ISO/IEC 29341-4-2:2011-09 (E)

Information technology - UPnP Device Architecture - Part 4-2: Audio Video Device Control Protocol - Level 2 - Media Renderer Device

Contents

Page

1 Overview and Scope....2
1.1 Introduction....2
1.2 Notation....3
1.2.1 Data Types....3
1.2.2 Strings Embedded in Other Strings....3
1.2.3 Extended Backus-Naur Form....4
1.3 Derived Data Types....4
1.3.1 Comma Separated Value (CSV) Lists....5
1.4 Management of XML Namespaces in Standardized DCPs....6
1.4.1 Namespace Prefix Requirements....9
1.4.2 Namespace Names, Namespace Versioning and Schema Versioning....10
1.4.3 Namespace Usage Examples....12
1.5 Vendor-defined Extensions....13
1.5.1 Vendor-defined Action Names....13
1.5.2 Vendor-defined State Variable Names....13
1.5.3 Vendor-defined XML Elements and attributes....13
1.5.4 Vendor-defined Property Names....13
1.6 References....13
2 Device Definitions....17
2.1 Device Type....17
2.2 Device Model....17
2.2.1 Description of Device Requirements....17
2.2.2 Relationships Between Services....18
2.3 Theory of Operation....18
2.3.1 Device Discovery....19
2.3.2 Preparing to Transfer the Content....19
2.3.3 Controlling the Transfer of the Content....19
2.3.4 Controlling How the Content is Rendered....19
3 XML Device Description....20
4 Test....21

Figure 1 — MediaRenderer Functional Diagram....2

Table 1-1 — EBNF Operators....4
Table 1-2 — CSV Examples....6
Table 1-3 — Namespace Definitions....8
Table 1-4 — Schema-related Information....9
Table 1-5 — Default Namespaces for the AV Specifications....10
Table 2-6 — Device Requirements....17