

# PSI Interface Control Document



## PSI-ICD

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## Table of Contents

1	Document Meta Information	44
1.1	Document Signature Table . . . . .	44
1.1.1	Document Change Record . . . . .	44
1.2	Documents . . . . .	46
1.2.1	Reference Documents . . . . .	46
1.2.2	External Annexes . . . . .	46
2	Introduction	47
2.1	Scope of Document . . . . .	48
2.1.1	Compiled Document . . . . .	48
2.1.2	Signature . . . . .	48
2.1.3	Development State . . . . .	49
2.1.4	Release Notes . . . . .	49
2.1.5	PSI Release Notes . . . . .	49
2.2	High-Level Connection . . . . .	50
2.3	Security Considerations . . . . .	50
2.3.1	Transport Encryption . . . . .	50
2.3.2	Authentication . . . . .	51
2.3.3	Authorization and Data Visibility . . . . .	51
2.3.4	Other Security Aspects . . . . .	52
2.4	Types and Characteristics . . . . .	52
2.4.1	Examples . . . . .	52
2.4.2	JSON Schemas . . . . .	61
2.4.3	Integration of Service Monitoring Specification into Performance Monitoring API . . . . .	62
3	REST APIs	65
3.1	alarm (/alarmManagement) . . . . .	65
3.1.1	GET /alarm . . . . .	65
3.1.2	GET /alarm/{id} . . . . .	66
3.2	attachment (/document) . . . . .	67
3.2.1	GET /document/{documentId}/attachment . . . . .	67
3.2.2	POST /document/{documentId}/attachment . . . . .	68
3.2.3	GET /document/{documentId}/attachment/{attachmentId} . . . . .	69
3.2.4	DELETE /document/{documentId}/attachment/{attachmentId} . . . . .	70
3.2.5	PATCH /document/{documentId}/attachment/{attachmentId} . . . . .	71
3.2.6	GET /document/{documentId}/attachment/{attachmentId}/content . . . . .	72
3.2.7	PUT /document/{documentId}/attachment/{attachmentId}/content . . . . .	73
3.3	cancelPerformanceJob (/performanceMonitoring) . . . . .	74
3.3.1	GET /cancelPerformanceJob . . . . .	74
3.3.2	POST /cancelPerformanceJob . . . . .	76
3.3.3	GET /cancelPerformanceJob/{id} . . . . .	77
3.4	checkProductStock (/stock) . . . . .	78
3.4.1	POST /checkProductStock . . . . .	78
3.4.2	GET /checkProductStock/{id} . . . . .	79
3.5	customerBill (/customerBillManagement) . . . . .	80
3.5.1	GET /customerBill . . . . .	80
3.5.2	POST /customerBill . . . . .	81

3.5.3	GET /customerBill/{id}	82
3.5.4	DELETE /customerBill/{id}	83
3.5.5	PATCH /customerBill/{id}	84
3.6	customerInquiry (/customerInquiry)	86
3.6.1	POST /customerInquiry	86
3.6.2	GET /customerInquiry/{id}	87
3.6.3	DELETE /customerInquiry/{id}	88
3.6.4	PATCH /customerInquiry/{id}	89
3.6.5	GET /customerInquiry/{id}/results	90
3.7	document (/document)	91
3.7.1	GET /document	91
3.7.2	POST /document	92
3.7.3	GET /document/{id}	93
3.7.4	DELETE /document/{id}	94
3.7.5	PATCH /document/{id}	95
3.8	event (/event)	97
3.8.1	GET /topic/{topicId}/event	97
3.8.2	POST /topic/{topicId}/event	98
3.9	hub (/event)	99
3.9.1	GET /topic/{topicId}/hub	99
3.9.2	POST /topic/{topicId}/hub	100
3.9.3	DELETE /topic/{topicId}/hub/{id}	101
3.10	individual (/partyManagement)	102
3.10.1	GET /individual	102
3.10.2	POST /individual	103
3.10.3	GET /individual/{id}	104
3.10.4	DELETE /individual/{id}	105
3.10.5	PATCH /individual/{id}	106
3.11	keyIndicator (/serviceQualityManagement)	108
3.11.1	GET /keyIndicator	108
3.11.2	POST /keyIndicator	109
3.11.3	GET /keyIndicator/{id}	110
3.11.4	DELETE /keyIndicator/{id}	111
3.11.5	PATCH /keyIndicator/{id}	112
3.12	mission (/missionManagement)	113
3.12.1	GET /mission	113
3.12.2	POST /mission	114
3.12.3	GET /mission/{id}	115
3.12.4	DELETE /mission/{id}	116
3.12.5	PATCH /mission/{id}	117
3.13	modifyPerformanceJob (/performanceMonitoring)	118
3.13.1	GET /modifyPerformanceJob	118
3.13.2	POST /modifyPerformanceJob	120
3.13.3	GET /modifyPerformanceJob/{id}	121
3.14	organization (/partyManagement)	122
3.14.1	GET /organization	122
3.14.2	POST /organization	123
3.14.3	GET /organization/{id}	124
3.14.4	DELETE /organization/{id}	125

3.14.5	PATCH /organization/{id} . . . . .	126
3.15	performanceJob (/performanceMonitoring) . . . . .	128
3.15.1	GET /performanceJob . . . . .	128
3.15.2	POST /performanceJob . . . . .	130
3.15.3	GET /performanceJob/{id} . . . . .	131
3.16	performanceJobComplexQuery (/performanceMonitoring) . . . . .	132
3.16.1	POST /performanceJobComplexQuery . . . . .	132
3.17	performanceReport (/performanceMonitoring) . . . . .	133
3.17.1	GET /performanceReport . . . . .	133
3.17.2	POST /performanceReport . . . . .	135
3.17.3	GET /performanceReport/{id} . . . . .	136
3.18	performanceReportComplexQuery (/performanceMonitoring) . . . . .	137
3.18.1	POST /performanceReportComplexQuery . . . . .	137
3.19	product (/productInventory) . . . . .	138
3.19.1	GET /product . . . . .	138
3.19.2	POST /product . . . . .	139
3.19.3	GET /product/{id} . . . . .	140
3.19.4	DELETE /product/{id} . . . . .	141
3.19.5	PATCH /product/{id} . . . . .	142
3.20	productOffering (/productCatalogManagement) . . . . .	144
3.20.1	GET /productOffering . . . . .	144
3.20.2	POST /productOffering . . . . .	145
3.20.3	GET /productOffering/{id} . . . . .	146
3.20.4	DELETE /productOffering/{id} . . . . .	147
3.20.5	PATCH /productOffering/{id} . . . . .	148
3.21	productOrder (/productOrdering) . . . . .	150
3.21.1	GET /productOrder . . . . .	150
3.21.2	POST /productOrder . . . . .	151
3.21.3	GET /productOrder/{id} . . . . .	152
3.21.4	DELETE /productOrder/{id} . . . . .	153
3.21.5	PATCH /productOrder/{id} . . . . .	154
3.22	productSpecification (/productCatalogManagement) . . . . .	156
3.22.1	GET /productSpecification . . . . .	156
3.22.2	POST /productSpecification . . . . .	157
3.22.3	GET /productSpecification/{id} . . . . .	158
3.22.4	DELETE /productSpecification/{id} . . . . .	159
3.22.5	PATCH /productSpecification/{id} . . . . .	160
3.23	productTemplate (/productCatalogManagement) . . . . .	162
3.23.1	GET /productTemplate . . . . .	162
3.23.2	POST /productTemplate . . . . .	163
3.23.3	GET /productTemplate/{id} . . . . .	164
3.23.4	DELETE /productTemplate/{id} . . . . .	165
3.23.5	PATCH /productTemplate/{id} . . . . .	166
3.24	resource (/resourceInventory) . . . . .	168
3.24.1	GET /resource . . . . .	168
3.24.2	POST /resource . . . . .	170
3.24.3	GET /resource/{id} . . . . .	171
3.24.4	DELETE /resource/{id} . . . . .	172
3.24.5	PATCH /resource/{id} . . . . .	173

3.25	resourceSpecification (/resourceCatalog)	175
3.25.1	GET /resourceSpecification	175
3.25.2	POST /resourceSpecification	176
3.25.3	GET /resourceSpecification/{id}	177
3.25.4	DELETE /resourceSpecification/{id}	178
3.25.5	PATCH /resourceSpecification/{id}	179
3.26	resourceTemplate (/resourceCatalog)	181
3.26.1	GET /resourceTemplate	181
3.26.2	POST /resourceTemplate	182
3.26.3	GET /resourceTemplate/{id}	183
3.26.4	DELETE /resourceTemplate/{id}	184
3.26.5	PATCH /resourceTemplate/{id}	185
3.27	resumePerformanceJob (/performanceMonitoring)	187
3.27.1	GET /resumePerformanceJob	187
3.27.2	POST /resumePerformanceJob	189
3.27.3	GET /resumePerformanceJob/{id}	190
3.28	service (/serviceInventory)	191
3.28.1	GET /service	191
3.28.2	POST /service	192
3.28.3	GET /service/{id}	193
3.28.4	DELETE /service/{id}	194
3.28.5	PATCH /service/{id}	195
3.29	serviceLevelObjective (/serviceQualityManagement)	197
3.29.1	GET /serviceLevelObjective	197
3.29.2	POST /serviceLevelObjective	198
3.29.3	GET /serviceLevelObjective/{id}	199
3.29.4	DELETE /serviceLevelObjective/{id}	200
3.29.5	PATCH /serviceLevelObjective/{id}	201
3.30	serviceLevelSpecification (/serviceQualityManagement)	202
3.30.1	GET /serviceLevelSpecification	202
3.30.2	POST /serviceLevelSpecification	203
3.30.3	GET /serviceLevelSpecification/{id}	204
3.30.4	DELETE /serviceLevelSpecification/{id}	205
3.30.5	PATCH /serviceLevelSpecification/{id}	206
3.31	serviceSpecification (/serviceManagement)	207
3.31.1	GET /serviceSpecification	207
3.31.2	POST /serviceSpecification	208
3.31.3	GET /serviceSpecification/{id}	209
3.31.4	DELETE /serviceSpecification/{id}	210
3.31.5	PATCH /serviceSpecification/{id}	211
3.32	serviceTemplate (/serviceManagement)	213
3.32.1	GET /serviceTemplate	213
3.32.2	POST /serviceTemplate	214
3.32.3	GET /serviceTemplate/{id}	215
3.32.4	DELETE /serviceTemplate/{id}	216
3.32.5	PATCH /serviceTemplate/{id}	217
3.33	suspendPerformanceJob (/performanceMonitoring)	219
3.33.1	GET /suspendPerformanceJob	219
3.33.2	POST /suspendPerformanceJob	221

3.33.3	GET /suspendPerformanceJob/{id} . . . . .	222
3.34	topic (/event) . . . . .	223
3.34.1	GET /topic . . . . .	223
3.35	troubleTicket (/troubleTicket) . . . . .	224
3.35.1	GET /troubleTicket . . . . .	224
3.35.2	POST /troubleTicket . . . . .	225
3.35.3	GET /troubleTicket/{id} . . . . .	226
3.35.4	DELETE /troubleTicket/{id} . . . . .	227
3.35.5	PATCH /troubleTicket/{id} . . . . .	228
3.36	troubleTicketSpecification (/troubleTicket) . . . . .	230
3.36.1	GET /troubleTicketSpecification . . . . .	230
3.36.2	POST /troubleTicketSpecification . . . . .	231
3.36.3	GET /troubleTicketSpecification/{id} . . . . .	232
3.36.4	DELETE /troubleTicketSpecification/{id} . . . . .	233
3.36.5	PATCH /troubleTicketSpecification/{id} . . . . .	234
4	Data-Transfer-Objects	<b>236</b>
4.1	AccountRef . . . . .	236
4.2	AccountRef_FVO . . . . .	237
4.3	AccountRef_MVO . . . . .	238
4.4	Addressable . . . . .	239
4.5	Addressable_FVO . . . . .	240
4.6	AgreementItemRef . . . . .	241
4.7	AgreementItemRef_FVO . . . . .	242
4.8	AgreementItemRef_MVO . . . . .	243
4.9	AgreementRef . . . . .	244
4.10	AgreementRef_FVO . . . . .	245
4.11	AgreementRef_MVO . . . . .	246
4.12	Alarm . . . . .	247
4.13	AlarmRef . . . . .	249
4.14	AlarmType . . . . .	250
4.15	AlarmedObjectRef . . . . .	251
4.16	AllowedProductAction . . . . .	252
4.17	AllowedProductAction_FVO . . . . .	253
4.18	AllowedProductAction_MVO . . . . .	254
4.19	AlternateProductStock . . . . .	255
4.20	ApplicableTimePeriod . . . . .	256
4.21	AppliedPayment . . . . .	257
4.22	AppointmentRef . . . . .	258
4.23	AppointmentRef_FVO . . . . .	259
4.24	AppointmentRef_MVO . . . . .	260
4.25	AssociationSpecificationRef . . . . .	261
4.26	AssociationSpecificationRef_FVO . . . . .	262
4.27	AssociationSpecificationRef_MVO . . . . .	263
4.28	Attachment . . . . .	264
4.29	AttachmentOrDocumentRef . . . . .	265
4.30	AttachmentURL . . . . .	266
4.31	Attachment_FVO . . . . .	267
4.32	Attachment_MVO . . . . .	268

4.33	AvailabilityResultType . . . . .	269
4.34	BillCycleRef . . . . .	270
4.35	BillingAccountRef . . . . .	271
4.36	BillingAccountRef_FVO . . . . .	272
4.37	BillingAccountRef_MVO . . . . .	273
4.38	BooleanArrayCharacteristic . . . . .	274
4.39	BooleanArrayCharacteristic_FVO . . . . .	275
4.40	BooleanArrayCharacteristic_MVO . . . . .	276
4.41	BooleanCharacteristic . . . . .	277
4.42	BooleanCharacteristic_FVO . . . . .	278
4.43	BooleanCharacteristic_MVO . . . . .	279
4.44	BundledGroupProductOffering . . . . .	280
4.45	BundledGroupProductOfferingOption . . . . .	281
4.46	BundledProductOffering . . . . .	282
4.47	BundledProductOfferingOption . . . . .	283
4.48	BundledProductOfferingOption_FVO . . . . .	284
4.49	BundledProductOfferingOption_MVO . . . . .	285
4.50	BundledProductOfferingPriceRelationship . . . . .	286
4.51	BundledProductOffering_FVO . . . . .	287
4.52	BundledProductOffering_MVO . . . . .	288
4.53	BundledProductSpecification . . . . .	289
4.54	BundledProductSpecification_FVO . . . . .	290
4.55	BundledProductSpecification_MVO . . . . .	291
4.56	BusinessPartner . . . . .	292
4.57	BusinessPartner_FVO . . . . .	293
4.58	BusinessPartner_MVO . . . . .	294
4.59	CalendarPeriod . . . . .	295
4.60	CalendarPeriod_FVO . . . . .	296
4.61	CalendarPeriod_MVO . . . . .	297
4.62	CancelPerformanceJob . . . . .	298
4.63	CancelPerformanceJob_Common . . . . .	299
4.64	CancelPerformanceJob_Create . . . . .	300
4.65	CancelPerformanceJob_Find . . . . .	301
4.66	CategoryRef . . . . .	302
4.67	CategoryRef_FVO . . . . .	303
4.68	CategoryRef_MVO . . . . .	304
4.69	ChannelRef . . . . .	305
4.70	ChannelRef_FVO . . . . .	306
4.71	ChannelRef_MVO . . . . .	307
4.72	Characteristic . . . . .	308
4.73	CharacteristicRelationship . . . . .	309
4.74	CharacteristicRelationship_FVO . . . . .	310
4.75	CharacteristicRelationship_MVO . . . . .	311
4.76	CharacteristicSpecification . . . . .	312
4.77	CharacteristicSpecificationRelationship . . . . .	313
4.78	CharacteristicSpecificationRelationship_FVO . . . . .	314
4.79	CharacteristicSpecificationRelationship_MVO . . . . .	315
4.80	CharacteristicSpecification_FVO . . . . .	316
4.81	CharacteristicSpecification_MVO . . . . .	317

4.82	CharacteristicValuePrecedence . . . . .	318
4.83	CharacteristicValueSpecification . . . . .	319
4.84	CharacteristicValueSpecification_FVO . . . . .	320
4.85	CharacteristicValueSpecification_MVO . . . . .	321
4.86	Characteristic_FVO . . . . .	322
4.87	Characteristic_MVO . . . . .	323
4.88	CheckProductStock . . . . .	324
4.89	CheckProductStockItem . . . . .	325
4.90	CheckProductStock_Create . . . . .	326
4.91	Comment . . . . .	327
4.92	ConnectionPointSpecificationRef . . . . .	328
4.93	ConnectionSpecification . . . . .	329
4.94	ConstraintRef . . . . .	330
4.95	ConstraintRef_FVO . . . . .	331
4.96	ConstraintRef_MVO . . . . .	332
4.97	Consumer . . . . .	333
4.98	Consumer_FVO . . . . .	334
4.99	Consumer_MVO . . . . .	335
4.100	ContactMedium . . . . .	336
4.101	ContactMedium_FVO . . . . .	337
4.102	ContactMedium_MVO . . . . .	338
4.103	CreditProfile . . . . .	339
4.104	CreditProfile_FVO . . . . .	340
4.105	CreditProfile_MVO . . . . .	341
4.106	CrossedThresholdInformation . . . . .	342
4.107	CustomerBill . . . . .	343
4.108	CustomerBillRunType . . . . .	344
4.109	CustomerBillStateType . . . . .	345
4.110	CustomerBill_FVO . . . . .	346
4.111	CustomerBill_MVO . . . . .	347
4.112	CustomerCharacteristic . . . . .	348
4.113	CustomerInquiry . . . . .	349
4.114	CustomerInquiry_FVO . . . . .	350
4.115	CustomerInquiry_MVO . . . . .	351
4.116	Disability . . . . .	352
4.117	Document . . . . .	353
4.118	DocumentRef . . . . .	354
4.119	DocumentRefOrValue . . . . .	355
4.120	DocumentRefOrValue_FVO . . . . .	356
4.121	DocumentRefOrValue_MVO . . . . .	357
4.122	DocumentRef_FVO . . . . .	358
4.123	DocumentRef_MVO . . . . .	359
4.124	Document_FVO . . . . .	360
4.125	Document_MVO . . . . .	361
4.126	Duration . . . . .	362
4.127	EmailContactMedium . . . . .	363
4.128	EmailContactMedium_FVO . . . . .	364
4.129	EmailContactMedium_MVO . . . . .	365
4.130	EndpointSpecificationRef . . . . .	366



4.131	Entity . . . . .	367
4.132	EntityRef . . . . .	368
4.133	EntityRef_FVO . . . . .	369
4.134	EntityRef_MVO . . . . .	370
4.135	EntityRelationship . . . . .	371
4.136	EntityRelationship_FVO . . . . .	372
4.137	EntityRelationship_MVO . . . . .	373
4.138	EntitySpecification . . . . .	374
4.139	EntitySpecificationRelationship . . . . .	375
4.140	EntitySpecificationRelationship_FVO . . . . .	376
4.141	EntitySpecificationRelationship_MVO . . . . .	377
4.142	EntitySpecification_FVO . . . . .	378
4.143	EntitySpecification_MVO . . . . .	379
4.144	Entity_FVO . . . . .	380
4.145	Entity_MVO . . . . .	381
4.146	Error . . . . .	382
4.147	Error400 . . . . .	383
4.148	Error401 . . . . .	384
4.149	Error403 . . . . .	385
4.150	Error404 . . . . .	386
4.151	Error422 . . . . .	387
4.152	Error500 . . . . .	388
4.153	Error501 . . . . .	389
4.154	ErrorMessage . . . . .	390
4.155	ErrorMessage_FVO . . . . .	391
4.156	ErrorMessage_MVO . . . . .	392
4.157	Event . . . . .	393
4.158	Event_Create . . . . .	394
4.159	Expression . . . . .	395
4.160	ExpressionLanguageEnum . . . . .	396
4.161	Expression_FVO . . . . .	397
4.162	Expression_MVO . . . . .	398
4.163	Extensible . . . . .	399
4.164	Extensible_FVO . . . . .	400
4.165	ExternalIdentifier . . . . .	401
4.166	ExternalIdentifier_FVO . . . . .	402
4.167	ExternalIdentifier_MVO . . . . .	403
4.168	FaxContactMedium . . . . .	404
4.169	FaxContactMedium_FVO . . . . .	405
4.170	FaxContactMedium_MVO . . . . .	406
4.171	Feature . . . . .	407
4.172	FeatureRelationship . . . . .	408
4.173	FeatureRelationship_FVO . . . . .	409
4.174	FeatureRelationship_MVO . . . . .	410
4.175	FeatureSpecification . . . . .	411
4.176	FeatureSpecificationRelationship . . . . .	412
4.177	FeatureSpecificationRelationship_FVO . . . . .	413
4.178	FeatureSpecificationRelationship_MVO . . . . .	414
4.179	FeatureSpecification_FVO . . . . .	415

