# ISO/IEC 29341-4-4:2008-11 (E)

## Information technology_- UPnP Device Architecture_- Part_4-4: Audio Video Device Control Protocol_- Level 2_- Audio Video Data Structures

CONTENTS


FOREWORD ..... 3

ORIGINAL UPNP DOCUMENTS (informative) ..... 5

**1 Introduction ..... 7**

1.1 Notation ..... 7

1.1.1 Data Types ..... 8

1.1.2 Strings Embedded in Other Strings ..... 8

1.1.3 Extended Backus-Naur Form ..... 8

1.2 Derived Data Types ..... 9

1.2.1 Comma Separated Value (CSV) Lists ..... 9

1.3 Management of XML Namespaces in Standardized DCPs ..... 10

1.3.1 Namespace Prefix Requirements ..... 13

1.3.2 Namespace Names, Namespace Versioning and Schema Versioning ..... 14

1.3.3 Namespace Usage Examples ..... 15

1.4 Vendor-defined Extensions ..... 15

1.5 References ..... 16

**2 Overview ..... 19**

**3 AV Datastructure Template ..... 20**

**4 AV Datastructure Schema ..... 26**


LIST OF TABLES


Table 1-1: EBNF Operators ..... 9

Table 1-2: CSV Examples ..... 10

Table 1-3: Namespace Definitions ..... 12

Table 1-4: Schema-related Information ..... 13

Table 1-5: Default Namespaces for the AV Specifications ..... 14


LIST OF FIGURES


Figure 1: Typical Usage of AVDT ..... 19