ISO/IEC 23005-5:2013-06 (E)

Information technology - Media context and control - Part 5: Data formats for interaction devices

Contents

Page

Foreword v

Introduction vi

1 Scope 1

2 Normative references 2

3 Terms, definitions, and abbreviated terms 3
3.1 Terms and definitions 3
3.2 Abbreviated terms 3

4 Interaction Information Description Language 3
4.1 Introduction 3
4.2 Schema wrapper conventions 3
4.3 Root element and top-level tools 4
4.4 Device commands 10
4.5 Sensed information description tools 14

5 Device Command Vocabulary 19
5.1 Introduction 19
5.2 Schema wrapper conventions 19
5.3 Light type 19
5.4 Flash type 22
5.5 Heating type 23
5.6 Cooling type 25
5.7 Wind type 26
5.8 Vibration type 28
5.9 Sprayer type 29
5.10 Scent type 31
5.11 Fog type 33
5.12 Color correction type 34
5.13 Initialize color correction parameter type 38
5.14 Rigid body motion type 45
5.15 Tactile type 60
5.16 Kinesthetic type 65
5.17 Global position command type 70

6 Sensed Information Vocabulary 72
6.1 Introduction 72
6.2 Schema wrapper conventions 73
6.3 Light sensor type 73
6.4 Ambient noise sensor type 77
6.5 Temperature sensor type 80
6.6 Humidity sensor type 81
6.7 Distance sensor type 83
6.8 Atmospheric pressure sensor type 85
6.9 Position sensor type 87
6.10 Velocity sensor type 93
6.11 Acceleration sensor type 98
6.12 Orientation sensor type 104

6.13 Angular velocity sensor type 110
6.14 Angular acceleration sensor type 115
6.15 Force sensor type 121
6.16 Torque sensor type 123
6.17 Pressure sensor type 125
6.18 Motion sensor type 127
6.19 Intelligent camera type 135
6.20 Multi Interaction point sensor type 143
6.21 Gaze tracking sensor type 146
6.22 Wind sensor type 149
6.23 Global position sensor type 150
6.24 Altitude sensor type 152
6.25 Bend sensor type 153
6.26 Gas sensor type 156
6.27 Dust sensor type 159
6.28 Body height sensor type 161
6.29 Body weight sensor type 162
6.30 Body temperature sensor type 164
6.31 Body fat sensor type 166
6.32 Blood type sensor type 167
6.33 Blood pressure sensor type 169
6.34 Blood sugar sensor type 171
6.35 Blood oxygen sensor type 173
6.36 Heart rate sensor type 174
6.37 Electrograph sensor type 176
6.38 EEG sensor type 179
6.39 ECG sensor type 183
6.40 EMG sensor type 187
6.41 EOG sensor type 198
6.42 GSR sensor type 201
6.43 Bio sensor type 203
6.44 Weather sensor type 208
6.45 Facial expression sensor type 214
6.46 Facial morphology sensor type 229
6.47 Facial expression characteristics sensor type 232
6.48 Geomagnetic sensor type 236

Annex A (informative) Schema documents 239

Annex B (informative) Classification Schemes 240

Annex C (informative) Patent statements 266

Bibliography 267