4.180	FeatureSpecification_MVO . . . . .	416
4.181	Feature_FVO . . . . .	417
4.182	Feature_MVO . . . . .	418
4.183	FileTransferData . . . . .	419
4.184	FinancialAccountRef . . . . .	420
4.185	FloatArrayCharacteristic . . . . .	421
4.186	FloatArrayCharacteristic_FVO . . . . .	422
4.187	FloatArrayCharacteristic_MVO . . . . .	423
4.188	FloatCharacteristic . . . . .	424
4.189	FloatCharacteristic_FVO . . . . .	425
4.190	FloatCharacteristic_MVO . . . . .	426
4.191	GeographicAddress . . . . .	427
4.192	GeographicAddressContactMedium . . . . .	428
4.193	GeographicAddressContactMedium_FVO . . . . .	429
4.194	GeographicAddressContactMedium_MVO . . . . .	430
4.195	GeographicAddressRef . . . . .	431
4.196	GeographicAddressRef_FVO . . . . .	432
4.197	GeographicAddressRef_MVO . . . . .	433
4.198	GeographicAddress_FVO . . . . .	434
4.199	GeographicAddress_MVO . . . . .	435
4.200	GeographicLocation . . . . .	436
4.201	GeographicLocationRef . . . . .	437
4.202	GeographicLocationRefOrValue . . . . .	438
4.203	GeographicLocationRefOrValue_FVO . . . . .	439
4.204	GeographicLocationRefOrValue_MVO . . . . .	440
4.205	GeographicLocationRef_FVO . . . . .	441
4.206	GeographicLocationRef_MVO . . . . .	442
4.207	GeographicLocation_FVO . . . . .	443
4.208	GeographicLocation_MVO . . . . .	444
4.209	GeographicSite . . . . .	445
4.210	GeographicSiteRelationship . . . . .	446
4.211	GeographicSiteRelationship_FVO . . . . .	447
4.212	GeographicSiteRelationship_MVO . . . . .	448
4.213	GeographicSite_FVO . . . . .	449
4.214	GeographicSite_MVO . . . . .	450
4.215	GeographicSubAddress . . . . .	451
4.216	GeographicSubAddressUnit . . . . .	452
4.217	GeographicSubAddressUnit_FVO . . . . .	453
4.218	GeographicSubAddressUnit_MVO . . . . .	454
4.219	GeographicSubAddress_FVO . . . . .	455
4.220	GeographicSubAddress_MVO . . . . .	456
4.221	Geometry . . . . .	457
4.222	HourPeriod . . . . .	458
4.223	HourPeriod_FVO . . . . .	459
4.224	HourPeriod_MVO . . . . .	460
4.225	HourRange . . . . .	461
4.226	HubSubscription . . . . .	462
4.227	HubSubscription_Create . . . . .	463
4.228	Individual . . . . .	464

4.229	IndividualIdentification	466
4.230	IndividualIdentification_FVO	467
4.231	IndividualIdentification_MVO	468
4.232	IndividualStateType	469
4.233	Individual_FVO	470
4.234	Individual_MVO	472
4.235	InitialProductOrderStateType	474
4.236	InquiredCharacteristicValueSpecification	475
4.237	InquiredProduct	476
4.238	InquiredProductCharacteristic	477
4.239	InquiredProductRef	478
4.240	InquiredProductRelationship	479
4.241	InquiredProvider	480
4.242	InquiryResult	481
4.243	InquiryStateType	482
4.244	IntegerArrayCharacteristic	483
4.245	IntegerArrayCharacteristicValueSpecification	484
4.246	IntegerArrayCharacteristicValueSpecification_FVO	485
4.247	IntegerArrayCharacteristicValueSpecification_MVO	486
4.248	IntegerArrayCharacteristic_FVO	487
4.249	IntegerArrayCharacteristic_MVO	488
4.250	IntegerCharacteristic	489
4.251	IntegerCharacteristicValueSpecification	490
4.252	IntegerCharacteristicValueSpecification_FVO	491
4.253	IntegerCharacteristicValueSpecification_MVO	492
4.254	IntegerCharacteristic_FVO	493
4.255	IntegerCharacteristic_MVO	494
4.256	Intent	495
4.257	IntentRef	496
4.258	IntentRefOrValue	497
4.259	IntentRefOrValue_FVO	498
4.260	IntentRefOrValue_MVO	499
4.261	IntentRef_FVO	500
4.262	IntentRef_MVO	501
4.263	IntentSpecificationRef	502
4.264	IntentSpecificationRef_FVO	503
4.265	IntentSpecificationRef_MVO	504
4.266	Intent_FVO	505
4.267	Intent_MVO	506
4.268	Interval	507
4.269	ItemActionType	508
4.270	JeopardyAlert	509
4.271	JeopardyAlert_FVO	510
4.272	JeopardyAlert_MVO	511
4.273	JobType	512
4.274	JsonPatch	513
4.275	JsonPatchOperations	514
4.276	KeyIndicator	515
4.277	KeyIndicatorRelationship	516

4.278	KeyIndicator_Create	517
4.279	KeyIndicator_Update	518
4.280	LanguageAbility	519
4.281	LineString	520
4.282	LogicalResource	521
4.283	LogicalResourceSpecification	523
4.284	LogicalResource_FVO	524
4.285	LogicalResource_MVO	526
4.286	MapArrayCharacteristicValueSpecification	528
4.287	MapArrayCharacteristicValueSpecification_FVO	529
4.288	MapArrayCharacteristicValueSpecification_MVO	530
4.289	MapCharacteristicValueSpecification	531
4.290	MapCharacteristicValueSpecification_FVO	532
4.291	MapCharacteristicValueSpecification_MVO	533
4.292	MarketSegmentRef	534
4.293	MarketSegmentRef_FVO	535
4.294	MarketSegmentRef_MVO	536
4.295	MeasurementTime	537
4.296	Milestone	538
4.297	Milestone_FVO	539
4.298	Milestone_MVO	540
4.299	Mission	541
4.300	MissionAsset	542
4.301	MissionAssetRelationship	543
4.302	MissionRelationship	544
4.303	MissionStatusType	545
4.304	Mission_FVO	546
4.305	Mission_MVO	547
4.306	ModifyPerformanceJob	548
4.307	ModifyPerformanceJob_Common	549
4.308	ModifyPerformanceJob_Create	550
4.309	ModifyPerformanceJob_Find	551
4.310	ModifyPerformanceJob_ProfileValue	552
4.311	Money	553
4.312	MonthlyScheduleDayOfWeekDefinition	554
4.313	MultiLineString	555
4.314	MultiPoint	556
4.315	MultiPolygon	557
4.316	Note	558
4.317	Note_FVO	559
4.318	Note_MVO	560
4.319	NumberArrayCharacteristic	561
4.320	NumberArrayCharacteristicValueSpecification	562
4.321	NumberArrayCharacteristicValueSpecification_FVO	563
4.322	NumberArrayCharacteristicValueSpecification_MVO	564
4.323	NumberArrayCharacteristic_FVO	565
4.324	NumberArrayCharacteristic_MVO	566
4.325	NumberCharacteristic	567
4.326	NumberCharacteristicValueSpecification	568

4.327	NumberCharacteristicValueSpecification_FVO	569
4.328	NumberCharacteristicValueSpecification_MVO	570
4.329	NumberCharacteristic_FVO	571
4.330	NumberCharacteristic_MVO	572
4.331	ObjectArrayCharacteristic	573
4.332	ObjectArrayCharacteristicValueSpecification	574
4.333	ObjectArrayCharacteristicValueSpecification_FVO	575
4.334	ObjectArrayCharacteristicValueSpecification_MVO	576
4.335	ObjectArrayCharacteristic_FVO	577
4.336	ObjectArrayCharacteristic_MVO	578
4.337	ObjectCharacteristic	579
4.338	ObjectCharacteristicValueSpecification	580
4.339	ObjectCharacteristicValueSpecification_FVO	581
4.340	ObjectCharacteristicValueSpecification_MVO	582
4.341	ObjectCharacteristic_FVO	583
4.342	ObjectCharacteristic_MVO	584
4.343	OrderItemActionType	585
4.344	OrderItemRelationship	586
4.345	OrderItemRelationship_FVO	587
4.346	OrderItemRelationship_MVO	588
4.347	OrderPrice	589
4.348	OrderPrice_FVO	590
4.349	OrderPrice_MVO	591
4.350	OrderRelationship	592
4.351	OrderRelationship_FVO	593
4.352	OrderRelationship_MVO	594
4.353	OrderTerm	595
4.354	OrderTerm_FVO	596
4.355	OrderTerm_MVO	597
4.356	Organization	598
4.357	OrganizationChildRelationship	599
4.358	OrganizationChildRelationship_FVO	600
4.359	OrganizationChildRelationship_MVO	601
4.360	OrganizationIdentification	602
4.361	OrganizationIdentification_FVO	603
4.362	OrganizationIdentification_MVO	604
4.363	OrganizationParentRelationship	605
4.364	OrganizationParentRelationship_FVO	606
4.365	OrganizationParentRelationship_MVO	607
4.366	OrganizationRef	608
4.367	OrganizationRef_FVO	609
4.368	OrganizationRef_MVO	610
4.369	OrganizationStateType	611
4.370	Organization_FVO	612
4.371	Organization_MVO	613
4.372	OtherNameIndividual	614
4.373	OtherNameOrganization	615
4.374	OtherNameOrganization_FVO	616
4.375	OtherNameOrganization_MVO	617

4.376	OutputFormat . . . . .	618
4.377	Party . . . . .	619
4.378	PartyCreditProfile . . . . .	620
4.379	PartyCreditProfile_FVO . . . . .	621
4.380	PartyCreditProfile_MVO . . . . .	622
4.381	PartyOrPartyRole . . . . .	623
4.382	PartyOrPartyRole_FVO . . . . .	624
4.383	PartyOrPartyRole_MVO . . . . .	625
4.384	PartyRef . . . . .	626
4.385	PartyRefOrPartyRoleRef . . . . .	627
4.386	PartyRefOrPartyRoleRef_FVO . . . . .	628
4.387	PartyRefOrPartyRoleRef_MVO . . . . .	629
4.388	PartyRef_FVO . . . . .	630
4.389	PartyRef_MVO . . . . .	631
4.390	PartyRole . . . . .	632
4.391	PartyRoleRef . . . . .	633
4.392	PartyRoleRef_FVO . . . . .	634
4.393	PartyRoleRef_MVO . . . . .	635
4.394	PartyRoleSpecificationRef . . . . .	636
4.395	PartyRoleSpecificationRef_FVO . . . . .	637
4.396	PartyRoleSpecificationRef_MVO . . . . .	638
4.397	PartyRole_FVO . . . . .	639
4.398	PartyRole_MVO . . . . .	640
4.399	Party_FVO . . . . .	641
4.400	Party_MVO . . . . .	642
4.401	PaymentMethodRef . . . . .	643
4.402	PaymentMethodRef_FVO . . . . .	644
4.403	PaymentMethodRef_MVO . . . . .	645
4.404	PaymentRef . . . . .	646
4.405	PaymentRef_FVO . . . . .	647
4.406	PaymentRef_MVO . . . . .	648
4.407	PerceivedSeverity . . . . .	649
4.408	PerformanceJob . . . . .	650
4.409	PerformanceJobComplexQuery . . . . .	651
4.410	PerformanceJobComplexQuery_Create . . . . .	652
4.411	PerformanceJobProcessStateType . . . . .	653
4.412	PerformanceJobRef . . . . .	654
4.413	PerformanceJobRefOrValue . . . . .	655
4.414	PerformanceJobStateType . . . . .	656
4.415	PerformanceJobValue . . . . .	657
4.416	PerformanceJob_Common . . . . .	658
4.417	PerformanceJob_Create . . . . .	659
4.418	PerformanceJob_Find . . . . .	660
4.419	PerformanceProfileRef . . . . .	661
4.420	PerformanceProfileRefOrValue . . . . .	662
4.421	PerformanceProfileValue . . . . .	663
4.422	PerformanceReport . . . . .	664
4.423	PerformanceReportComplexQuery . . . . .	665
4.424	PerformanceReportComplexQuery_Create . . . . .	666

4.425	PerformanceReportRef . . . . .	667
4.426	PerformanceReportStateType . . . . .	668
4.427	PerformanceReport_Common . . . . .	669
4.428	PerformanceReport_Create . . . . .	670
4.429	PerformanceReport_Find . . . . .	671
4.430	PhoneContactMedium . . . . .	672
4.431	PhoneContactMedium_FVO . . . . .	673
4.432	PhoneContactMedium_MVO . . . . .	674
4.433	PhysicalResource . . . . .	675
4.434	PhysicalResourceSpecification . . . . .	677
4.435	PhysicalResource_FVO . . . . .	678
4.436	PhysicalResource_MVO . . . . .	680
4.437	Place . . . . .	682
4.438	PlaceRef . . . . .	683
4.439	PlaceRefOrValue . . . . .	684
4.440	PlaceRefOrValue_FVO . . . . .	685
4.441	PlaceRefOrValue_MVO . . . . .	686
4.442	PlaceRef_FVO . . . . .	687
4.443	PlaceRef_MVO . . . . .	688
4.444	Place_FVO . . . . .	689
4.445	Place_MVO . . . . .	690
4.446	Point . . . . .	691
4.447	Point2D . . . . .	692
4.448	PolicyRef . . . . .	693
4.449	PolicyRef_FVO . . . . .	694
4.450	PolicyRef_MVO . . . . .	695
4.451	Polygon . . . . .	696
4.452	Price . . . . .	697
4.453	PriceAlteration . . . . .	698
4.454	PriceAlteration_FVO . . . . .	699
4.455	PriceAlteration_MVO . . . . .	700
4.456	Price_FVO . . . . .	701
4.457	Price_MVO . . . . .	702
4.458	PricingLogicAlgorithm . . . . .	703
4.459	Producer . . . . .	704
4.460	Producer_FVO . . . . .	705
4.461	Producer_MVO . . . . .	706
4.462	Product . . . . .	707
4.463	ProductOffering . . . . .	708
4.464	ProductOfferingPrice . . . . .	710
4.465	ProductOfferingPriceRef . . . . .	711
4.466	ProductOfferingPriceRef_FVO . . . . .	712
4.467	ProductOfferingPriceRef_MVO . . . . .	713
4.468	ProductOfferingPriceRelationship . . . . .	714
4.469	ProductOfferingQualificationItemRef . . . . .	715
4.470	ProductOfferingQualificationItemRef_FVO . . . . .	716
4.471	ProductOfferingQualificationItemRef_MVO . . . . .	717
4.472	ProductOfferingQualificationRef . . . . .	718
4.473	ProductOfferingQualificationRef_FVO . . . . .	719



4.474	ProductOfferingQualificationRef_MVO	720
4.475	ProductOfferingRef	721
4.476	ProductOfferingRef_FVO	722
4.477	ProductOfferingRef_MVO	723
4.478	ProductOfferingRelationship	724
4.479	ProductOfferingRelationship_FVO	725
4.480	ProductOfferingRelationship_MVO	726
4.481	ProductOfferingTerm	727
4.482	ProductOfferingTerm_FVO	728
4.483	ProductOfferingTerm_MVO	729
4.484	ProductOffering_FVO	730
4.485	ProductOffering_MVO	732
4.486	ProductOrder	734
4.487	ProductOrderErrorMessage	736
4.488	ProductOrderErrorMessage_FVO	737
4.489	ProductOrderErrorMessage_MVO	738
4.490	ProductOrderItem	739
4.491	ProductOrderItemRef	740
4.492	ProductOrderItemRef_FVO	741
4.493	ProductOrderItemRef_MVO	742
4.494	ProductOrderItemStateType	743
4.495	ProductOrderItem_FVO	744
4.496	ProductOrderItem_MVO	745
4.497	ProductOrderJeopardyAlert	746
4.498	ProductOrderJeopardyAlert_FVO	747
4.499	ProductOrderJeopardyAlert_MVO	748
4.500	ProductOrderMilestone	749
4.501	ProductOrderMilestone_FVO	750
4.502	ProductOrderMilestone_MVO	751
4.503	ProductOrderRef	752
4.504	ProductOrderStateType	753
4.505	ProductOrder_FVO	754
4.506	ProductOrder_MVO	755
4.507	ProductPrice	757
4.508	ProductPrice_FVO	758
4.509	ProductPrice_MVO	759
4.510	ProductRef	760
4.511	ProductRefOrValue	761
4.512	ProductRefOrValue_FVO	762
4.513	ProductRefOrValue_MVO	763
4.514	ProductRef_FVO	764
4.515	ProductRef_MVO	765
4.516	ProductRelationship	766
4.517	ProductRelationship_FVO	767
4.518	ProductRelationship_MVO	768
4.519	ProductSpecification	769
4.520	ProductSpecificationCharacteristicValueUse	770
4.521	ProductSpecificationCharacteristicValueUse_FVO	771
4.522	ProductSpecificationCharacteristicValueUse_MVO	772



4.523	ProductSpecificationRef	773
4.524	ProductSpecificationRef_FVO	774
4.525	ProductSpecificationRef_MVO	775
4.526	ProductSpecificationRelationship	776
4.527	ProductSpecificationRelationship_FVO	777
4.528	ProductSpecificationRelationship_MVO	778
4.529	ProductSpecification_FVO	779
4.530	ProductSpecification_MVO	780
4.531	ProductStatusType	781
4.532	ProductStock	782
4.533	ProductStockRef	783
4.534	ProductStockRelationship	784
4.535	ProductStockStatusType	785
4.536	ProductStockUsageType	786
4.537	ProductTerm	787
4.538	ProductTerm_FVO	788
4.539	ProductTerm_MVO	789
4.540	Product_FVO	790
4.541	Product_MVO	791
4.542	Quantity	792
4.543	QuoteItemRef	793
4.544	QuoteItemRef_FVO	794
4.545	QuoteItemRef_MVO	795
4.546	QuoteRef	796
4.547	QuoteRef_FVO	797
4.548	QuoteRef_MVO	798
4.549	RecurringFrequency	799
4.550	RelatedChannel	800
4.551	RelatedChannel_FVO	801
4.552	RelatedChannel_MVO	802
4.553	RelatedEntity	803
4.554	RelatedEntity_FVO	804
4.555	RelatedEntity_MVO	805
4.556	RelatedOrderItem	806
4.557	RelatedOrderItem_FVO	807
4.558	RelatedOrderItem_MVO	808
4.559	RelatedParty	809
4.560	RelatedPartyOrPartyRole	810
4.561	RelatedPartyOrPartyRole_FVO	811
4.562	RelatedPartyOrPartyRole_MVO	812
4.563	RelatedPartyRefOrPartyRoleRef	813
4.564	RelatedPartyRefOrPartyRoleRef_FVO	814
4.565	RelatedPartyRefOrPartyRoleRef_MVO	815
4.566	RelatedPlaceRef	816
4.567	RelatedPlaceRefOrValue	817
4.568	RelatedPlaceRefOrValue_FVO	818
4.569	RelatedPlaceRefOrValue_MVO	819
4.570	RelatedPlaceRef_FVO	820
4.571	RelatedPlaceRef_MVO	821

4.572	RelatedResourceOrderItem	822
4.573	RelatedResourceOrderItem_FVO	823
4.574	RelatedResourceOrderItem_MVO	824
4.575	RelatedServiceOrderItem	825
4.576	RelatedServiceOrderItem_FVO	826
4.577	RelatedServiceOrderItem_MVO	827
4.578	RelationshipCharacteristic	828
4.579	RelativeTimePeriod	829
4.580	ReportContentItem	830
4.581	ReportingTimeframe	831
4.582	Resource	832
4.583	ResourceAdministrativeStateType	834
4.584	ResourceCandidateRef	835
4.585	ResourceCandidateRef_FVO	836
4.586	ResourceCandidateRef_MVO	837
4.587	ResourceCollection	838
4.588	ResourceCollection_FVO	840
4.589	ResourceCollection_MVO	842
4.590	ResourceFunctionSpecification	844
4.591	ResourceGraphSpecification	845
4.592	ResourceGraphSpecificationRef	846
4.593	ResourceGraphSpecificationRelationship	847
4.594	ResourceOperationalStateType	848
4.595	ResourceRef	849
4.596	ResourceRefOrValue	850
4.597	ResourceRefOrValue_FVO	851
4.598	ResourceRefOrValue_MVO	852
4.599	ResourceRef_FVO	853
4.600	ResourceRef_MVO	854
4.601	ResourceRelationship	855
4.602	ResourceRelationship_FVO	856
4.603	ResourceRelationship_MVO	857
4.604	ResourceSpecification	858
4.605	ResourceSpecificationRef	859
4.606	ResourceSpecificationRef_FVO	860
4.607	ResourceSpecificationRef_MVO	861
4.608	ResourceSpecificationRelationship	862
4.609	ResourceSpecificationRelationship_FVO	863
4.610	ResourceSpecificationRelationship_MVO	864
4.611	ResourceSpecification_FVO	865
4.612	ResourceSpecification_MVO	866
4.613	ResourceStatusType	867
4.614	ResourceUsageStateType	868
4.615	Resource_FVO	869
4.616	Resource_MVO	871
4.617	ResponseTime	873
4.618	ResultFormat	874
4.619	ResultPayload	875
4.620	ResumePerformanceJob	876

