

ISO 15076-1 :2005-12 (E)

Image technology colour management - Architecture, profile format and data structure - Part 1:
Based on ICC.1:2004-10

Contents	Page
Foreword	iii
Introduction	vi
1 Scope	1
2 Compliance and registration	1
3 Normative references	1
4 Terms and definitions	2
5 Basic numeric types and abbreviations	4
5.1 Basic number types	4
5.2 Abbreviations	7
6 Profile Connection Space and rendering intents	7
6.1 Introduction	7
6.2 Rendering intents	8
6.3 Profile Connection Space	9
6.4 Converting between CIEXYZ and CIELAB encodings	13
7 Profile requirements	13
7.1 General	13
7.2 Profile header	15
7.3 Tag table	20
7.4 Tag data	21
8 Required tags	21
8.1 Overview	21
8.2 Common requirements	22
8.3 Input profiles	22
8.4 Display profiles	23
8.5 Output profiles	24
8.6 DeviceLink profile	25
8.7 ColorSpace conversion profile	26
8.8 Abstract profile	26
8.9 Named colour profile	26
8.10 Priority of tag usage	27
9 Tag definitions	27
9.1 General	27
9.2 Tag listing	27
10 Tag type definitions	36
10.1 Overview	36
10.2 chromaticityType	37
10.3 colorantOrderType	37
10.4 colorantTableType	38
10.5 curveType	39
10.6 dataType	39
10.7 dateTimeType	40
10.8 lut16Type	40
10.9 lut8Type	44
10.10 lutAtoBType	46
10.11 lutBtoAType	49
10.12 measurementType	52
10.13 multiLocalizedUnicodeType	53
10.14 namedColor2Type	54
10.15 parametricCurveType	55

10.16	profileSequenceDescType	57
10.17	responseCurveSet16Type.....	57
10.18	s15Fixed16ArrayType	60
10.19	signatureType	60
10.20	textType	60
10.21	u16Fixed16ArrayType	61
10.22	ulnt16ArrayType.....	61
10.23	ulnt32ArrayType.....	61
10.24	ulnt64ArrayType.....	62
10.25	ulnt8ArrayType.....	62
10.26	viewingConditionsType.....	62
10.27	XYZType	63
Annex A (informative) Colour spaces		64
Annex B (normative) Embedding profiles		67
Annex C (informative) Relationship between ICC profiles and PostScript CSAs and CRDs		71
Annex D (informative) Profile Connection Space.....		73
Annex E (informative) Chromatic adaptation tag		86
Annex F (normative) Profile computational models.....		89
Annex G (informative) Tables of required tags and tag list.....		91
Bibliography		97