ISO/IEC 29341-24-1:2017-09 (E)

Information technology - UPnP Device Architecture - Part 24-1: Internet gateway device control protocol - Level 2 - Internet gateway device

Contents

Page

Introduction 1

1 Scope 1

2 Normative references 2

3 Terms, definitions, symbols and abbreviated terms 3

4 Device Model 4
4.1 Device Type 4
4.2 Requirements for an Internet Gateway Device 4
4.3 Device Architecture 5
4.3.1 Device Requirements 6
4.3.2 Relationships Between Services 7
4.4 Security policies 8
4.4.1 Access control and user roles 8
4.4.2 General policies 8
4.4.3 WANIPConnection:2 8
4.4.4 WANPPPConnection:1 10
4.4.5 WANIPv6FirewallControl:1 12
4.4.6 LANHostConfigManagement:1 13
4.4.7 Layer3Forwarding:1 13
4.4.8 WANEthernetLinkConfig:1 13
4.4.9 WANCableLinkConfig:1 14
4.4.10 WANDSLLinkConfig:1 14
4.4.11 WANCommonInterfaceConfig:1 14
4.4.12 WANPOTSLinkConfig:1 15

5 XML Device Description 16

6 Test 18

Annex A Theory of Operation 19

Figure 1 -- InternetGatewayDevice with LAN and WAN Interfaces 2

Figure 2 -- InternetGatewayDevice Devices and Services Hierarchy 5

Table 1 -- Device Requirements 5

Table 2 -- Service Descriptions 6

Table 3 -- Recommended access levels for WANIPConnection:2 actions 8

Table 4 -- Recommended access levels for WANPPPConnection:1 actions 10

Table 5 -- Recommended access levels for WANIPv6FirewallControl:1 actions 12

Table 6 -- Recommended access levels for LANHostConfigManagement:1 actions 13

Table 7 -- Recommended access levels for Layer3Forwarding:1 actions 13

Table 8 -- Recommended access levels for WANEthernetLinkConfig:1 actions 13

Table 9 -- Recommended access levels for WANCableLinkConfig:1 actions 14

Table 10 -- Recommended access levels for WANDSLLinkConfig:1 actions 14

Table 11 -- Recommended access levels for WANCommonInterfaceConfig:1 actions 14

Table 12 -- Recommended access levels for WANPOTSLinkConfig:1 actions 15