4.621	ResumePerformanceJob_Common	877
4.622	ResumePerformanceJob_Create	878
4.623	ResumePerformanceJob_Find	879
4.624	ScheduleDefinition	880
4.625	Service	881
4.626	ServiceCandidateRef	883
4.627	ServiceCandidateRef_FVO	884
4.628	ServiceCandidateRef_MVO	885
4.629	ServiceLevelObjective	886
4.630	ServiceLevelObjectiveRef	887
4.631	ServiceLevelObjectiveThreshold	888
4.632	ServiceLevelObjective_Create	889
4.633	ServiceLevelObjective_Update	890
4.634	ServiceLevelSpecConsequence	891
4.635	ServiceLevelSpecification	892
4.636	ServiceLevelSpecificationRef	893
4.637	ServiceLevelSpecificationRef_FVO	894
4.638	ServiceLevelSpecificationRef_MVO	895
4.639	ServiceLevelSpecification_Create	896
4.640	ServiceLevelSpecification_Update	897
4.641	ServiceOperatingStatusType	898
4.642	ServicePayloadSpecificAttributes	899
4.643	ServiceRef	900
4.644	ServiceRefOrValue	901
4.645	ServiceRefOrValue_FVO	902
4.646	ServiceRefOrValue_MVO	903
4.647	ServiceRef_FVO	904
4.648	ServiceRef_MVO	905
4.649	ServiceRelationship	906
4.650	ServiceRelationship_FVO	907
4.651	ServiceRelationship_MVO	908
4.652	ServiceSpecification	909
4.653	ServiceSpecificationRef	910
4.654	ServiceSpecificationRef_FVO	911
4.655	ServiceSpecificationRef_MVO	912
4.656	ServiceSpecification_FVO	913
4.657	ServiceSpecification_MVO	914
4.658	ServiceStateType	915
4.659	Service_FVO	916
4.660	Service_MVO	918
4.661	Skill	920
4.662	SocialContactMedium	921
4.663	SocialContactMedium_FVO	922
4.664	SocialContactMedium_MVO	923
4.665	StandardIdentifier	924
4.666	StandardIdentifier_FVO	925
4.667	StandardIdentifier_MVO	926
4.668	StatusChange	927
4.669	StatusChange_MVO	928

4.670	StringArrayCharacteristic . . . . .	929
4.671	StringArrayCharacteristicValueSpecification . . . . .	930
4.672	StringArrayCharacteristicValueSpecification_FVO . . . . .	931
4.673	StringArrayCharacteristicValueSpecification_MVO . . . . .	932
4.674	StringArrayCharacteristic_FVO . . . . .	933
4.675	StringArrayCharacteristic_MVO . . . . .	934
4.676	StringCharacteristic . . . . .	935
4.677	StringCharacteristicValueSpecification . . . . .	936
4.678	StringCharacteristicValueSpecification_FVO . . . . .	937
4.679	StringCharacteristicValueSpecification_MVO . . . . .	938
4.680	StringCharacteristic_FVO . . . . .	939
4.681	StringCharacteristic_MVO . . . . .	940
4.682	Supplier . . . . .	941
4.683	Supplier_FVO . . . . .	942
4.684	Supplier_MVO . . . . .	943
4.685	SuspendPerformanceJob . . . . .	944
4.686	SuspendPerformanceJob_Common . . . . .	945
4.687	SuspendPerformanceJob_Create . . . . .	946
4.688	SuspendPerformanceJob_Find . . . . .	947
4.689	TargetEntitySchema . . . . .	948
4.690	TargetEntitySchema_FVO . . . . .	949
4.691	TargetEntitySchema_MVO . . . . .	950
4.692	TargetProductSchema . . . . .	951
4.693	TargetProductSchema_FVO . . . . .	952
4.694	TargetProductSchema_MVO . . . . .	953
4.695	TargetResourceSchema . . . . .	954
4.696	TargetResourceSchema_FVO . . . . .	955
4.697	TargetResourceSchema_MVO . . . . .	956
4.698	TaskStateType . . . . .	957
4.699	TaxDefinition . . . . .	958
4.700	TaxDefinition_FVO . . . . .	959
4.701	TaxDefinition_MVO . . . . .	960
4.702	TaxExemptionCertificate . . . . .	961
4.703	TaxExemptionCertificate_FVO . . . . .	962
4.704	TaxExemptionCertificate_MVO . . . . .	963
4.705	TaxItem . . . . .	964
4.706	ThresholdRef . . . . .	965
4.707	TimeInterval . . . . .	966
4.708	TimePeriod . . . . .	967
4.709	Topic . . . . .	968
4.710	TotalPrice . . . . .	969
4.711	TroubleTicket . . . . .	970
4.712	TroubleTicketRelationship . . . . .	971
4.713	TroubleTicketRelationship_FVO . . . . .	972
4.714	TroubleTicketRelationship_MVO . . . . .	973
4.715	TroubleTicketSpecification . . . . .	974
4.716	TroubleTicketSpecificationRef . . . . .	975
4.717	TroubleTicketSpecificationRef_FVO . . . . .	976
4.718	TroubleTicketSpecificationRef_MVO . . . . .	977

4.719	TroubleTicketSpecification_FVO . . . . .	978
4.720	TroubleTicketSpecification_MVO . . . . .	979
4.721	TroubleTicketStatusType . . . . .	980
4.722	TroubleTicket_FVO . . . . .	981
4.723	TroubleTicket_MVO . . . . .	982
4.724	UsageEstimation . . . . .	983

## List of Figures

1.1	DCR QR-Code. . . . .	46
2.1	The PSI consortium. . . . .	48
2.2	Example Inquiry for Raw Bandwidth . . . . .	53
2.3	Example Results for Raw Bandwidth . . . . .	54
2.4	Example Inventory for Raw Bandwidth . . . . .	55
2.5	Example Inquiry for Anchoring Capacity . . . . .	56
2.6	Example Results for Anchoring Capacity . . . . .	56
2.7	Example Inventory for Anchoring Capacity . . . . .	57
2.8	Example Inquiry for End-to-End Service . . . . .	58
2.9	Example Results for End-to-End Service . . . . .	59
2.10	Example Inventory for End-to-End Service . . . . .	60
2.11	Example Of A Customer Inquiry of Internet Access / Bandwidth . . . . .	61
2.12	JSON Schema for InternetAccessService . . . . .	62
2.13	Performance Monitoring. . . . .	64

## List of Tables

1.1	Signature Table. . . . .	44
1.2	DCR Table. . . . .	45
1.3	GIT Changelog Table. . . . .	45
1.4	Reference Documents. . . . .	46
1.5	External Annexes . . . . .	46
3.1	Parameters of GET alarm. . . . .	65
3.2	Responses of GET alarm. . . . .	65
3.3	Parameters of GET alarm/{id}. . . . .	66
3.4	Responses of GET alarm/{id}. . . . .	66
3.5	Parameters of GET document/{documentId}/attachment. . . . .	67
3.6	Responses of GET document/{documentId}/attachment. . . . .	67
3.7	Parameters of POST document/{documentId}/attachment. . . . .	68
3.8	Request Body of POST document/{documentId}/attachment. . . . .	68
3.9	Responses of POST document/{documentId}/attachment. . . . .	68
3.10	Parameters of GET document/{documentId}/attachment/{attachmentId}. . . . .	69
3.11	Responses of GET document/{documentId}/attachment/{attachmentId}. . . . .	69
3.12	Parameters of DELETE document/{documentId}/attachment/{attachmentId}. . . . .	70
3.13	Responses of DELETE document/{documentId}/attachment/{attachmentId}. . . . .	70
3.14	Parameters of PATCH document/{documentId}/attachment/{attachmentId}. . . . .	71
3.15	Request Body of PATCH document/{documentId}/attachment/{attachmentId}. . . . .	71
3.16	Responses of PATCH document/{documentId}/attachment/{attachmentId}. . . . .	71
3.17	Parameters of GET document/{documentId}/attachment/{attachmentId}/content. . . . .	72
3.18	Responses of GET document/{documentId}/attachment/{attachmentId}/content. . . . .	72

3.19	Parameters of PUT document/{documentId}/attachment/{attachmentId}/content. . . . .	73
3.20	Request Body of PUT document/{documentId}/attachment/{attachmentId}/content. . . . .	73
3.21	Responses of PUT document/{documentId}/attachment/{attachmentId}/content. . . . .	73
3.22	Parameters of GET cancelPerformanceJob. . . . .	74
3.23	Responses of GET cancelPerformanceJob. . . . .	75
3.24	Request Body of POST cancelPerformanceJob. . . . .	76
3.25	Responses of POST cancelPerformanceJob. . . . .	76
3.26	Parameters of GET cancelPerformanceJob/{id}. . . . .	77
3.27	Responses of GET cancelPerformanceJob/{id}. . . . .	77
3.28	Request Body of POST checkProductStock. . . . .	78
3.29	Responses of POST checkProductStock. . . . .	78
3.30	Parameters of GET checkProductStock/{id}. . . . .	79
3.31	Responses of GET checkProductStock/{id}. . . . .	79
3.32	Parameters of GET customerBill. . . . .	80
3.33	Responses of GET customerBill. . . . .	80
3.34	Parameters of POST customerBill. . . . .	81
3.35	Request Body of POST customerBill. . . . .	81
3.36	Responses of POST customerBill. . . . .	81
3.37	Parameters of GET customerBill/{id}. . . . .	82
3.38	Responses of GET customerBill/{id}. . . . .	82
3.39	Parameters of DELETE customerBill/{id}. . . . .	83
3.40	Responses of DELETE customerBill/{id}. . . . .	83
3.41	Parameters of PATCH customerBill/{id}. . . . .	84
3.42	Request Body of PATCH customerBill/{id}. . . . .	84
3.43	Responses of PATCH customerBill/{id}. . . . .	85
3.44	Request Body of POST customerInquiry. . . . .	86
3.45	Responses of POST customerInquiry. . . . .	86
3.46	Parameters of GET customerInquiry/{id}. . . . .	87
3.47	Responses of GET customerInquiry/{id}. . . . .	87
3.48	Parameters of DELETE customerInquiry/{id}. . . . .	88
3.49	Responses of DELETE customerInquiry/{id}. . . . .	88
3.50	Parameters of PATCH customerInquiry/{id}. . . . .	89
3.51	Request Body of PATCH customerInquiry/{id}. . . . .	89
3.52	Responses of PATCH customerInquiry/{id}. . . . .	89
3.53	Parameters of GET customerInquiry/{id}/results. . . . .	90
3.54	Responses of GET customerInquiry/{id}/results. . . . .	90
3.55	Parameters of GET document. . . . .	91
3.56	Responses of GET document. . . . .	91
3.57	Parameters of POST document. . . . .	92
3.58	Request Body of POST document. . . . .	92
3.59	Responses of POST document. . . . .	92
3.60	Parameters of GET document/{id}. . . . .	93
3.61	Responses of GET document/{id}. . . . .	93
3.62	Parameters of DELETE document/{id}. . . . .	94
3.63	Responses of DELETE document/{id}. . . . .	94
3.64	Parameters of PATCH document/{id}. . . . .	95
3.65	Request Body of PATCH document/{id}. . . . .	95
3.66	Responses of PATCH document/{id}. . . . .	96
3.67	Parameters of GET topic/{topicId}/event. . . . .	97



3.68	Responses of GET topic/{topicId}/event. . . . .	97
3.69	Parameters of POST topic/{topicId}/event. . . . .	98
3.70	Request Body of POST topic/{topicId}/event. . . . .	98
3.71	Responses of POST topic/{topicId}/event. . . . .	98
3.72	Parameters of GET topic/{topicId}/hub. . . . .	99
3.73	Responses of GET topic/{topicId}/hub. . . . .	99
3.74	Parameters of POST topic/{topicId}/hub. . . . .	100
3.75	Request Body of POST topic/{topicId}/hub. . . . .	100
3.76	Responses of POST topic/{topicId}/hub. . . . .	100
3.77	Parameters of DELETE topic/{topicId}/hub/{id}. . . . .	101
3.78	Responses of DELETE topic/{topicId}/hub/{id}. . . . .	101
3.79	Parameters of GET individual. . . . .	102
3.80	Responses of GET individual. . . . .	102
3.81	Parameters of POST individual. . . . .	103
3.82	Request Body of POST individual. . . . .	103
3.83	Responses of POST individual. . . . .	103
3.84	Parameters of GET individual/{id}. . . . .	104
3.85	Responses of GET individual/{id}. . . . .	104
3.86	Parameters of DELETE individual/{id}. . . . .	105
3.87	Responses of DELETE individual/{id}. . . . .	105
3.88	Parameters of PATCH individual/{id}. . . . .	106
3.89	Request Body of PATCH individual/{id}. . . . .	106
3.90	Responses of PATCH individual/{id}. . . . .	107
3.91	Parameters of GET keyIndicator. . . . .	108
3.92	Responses of GET keyIndicator. . . . .	108
3.93	Request Body of POST keyIndicator. . . . .	109
3.94	Responses of POST keyIndicator. . . . .	109
3.95	Parameters of GET keyIndicator/{id}. . . . .	110
3.96	Responses of GET keyIndicator/{id}. . . . .	110
3.97	Parameters of DELETE keyIndicator/{id}. . . . .	111
3.98	Responses of DELETE keyIndicator/{id}. . . . .	111
3.99	Parameters of PATCH keyIndicator/{id}. . . . .	112
3.100	Request Body of PATCH keyIndicator/{id}. . . . .	112
3.101	Responses of PATCH keyIndicator/{id}. . . . .	112
3.102	Parameters of GET mission. . . . .	113
3.103	Responses of GET mission. . . . .	113
3.104	Request Body of POST mission. . . . .	114
3.105	Responses of POST mission. . . . .	114
3.106	Parameters of GET mission/{id}. . . . .	115
3.107	Responses of GET mission/{id}. . . . .	115
3.108	Parameters of DELETE mission/{id}. . . . .	116
3.109	Responses of DELETE mission/{id}. . . . .	116
3.110	Parameters of PATCH mission/{id}. . . . .	117
3.111	Request Body of PATCH mission/{id}. . . . .	117
3.112	Responses of PATCH mission/{id}. . . . .	117
3.113	Parameters of GET modifyPerformanceJob. . . . .	118
3.114	Responses of GET modifyPerformanceJob. . . . .	119
3.115	Request Body of POST modifyPerformanceJob. . . . .	120
3.116	Responses of POST modifyPerformanceJob. . . . .	120

3.117	Parameters of GET modifyPerformanceJob/{id}. . . . .	121
3.118	Responses of GET modifyPerformanceJob/{id}. . . . .	121
3.119	Parameters of GET organization. . . . .	122
3.120	Responses of GET organization. . . . .	122
3.121	Parameters of POST organization. . . . .	123
3.122	Request Body of POST organization. . . . .	123
3.123	Responses of POST organization. . . . .	123
3.124	Parameters of GET organization/{id}. . . . .	124
3.125	Responses of GET organization/{id}. . . . .	124
3.126	Parameters of DELETE organization/{id}. . . . .	125
3.127	Responses of DELETE organization/{id}. . . . .	125
3.128	Parameters of PATCH organization/{id}. . . . .	126
3.129	Request Body of PATCH organization/{id}. . . . .	126
3.130	Responses of PATCH organization/{id}. . . . .	127
3.131	Parameters of GET performanceJob. . . . .	128
3.132	Responses of GET performanceJob. . . . .	129
3.133	Request Body of POST performanceJob. . . . .	130
3.134	Responses of POST performanceJob. . . . .	130
3.135	Parameters of GET performanceJob/{id}. . . . .	131
3.136	Responses of GET performanceJob/{id}. . . . .	131
3.137	Request Body of POST performanceJobComplexQuery. . . . .	132
3.138	Responses of POST performanceJobComplexQuery. . . . .	132
3.139	Parameters of GET performanceReport. . . . .	134
3.140	Responses of GET performanceReport. . . . .	134
3.141	Request Body of POST performanceReport. . . . .	135
3.142	Responses of POST performanceReport. . . . .	135
3.143	Parameters of GET performanceReport/{id}. . . . .	136
3.144	Responses of GET performanceReport/{id}. . . . .	136
3.145	Request Body of POST performanceReportComplexQuery. . . . .	137
3.146	Responses of POST performanceReportComplexQuery. . . . .	137
3.147	Parameters of GET product. . . . .	138
3.148	Responses of GET product. . . . .	138
3.149	Parameters of POST product. . . . .	139
3.150	Request Body of POST product. . . . .	139
3.151	Responses of POST product. . . . .	139
3.152	Parameters of GET product/{id}. . . . .	140
3.153	Responses of GET product/{id}. . . . .	140
3.154	Parameters of DELETE product/{id}. . . . .	141
3.155	Responses of DELETE product/{id}. . . . .	141
3.156	Parameters of PATCH product/{id}. . . . .	142
3.157	Request Body of PATCH product/{id}. . . . .	142
3.158	Responses of PATCH product/{id}. . . . .	143
3.159	Parameters of GET productOffering. . . . .	144
3.160	Responses of GET productOffering. . . . .	144
3.161	Parameters of POST productOffering. . . . .	145
3.162	Request Body of POST productOffering. . . . .	145
3.163	Responses of POST productOffering. . . . .	145
3.164	Parameters of GET productOffering/{id}. . . . .	146
3.165	Responses of GET productOffering/{id}. . . . .	146



3.166	Parameters of DELETE productOffering/{id}. . . . .	147
3.167	Responses of DELETE productOffering/{id}. . . . .	147
3.168	Parameters of PATCH productOffering/{id}. . . . .	148
3.169	Request Body of PATCH productOffering/{id}. . . . .	148
3.170	Responses of PATCH productOffering/{id}. . . . .	149
3.171	Parameters of GET productOrder. . . . .	150
3.172	Responses of GET productOrder. . . . .	150
3.173	Parameters of POST productOrder. . . . .	151
3.174	Request Body of POST productOrder. . . . .	151
3.175	Responses of POST productOrder. . . . .	151
3.176	Parameters of GET productOrder/{id}. . . . .	152
3.177	Responses of GET productOrder/{id}. . . . .	152
3.178	Parameters of DELETE productOrder/{id}. . . . .	153
3.179	Responses of DELETE productOrder/{id}. . . . .	153
3.180	Parameters of PATCH productOrder/{id}. . . . .	154
3.181	Request Body of PATCH productOrder/{id}. . . . .	154
3.182	Responses of PATCH productOrder/{id}. . . . .	155
3.183	Parameters of GET productSpecification. . . . .	156
3.184	Responses of GET productSpecification. . . . .	156
3.185	Parameters of POST productSpecification. . . . .	157
3.186	Request Body of POST productSpecification. . . . .	157
3.187	Responses of POST productSpecification. . . . .	157
3.188	Parameters of GET productSpecification/{id}. . . . .	158
3.189	Responses of GET productSpecification/{id}. . . . .	158
3.190	Parameters of DELETE productSpecification/{id}. . . . .	159
3.191	Responses of DELETE productSpecification/{id}. . . . .	159
3.192	Parameters of PATCH productSpecification/{id}. . . . .	160
3.193	Request Body of PATCH productSpecification/{id}. . . . .	160
3.194	Responses of PATCH productSpecification/{id}. . . . .	161
3.195	Parameters of GET productTemplate. . . . .	162
3.196	Responses of GET productTemplate. . . . .	162
3.197	Parameters of POST productTemplate. . . . .	163
3.198	Request Body of POST productTemplate. . . . .	163
3.199	Responses of POST productTemplate. . . . .	163
3.200	Parameters of GET productTemplate/{id}. . . . .	164
3.201	Responses of GET productTemplate/{id}. . . . .	164
3.202	Parameters of DELETE productTemplate/{id}. . . . .	165
3.203	Responses of DELETE productTemplate/{id}. . . . .	165
3.204	Parameters of PATCH productTemplate/{id}. . . . .	166
3.205	Request Body of PATCH productTemplate/{id}. . . . .	166
3.206	Responses of PATCH productTemplate/{id}. . . . .	167
3.207	Parameters of GET resource. . . . .	168
3.208	Responses of GET resource. . . . .	169
3.209	Parameters of POST resource. . . . .	170
3.210	Request Body of POST resource. . . . .	170
3.211	Responses of POST resource. . . . .	170
3.212	Parameters of GET resource/{id}. . . . .	171
3.213	Responses of GET resource/{id}. . . . .	171
3.214	Parameters of DELETE resource/{id}. . . . .	172

