ISO/IEC 23005-2:2016-03 (E)

Information technology - Media context and control - Part 2: Control information

Contents

Page

1 Scope 1
2 Normative references 1
3 Terms, definitions, abbreviated terms and prefixes 2
3.1 Abbreviated terms 2
3.2 Use of prefixes 2
4 Control information description language 3
4.1 General 3
4.2 Schema wrapper conventions 3
4.3 Mnemonics for binary representations 3
4.4 Common header for binary representations 3
4.5 Root element and top-level tools 4
4.6 Sensory device capability description 19
4.7 Sensor capability description 22
4.8 User's sensory preference description 27
4.9 Sensor adaptation preference description 30
5 Device capability description vocabulary 34
5.1 General 34
5.2 Schema wrapper conventions 35
5.3 Light capability type 35
5.4 Flash capability type 38
5.5 Heating capability type 39
5.6 Cooling capability type 41
5.7 Wind capability type 43
5.8 Vibration capability type 45
5.9 Scent capability type 47
5.10 Fog capability type 49
5.11 Sprayer capability type 51
5.12 Color correction capability type 53
5.13 Tactile capability type 54
5.14 Kinesthetic capability type 59
5.15 RigidBodyMotion capability type 66
5.16 Mobile device position capability type 80
5.17 Bubble capability type 85
6 Sensor capability description vocabulary 86
6.1 General 86
6.2 Schema wrapper conventions 88
6.3 Light sensor capability type 88
6.4 Ambient noise sensor capability type 91
6.5 Temperature sensor capability type 92
6.6 Humidity sensor capability type 93
6.7 Distance sensor capability type 95
6.8 Atmospheric pressure sensor capability type 96
6.9 Position sensor capability type 98
6.10 Velocity sensor capability type 100
6.11 Acceleration sensor capability type 101
6.12 Orientation sensor capability type 102
6.13 Angular velocity sensor capability type 104

6.14 Angular acceleration sensor capability type 105
6.15 Force sensor capability type 106
6.16 Torque sensor capability type 107
6.17 Pressure sensor capability type 108
6.18 Motion sensor capability type 109
6.19 Intelligent camera capability type 112
6.20 Bend sensor capability type 117
6.21 Gas sensor capability type 119
6.22 Dust sensor capability type 121
6.23 Multi interaction point sensor capability type 122
6.24 Gaze tracking sensor capability type 123
6.25 Global position sensor capability type 125
6.26 Altitude sensor capability type 128
6.27 Weather sensor capability type 130
6.28 Camera sensor capability type 133
6.29 Proximity sensor capability type 137
6.30 Body weight sensor capability type 138
6.31 Engine oil temperature sensor capability type 139
6.32 Intake air temperature sensor capability type 140
6.33 Tire pressure monitor system sensor capability type 141
6.34 Distance traveled sensor capability type 142
6.35 Speed sensor capability type 143
6.36 Vehicle speed sensor capability type 144
6.37 Mass air flow sensor capability type 145
6.38 Fuel level sensor capability type 146
6.39 Manifold absolute pressure sensor capability type 146
6.40 EngineRPM sensor capability type 147

7 User's sensory preference vocabulary 148
7.1 General 148
7.2 Schema wrapper conventions 149
7.3 Light preference type 149
7.4 Flash preference type 151
7.5 Heating preference type 153
7.6 Cooling preference type 154
7.7 Wind preference type 156
7.8 Vibration preference type 158
7.9 Scent preference type 159
7.10 Fog preference type 161
7.11 Spraying preference type 163
7.12 Color correction preference type 164
7.13 Tactile preference type 165
7.14 Kinesthetic preference type 168
7.15 RigidBodyMotion preference type 171
7.16 Bubble preference type 184

8 Sensor adaptation preference vocabulary 185
8.1 General 185
8.2 Schema wrapper conventions 186
8.3 Light sensor adaptation preference type 186
8.4 Ambient noise sensor adaptation preference type 188
8.5 Temperature sensor adaptation preference type 189
8.6 Humidity sensor adaptation preference type 190
8.7 Distance sensor adaptation preference type 191
8.8 Atmospheric pressure sensor adaptation preference type 192
8.9 Position sensor adaptation preference type 193
8.10 Velocity sensor adaptation preference type 195
8.11 Acceleration sensor adaptation preference type 196
8.12 Orientation sensor adaptation preference type 197
8.13 Angular velocity sensor adaptation preference type 199
8.14 Angular acceleration sensor adaptation preference type 200
8.15 Force sensor adaptation preference type 201

8.16 Torque sensor adaptation preference type 202
8.17 Pressure sensor adaptation preference type 203
8.18 Motion sensor adaptation preference type 204
8.19 Intelligent camera sensor adaptation preference type 207

Annex A (normative) Classification schemes 212

A.1 General 212
A.2 Classification schemes 212

Annex B (informative) Schema documents 214

B.2 Associated MPEG-7 Schema 214
B.3 Associated MPEG-21 Schema 214

Annex C (informative) Patent statements 215