ISO/IEC 29341-20-3:2017-09 (E)

Information technology - UPnP Device Architecture - Part 20-3: Audio video device control protocol - Level 4 - Media server device

Contents

Page

1 Scope 1
2 Normative references 2
3 Terms, definitions, symbols and abbreviations 4
3.1 Provisioning terms 4
3.2 Symbols 5
4 Notations and Conventions 5
4.1 Notation 5
4.1.1 Data Types 5
4.1.2 Strings Embedded in Other Strings 6
4.1.3 Extended Backus-Naur Form 6
4.2 Derived Data Types 7
4.2.1 Summary 7
4.2.2 CSV Lists 7
4.3 Management of XML Namespaces in Standardized DCPs 8
4.3.1 Namespace Prefix Requirements 12
4.3.2 Namespace Names, Namespace Versioning and Schema Versioning 13
4.3.3 Namespace Usage Examples 15
4.4 Vendor-defined Extensions 15
4.4.1 Vendor-defined Action Names 15
4.4.2 Vendor-defined State Variable Names 15
4.4.3 Vendor-defined XML Elements and attributes 16
4.4.4 Vendor-defined Property Names 16
5 Device Definitions 16
5.1 Device Type 16
5.2 Device Model 16
5.2.1 Description of Device Requirements 17
5.2.2 Relationships Between Services 17
6 XML Device Description 17
7 Test 19
Annex A (informative) Theory of Operation 20
A.1 Device Discovery 20
A.2 Locating Desired Content 20
A.3 Preparing to Transfer the Content 20
A.4 Controlling the Transfer of the Content 21
A.5 Recording Content 21
Annex B (informative) Bibliography 22

List of Tables

Table 1 — EBNF Operators....7
Table 2 — CSV Examples....8
Table 3 — Namespace Definitions....9
Table 4 — Schema-related Information....11
Table 5 — Default Namespaces for the AV Specifications....13
Table 6 — Device Requirements....16

List of Figures

Figure 1 — MediaServer Functional Diagram....1