3.215	Responses of DELETE resource/{id}. . . . .	172
3.216	Parameters of PATCH resource/{id}. . . . .	173
3.217	Request Body of PATCH resource/{id}. . . . .	173
3.218	Responses of PATCH resource/{id}. . . . .	174
3.219	Parameters of GET resourceSpecification. . . . .	175
3.220	Responses of GET resourceSpecification. . . . .	175
3.221	Parameters of POST resourceSpecification. . . . .	176
3.222	Request Body of POST resourceSpecification. . . . .	176
3.223	Responses of POST resourceSpecification. . . . .	176
3.224	Parameters of GET resourceSpecification/{id}. . . . .	177
3.225	Responses of GET resourceSpecification/{id}. . . . .	177
3.226	Parameters of DELETE resourceSpecification/{id}. . . . .	178
3.227	Responses of DELETE resourceSpecification/{id}. . . . .	178
3.228	Parameters of PATCH resourceSpecification/{id}. . . . .	179
3.229	Request Body of PATCH resourceSpecification/{id}. . . . .	179
3.230	Responses of PATCH resourceSpecification/{id}. . . . .	180
3.231	Parameters of GET resourceTemplate. . . . .	181
3.232	Responses of GET resourceTemplate. . . . .	181
3.233	Parameters of POST resourceTemplate. . . . .	182
3.234	Request Body of POST resourceTemplate. . . . .	182
3.235	Responses of POST resourceTemplate. . . . .	182
3.236	Parameters of GET resourceTemplate/{id}. . . . .	183
3.237	Responses of GET resourceTemplate/{id}. . . . .	183
3.238	Parameters of DELETE resourceTemplate/{id}. . . . .	184
3.239	Responses of DELETE resourceTemplate/{id}. . . . .	184
3.240	Parameters of PATCH resourceTemplate/{id}. . . . .	185
3.241	Request Body of PATCH resourceTemplate/{id}. . . . .	185
3.242	Responses of PATCH resourceTemplate/{id}. . . . .	186
3.243	Parameters of GET resumePerformanceJob. . . . .	187
3.244	Responses of GET resumePerformanceJob. . . . .	188
3.245	Request Body of POST resumePerformanceJob. . . . .	189
3.246	Responses of POST resumePerformanceJob. . . . .	189
3.247	Parameters of GET resumePerformanceJob/{id}. . . . .	190
3.248	Responses of GET resumePerformanceJob/{id}. . . . .	190
3.249	Parameters of GET service. . . . .	191
3.250	Responses of GET service. . . . .	191
3.251	Parameters of POST service. . . . .	192
3.252	Request Body of POST service. . . . .	192
3.253	Responses of POST service. . . . .	192
3.254	Parameters of GET service/{id}. . . . .	193
3.255	Responses of GET service/{id}. . . . .	193
3.256	Parameters of DELETE service/{id}. . . . .	194
3.257	Responses of DELETE service/{id}. . . . .	194
3.258	Parameters of PATCH service/{id}. . . . .	195
3.259	Request Body of PATCH service/{id}. . . . .	195
3.260	Responses of PATCH service/{id}. . . . .	196
3.261	Parameters of GET serviceLevelObjective. . . . .	197
3.262	Responses of GET serviceLevelObjective. . . . .	197
3.263	Request Body of POST serviceLevelObjective. . . . .	198

3.264	Responses of POST serviceLevelObjective. . . . .	198
3.265	Parameters of GET serviceLevelObjective/{id}. . . . .	199
3.266	Responses of GET serviceLevelObjective/{id}. . . . .	199
3.267	Parameters of DELETE serviceLevelObjective/{id}. . . . .	200
3.268	Responses of DELETE serviceLevelObjective/{id}. . . . .	200
3.269	Parameters of PATCH serviceLevelObjective/{id}. . . . .	201
3.270	Request Body of PATCH serviceLevelObjective/{id}. . . . .	201
3.271	Responses of PATCH serviceLevelObjective/{id}. . . . .	201
3.272	Parameters of GET serviceLevelSpecification. . . . .	202
3.273	Responses of GET serviceLevelSpecification. . . . .	202
3.274	Request Body of POST serviceLevelSpecification. . . . .	203
3.275	Responses of POST serviceLevelSpecification. . . . .	203
3.276	Parameters of GET serviceLevelSpecification/{id}. . . . .	204
3.277	Responses of GET serviceLevelSpecification/{id}. . . . .	204
3.278	Parameters of DELETE serviceLevelSpecification/{id}. . . . .	205
3.279	Responses of DELETE serviceLevelSpecification/{id}. . . . .	205
3.280	Parameters of PATCH serviceLevelSpecification/{id}. . . . .	206
3.281	Request Body of PATCH serviceLevelSpecification/{id}. . . . .	206
3.282	Responses of PATCH serviceLevelSpecification/{id}. . . . .	206
3.283	Parameters of GET serviceSpecification. . . . .	207
3.284	Responses of GET serviceSpecification. . . . .	207
3.285	Parameters of POST serviceSpecification. . . . .	208
3.286	Request Body of POST serviceSpecification. . . . .	208
3.287	Responses of POST serviceSpecification. . . . .	208
3.288	Parameters of GET serviceSpecification/{id}. . . . .	209
3.289	Responses of GET serviceSpecification/{id}. . . . .	209
3.290	Parameters of DELETE serviceSpecification/{id}. . . . .	210
3.291	Responses of DELETE serviceSpecification/{id}. . . . .	210
3.292	Parameters of PATCH serviceSpecification/{id}. . . . .	211
3.293	Request Body of PATCH serviceSpecification/{id}. . . . .	211
3.294	Responses of PATCH serviceSpecification/{id}. . . . .	212
3.295	Parameters of GET serviceTemplate. . . . .	213
3.296	Responses of GET serviceTemplate. . . . .	213
3.297	Parameters of POST serviceTemplate. . . . .	214
3.298	Request Body of POST serviceTemplate. . . . .	214
3.299	Responses of POST serviceTemplate. . . . .	214
3.300	Parameters of GET serviceTemplate/{id}. . . . .	215
3.301	Responses of GET serviceTemplate/{id}. . . . .	215
3.302	Parameters of DELETE serviceTemplate/{id}. . . . .	216
3.303	Responses of DELETE serviceTemplate/{id}. . . . .	216
3.304	Parameters of PATCH serviceTemplate/{id}. . . . .	217
3.305	Request Body of PATCH serviceTemplate/{id}. . . . .	217
3.306	Responses of PATCH serviceTemplate/{id}. . . . .	218
3.307	Parameters of GET suspendPerformanceJob. . . . .	219
3.308	Responses of GET suspendPerformanceJob. . . . .	220
3.309	Request Body of POST suspendPerformanceJob. . . . .	221
3.310	Responses of POST suspendPerformanceJob. . . . .	221
3.311	Parameters of GET suspendPerformanceJob/{id}. . . . .	222
3.312	Responses of GET suspendPerformanceJob/{id}. . . . .	222

3.313	Parameters of GET topic. . . . .	223
3.314	Responses of GET topic. . . . .	223
3.315	Parameters of GET troubleTicket. . . . .	224
3.316	Responses of GET troubleTicket. . . . .	224
3.317	Parameters of POST troubleTicket. . . . .	225
3.318	Request Body of POST troubleTicket. . . . .	225
3.319	Responses of POST troubleTicket. . . . .	225
3.320	Parameters of GET troubleTicket/{id}. . . . .	226
3.321	Responses of GET troubleTicket/{id}. . . . .	226
3.322	Parameters of DELETE troubleTicket/{id}. . . . .	227
3.323	Responses of DELETE troubleTicket/{id}. . . . .	227
3.324	Parameters of PATCH troubleTicket/{id}. . . . .	228
3.325	Request Body of PATCH troubleTicket/{id}. . . . .	228
3.326	Responses of PATCH troubleTicket/{id}. . . . .	229
3.327	Parameters of GET troubleTicketSpecification. . . . .	230
3.328	Responses of GET troubleTicketSpecification. . . . .	230
3.329	Parameters of POST troubleTicketSpecification. . . . .	231
3.330	Request Body of POST troubleTicketSpecification. . . . .	231
3.331	Responses of POST troubleTicketSpecification. . . . .	231
3.332	Parameters of GET troubleTicketSpecification/{id}. . . . .	232
3.333	Responses of GET troubleTicketSpecification/{id}. . . . .	232
3.334	Parameters of DELETE troubleTicketSpecification/{id}. . . . .	233
3.335	Responses of DELETE troubleTicketSpecification/{id}. . . . .	233
3.336	Parameters of PATCH troubleTicketSpecification/{id}. . . . .	234
3.337	Request Body of PATCH troubleTicketSpecification/{id}. . . . .	234
3.338	Responses of PATCH troubleTicketSpecification/{id}. . . . .	235
4.1	Fields of AccountRef. . . . .	236
4.2	Fields of AccountRef_FVO. . . . .	237
4.3	Fields of AccountRef_MVO. . . . .	238
4.4	Fields of Addressable. . . . .	239
4.5	Fields of Addressable_FVO. . . . .	240
4.6	Fields of AgreementItemRef. . . . .	241
4.7	Fields of AgreementItemRef_FVO. . . . .	242
4.8	Fields of AgreementItemRef_MVO. . . . .	243
4.9	Fields of AgreementRef. . . . .	244
4.10	Fields of AgreementRef_FVO. . . . .	245
4.11	Fields of AgreementRef_MVO. . . . .	246
4.12	Fields of Alarm. . . . .	248
4.13	Fields of AlarmRef. . . . .	249
4.14	Fields of AlarmType. . . . .	250
4.15	Fields of AlarmedObjectRef. . . . .	251
4.16	Fields of AllowedProductAction. . . . .	252
4.17	Fields of AllowedProductAction_FVO. . . . .	253
4.18	Fields of AllowedProductAction_MVO. . . . .	254
4.19	Fields of AlternateProductStock. . . . .	255
4.20	Fields of ApplicableTimePeriod. . . . .	256
4.21	Fields of AppliedPayment. . . . .	257
4.22	Fields of AppointmentRef. . . . .	258
4.23	Fields of AppointmentRef_FVO. . . . .	259

4.24	Fields of AppointmentRef_MVO. . . . .	260
4.25	Fields of AssociationSpecificationRef. . . . .	261
4.26	Fields of AssociationSpecificationRef_FVO. . . . .	262
4.27	Fields of AssociationSpecificationRef_MVO. . . . .	263
4.28	Fields of Attachment. . . . .	264
4.29	Fields of AttachmentOrDocumentRef. . . . .	265
4.30	Fields of AttachmentURL. . . . .	266
4.31	Fields of Attachment_FVO. . . . .	267
4.32	Fields of Attachment_MVO. . . . .	268
4.33	Fields of AvailabilityResultType. . . . .	269
4.34	Fields of BillCycleRef. . . . .	270
4.35	Fields of BillingAccountRef. . . . .	271
4.36	Fields of BillingAccountRef_FVO. . . . .	272
4.37	Fields of BillingAccountRef_MVO. . . . .	273
4.38	Fields of BooleanArrayCharacteristic. . . . .	274
4.39	Fields of BooleanArrayCharacteristic_FVO. . . . .	275
4.40	Fields of BooleanArrayCharacteristic_MVO. . . . .	276
4.41	Fields of BooleanCharacteristic. . . . .	277
4.42	Fields of BooleanCharacteristic_FVO. . . . .	278
4.43	Fields of BooleanCharacteristic_MVO. . . . .	279
4.44	Fields of BundledGroupProductOffering. . . . .	280
4.45	Fields of BundledGroupProductOfferingOption. . . . .	281
4.46	Fields of BundledProductOffering. . . . .	282
4.47	Fields of BundledProductOfferingOption. . . . .	283
4.48	Fields of BundledProductOfferingOption_FVO. . . . .	284
4.49	Fields of BundledProductOfferingOption_MVO. . . . .	285
4.50	Fields of BundledProductOfferingPriceRelationship. . . . .	286
4.51	Fields of BundledProductOffering_FVO. . . . .	287
4.52	Fields of BundledProductOffering_MVO. . . . .	288
4.53	Fields of BundledProductSpecification. . . . .	289
4.54	Fields of BundledProductSpecification_FVO. . . . .	290
4.55	Fields of BundledProductSpecification_MVO. . . . .	291
4.56	Fields of BusinessPartner. . . . .	292
4.57	Fields of BusinessPartner_FVO. . . . .	293
4.58	Fields of BusinessPartner_MVO. . . . .	294
4.59	Fields of CalendarPeriod. . . . .	295
4.60	Fields of CalendarPeriod_FVO. . . . .	296
4.61	Fields of CalendarPeriod_MVO. . . . .	297
4.62	Fields of CancelPerformanceJob. . . . .	298
4.63	Fields of CancelPerformanceJob_Common. . . . .	299
4.64	Fields of CancelPerformanceJob_Create. . . . .	300
4.65	Fields of CancelPerformanceJob_Find. . . . .	301
4.66	Fields of CategoryRef. . . . .	302
4.67	Fields of CategoryRef_FVO. . . . .	303
4.68	Fields of CategoryRef_MVO. . . . .	304
4.69	Fields of ChannelRef. . . . .	305
4.70	Fields of ChannelRef_FVO. . . . .	306
4.71	Fields of ChannelRef_MVO. . . . .	307
4.72	Fields of Characteristic. . . . .	308

4.73	Fields of CharacteristicRelationship. . . . .	309
4.74	Fields of CharacteristicRelationship_FVO. . . . .	310
4.75	Fields of CharacteristicRelationship_MVO. . . . .	311
4.76	Fields of CharacteristicSpecification. . . . .	312
4.77	Fields of CharacteristicSpecificationRelationship. . . . .	313
4.78	Fields of CharacteristicSpecificationRelationship_FVO. . . . .	314
4.79	Fields of CharacteristicSpecificationRelationship_MVO. . . . .	315
4.80	Fields of CharacteristicSpecification_FVO. . . . .	316
4.81	Fields of CharacteristicSpecification_MVO. . . . .	317
4.82	Fields of CharacteristicValuePrecedence. . . . .	318
4.83	Fields of CharacteristicValueSpecification. . . . .	319
4.84	Fields of CharacteristicValueSpecification_FVO. . . . .	320
4.85	Fields of CharacteristicValueSpecification_MVO. . . . .	321
4.86	Fields of Characteristic_FVO. . . . .	322
4.87	Fields of Characteristic_MVO. . . . .	323
4.88	Fields of CheckProductStock. . . . .	324
4.89	Fields of CheckProductStockItem. . . . .	325
4.90	Fields of CheckProductStock_Create. . . . .	326
4.91	Fields of Comment. . . . .	327
4.92	Fields of ConnectionPointSpecificationRef. . . . .	328
4.93	Fields of ConnectionSpecification. . . . .	329
4.94	Fields of ConstraintRef. . . . .	330
4.95	Fields of ConstraintRef_FVO. . . . .	331
4.96	Fields of ConstraintRef_MVO. . . . .	332
4.97	Fields of Consumer. . . . .	333
4.98	Fields of Consumer_FVO. . . . .	334
4.99	Fields of Consumer_MVO. . . . .	335
4.100	Fields of ContactMedium. . . . .	336
4.101	Fields of ContactMedium_FVO. . . . .	337
4.102	Fields of ContactMedium_MVO. . . . .	338
4.103	Fields of CreditProfile. . . . .	339
4.104	Fields of CreditProfile_FVO. . . . .	340
4.105	Fields of CreditProfile_MVO. . . . .	341
4.106	Fields of CrossedThresholdInformation. . . . .	342
4.107	Fields of CustomerBill. . . . .	343
4.108	Fields of CustomerBillRunType. . . . .	344
4.109	Fields of CustomerBillStateType. . . . .	345
4.110	Fields of CustomerBill_FVO. . . . .	346
4.111	Fields of CustomerBill_MVO. . . . .	347
4.112	Fields of CustomerCharacteristic. . . . .	348
4.113	Fields of CustomerInquiry. . . . .	349
4.114	Fields of CustomerInquiry_FVO. . . . .	350
4.115	Fields of CustomerInquiry_MVO. . . . .	351
4.116	Fields of Disability. . . . .	352
4.117	Fields of Document. . . . .	353
4.118	Fields of DocumentRef. . . . .	354
4.119	Fields of DocumentRefOrValue. . . . .	355
4.120	Fields of DocumentRefOrValue_FVO. . . . .	356
4.121	Fields of DocumentRefOrValue_MVO. . . . .	357



4.122	Fields of DocumentRef_FVO. . . . .	358
4.123	Fields of DocumentRef_MVO. . . . .	359
4.124	Fields of Document_FVO. . . . .	360
4.125	Fields of Document_MVO. . . . .	361
4.126	Fields of Duration. . . . .	362
4.127	Fields of EmailContactMedium. . . . .	363
4.128	Fields of EmailContactMedium_FVO. . . . .	364
4.129	Fields of EmailContactMedium_MVO. . . . .	365
4.130	Fields of EndpointSpecificationRef. . . . .	366
4.131	Fields of Entity. . . . .	367
4.132	Fields of EntityRef. . . . .	368
4.133	Fields of EntityRef_FVO. . . . .	369
4.134	Fields of EntityRef_MVO. . . . .	370
4.135	Fields of EntityRelationship. . . . .	371
4.136	Fields of EntityRelationship_FVO. . . . .	372
4.137	Fields of EntityRelationship_MVO. . . . .	373
4.138	Fields of EntitySpecification. . . . .	374
4.139	Fields of EntitySpecificationRelationship. . . . .	375
4.140	Fields of EntitySpecificationRelationship_FVO. . . . .	376
4.141	Fields of EntitySpecificationRelationship_MVO. . . . .	377
4.142	Fields of EntitySpecification_FVO. . . . .	378
4.143	Fields of EntitySpecification_MVO. . . . .	379
4.144	Fields of Entity_FVO. . . . .	380
4.145	Fields of Entity_MVO. . . . .	381
4.146	Fields of Error. . . . .	382
4.147	Fields of Error400. . . . .	383
4.148	Fields of Error401. . . . .	384
4.149	Fields of Error403. . . . .	385
4.150	Fields of Error404. . . . .	386
4.151	Fields of Error422. . . . .	387
4.152	Fields of Error500. . . . .	388
4.153	Fields of Error501. . . . .	389
4.154	Fields of ErrorMessage. . . . .	390
4.155	Fields of ErrorMessage_FVO. . . . .	391
4.156	Fields of ErrorMessage_MVO. . . . .	392
4.157	Fields of Event. . . . .	393
4.158	Fields of Event_Create. . . . .	394
4.159	Fields of Expression. . . . .	395
4.160	Fields of ExpressionLanguageEnum. . . . .	396
4.161	Fields of Expression_FVO. . . . .	397
4.162	Fields of Expression_MVO. . . . .	398
4.163	Fields of Extensible. . . . .	399
4.164	Fields of Extensible_FVO. . . . .	400
4.165	Fields of ExternalIdentifier. . . . .	401
4.166	Fields of ExternalIdentifier_FVO. . . . .	402
4.167	Fields of ExternalIdentifier_MVO. . . . .	403
4.168	Fields of FaxContactMedium. . . . .	404
4.169	Fields of FaxContactMedium_FVO. . . . .	405
4.170	Fields of FaxContactMedium_MVO. . . . .	406

4.171	Fields of Feature. . . . .	407
4.172	Fields of FeatureRelationship. . . . .	408
4.173	Fields of FeatureRelationship_FVO. . . . .	409
4.174	Fields of FeatureRelationship_MVO. . . . .	410
4.175	Fields of FeatureSpecification. . . . .	411
4.176	Fields of FeatureSpecificationRelationship. . . . .	412
4.177	Fields of FeatureSpecificationRelationship_FVO. . . . .	413
4.178	Fields of FeatureSpecificationRelationship_MVO. . . . .	414
4.179	Fields of FeatureSpecification_FVO. . . . .	415
4.180	Fields of FeatureSpecification_MVO. . . . .	416
4.181	Fields of Feature_FVO. . . . .	417
4.182	Fields of Feature_MVO. . . . .	418
4.183	Fields of FileTransferData. . . . .	419
4.184	Fields of FinancialAccountRef. . . . .	420
4.185	Fields of FloatArrayCharacteristic. . . . .	421
4.186	Fields of FloatArrayCharacteristic_FVO. . . . .	422
4.187	Fields of FloatArrayCharacteristic_MVO. . . . .	423
4.188	Fields of FloatCharacteristic. . . . .	424
4.189	Fields of FloatCharacteristic_FVO. . . . .	425
4.190	Fields of FloatCharacteristic_MVO. . . . .	426
4.191	Fields of GeographicAddress. . . . .	427
4.192	Fields of GeographicAddressContactMedium. . . . .	428
4.193	Fields of GeographicAddressContactMedium_FVO. . . . .	429
4.194	Fields of GeographicAddressContactMedium_MVO. . . . .	430
4.195	Fields of GeographicAddressRef. . . . .	431
4.196	Fields of GeographicAddressRef_FVO. . . . .	432
4.197	Fields of GeographicAddressRef_MVO. . . . .	433
4.198	Fields of GeographicAddress_FVO. . . . .	434
4.199	Fields of GeographicAddress_MVO. . . . .	435
4.200	Fields of GeographicLocation. . . . .	436
4.201	Fields of GeographicLocationRef. . . . .	437
4.202	Fields of GeographicLocationRefOrValue. . . . .	438
4.203	Fields of GeographicLocationRefOrValue_FVO. . . . .	439
4.204	Fields of GeographicLocationRefOrValue_MVO. . . . .	440
4.205	Fields of GeographicLocationRef_FVO. . . . .	441
4.206	Fields of GeographicLocationRef_MVO. . . . .	442
4.207	Fields of GeographicLocation_FVO. . . . .	443
4.208	Fields of GeographicLocation_MVO. . . . .	444
4.209	Fields of GeographicSite. . . . .	445
4.210	Fields of GeographicSiteRelationship. . . . .	446
4.211	Fields of GeographicSiteRelationship_FVO. . . . .	447
4.212	Fields of GeographicSiteRelationship_MVO. . . . .	448
4.213	Fields of GeographicSite_FVO. . . . .	449
4.214	Fields of GeographicSite_MVO. . . . .	450
4.215	Fields of GeographicSubAddress. . . . .	451
4.216	Fields of GeographicSubAddressUnit. . . . .	452
4.217	Fields of GeographicSubAddressUnit_FVO. . . . .	453
4.218	Fields of GeographicSubAddressUnit_MVO. . . . .	454
4.219	Fields of GeographicSubAddress_FVO. . . . .	455



