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INTERNATIONAL STANDARD



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Information technology – UPnP Device Architecture V IF W Part 6-2: Heating, Ventilation and Air Conditioning Device Control Protocol – Zone Thermostat Device

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INFORMATION TECHNOLOGY – UPNP DEVICE ARCHITECTURE –

Part 6-2: Heating, Ventilation and Air Conditioning Device Control Protocol – Zone Thermostat 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:

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 29341-3-2
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: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 2 ros 1 ten 2	ISO/IEC 29341-6-1
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UPnP Document Title

UPnP QosDevice:2 Service
UPnP QosManager:2 Service
UPnP QosPolicyHolder:2 Service
UPnP RemoteUIClientDevice:1 Device
UPnP RemoteUIServerDevice:1 Device
UPnP RemoteUIClient:1 Service
UPnP RemoteUIServer:1 Service
UPnP DeviceSecurity:1 Service
UPnP SecurityConsole:1 Service

ISO/IEC 29341 Part

ISO/IEC 29341-11-10
ISO/IEC 29341-11-11
ISO/IEC 29341-11-12
ISO/IEC 29341-12-1
ISO/IEC 29341-12-2
ISO/IEC 29341-12-10
ISO/IEC 29341-12-11
ISO/IEC 29341-13-10
ISO/IEC 29341-13-11

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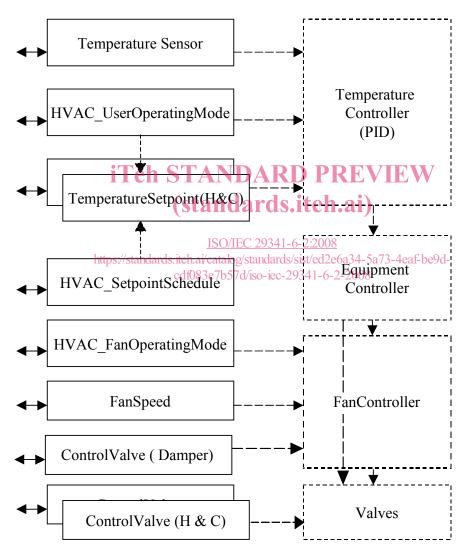
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1. Overview and Scope

The HVAC_ZoneThermostat is intended to be a sub device of the HVAC_System device. Any number of HVAC_ZoneThermostats may be included in the system device.

HVAC_ZoneThermostat is a zone level controller for heating and/or cooling. It provides the following functionality:

- The ability to set or get zone level operating and fan modes.
- Temperature in the zone.
- Zone level Heating and/or cooling temperature setpoints.
- Optional fan speed control.
- Optional zone level daily schedule for events and heating and cooling setpoints.



Solid lines indicate interfaces exposed via UPnP Dotted lines indicate interfaces and services not directly visible via UPnP

Figure 1 HVAC_ZoneThermostat:1 Functional Diagram