

ISO/IEC 29341-9-12:2008-11 (E)

Information technology_ - UPnP Device Architecture_ - Part_9-12: Imaging Device Control Protocol_ - Print Basic Service

CONTENTS

FOREWORD	4
ORIGINAL UPNP DOCUMENTS (informative)	6
1. Overview and Scope	8
2. Service Modeling Definitions	8
2.1. ServiceType	8
2.2. Terminology.....	8
2.2.1. Conformance Terminology	8
2.2.2. Other terminology	8
2.2.3. Notation: use of quotation marks	9
2.3. References	9
2.4. Intent of a Print Job	10
2.4.1. Production vs. Layout Job Attributes.....	10
2.4.2. Precedence of Production vs. Layout Job Attributes	10
2.5. State Variables	11
2.5.1. Derived data types	11
2.6. Service State Table	12
2.6.1. The Printer's supported and default values	12
2.6.2. The Distinguished Value used to avoid action override of PDL	13
2.6.3. Purposes of the SST State Variables	13
2.6.4. <i>PrinterName</i>	15
2.6.5. <i>PrinterLocation</i>	16
2.6.6. <i>DeviceId</i>	16
2.6.7. <i>PrinterState</i>	16
2.6.8. <i>PrinterStateReasons</i>	17
2.6.9. <i>XHTMLImageSupported</i>	18
2.6.10. <i>ColorSupported</i>	18
2.6.11. <i>JobIdList</i>	19
2.6.12. <i>JobId</i>	19
2.6.13. <i>JobEndState</i>	19
2.6.14. <i>JobName</i>	20
2.6.15. <i>JobOriginatingUserName</i>	20
2.6.16. <i>DocumentFormat</i>	20
2.6.17. <i>Copies</i>	21
2.6.18. <i>Sides</i>	21
2.6.19. <i>NumberUp</i>	21
2.6.20. <i>OrientationRequested</i>	22
2.6.21. <i>MediaSize</i>	22
2.6.22. <i>MediaType</i>	23
2.6.23. <i>PrintQuality</i>	24
2.6.24. <i>DataSink</i>	25
2.6.25. <i>JobMediaSheetsCompleted</i>	25
2.7. Eventing and Moderation	26
2.7.1. Event Model	26
2.7.2. Synchronization of Evented Variables	26
2.8. Actions.....	30
2.8.1. <i>CreateJob</i>	30
2.8.2. <i>CancelJob</i>	32
2.8.3. <i>GetPrinterAttributes</i>	32
2.8.4. <i>GetJobAttributes</i>	33
2.8.5. HTTP Post	34
2.8.6. Non-Standard Actions Implemented by a UPnP Vendor	35
2.8.7. Common Error Codes	35

2.9.	Theory of Operation	36
2.9.1.	Jobs	36
2.9.2.	Actions	37
2.9.3.	Events	37
2.9.4.	Security	37
2.9.5.	Localization	37
2.9.6.	IPP Data Type mapping to UPnP Data Types	38
3.	XML Service Description	39

LIST OF TABLES

Table 1:	Precedence of Production and Layout Job Attributes.....	11
Table 2:	State Variables	14
Table 2.1:	allowedValueList for <i>PrinterState</i>	17
Table 2.2:	allowedValueList for <i>PrinterStateReasons</i>	18
Table 2.3:	allowedValueList for <i>XHTMLImageSupported</i>	18
Table 2.4:	allowedValueList for <i>ColorSupported</i>	19
Table 2.5:	allowedValueList for <i>DocumentFormat</i>	20
Table 2.6:	allowedValueList for <i>Sides</i>	21
Table 2.7:	allowedValueList for <i>NumberUp</i>	22
Table 2.8:	allowedValueList for <i>OrientationRequested</i>	22
Table 2.9:	allowedValueList for <i>MediaSize</i>	23
Table 2.10:	allowedValueList for <i>MediaType</i>	24
Table 2.11:	allowedValueList for <i>PrintQuality</i>	25
Table 3:	Event Moderation.....	26
Table 4:	Synchronization of Evented Variables	28
Table 5.:	Transition Actions Used in Table 4	29
Table 6:	Actions	30
Table 7:	Arguments for <i>CreateJob</i>	31
Table 8:	Arguments for <i>CancelJob</i>	32
Table 9:	Arguments for <i>GetPrinterAttributes</i>	33
Table 10:	Arguments for <i>GetJobAttributes</i>	34
Table 11:	Common Error Codes.....	35
Table 12:	Basic IPP data type mappings.....	38
Table 13:	Derived data type mappings	38
Table 14:	Structured Data Type mapping.....	38

LIST OF FIGURES

Figure 1 -	Printer Device and Services	36
------------	-----------------------------------	----