4.220	Fields of GeographicSubAddress_MVO. . . . .	456
4.221	Fields of Geometry. . . . .	457
4.222	Fields of HourPeriod. . . . .	458
4.223	Fields of HourPeriod_FVO. . . . .	459
4.224	Fields of HourPeriod_MVO. . . . .	460
4.225	Fields of HourRange. . . . .	461
4.226	Fields of HubSubscription. . . . .	462
4.227	Fields of HubSubscription_Create. . . . .	463
4.228	Fields of Individual. . . . .	465
4.229	Fields of IndividualIdentification. . . . .	466
4.230	Fields of IndividualIdentification_FVO. . . . .	467
4.231	Fields of IndividualIdentification_MVO. . . . .	468
4.232	Fields of IndividualStateType. . . . .	469
4.233	Fields of Individual_FVO. . . . .	471
4.234	Fields of Individual_MVO. . . . .	473
4.235	Fields of InitialProductOrderStateType. . . . .	474
4.236	Fields of InquiredCharacteristicValueSpecification. . . . .	475
4.237	Fields of InquiredProduct. . . . .	476
4.238	Fields of InquiredProductCharacteristic. . . . .	477
4.239	Fields of InquiredProductRef. . . . .	478
4.240	Fields of InquiredProductRelationship. . . . .	479
4.241	Fields of InquiredProvider. . . . .	480
4.242	Fields of InquiryResult. . . . .	481
4.243	Fields of InquiryStateType. . . . .	482
4.244	Fields of IntegerArrayCharacteristic. . . . .	483
4.245	Fields of IntegerArrayCharacteristicValueSpecification. . . . .	484
4.246	Fields of IntegerArrayCharacteristicValueSpecification_FVO. . . . .	485
4.247	Fields of IntegerArrayCharacteristicValueSpecification_MVO. . . . .	486
4.248	Fields of IntegerArrayCharacteristic_FVO. . . . .	487
4.249	Fields of IntegerArrayCharacteristic_MVO. . . . .	488
4.250	Fields of IntegerCharacteristic. . . . .	489
4.251	Fields of IntegerCharacteristicValueSpecification. . . . .	490
4.252	Fields of IntegerCharacteristicValueSpecification_FVO. . . . .	491
4.253	Fields of IntegerCharacteristicValueSpecification_MVO. . . . .	492
4.254	Fields of IntegerCharacteristic_FVO. . . . .	493
4.255	Fields of IntegerCharacteristic_MVO. . . . .	494
4.256	Fields of Intent. . . . .	495
4.257	Fields of IntentRef. . . . .	496
4.258	Fields of IntentRefOrValue. . . . .	497
4.259	Fields of IntentRefOrValue_FVO. . . . .	498
4.260	Fields of IntentRefOrValue_MVO. . . . .	499
4.261	Fields of IntentRef_FVO. . . . .	500
4.262	Fields of IntentRef_MVO. . . . .	501
4.263	Fields of IntentSpecificationRef. . . . .	502
4.264	Fields of IntentSpecificationRef_FVO. . . . .	503
4.265	Fields of IntentSpecificationRef_MVO. . . . .	504
4.266	Fields of Intent_FVO. . . . .	505
4.267	Fields of Intent_MVO. . . . .	506
4.268	Fields of Interval. . . . .	507

4.269	Fields of ItemActionType. . . . .	508
4.270	Fields of JeopardyAlert. . . . .	509
4.271	Fields of JeopardyAlert_FVO. . . . .	510
4.272	Fields of JeopardyAlert_MVO. . . . .	511
4.273	Fields of JobType. . . . .	512
4.274	Fields of JsonPatch. . . . .	513
4.275	Fields of JsonPatchOperations. . . . .	514
4.276	Fields of KeyIndicator. . . . .	515
4.277	Fields of KeyIndicatorRelationship. . . . .	516
4.278	Fields of KeyIndicator_Create. . . . .	517
4.279	Fields of KeyIndicator_Update. . . . .	518
4.280	Fields of LanguageAbility. . . . .	519
4.281	Fields of LineString. . . . .	520
4.282	Fields of LogicalResource. . . . .	522
4.283	Fields of LogicalResourceSpecification. . . . .	523
4.284	Fields of LogicalResource_FVO. . . . .	525
4.285	Fields of LogicalResource_MVO. . . . .	527
4.286	Fields of MapArrayCharacteristicValueSpecification. . . . .	528
4.287	Fields of MapArrayCharacteristicValueSpecification_FVO. . . . .	529
4.288	Fields of MapArrayCharacteristicValueSpecification_MVO. . . . .	530
4.289	Fields of MapCharacteristicValueSpecification. . . . .	531
4.290	Fields of MapCharacteristicValueSpecification_FVO. . . . .	532
4.291	Fields of MapCharacteristicValueSpecification_MVO. . . . .	533
4.292	Fields of MarketSegmentRef. . . . .	534
4.293	Fields of MarketSegmentRef_FVO. . . . .	535
4.294	Fields of MarketSegmentRef_MVO. . . . .	536
4.295	Fields of MeasurementTime. . . . .	537
4.296	Fields of Milestone. . . . .	538
4.297	Fields of Milestone_FVO. . . . .	539
4.298	Fields of Milestone_MVO. . . . .	540
4.299	Fields of Mission. . . . .	541
4.300	Fields of MissionAsset. . . . .	542
4.301	Fields of MissionAssetRelationship. . . . .	543
4.302	Fields of MissionRelationship. . . . .	544
4.303	Fields of MissionStatusType. . . . .	545
4.304	Fields of Mission_FVO. . . . .	546
4.305	Fields of Mission_MVO. . . . .	547
4.306	Fields of ModifyPerformanceJob. . . . .	548
4.307	Fields of ModifyPerformanceJob_Common. . . . .	549
4.308	Fields of ModifyPerformanceJob_Create. . . . .	550
4.309	Fields of ModifyPerformanceJob_Find. . . . .	551
4.310	Fields of ModifyPerformanceJob_ProfileValue. . . . .	552
4.311	Fields of Money. . . . .	553
4.312	Fields of MonthlyScheduleDayOfWeekDefinition. . . . .	554
4.313	Fields of MultiLineString. . . . .	555
4.314	Fields of MultiPoint. . . . .	556
4.315	Fields of MultiPolygon. . . . .	557
4.316	Fields of Note. . . . .	558
4.317	Fields of Note_FVO. . . . .	559

4.318	Fields of Note_MVO. . . . .	560
4.319	Fields of NumberArrayCharacteristic. . . . .	561
4.320	Fields of NumberArrayCharacteristicValueSpecification. . . . .	562
4.321	Fields of NumberArrayCharacteristicValueSpecification_FVO. . . . .	563
4.322	Fields of NumberArrayCharacteristicValueSpecification_MVO. . . . .	564
4.323	Fields of NumberArrayCharacteristic_FVO. . . . .	565
4.324	Fields of NumberArrayCharacteristic_MVO. . . . .	566
4.325	Fields of NumberCharacteristic. . . . .	567
4.326	Fields of NumberCharacteristicValueSpecification. . . . .	568
4.327	Fields of NumberCharacteristicValueSpecification_FVO. . . . .	569
4.328	Fields of NumberCharacteristicValueSpecification_MVO. . . . .	570
4.329	Fields of NumberCharacteristic_FVO. . . . .	571
4.330	Fields of NumberCharacteristic_MVO. . . . .	572
4.331	Fields of ObjectArrayCharacteristic. . . . .	573
4.332	Fields of ObjectArrayCharacteristicValueSpecification. . . . .	574
4.333	Fields of ObjectArrayCharacteristicValueSpecification_FVO. . . . .	575
4.334	Fields of ObjectArrayCharacteristicValueSpecification_MVO. . . . .	576
4.335	Fields of ObjectArrayCharacteristic_FVO. . . . .	577
4.336	Fields of ObjectArrayCharacteristic_MVO. . . . .	578
4.337	Fields of ObjectCharacteristic. . . . .	579
4.338	Fields of ObjectCharacteristicValueSpecification. . . . .	580
4.339	Fields of ObjectCharacteristicValueSpecification_FVO. . . . .	581
4.340	Fields of ObjectCharacteristicValueSpecification_MVO. . . . .	582
4.341	Fields of ObjectCharacteristic_FVO. . . . .	583
4.342	Fields of ObjectCharacteristic_MVO. . . . .	584
4.343	Fields of OrderItemType. . . . .	585
4.344	Fields of OrderItemRelationship. . . . .	586
4.345	Fields of OrderItemRelationship_FVO. . . . .	587
4.346	Fields of OrderItemRelationship_MVO. . . . .	588
4.347	Fields of OrderPrice. . . . .	589
4.348	Fields of OrderPrice_FVO. . . . .	590
4.349	Fields of OrderPrice_MVO. . . . .	591
4.350	Fields of OrderRelationship. . . . .	592
4.351	Fields of OrderRelationship_FVO. . . . .	593
4.352	Fields of OrderRelationship_MVO. . . . .	594
4.353	Fields of OrderTerm. . . . .	595
4.354	Fields of OrderTerm_FVO. . . . .	596
4.355	Fields of OrderTerm_MVO. . . . .	597
4.356	Fields of Organization. . . . .	598
4.357	Fields of OrganizationChildRelationship. . . . .	599
4.358	Fields of OrganizationChildRelationship_FVO. . . . .	600
4.359	Fields of OrganizationChildRelationship_MVO. . . . .	601
4.360	Fields of OrganizationIdentification. . . . .	602
4.361	Fields of OrganizationIdentification_FVO. . . . .	603
4.362	Fields of OrganizationIdentification_MVO. . . . .	604
4.363	Fields of OrganizationParentRelationship. . . . .	605
4.364	Fields of OrganizationParentRelationship_FVO. . . . .	606
4.365	Fields of OrganizationParentRelationship_MVO. . . . .	607
4.366	Fields of OrganizationRef. . . . .	608

4.367	Fields of OrganizationRef_FVO. . . . .	609
4.368	Fields of OrganizationRef_MVO. . . . .	610
4.369	Fields of OrganizationStateType. . . . .	611
4.370	Fields of Organization_FVO. . . . .	612
4.371	Fields of Organization_MVO. . . . .	613
4.372	Fields of OtherNameIndividual. . . . .	614
4.373	Fields of OtherNameOrganization. . . . .	615
4.374	Fields of OtherNameOrganization_FVO. . . . .	616
4.375	Fields of OtherNameOrganization_MVO. . . . .	617
4.376	Fields of OutputFormat. . . . .	618
4.377	Fields of Party. . . . .	619
4.378	Fields of PartyCreditProfile. . . . .	620
4.379	Fields of PartyCreditProfile_FVO. . . . .	621
4.380	Fields of PartyCreditProfile_MVO. . . . .	622
4.381	Fields of PartyOrPartyRole. . . . .	623
4.382	Fields of PartyOrPartyRole_FVO. . . . .	624
4.383	Fields of PartyOrPartyRole_MVO. . . . .	625
4.384	Fields of PartyRef. . . . .	626
4.385	Fields of PartyRefOrPartyRoleRef. . . . .	627
4.386	Fields of PartyRefOrPartyRoleRef_FVO. . . . .	628
4.387	Fields of PartyRefOrPartyRoleRef_MVO. . . . .	629
4.388	Fields of PartyRef_FVO. . . . .	630
4.389	Fields of PartyRef_MVO. . . . .	631
4.390	Fields of PartyRole. . . . .	632
4.391	Fields of PartyRoleRef. . . . .	633
4.392	Fields of PartyRoleRef_FVO. . . . .	634
4.393	Fields of PartyRoleRef_MVO. . . . .	635
4.394	Fields of PartyRoleSpecificationRef. . . . .	636
4.395	Fields of PartyRoleSpecificationRef_FVO. . . . .	637
4.396	Fields of PartyRoleSpecificationRef_MVO. . . . .	638
4.397	Fields of PartyRole_FVO. . . . .	639
4.398	Fields of PartyRole_MVO. . . . .	640
4.399	Fields of Party_FVO. . . . .	641
4.400	Fields of Party_MVO. . . . .	642
4.401	Fields of PaymentMethodRef. . . . .	643
4.402	Fields of PaymentMethodRef_FVO. . . . .	644
4.403	Fields of PaymentMethodRef_MVO. . . . .	645
4.404	Fields of PaymentRef. . . . .	646
4.405	Fields of PaymentRef_FVO. . . . .	647
4.406	Fields of PaymentRef_MVO. . . . .	648
4.407	Fields of PerceivedSeverity. . . . .	649
4.408	Fields of PerformanceJob. . . . .	650
4.409	Fields of PerformanceJobComplexQuery. . . . .	651
4.410	Fields of PerformanceJobComplexQuery_Create. . . . .	652
4.411	Fields of PerformanceJobProcessStateType. . . . .	653
4.412	Fields of PerformanceJobRef. . . . .	654
4.413	Fields of PerformanceJobRefOrValue. . . . .	655
4.414	Fields of PerformanceJobStateType. . . . .	656
4.415	Fields of PerformanceJobValue. . . . .	657

4.416	Fields of PerformanceJob_Common.	658
4.417	Fields of PerformanceJob_Create.	659
4.418	Fields of PerformanceJob_Find.	660
4.419	Fields of PerformanceProfileRef.	661
4.420	Fields of PerformanceProfileRefOrValue.	662
4.421	Fields of PerformanceProfileValue.	663
4.422	Fields of PerformanceReport.	664
4.423	Fields of PerformanceReportComplexQuery.	665
4.424	Fields of PerformanceReportComplexQuery_Create.	666
4.425	Fields of PerformanceReportRef.	667
4.426	Fields of PerformanceReportStateType.	668
4.427	Fields of PerformanceReport_Common.	669
4.428	Fields of PerformanceReport_Create.	670
4.429	Fields of PerformanceReport_Find.	671
4.430	Fields of PhoneContactMedium.	672
4.431	Fields of PhoneContactMedium_FVO.	673
4.432	Fields of PhoneContactMedium_MVO.	674
4.433	Fields of PhysicalResource.	676
4.434	Fields of PhysicalResourceSpecification.	677
4.435	Fields of PhysicalResource_FVO.	679
4.436	Fields of PhysicalResource_MVO.	681
4.437	Fields of Place.	682
4.438	Fields of PlaceRef.	683
4.439	Fields of PlaceRefOrValue.	684
4.440	Fields of PlaceRefOrValue_FVO.	685
4.441	Fields of PlaceRefOrValue_MVO.	686
4.442	Fields of PlaceRef_FVO.	687
4.443	Fields of PlaceRef_MVO.	688
4.444	Fields of Place_FVO.	689
4.445	Fields of Place_MVO.	690
4.446	Fields of Point.	691
4.447	Fields of Point2D.	692
4.448	Fields of PolicyRef.	693
4.449	Fields of PolicyRef_FVO.	694
4.450	Fields of PolicyRef_MVO.	695
4.451	Fields of Polygon.	696
4.452	Fields of Price.	697
4.453	Fields of PriceAlteration.	698
4.454	Fields of PriceAlteration_FVO.	699
4.455	Fields of PriceAlteration_MVO.	700
4.456	Fields of Price_FVO.	701
4.457	Fields of Price_MVO.	702
4.458	Fields of PricingLogicAlgorithm.	703
4.459	Fields of Producer.	704
4.460	Fields of Producer_FVO.	705
4.461	Fields of Producer_MVO.	706
4.462	Fields of Product.	707
4.463	Fields of ProductOffering.	709
4.464	Fields of ProductOfferingPrice.	710

4.465	Fields of ProductOfferingPriceRef. . . . .	711
4.466	Fields of ProductOfferingPriceRef_FVO. . . . .	712
4.467	Fields of ProductOfferingPriceRef_MVO. . . . .	713
4.468	Fields of ProductOfferingPriceRelationship. . . . .	714
4.469	Fields of ProductOfferingQualificationItemRef. . . . .	715
4.470	Fields of ProductOfferingQualificationItemRef_FVO. . . . .	716
4.471	Fields of ProductOfferingQualificationItemRef_MVO. . . . .	717
4.472	Fields of ProductOfferingQualificationRef. . . . .	718
4.473	Fields of ProductOfferingQualificationRef_FVO. . . . .	719
4.474	Fields of ProductOfferingQualificationRef_MVO. . . . .	720
4.475	Fields of ProductOfferingRef. . . . .	721
4.476	Fields of ProductOfferingRef_FVO. . . . .	722
4.477	Fields of ProductOfferingRef_MVO. . . . .	723
4.478	Fields of ProductOfferingRelationship. . . . .	724
4.479	Fields of ProductOfferingRelationship_FVO. . . . .	725
4.480	Fields of ProductOfferingRelationship_MVO. . . . .	726
4.481	Fields of ProductOfferingTerm. . . . .	727
4.482	Fields of ProductOfferingTerm_FVO. . . . .	728
4.483	Fields of ProductOfferingTerm_MVO. . . . .	729
4.484	Fields of ProductOffering_FVO. . . . .	731
4.485	Fields of ProductOffering_MVO. . . . .	733
4.486	Fields of ProductOrder. . . . .	735
4.487	Fields of ProductOrderErrorMessage. . . . .	736
4.488	Fields of ProductOrderErrorMessage_FVO. . . . .	737
4.489	Fields of ProductOrderErrorMessage_MVO. . . . .	738
4.490	Fields of ProductOrderItem. . . . .	739
4.491	Fields of ProductOrderItemRef. . . . .	740
4.492	Fields of ProductOrderItemRef_FVO. . . . .	741
4.493	Fields of ProductOrderItemRef_MVO. . . . .	742
4.494	Fields of ProductOrderItemStateType. . . . .	743
4.495	Fields of ProductOrderItem_FVO. . . . .	744
4.496	Fields of ProductOrderItem_MVO. . . . .	745
4.497	Fields of ProductOrderJeopardyAlert. . . . .	746
4.498	Fields of ProductOrderJeopardyAlert_FVO. . . . .	747
4.499	Fields of ProductOrderJeopardyAlert_MVO. . . . .	748
4.500	Fields of ProductOrderMilestone. . . . .	749
4.501	Fields of ProductOrderMilestone_FVO. . . . .	750
4.502	Fields of ProductOrderMilestone_MVO. . . . .	751
4.503	Fields of ProductOrderRef. . . . .	752
4.504	Fields of ProductOrderStateType. . . . .	753
4.505	Fields of ProductOrder_FVO. . . . .	754
4.506	Fields of ProductOrder_MVO. . . . .	756
4.507	Fields of ProductPrice. . . . .	757
4.508	Fields of ProductPrice_FVO. . . . .	758
4.509	Fields of ProductPrice_MVO. . . . .	759
4.510	Fields of ProductRef. . . . .	760
4.511	Fields of ProductRefOrValue. . . . .	761
4.512	Fields of ProductRefOrValue_FVO. . . . .	762
4.513	Fields of ProductRefOrValue_MVO. . . . .	763



4.514	Fields of ProductRef_FVO. . . . .	764
4.515	Fields of ProductRef_MVO. . . . .	765
4.516	Fields of ProductRelationship. . . . .	766
4.517	Fields of ProductRelationship_FVO. . . . .	767
4.518	Fields of ProductRelationship_MVO. . . . .	768
4.519	Fields of ProductSpecification. . . . .	769
4.520	Fields of ProductSpecificationCharacteristicValueUse. . . . .	770
4.521	Fields of ProductSpecificationCharacteristicValueUse_FVO. . . . .	771
4.522	Fields of ProductSpecificationCharacteristicValueUse_MVO. . . . .	772
4.523	Fields of ProductSpecificationRef. . . . .	773
4.524	Fields of ProductSpecificationRef_FVO. . . . .	774
4.525	Fields of ProductSpecificationRef_MVO. . . . .	775
4.526	Fields of ProductSpecificationRelationship. . . . .	776
4.527	Fields of ProductSpecificationRelationship_FVO. . . . .	777
4.528	Fields of ProductSpecificationRelationship_MVO. . . . .	778
4.529	Fields of ProductSpecification_FVO. . . . .	779
4.530	Fields of ProductSpecification_MVO. . . . .	780
4.531	Fields of ProductStatusType. . . . .	781
4.532	Fields of ProductStock. . . . .	782
4.533	Fields of ProductStockRef. . . . .	783
4.534	Fields of ProductStockRelationship. . . . .	784
4.535	Fields of ProductStockStatusType. . . . .	785
4.536	Fields of ProductStockUsageType. . . . .	786
4.537	Fields of ProductTerm. . . . .	787
4.538	Fields of ProductTerm_FVO. . . . .	788
4.539	Fields of ProductTerm_MVO. . . . .	789
4.540	Fields of Product_FVO. . . . .	790
4.541	Fields of Product_MVO. . . . .	791
4.542	Fields of Quantity. . . . .	792
4.543	Fields of QuoteItemRef. . . . .	793
4.544	Fields of QuoteItemRef_FVO. . . . .	794
4.545	Fields of QuoteItemRef_MVO. . . . .	795
4.546	Fields of QuoteRef. . . . .	796
4.547	Fields of QuoteRef_FVO. . . . .	797
4.548	Fields of QuoteRef_MVO. . . . .	798
4.549	Fields of RecurringFrequency. . . . .	799
4.550	Fields of RelatedChannel. . . . .	800
4.551	Fields of RelatedChannel_FVO. . . . .	801
4.552	Fields of RelatedChannel_MVO. . . . .	802
4.553	Fields of RelatedEntity. . . . .	803
4.554	Fields of RelatedEntity_FVO. . . . .	804
4.555	Fields of RelatedEntity_MVO. . . . .	805
4.556	Fields of RelatedOrderItem. . . . .	806
4.557	Fields of RelatedOrderItem_FVO. . . . .	807
4.558	Fields of RelatedOrderItem_MVO. . . . .	808
4.559	Fields of RelatedParty. . . . .	809
4.560	Fields of RelatedPartyOrPartyRole. . . . .	810
4.561	Fields of RelatedPartyOrPartyRole_FVO. . . . .	811
4.562	Fields of RelatedPartyOrPartyRole_MVO. . . . .	812

