         ISO/IEC 29341-10-12           UPnP Qos Architecture:2         ISO/IEC 29341-11-1		
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 WANPPCSLinkConfig:1 Service         ISO/IEC 29341-8-19           UPnP WANPPPConnection:1 Service         ISO/IEC 29341-8-20           UPnP WANPPPConnection:1 Service         ISO/IEC 29341-8-21           UPnP Printer:1 Device         ISO/IEC 29341-8-21           UPnP Printer:1 Device         ISO/IEC 29341-9-1           UPnP Scanner:1.0 Device         ISO/IEC 29341-9-1           UPnP Feeder:1.0 Service         ISO/IEC 29341-9-10           UPnP PrintBasic:1 Service         ISO/IEC 29341-9-12           UPnP Qos Architecture:1.0         ISO/IEC 29341-10-10           UPnP QosDevice:1 Service         ISO/IEC 29341-10-10           UPnP QosManager:1 Service         ISO/IEC 29341-10-10           UPnP Qos Architecture:2         ISO/IEC 29341-10-12           UPnP Qos Architecture:2         ISO/IEC 29341-11-1		
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 WANIPConnection:1 Service         ISO/IEC 29341-8-17           UPnP WANIPCONNECTION:1 Service         ISO/IEC 29341-8-18           UPnP WANPPTSLinkConfig:1 Service         ISO/IEC 29341-8-19           UPnP WANPPPConnection: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 29341-9-1           UPnP ExternalActivity:1 Service         ISO/IEC 29341-9-10           UPnP PrintBasic:1 Service         ISO/IEC 29341-9-11           UPnP Qos Architecture:1.0         ISO/IEC 29341-9-12           UPnP Qos Manager:1 Service         ISO/IEC 29341-10-10           UPnP QosPolicyHolder:1 Service         ISO/IEC 29341-10-11           UPnP Qos Architecture:2         ISO/IEC 29341-11-1		
UPnP WANCommonInterfaceConfig:1 Service         ISO/IEC 29341-8-15           UPnP WANDSLLinkConfig:1 Service         ISO/IEC 29341-8-16           UPnP WANIPConnection: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 WANPPPConnection: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 Peder:1.0 Service         ISO/IEC 29341-9-11           UPnP Scan:1 Service         ISO/IEC 29341-9-12           UPnP Qos Architecture:1.0         ISO/IEC 29341-10-1           UPnP QosDevice:1 Service         ISO/IEC 29341-10-1           UPnP QosPolicyHolder:1 Service         ISO/IEC 29341-10-12           UPnP Qos Architecture:2         ISO/IEC 29341-11-1		
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 WANPPPConnection: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 29341-9-1           UPnP ExternalActivity:1 Service         ISO/IEC 29341-9-10           UPnP PrintBasic:1 Service         ISO/IEC 29341-9-11           UPnP Scan:1 Service         ISO/IEC 29341-9-12           UPnP Qos Architecture:1.0         ISO/IEC 29341-10-1           UPnP QosDevice:1 Service         ISO/IEC 29341-10-1           UPnP QosManager:1 Service         ISO/IEC 29341-10-1           UPnP Qos Architecture:2         ISO/IEC 29341-10-1		
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 WANPPPConnection: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 29341-9-1           UPnP ExternalActivity:1 Service         ISO/IEC 29341-9-10           UPnP PrintBasic:1 Service         ISO/IEC 29341-9-11           UPnP PrintBasic:1 Service         ISO/IEC 29341-9-12           UPnP Qos Architecture:1.0         ISO/IEC 29341-10-1           UPnP QosManager:1 Service         ISO/IEC 29341-10-1           UPnP QosPolicyHolder:1 Service         ISO/IEC 29341-10-11           UPnP Qos Architecture:2         ISO/IEC 29341-11-1	UPnP WANCommonInterfaceConfig:1 Service	
UPnP WANIPConnection:1 Service         ISO/IEC 29341-8-18           UPnP WANPOTSLinkConfig:1 Service         ISO/IEC 29341-8-19           UPnP WANPPPConnection: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 29341-9-1           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 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 Qos Architecture:2         ISO/IEC 29341-10-12           UPnP Qos Architecture:2         ISO/IEC 29341-11-1	UPnP WANDSLLinkConfig:1 Service	
UPnP WANPOTSLinkConfig:1 Service         ISO/IEC 29341-8-19           UPnP WANPPPConnection: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 Qos Architecture:1.0         ISO/IEC 29341-9-13           UPnP Qos Architecture:1.0         ISO/IEC 29341-10-1           UPnP QosManager:1 Service         ISO/IEC 29341-10-10           UPnP QosPolicyHolder:1 Service         ISO/IEC 29341-10-11           UPnP Qos Architecture:2         ISO/IEC 29341-11-1		
UPnP WANPPPConnection: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 Qos Architecture:2         ISO/IEC 29341-10-12           UPnP Qos Architecture:2         ISO/IEC 29341-11-1		
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 Qos Architecture:2         ISO/IEC 29341-10-12           UPnP Qos Architecture:2         ISO/IEC 29341-11-1	<u> </u>	
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 Qos Architecture:2         ISO/IEC 29341-10-12           UPnP Qos Architecture:2         ISO/IEC 29341-11-1		
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 29341-10-1           UPnP QosManager:1 Service         ISO/IEC 29341-10-11           UPnP Qos Architecture:2         ISO/IEC 29341-11-1	<u> </u>	
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 Qos Architecture:2         ISO/IEC 29341-11-1		
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 Qos Architecture: 2       ISO/IEC 29341-11-1		
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 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 Architecture:1.0 UPnP QosDevice:1 Service UPnP QosManager:1 Service UPnP QosMolicyHolder:1 Service UPnP Qos Architecture:2 UPnP QoS Architecture:2 USO/IEC 29341-10-12 UPnP QoS Architecture:2 USO/IEC 29341-11-1		
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 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 QosPolicyHolder:1 Service ISO/IEC 29341-10-12 UPnP QoS Architecture:2 ISO/IEC 29341-11-1		
UPnP QoS Architecture:2 ISO/IEC 29341-11-1		
UPnP QOS v2 Schema Files ISO/IEC 29341-11-2		
	UPnP QOS v2 Schema Files	ISO/IEC 29341-11-2

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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 service definition is compliant with the UPnP Device Architecture version 1.0. It defines a service type referred to herein as ControlValve:1.

ControlValve:1 provides programmatic control and status information for modulating water control valves or modulating air dampers used in Heating Ventilation and Air-Conditioning (HVAC) applications.

ControlValve:1 enables the following functions:

• Analog (modulating) control of Control Valves and Air Dampers

ControlValve:1 does not address:

- On/Off control valves or dampers
- Fire or Smoke dampers