

ISO/IEC 23005-4:2018-09 (E)

Information technology - Media context and control - Part 4: Virtual world object characteristics

Contents		Page
1	Scope	1
2	Normative references	1
3	Terms, definitions, abbreviated terms, schema documents and prefixes	1
3.1	Terms and definitions	1
3.2	Schema documents	3
3.3	Use of prefixes	3
4	Virtual world object metadata	4
4.1	General	4
4.2	Schema wrapper conventions	5
4.3	Root element and top-level tools	6
4.3.1	General	6
4.3.2	XML representation syntax	6
4.3.3	Binary representation syntax	6
4.3.4	Semantics	7
4.3.5	Examples	8
4.4	Virtual world object base type	9
4.4.1	General	9
4.4.2	XML representation syntax	10
4.4.3	Binary representation syntax	11
4.4.4	Semantics	13
4.4.5	Examples	14
4.4.6	IdentificationType	15
4.4.7	VWOSoundListType	18
4.4.8	VWOScentListType	19
4.4.9	VWOControlListType	20
4.4.10	VWOEventListType	20
4.4.11	VWOBehaviourModelListType	21
4.4.12	VWOSoundType	22
4.4.13	VWOScentType	24
4.4.14	VWOControlType	26
4.4.15	VWOEventType	29
4.4.16	VWOSensoryEffectType	33
4.4.17	VWOBehaviourModelType	35
4.5	Virtual world object common data types	37
4.5.1	VWOHapticPropertyType	38
4.5.2	AnimationDescriptionType	45
4.5.3	AnimationResourcesDescriptionType	48
4.5.4	Common simple data types	53
5	Avatar metadata	61
5.1	General	61
5.2	AvatarType	62
5.2.1	XML representation syntax	62
5.2.2	Binary representation syntax	63
5.2.3	Semantics	65
5.3	AvatarAppearanceType	67
5.3.1	XML representation syntax	67
5.3.2	Binary representation syntax	74

5.3.3	Semantics	111
5.3.4	Examples	143
5.4	AvatarAnimationType	145
5.4.1	XML representation syntax	145
5.4.2	Binary representation syntax	146
5.4.3	Semantics	150
5.4.4	Examples	172
5.5	AvatarCommunicationSkillsType	172
5.5.1	XML representation syntax	172
5.5.2	Binary representation syntax	173
5.5.3	Semantics	174
5.5.4	Examples	175
5.6	VerbalCommunicationType	176
5.6.1	XML representation syntax	176
5.6.2	Binary representation syntax	176
5.6.3	Semantics	177
5.7	LanguageType	178
5.7.1	XML representation syntax	178
5.7.2	Binary representation syntax	178
5.7.3	Semantics	178
5.8	communicationPreferenceType	178
5.8.1	XML representation syntax	178
5.8.2	Binary representation syntax	178
5.8.3	Semantics	179
5.9	communicationPreferenceLevelType	179
5.9.1	XML representation syntax	179
5.9.2	Binary representation syntax	179
5.9.3	Semantics	179
5.10	NonVerbalCommunicationType	179
5.10.1	XML representation syntax	179
5.10.2	Binary representation syntax	180
5.10.3	Semantics	181
5.11	SignLanguageType	181
5.11.1	XML representation syntax	181
5.11.2	Binary representation syntax	181
5.11.3	Semantics	182
5.12	AvatarPersonalityType	182
5.12.1	XML representation syntax	182
5.12.2	Binary representation syntax	182
5.12.3	Semantics	183
5.13	AvatarControlFeaturesType	184
5.13.1	XML representation syntax	184
5.13.2	Binary representation syntax	185
5.13.3	Semantics	185
5.13.4	Examples	186
5.14	ControlBodyFeaturesType	186
5.14.1	XML representation syntax	186
5.14.2	Binary representation syntax	187
5.14.3	Semantics	188
5.14.4	Examples	191
5.15	ControlBodyFeaturesDescriptionType	192
5.15.1	XML representation syntax	192
5.15.2	Binary representation syntax	193
5.15.3	Semantics	193
5.16	ControlFaceFeaturesType	194
5.16.1	XML representation syntax	194
5.16.2	Binary representation syntax	195
5.16.3	Semantics	197
5.16.4	Examples	202
5.17	OutlineType	203
5.17.1	XML representation syntax	203
5.17.2	Binary representation syntax	203

5.17.3	Semantics	204
5.18	Outline4PointsType	204
5.18.1	XML representation syntax	204
5.18.2	Binary representation syntax	205
5.18.3	Semantics	205
5.19	Outline5PointsType	205
5.19.1	XML representation syntax	205
5.19.2	Binary representation syntax	206
5.19.3	Semantics	206
5.20	Outline8PointsType	206
5.20.1	XML representation syntax	206
5.20.2	Binary representation syntax	207
5.20.3	Semantics	207
5.21	Outline14PointsType	208
5.21.1	XML representation syntax	208
5.21.2	Binary representation syntax	209
5.21.3	Semantics	209
5.22	VWOHapticPropertyListType	210
5.22.1	XML representation syntax	210
5.22.2	Binary representation syntax	210
5.22.3	Semantics	210
5.23	MakeupAvatarType	211
5.23.1	XML representation syntax	211
5.23.2	Binary representation syntax	212
5.23.3	Semantics	212
5.24	CosmeticType	213
5.24.1	XML representation syntax	213
5.24.2	Binary representation	214
5.24.3	Semantics	218
5.25	MakeupInfoType	222
5.25.1	XML representation syntax	222
5.25.2	Binary Representation	222
5.25.3	Semantics	222
5.26	MakeupToolType	223
5.26.1	XML representation syntax	223
5.26.2	Binary representation	223
5.26.3	Semantics	224
5.27	MakeupRegionType	226
5.27.1	XML representation syntax	226
5.27.2	Binary representation	227
5.27.3	Semantics	227
5.27.4	Examples	229
6	Virtual object metadata	231
6.1	General	231
6.2	VirtualObjectType	231
6.2.1	XML representation syntax	231
6.2.2	Binary representation syntax	232
6.2.3	Semantics	233
6.2.4	Examples	233
6.2.5	VOAnimationType	234
Annex A (normative) Classification schemes		238
Annex B (informative) Virtual world object characteristics schema		288
Annex C (informative) Possible usage of the schema in this document		289
Bibliography		291