4.563	Fields of RelatedPartyRefOrPartyRoleRef. . . . .	813
4.564	Fields of RelatedPartyRefOrPartyRoleRef_FVO. . . . .	814
4.565	Fields of RelatedPartyRefOrPartyRoleRef_MVO. . . . .	815
4.566	Fields of RelatedPlaceRef. . . . .	816
4.567	Fields of RelatedPlaceRefOrValue. . . . .	817
4.568	Fields of RelatedPlaceRefOrValue_FVO. . . . .	818
4.569	Fields of RelatedPlaceRefOrValue_MVO. . . . .	819
4.570	Fields of RelatedPlaceRef_FVO. . . . .	820
4.571	Fields of RelatedPlaceRef_MVO. . . . .	821
4.572	Fields of RelatedResourceOrderItem. . . . .	822
4.573	Fields of RelatedResourceOrderItem_FVO. . . . .	823
4.574	Fields of RelatedResourceOrderItem_MVO. . . . .	824
4.575	Fields of RelatedServiceOrderItem. . . . .	825
4.576	Fields of RelatedServiceOrderItem_FVO. . . . .	826
4.577	Fields of RelatedServiceOrderItem_MVO. . . . .	827
4.578	Fields of RelationshipCharacteristic. . . . .	828
4.579	Fields of RelativeTimePeriod. . . . .	829
4.580	Fields of ReportContentItem. . . . .	830
4.581	Fields of ReportingTimeframe. . . . .	831
4.582	Fields of Resource. . . . .	833
4.583	Fields of ResourceAdministrativeStateType. . . . .	834
4.584	Fields of ResourceCandidateRef. . . . .	835
4.585	Fields of ResourceCandidateRef_FVO. . . . .	836
4.586	Fields of ResourceCandidateRef_MVO. . . . .	837
4.587	Fields of ResourceCollection. . . . .	839
4.588	Fields of ResourceCollection_FVO. . . . .	841
4.589	Fields of ResourceCollection_MVO. . . . .	843
4.590	Fields of ResourceFunctionSpecification. . . . .	844
4.591	Fields of ResourceGraphSpecification. . . . .	845
4.592	Fields of ResourceGraphSpecificationRef. . . . .	846
4.593	Fields of ResourceGraphSpecificationRelationship. . . . .	847
4.594	Fields of ResourceOperationalStateType. . . . .	848
4.595	Fields of ResourceRef. . . . .	849
4.596	Fields of ResourceRefOrValue. . . . .	850
4.597	Fields of ResourceRefOrValue_FVO. . . . .	851
4.598	Fields of ResourceRefOrValue_MVO. . . . .	852
4.599	Fields of ResourceRef_FVO. . . . .	853
4.600	Fields of ResourceRef_MVO. . . . .	854
4.601	Fields of ResourceRelationship. . . . .	855
4.602	Fields of ResourceRelationship_FVO. . . . .	856
4.603	Fields of ResourceRelationship_MVO. . . . .	857
4.604	Fields of ResourceSpecification. . . . .	858
4.605	Fields of ResourceSpecificationRef. . . . .	859
4.606	Fields of ResourceSpecificationRef_FVO. . . . .	860
4.607	Fields of ResourceSpecificationRef_MVO. . . . .	861
4.608	Fields of ResourceSpecificationRelationship. . . . .	862
4.609	Fields of ResourceSpecificationRelationship_FVO. . . . .	863
4.610	Fields of ResourceSpecificationRelationship_MVO. . . . .	864
4.611	Fields of ResourceSpecification_FVO. . . . .	865



4.612	Fields of ResourceSpecification_MVO. . . . .	866
4.613	Fields of ResourceStatusType. . . . .	867
4.614	Fields of ResourceUsageStateType. . . . .	868
4.615	Fields of Resource_FVO. . . . .	870
4.616	Fields of Resource_MVO. . . . .	872
4.617	Fields of ResponseTime. . . . .	873
4.618	Fields of ResultFormat. . . . .	874
4.619	Fields of ResultPayload. . . . .	875
4.620	Fields of ResumePerformanceJob. . . . .	876
4.621	Fields of ResumePerformanceJob_Common. . . . .	877
4.622	Fields of ResumePerformanceJob_Create. . . . .	878
4.623	Fields of ResumePerformanceJob_Find. . . . .	879
4.624	Fields of ScheduleDefinition. . . . .	880
4.625	Fields of Service. . . . .	882
4.626	Fields of ServiceCandidateRef. . . . .	883
4.627	Fields of ServiceCandidateRef_FVO. . . . .	884
4.628	Fields of ServiceCandidateRef_MVO. . . . .	885
4.629	Fields of ServiceLevelObjective. . . . .	886
4.630	Fields of ServiceLevelObjectiveRef. . . . .	887
4.631	Fields of ServiceLevelObjectiveThreshold. . . . .	888
4.632	Fields of ServiceLevelObjective_Create. . . . .	889
4.633	Fields of ServiceLevelObjective_Update. . . . .	890
4.634	Fields of ServiceLevelSpecConsequence. . . . .	891
4.635	Fields of ServiceLevelSpecification. . . . .	892
4.636	Fields of ServiceLevelSpecificationRef. . . . .	893
4.637	Fields of ServiceLevelSpecificationRef_FVO. . . . .	894
4.638	Fields of ServiceLevelSpecificationRef_MVO. . . . .	895
4.639	Fields of ServiceLevelSpecification_Create. . . . .	896
4.640	Fields of ServiceLevelSpecification_Update. . . . .	897
4.641	Fields of ServiceOperatingStatusType. . . . .	898
4.642	Fields of ServicePayloadSpecificAttributes. . . . .	899
4.643	Fields of ServiceRef. . . . .	900
4.644	Fields of ServiceRefOrValue. . . . .	901
4.645	Fields of ServiceRefOrValue_FVO. . . . .	902
4.646	Fields of ServiceRefOrValue_MVO. . . . .	903
4.647	Fields of ServiceRef_FVO. . . . .	904
4.648	Fields of ServiceRef_MVO. . . . .	905
4.649	Fields of ServiceRelationship. . . . .	906
4.650	Fields of ServiceRelationship_FVO. . . . .	907
4.651	Fields of ServiceRelationship_MVO. . . . .	908
4.652	Fields of ServiceSpecification. . . . .	909
4.653	Fields of ServiceSpecificationRef. . . . .	910
4.654	Fields of ServiceSpecificationRef_FVO. . . . .	911
4.655	Fields of ServiceSpecificationRef_MVO. . . . .	912
4.656	Fields of ServiceSpecification_FVO. . . . .	913
4.657	Fields of ServiceSpecification_MVO. . . . .	914
4.658	Fields of ServiceStateType. . . . .	915
4.659	Fields of Service_FVO. . . . .	917
4.660	Fields of Service_MVO. . . . .	919

4.661	Fields of Skill. . . . .	920
4.662	Fields of SocialContactMedium. . . . .	921
4.663	Fields of SocialContactMedium_FVO. . . . .	922
4.664	Fields of SocialContactMedium_MVO. . . . .	923
4.665	Fields of StandardIdentifier. . . . .	924
4.666	Fields of StandardIdentifier_FVO. . . . .	925
4.667	Fields of StandardIdentifier_MVO. . . . .	926
4.668	Fields of StatusChange. . . . .	927
4.669	Fields of StatusChange_MVO. . . . .	928
4.670	Fields of StringArrayCharacteristic. . . . .	929
4.671	Fields of StringArrayCharacteristicValueSpecification. . . . .	930
4.672	Fields of StringArrayCharacteristicValueSpecification_FVO. . . . .	931
4.673	Fields of StringArrayCharacteristicValueSpecification_MVO. . . . .	932
4.674	Fields of StringArrayCharacteristic_FVO. . . . .	933
4.675	Fields of StringArrayCharacteristic_MVO. . . . .	934
4.676	Fields of StringCharacteristic. . . . .	935
4.677	Fields of StringCharacteristicValueSpecification. . . . .	936
4.678	Fields of StringCharacteristicValueSpecification_FVO. . . . .	937
4.679	Fields of StringCharacteristicValueSpecification_MVO. . . . .	938
4.680	Fields of StringCharacteristic_FVO. . . . .	939
4.681	Fields of StringCharacteristic_MVO. . . . .	940
4.682	Fields of Supplier. . . . .	941
4.683	Fields of Supplier_FVO. . . . .	942
4.684	Fields of Supplier_MVO. . . . .	943
4.685	Fields of SuspendPerformanceJob. . . . .	944
4.686	Fields of SuspendPerformanceJob_Common. . . . .	945
4.687	Fields of SuspendPerformanceJob_Create. . . . .	946
4.688	Fields of SuspendPerformanceJob_Find. . . . .	947
4.689	Fields of TargetEntitySchema. . . . .	948
4.690	Fields of TargetEntitySchema_FVO. . . . .	949
4.691	Fields of TargetEntitySchema_MVO. . . . .	950
4.692	Fields of TargetProductSchema. . . . .	951
4.693	Fields of TargetProductSchema_FVO. . . . .	952
4.694	Fields of TargetProductSchema_MVO. . . . .	953
4.695	Fields of TargetResourceSchema. . . . .	954
4.696	Fields of TargetResourceSchema_FVO. . . . .	955
4.697	Fields of TargetResourceSchema_MVO. . . . .	956
4.698	Fields of TaskStateType. . . . .	957
4.699	Fields of TaxDefinition. . . . .	958
4.700	Fields of TaxDefinition_FVO. . . . .	959
4.701	Fields of TaxDefinition_MVO. . . . .	960
4.702	Fields of TaxExemptionCertificate. . . . .	961
4.703	Fields of TaxExemptionCertificate_FVO. . . . .	962
4.704	Fields of TaxExemptionCertificate_MVO. . . . .	963
4.705	Fields of TaxItem. . . . .	964
4.706	Fields of ThresholdRef. . . . .	965
4.707	Fields of TimeInterval. . . . .	966
4.708	Fields of TimePeriod. . . . .	967
4.709	Fields of Topic. . . . .	968

4.710	Fields of TotalPrice. . . . .	969
4.711	Fields of TroubleTicket. . . . .	970
4.712	Fields of TroubleTicketRelationship. . . . .	971
4.713	Fields of TroubleTicketRelationship_FVO. . . . .	972
4.714	Fields of TroubleTicketRelationship_MVO. . . . .	973
4.715	Fields of TroubleTicketSpecification. . . . .	974
4.716	Fields of TroubleTicketSpecificationRef. . . . .	975
4.717	Fields of TroubleTicketSpecificationRef_FVO. . . . .	976
4.718	Fields of TroubleTicketSpecificationRef_MVO. . . . .	977
4.719	Fields of TroubleTicketSpecification_FVO. . . . .	978
4.720	Fields of TroubleTicketSpecification_MVO. . . . .	979
4.721	Fields of TroubleTicketStatusType. . . . .	980
4.722	Fields of TroubleTicket_FVO. . . . .	981
4.723	Fields of TroubleTicket_MVO. . . . .	982
4.724	Fields of UsageEstimation. . . . .	983

# 1 Document Meta Information

## 1.1 Document Signature Table

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Table 1.1: Signature Table.

### 1.1.1 Document Change Record

#### 1.1.1.1 Changes

Date	Version	author	message
2022-08-24	MS1	Christian Grubert	Initial version
2022-09-30	MS2	Christian Grubert	Added party management and resource registration.
2022-12-31	MS3	Christian Grubert	Added inquiry, template, event, attachment and billing API
2023-04-19	MS4	Christian Grubert	Updated endpoints descriptions for billing and attachments, added beam areas, best-effort flag and inquiry timeouts, added security considerations
2023-07-26	MS5	Norbert Czeranka	Priority system for offerings, characteristics, trouble ticket management and time intervals

Date	Version	author	message
2023-10-06	MS6	Christian Grubert	Introduced JSON Schema approach and GeoJSON details
2024-01-25	MS7	Christian Grubert	Clarified mandatory columns, additional JSON schemas, introduced polymorphism
2024-09-11	MS8 [1.2.0]	Thomas Schulz	Public release adjustments.
2024-12-09	MS9 [1.2.1]	Christian Grubert	Mission-API and location handling updates.
2025-02-03	MS10 [1.2.2]	Norbert Czeranka	Relative times in Mission-API, implicit subtypes, Open-API 3.0 type update.
2025-04-23	MS11 [1.2.3]	Christian Grubert	TMF5 Updates (migrations) to all APIs.

Table 1.2: DCR Table.

### 1.1.1.2 Source Control

Changes to this document are tracked electronically. No signature is required by the authors. The following information can prove the integrity of the document and reveal any change.

Repo	Date	Author	Branch	Hash
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Table 1.3: GIT Changelog Table.



Figure 1.1: DCR QR-Code.

## 1.2 Documents

### 1.2.1 Reference Documents

Acronym	Reference	Title	Version
PSI-DL	PSI-DL	PSI CGI Document List	current MS (doc version)
PSI-ICD	PSI-ICD	PSI Interface Control Document	see before
PSI-TAD	PSI-TAD	PSI Terms, Abbreviations and Definitions	see before
PSI-TOD	PSI-TOD	PSI Tasks and Operations Dictionary	see before

Table 1.4: Reference Documents.

### 1.2.2 External Annexes

Reference	Title or Filename
PSI-ICD-Annex-I	PSI-ICD-Annex-I.zip
PSI-ICD-Annex-II	PSI-ICD-Annex-II.zip

Table 1.5: External Annexes



## 2 Introduction

The Pooling & Sharing Interfaces Definitions (PSID) project is an ESA co-funded effort to define a common standard for the interfaces of Pooling & Sharing Systems (PSS) for Satellite Communication (SatCom) services. A PSS is a digital platform for matchmaking (Gov)SatCom users' demands (both commercial and institutional) with (Gov)SatCom providers' offers. Bringing together multiple (Gov)SatCom providers in one platform makes the market transparent, thus allowing users to get an overview of the market and to compare different offers efficiently. Additionally, a PSS assists users with little knowledge about the (Gov)SatCom domain defining their requirements on the (Gov)SatCom services. Those two aspects combined allow for fast access to the services and an efficient usage of the available capacities. To accomplish this, a PSS steps in between the usual processes of finding a provider/supplier, requesting an offer, and ordering the desired products or services, either as a service broker or by pooling products and services from different providers and offering them as an intermediary or distributor. Subsequently, the PSS can be used to monitor the services and manage multiple missions in a single application.

Eventually, a PSS can also be used as (or manage) a community hub, i.e., a number of end users or customers with similar interest that *share* their common resources and utilize a commonly obtained *pool* of (Gov)SatCom capacities. This strategy increases the efficient usage of scarce resources further.

There are already different approaches on PSSs, that might lead to an unnecessary fragmentation of the market. Therefore, a common standard for the interfaces of a PSS is required to allow the interaction between those different PSSs and reduce the effort of (Gov)SatCom providers to offer their product and services via multiple PSSs to maximize their reach.

Such a standard needs to take care of the different interfaces involved in the aforementioned processes, i.e.,

The goal of this project is to mainly define aspect 1 and to develop a software mock-up as needed to validate the various interfaces being developed.

The PSI standard derives from the existing industry-standard "Open Digital Framework" of **TM Forum** alliance<sup>1</sup>. The "Open Digital Framework" is a reference framework for delivering online Information, Communications and Entertainment services to the telecom world. It empowers market participants to compete and cooperate. One of PSI's goals is to make this existing standard fit for the world of satellite communication.

The consortium for this project consists of the service & technology providers SES Techcom and CGI, as well as of the (Gov)SatCom operators SES, Hellas Sat, Hispasat, Hisdesat, and LuxGovSat, and Inmarsat being both a service & technology provider and a (Gov)SatCom operator.

<sup>1</sup> See <https://www.tmforum.org/resources/reference/gb991-tm-forums-core-concepts-and-principles-v22-0-0/>

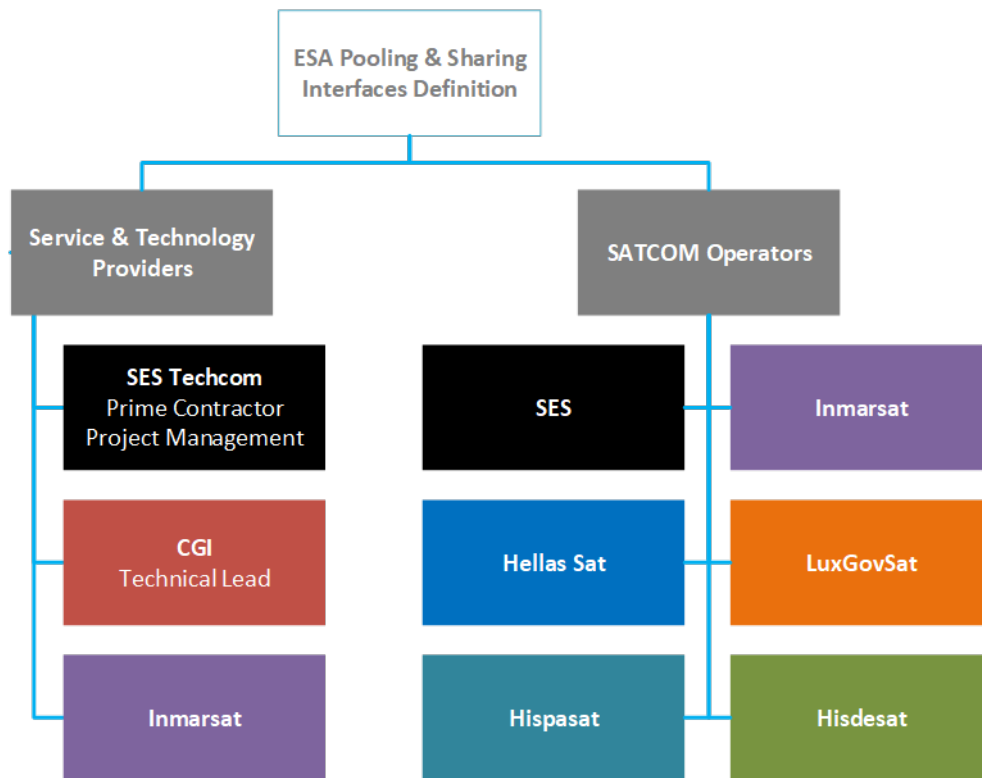


Figure 2.1: The PSI consortium.

## 2.1 Scope of Document

This document is the Interface Control Document of the Pooling & Sharing Interface (PSI). It contains the description of the interfaces between a PSS and a provider or two PSS, which are based on TM Forum OpenAPIs.

The following sections heavily refer to terms, abbreviations and definitions defined in the [PSI-TAD].

### 2.1.1 Compiled Document

**NOTE:** THIS IS A COMPILED DOCUMENT <sup>2</sup>

This document has been compiled/generated from external sources and is not being written as-is. Therefore, any changes made within this compiled version of the document will be lost upon recompilation!

To make (permanent) changes, edit the respective sources directly or contact the PSID team.

### 2.1.2 Signature

Changes to this document are tracked electronically. No signature is required by the authors. The information in the “Source Control” chapter can prove the integrity of the document and reveal any change.

<sup>2</sup>Document compiled on 2025-04-23 12:36.

## 2.1.3 Development State

Current document version is 1.3.0.

## 2.1.4 Release Notes

[[TOC]]

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## 2.1.5 PSI Release Notes

### 2.1.5.1 Introduction

Welcome to the latest release of the Pooling and Sharing Interface (PSI) API!  
This document outlines the new features, improvements, and important updates included in this version.

### 2.1.5.2 Key Highlights

The central focus of this release is the implementation of the **Mission Management ODA Blueprint**.  
This component complements the mission-related APIs by providing a *reference implementation of graphical user interfaces* that help users specify their product and service requirements.

Designed with users in mind, this component uses templates to simplify mission creation and introduces a governance layer to facilitate and control the requirements collection process.  
It's built as a standalone micro-frontend and can be easily integrated into existing OSS/BSS/PSS systems.

The interface includes multiple visualization modes:

Another major update in this release is the migration to **TM Forum APIs Version 5 (TMF5)**.

All APIs have been ported to the current TMF baseline.

However, TMF5 introduced some gaps in the Component Test Kit (CTK), resulting in partial test coverage for certain APIs. This limitation will be addressed once TM Forum updates the CTK.

Additionally, this release introduces **MEF-compatible APIs**, marking the beginning of convergence between MEF and TMF frameworks within PSI.

Our goal moving forward is to support both API standards in their respective areas.

### 2.1.5.3 What's New

#### 2.1.5.3.1 Newly Added APIs

#### 2.1.5.3.2 Updated APIs

#### 2.1.5.3.3 Added Requirements

### 2.1.5.4 Known Limitations

### 2.1.5.5 Feedback and Contributions

We appreciate your input!

If you experience any issues or have suggestions, please don't hesitate to contact us.

We also encourage community contributions to help enhance PSI further.

## 2.2 High-Level Connection

This document describes the interfaces any PSS and any provider system must implement to enable communication between them. Unless specified otherwise, all interfaces are implemented RESTful, which includes the following properties:

Each of the following sections describe the available endpoints and operations, including the parameters, and request bodies. Wherever a named class is referenced see the [Data-Transfer-Objects](#) section for details. All information is also available as OpenAPI Specifications<sup>3</sup> in [PSI-ICD-Annex-I] of this document. These files can be used to generate server and client code<sup>4</sup> in a programming language of choice.

Every interface is implemented by a server and a client. There is no clear distinction between a PSS and a provider system in this document, since both can implement each side depending on the use-case. Especially the broker-type PSS will often receive data from one party (e.g. the customer) as a server and forward it to another (e.g. the provider) as a client. The PSI mock-up is a sample implementation of the endpoints described in the ICD.

It is up to the implementor to decide how the endpoints will be implemented internally on their side. For recommended guidelines and design patterns when implementing TM Forum's REST APIs, use the TMF630 REST API Design Guidelines 4.2.0<sup>5</sup> document as a reference. Filtering, for instance, is an optional function that is not required to be implemented for the GET endpoints returning lists of objects. Therefore, it is not part of the parameters listed in the respective endpoint sections of the ICD. If an implementor of the server side decides to develop it, *Part One* of the REST API Design Guidelines describes the recommendations for querying resources with attribute filtering, while *Part Six* describes advanced collection filtering using JSON Path. Client implementors are advised to clarify which filters are available on the server side.

## 2.3 Security Considerations

The PSID is designed to be as implementation-agnostic as possible, so it can be used as a building block for any PSS or client (user, provider and governance). Therefore, it must also be integrated in the overall security solution of the implementing system and can not establish strong requirements on those aspects. The following subsections will provide an overview of interface-related security aspects the implementor must consider, as well as some guidance on available solutions.

### 2.3.1 Transport Encryption

As stated in the introduction, all data is exchanged with TLS encryption using HTTPS. It is strongly recommended using the latest version (which is 1.3 at the time of writing) and to disable older versions via the server configuration to prevent downgrade attacks. The recommendation also applies to internal subsystems, even if they are not using

<sup>3</sup><https://swagger.io/resources/open-api/>

<sup>4</sup><https://swagger.io/tools/swagger-codegen/>

<sup>5</sup><https://www.tmfforum.org/resources/specification/tmf630-rest-api-design-guidelines-4-2-0/>

PSI directly. Each party can decide whether to use a well-known certification authority or to arrange a custom Public-Key-Infrastructure (PKI). In the latter case, the root keys of the PKI have to be exchanged beforehand to establish the connection.

For extended security, the implementation can introduce additional encryption layers. Most notably, classified systems will most likely require a VPN connection. The soft- or hardware solution for the connection is to be agreed beforehand.

The above-mentioned measures are implemented on the transport layer and therefore transparent to the application. But this implies that the data is only encrypted on the network between one system and another. It is quite common though to use middleboxes like reverse-proxies and load-balancers, which will decrypt and re-encrypt the data for transmission to the next system. For highest security, the parties can agree to use the JSON Web Encryption (JWE, RFC 7516) technology. It enables the encryption of the message body (e.g. an inquiry), so it can only be decrypted by the target subsystem.

## 2.3.2 Authentication

Authentication is the process of validating the identity of a communication partner. This can be between two systems (PSS-to-Provider, PSS-to-PSS) or between a natural person and a system. Setting up the authentication for the first time is part of the accreditation process.

Since all data exchange is based on HTTPS, the server is always authenticated via the SSL certificate. As described above, the authenticity is checked either via a well-known certification authority or via a custom PKI. Additionally, it is possible to use certificate pinning (RFC 7469) to prevent man-in-the-middle attacks.

There are many standardized authentication methods available for clients. Selecting the right one depends on the security needs and structure of the implementation. There may also be differences made for authentication of other systems and natural persons.

For machine-to-machine communication, each implementation is expected to have a configuration of allowed hosts (e.g. `api.example.com:8081`) and their respective authentication scheme and credentials. Depending on the operational requirements, this may be offered as a self-service UI or restricted to the system operators (e.g. for security reasons or complexity concerns). When calling an endpoint, the respective authentication can be selected and applied automatically.

The recommended authentication method is the OAuth 2.0 protocol, which is also favoured by the REST API Design Guidelines of TM Forum. It separates the authentication provider from the rest of the system and allows authenticating systems and natural persons alike. The credentials to authenticate the client can be classic combinations of username and password, a second-factor, or certificate-based like the server authentication. Either way they are sent to the authentication provider before the first request, which then verifies the identity and creates an access token. The token is stored in a server-side session (using a short-lived cookie in the client browser) or returned to the client for further use as an HTTP-Header (useful for machine-to-machine communication).

## 2.3.3 Authorization and Data Visibility

Authorization is closely related to the above described authentication: It is the process of determining whether the authenticated entity has access to a source. Because of the close relation, it is not possible to define this without implying an authorization method. This chapter describes two aspects, which have to be considered by the server implementation.

First, it has to check the permissions of the client to access any given endpoint. For example, there are endpoints that are only allowed to be called by the system governance (see [PSI-TOD]). Consequently, any request by other

parties must be prohibited, and a 403 status code must be returned as described in the [PSI-ICD]. The most common concept for this is role based access control (RBAC).

If the client is allowed to access the endpoint, the server must also check if the client is allowed to perform the given operation on the requested data. This could be implemented by using an access control list (ACL). As long as not stated otherwise, every party is only allowed to read and update entities they previously created themselves. The owner will extend this access as side effects to other actions:

The system might also provide further internal processes to make data *writable* by other parties, e.g. for other persons in the same organization or a mission expert that supports the customer in the process of service acquisition. These permission checks are mandatory for the overall entity, but can also be performed on single attributes if required.

The Event API needs special attention in this regard. The implementation must assure that no published events are leaked to third parties. Also, it shall ensure that received events are processed under the same conditions as above.

## 2.3.4 Other Security Aspects

There are other security aspects that should be considered by all systems independently of the PSI. The following (incomplete) list is indicating some well-known ones, that could be part of the accreditation process if deemed relevant for the governance:

## 2.4 Types and Characteristics

The PSS defines a set of supported types for resources, services and products in consultation with the providers. It provides them in a JSON Schema file that is made available through the API itself or can be exchanged offline. Each type then defines *characteristics* that describe the exact nature of it.

Product types are also the fundament of the matchmaking: The customer specifies a set of inquired characteristics and the PSS will find products that satisfy them. The result can be a single service or resource, that satisfies all requirements, or a more or less complex combination of such, depending on the capabilities of the algorithm. If partial matches are allowed, services that only partially match the inquired features are included into the results.

Both sides, PSS and Provider, may introduce additional characteristics, e.g. as part of the development of new or enhanced products. In any case, no assumptions shall be made on the support of those by the other side: If the PSS adds support for a new characteristic, it has to define a sensible, neutral default value that is applied to all specifications that do not contain the new characteristic. No provider shall be penalized in the matchmaking for not defining it, unless the user explicitly requests the new characteristic. If a provider sends a new characteristic, the PSS may decide to ignore it, or to accept and visualize it as-is for the customer without further handling.

The following subsections describe the set of resource, service and product types that were analysed in the course of the project. While these are not part of the standard per se, it is sensible for most systems to support them.

### 2.4.1 Examples

The following examples show different scenarios of how features and characteristics can be used in three phases of the service lifecycle:

They are structured according to the “Commission Implementing Decision (EU) 2023/1054”, which defines the service portfolio of the Union Space Programme, and covers the service layers L0 - L2.



### 2.4.1.1 Raw Bandwidth (L0)

Inquiry:

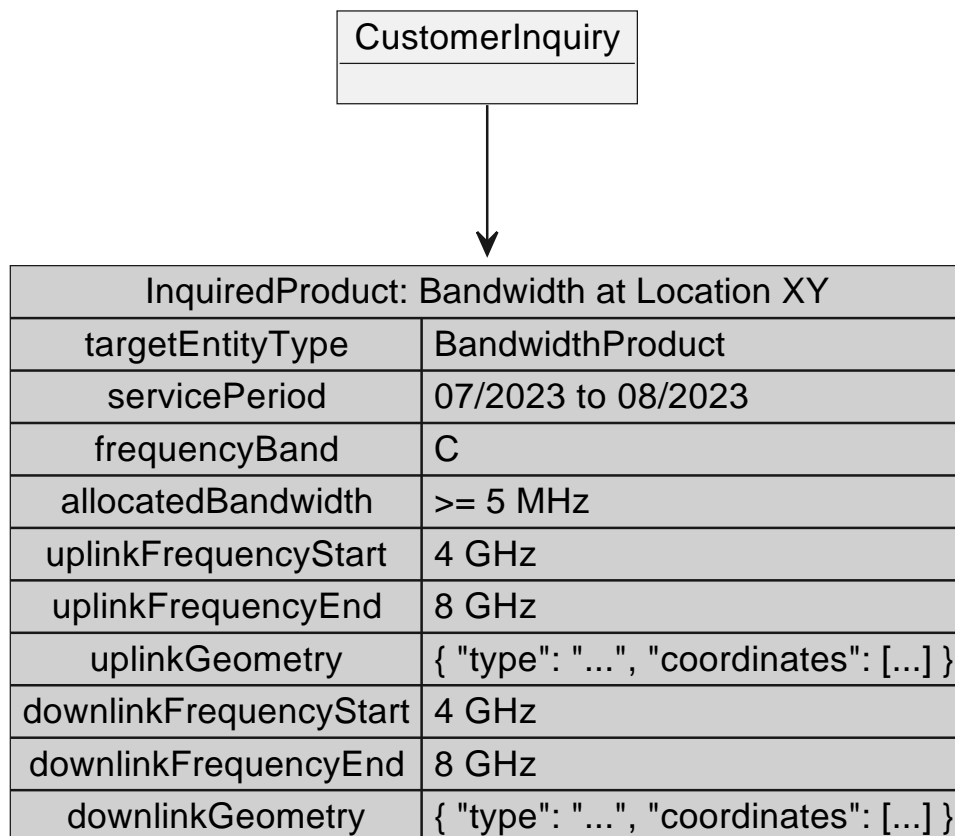


Figure 2.2: Example Inquiry for Raw Bandwidth

Results:

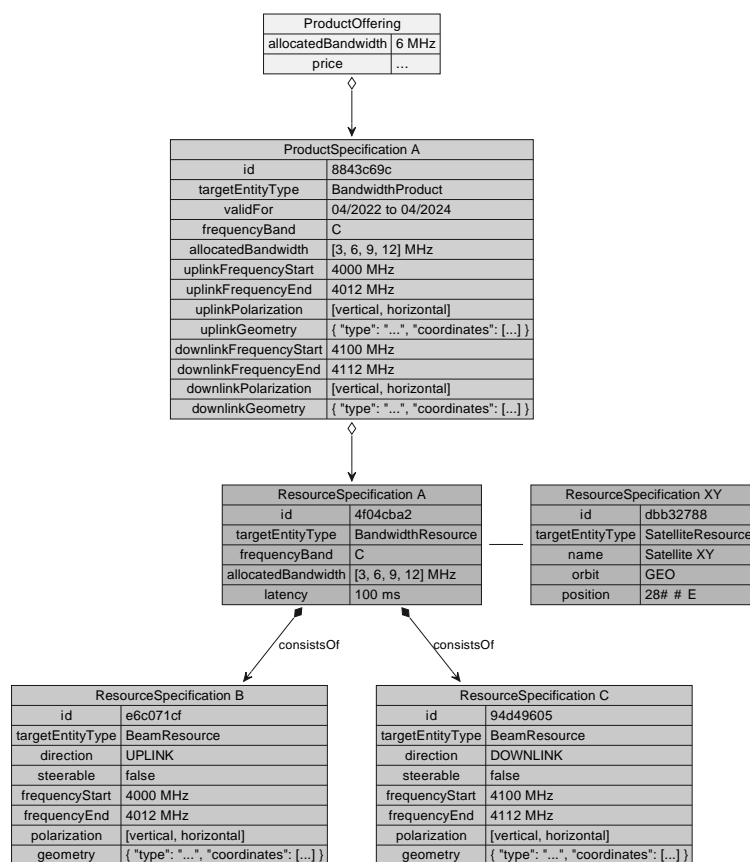


Figure 2.3: Example Results for Raw Bandwidth

Implementation:

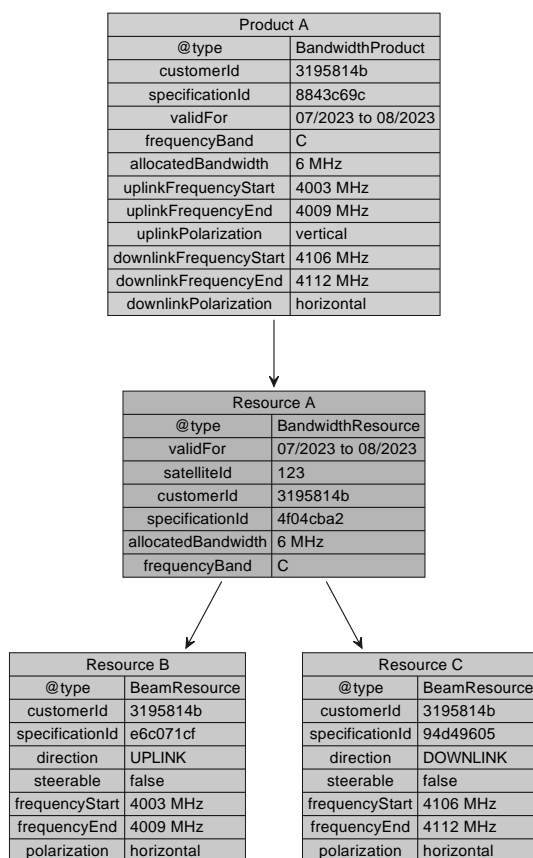


Figure 2.4: Example Inventory for Raw Bandwidth

Note that the geometry is deliberately not copied to the resource instances in this example. Since the beams are not steerable, copying this information would most probably not add any value. The implementation may choose to do so if justified, e.g. to track the actual configuration of steerable beams.

### 2.4.1.2 Anchoring Capacity (L1)

Inquiry:

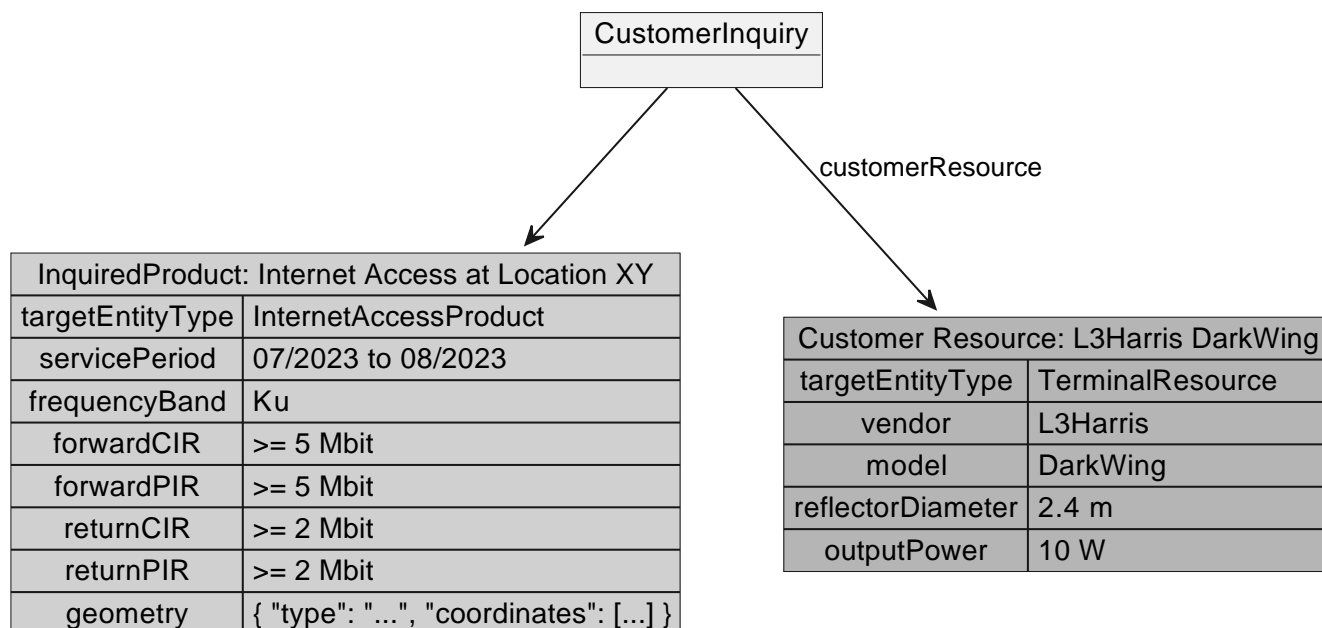


Figure 2.5: Example Inquiry for Anchoring Capacity

Results:

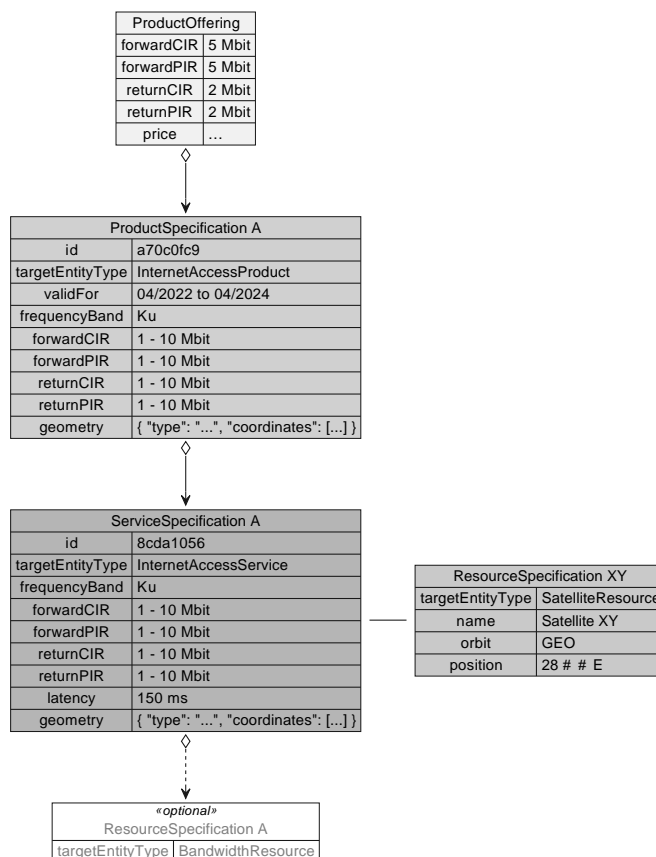


Figure 2.6: Example Results for Anchoring Capacity

Implementation:

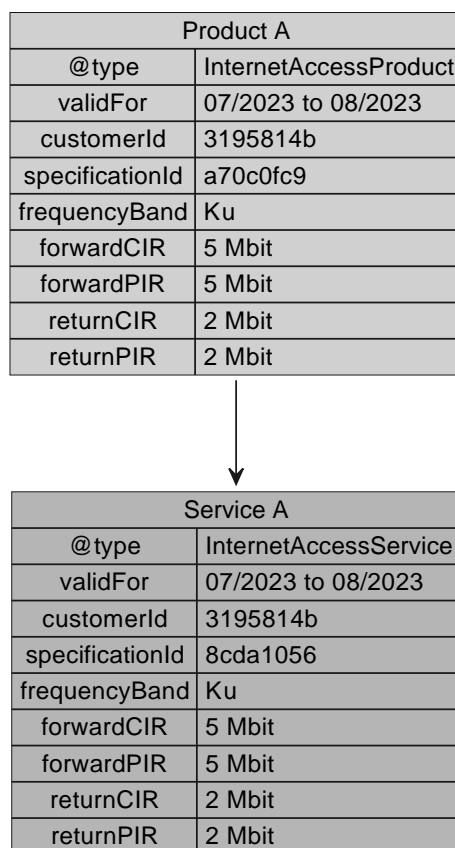


Figure 2.7: Example Inventory for Anchoring Capacity

### 2.4.1.3 End-to-End Service (L2)

Inquiry:

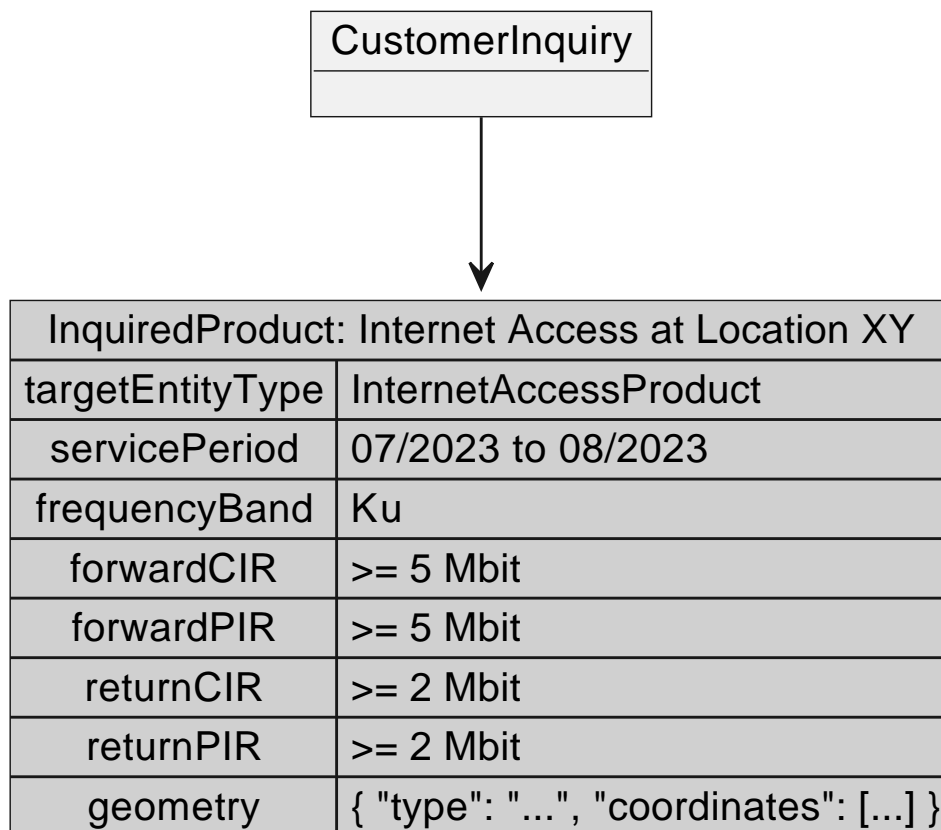


Figure 2.8: Example Inquiry for End-to-End Service

Results:



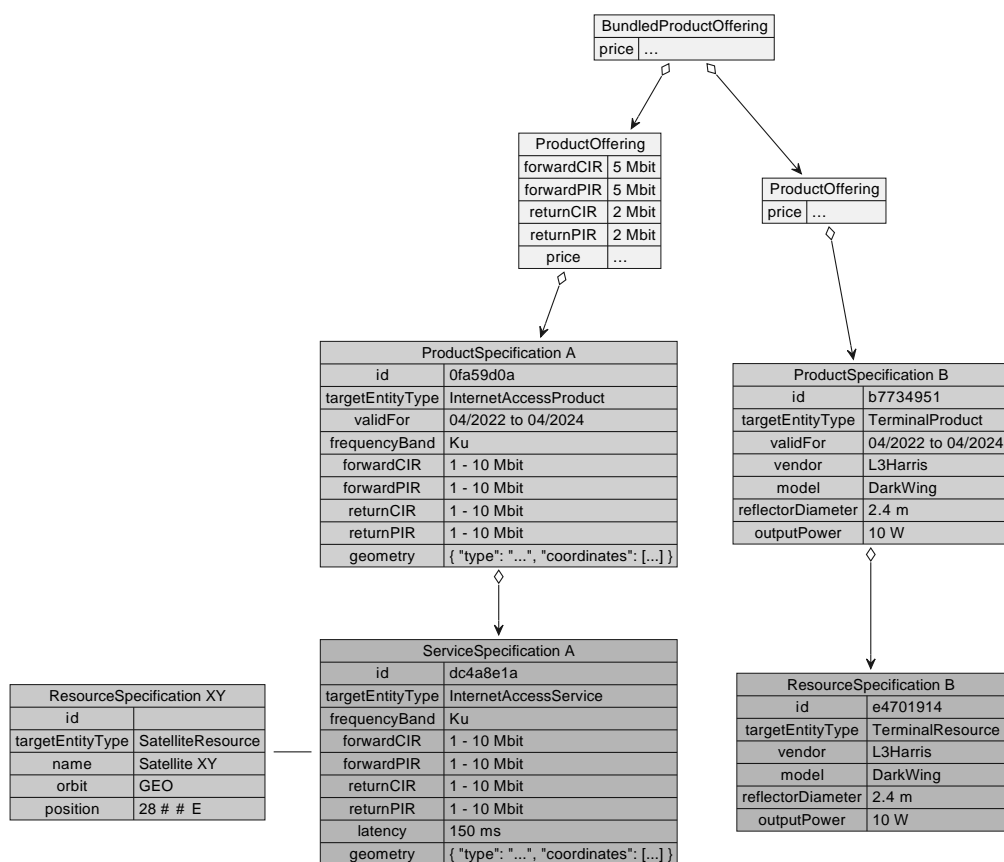


Figure 2.9: Example Results for End-to-End Service

Implementation:

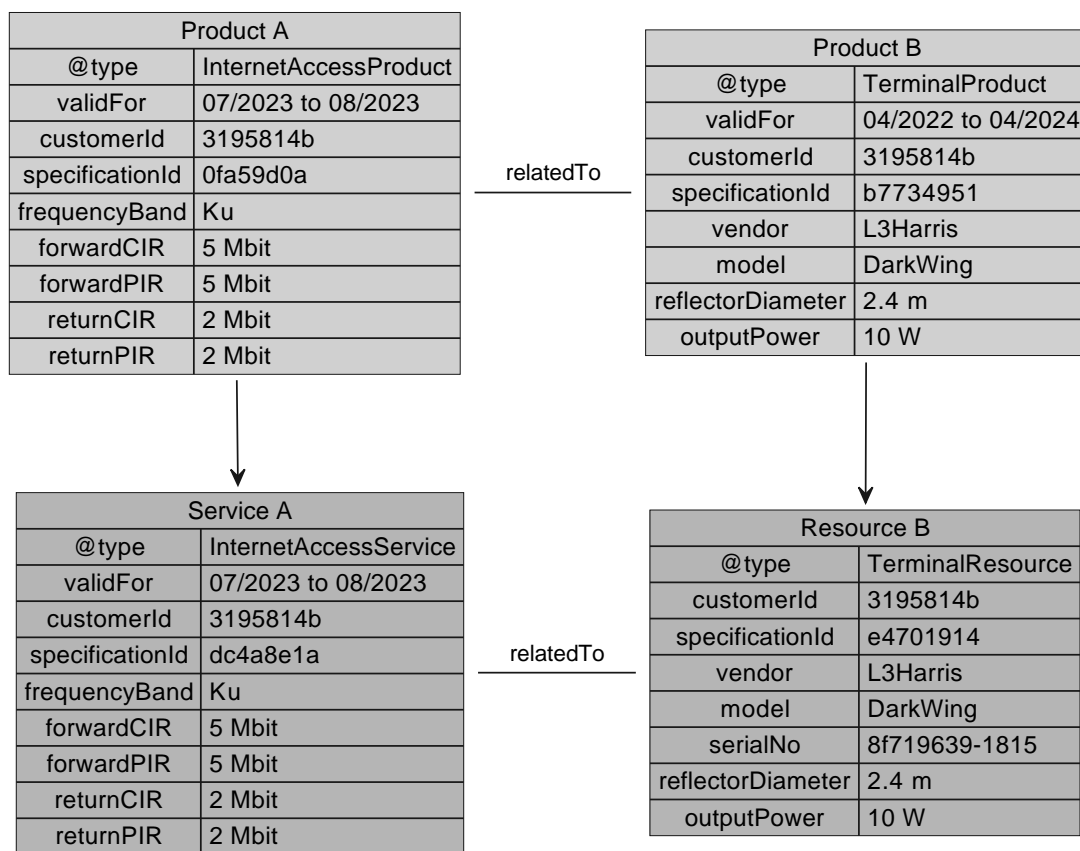


Figure 2.10: Example Inventory for End-to-End Service

#### 2.4.1.4 Multi-Product Request

An inquiry can contain multiple product requests at the same time. This can be used to either request different services that may be cheaper when bought as a package, or to describe varying communication needs in the course of a mission. The following example combines both cases: the mission starts with only one end-to-end service with low information rate, then increases it and adds additional raw bandwidth.

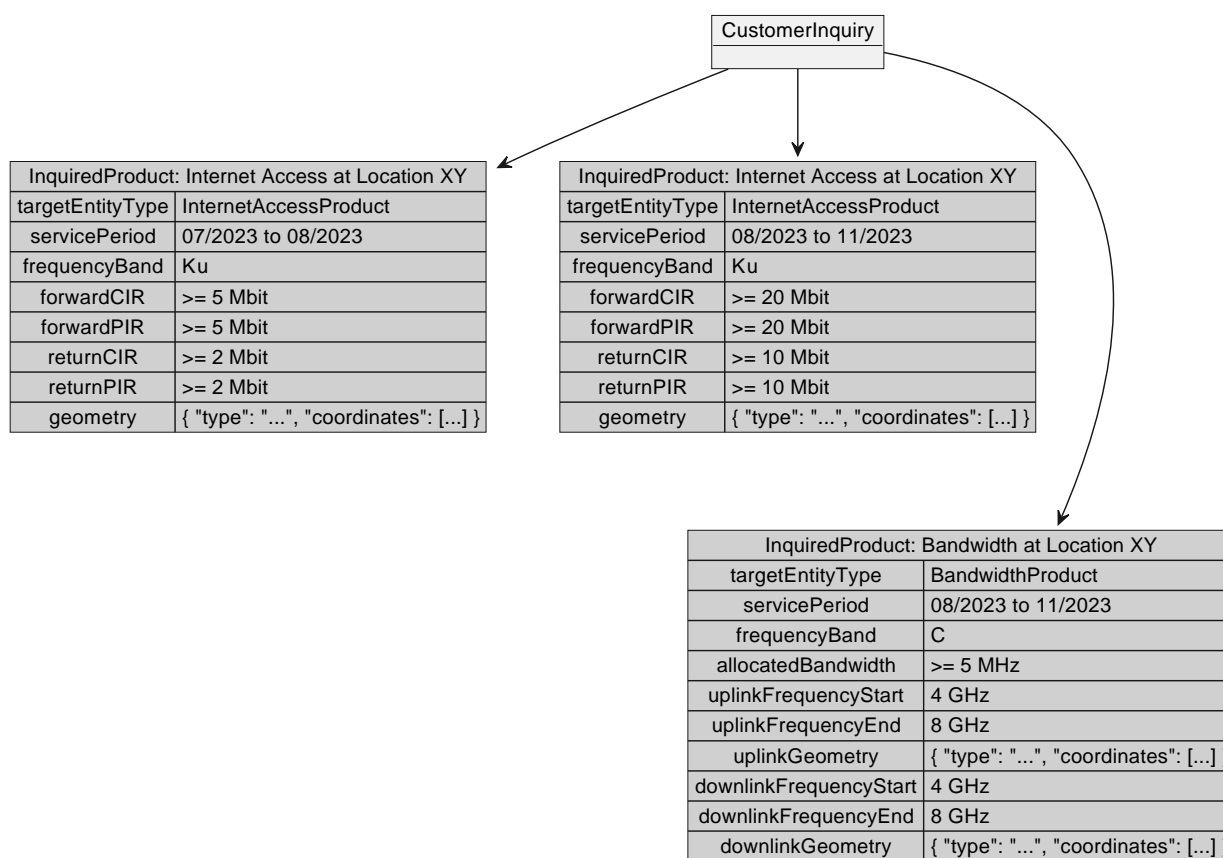


Figure 2.11: Example Of A Customer Inquiry of Internet Access / Bandwidth

The result of this inquiry is a combination of the results above and therefore not shown. Depending on the capabilities of the matchmaking, the internet access can be fulfilled by just one provider that is able to upgrade the active service, or it could offer two services possibly by different providers. The `BandwidthProduct` result is likely to be independent, but could also be bundled with the other two.

## 2.4.2 JSON Schemas

The following example demonstrates the structure of a JSON Schema. Apart from the identifier and description, the main content is the list of properties. Each one is defined by its name and type, and can be further qualified with value constraints and whether they are required.

JSON Schema: InternetAccessService			
\$schema	http://json-schema.org/draft-07/schema#		
\$id	InternetAccessService.schema.json		
title	InternetAccessService		
description	Describes a service that provides internet access via satellites.		
properties	frequencyBand	type	string
		enum	P
			L
			S
			C
			X
			KA
			MILKA
			KU
	forwardCIR	type	integer
		default	0
		description	Measured in kbps
	forwardPIR	type	integer
		description	Measured in kbps
	returnCIR	type	integer
		default	0
		description	Measured in kbps
	returnPIR	type	integer
		description	Measured in kbps
	latency	type	integer
		description	Measured in ms
	geometry	type	object
		\$ref	https://geojson.org/schema/FeatureCollection.json
required	frequencyBand		
	forwardPIR		
	returnPIR		

Figure 2.12: JSON Schema for InternetAccessService

Since version 2, PSI is using MEF LSO product schemas as the baseline to provide SatCom related definitions. In this way, it is assured to align them with terrestrial communication products as much as possible. It also enables providers that already adopted MEF using proprietary product definitions to seamlessly use PSI as well.

Additionally, MEF promotes a nested data model with reusable types, which improves the readability when using more attributes than shown above. When used together with TMF characteristics, this results in denominators like `ipUni.egressBandwidthProfileEnvelope.maxIr`.

[PSI-ICD-Annex-II] contains five product schemas:

### 2.4.3 Integration of Service Monitoring Specification into Performance Monitoring API

The performance Monitoring API delivered by the PSS API is a generic envelope that allows for the lifecycle management of relevant performance monitoring objects. The API itself does not provide explicit definitions for configuring performance monitoring or prescribing the structure of output data. However, it offers flexible extensibility to accommodate the configuration of service-specific performance objectives and results. This allows for customization and adaptation to various monitoring requirements and desired data formats. These monitoring configuration and result schemas can be defined using the JsonSchema (draft 7) format and can be integrated into the PerformanceJob and PerformanceReport using the TMF extension pattern. The extension hosting types in the API data model are:

Selection of the appropriate schema for the extension points is done by providing the `@type` attribute which must be set to a value that uniquely identifies the service monitoring configuration. This identifier is provided as root schema `$id` and must be agreed upon between the PSS and service provider.

PSS implementation might opt to integrate the selected performance monitoring specifications into the data model during development. In such a case an integrated data model is built and monitoring specifications are in an inheritance relationship according to either ServicePayloadSpecificAttributes or ResultPayload as described in the OAS specification. This pattern is called Static Binding. The snippets below present an example of a static binding of the envelope API based on an exemplary MEF monitoring specifications, for both extension points.

#### ServicePayloadSpecificAttributes:

**type:** object

**description:** ServicePayloadSpecificAttributes is used as an extension point for MEF specific service performance monitoring configuration. It includes definition of service/entity and applicable performance monitoring objectives. The '@type' attribute is used as a discriminator

**discriminator:**

**mapping:**

urn:mef:lso:spec:legato:ip-performance-monitoring-configuration:v0.0.1:all: '#/components/schemas/ServicePayloadSpecificAttributes'

**propertyName:** '@type'

**properties:**

'@type':

**type:** string

**description:**

The name that uniquely identifies type of performance monitoring configuration that specifies PM objectives. In case of MEF services this is the URN provided in performance monitoring configuration specification.

The named type must be a subclass of ServicePayloadSpecificAttributes.

#### IpPerformanceMonitoringConfiguration:

**allOf:**

- **\$ref:** '#/components/schemas/ServicePayloadSpecificAttributes'

- **type:** object

**description:** IP Performance Monitoring Configuration Schema.

#### ResultPayload:

**type:** object

**description:**

ResultPayload is used as an extension point for MEF specific service performance monitoring results. The '@type' attribute is used as a discriminator

**discriminator:**

**mapping:**

urn:mef:lso:spec:legato:ip-performance-monitoring-results:v0.0.1:all: '#/components/schemas/ResultPayload'

**propertyName:** '@type'

**properties:**

'@type':

**type:** string

**description:**

The name that uniquely identifies type of performance monitoring results that are returned by the Performance Report. In case of MEF services this is the URN provided in performance monitoring results specification.

The named type must be a subclass of ResultPayload.

**IpPerformanceMonitoringResults:****allOf:**

- **\$ref:** '#/components/schemas/ResultPayload'
- **type:** object
- description:** IP Performance Monitoring Results Schema.

The following figure presents two MEF performance monitoring schemas that represent configuration and result classes for IP services. When these schemas are used, the @type of ServicePayloadSpecificAttributes takes the "urn:mef:iso:spec:legato:ip-performance-monitoring-configuration:v0.0.1:all" value to indicate which performance specification should be used to interpret a set of service-specific attributes included in the payload. Similarly, for ResultPayload, the @type attribute takes "urn:mef:iso:spec:legato:ip-performance-monitoring-results:v0.0.1:all" value which indicates how the resulting performance collection should be interpreted.

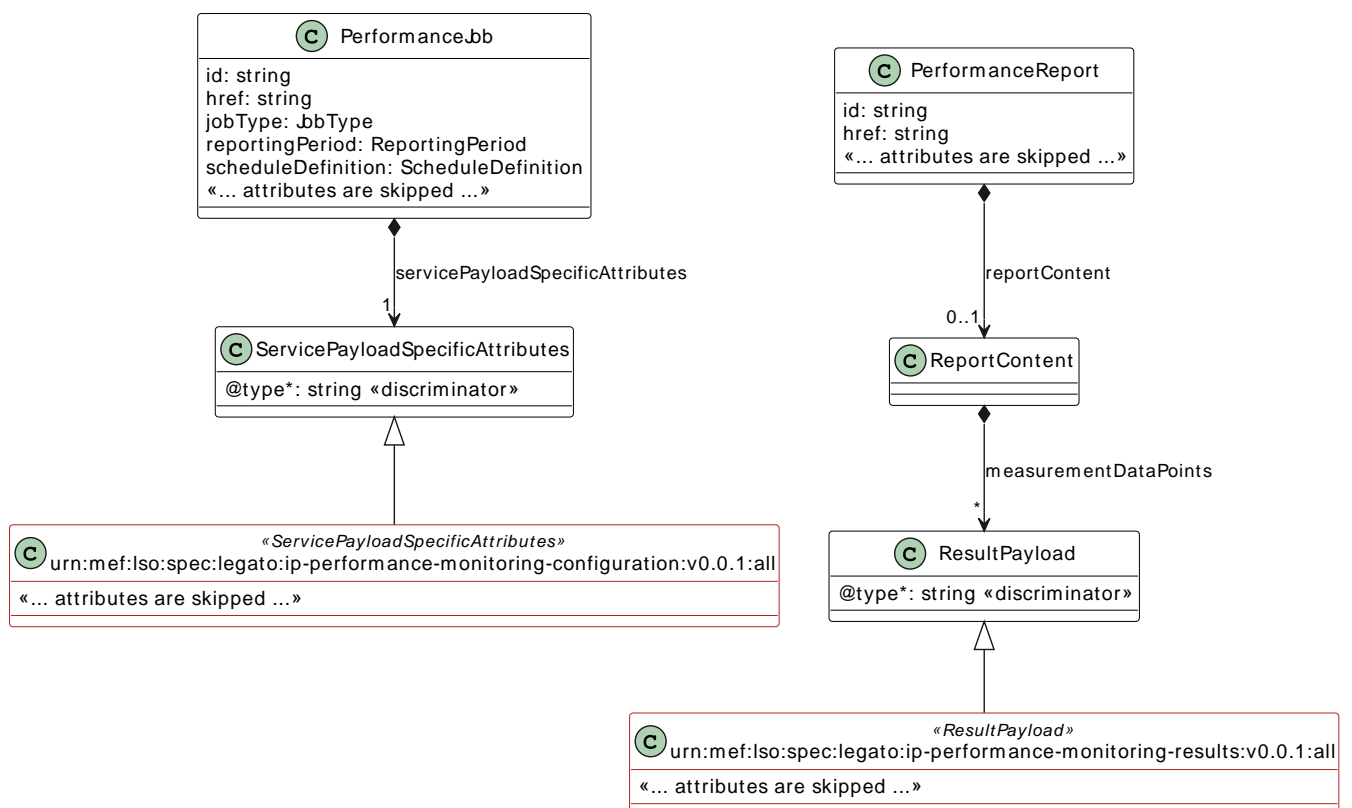


Figure 2.13: Performance Monitoring.



## 3 REST APIs

### 3.1 alarm (/alarmManagement)

Operations for Alarm Resource

#### 3.1.1 GET /alarm

**Absolute Path:** /alarmManagement/v2/alarm

**TOD Reference:** TOD-06-06-02-View\_All\_Alarm

**Summary:** List or find Alarm objects

##### 3.1.1.1 Parameters

Name	Type	Required	Description
fields	string	No	Comma-separated properties to be provided in response
offset	integer	No	Requested index for start of resources to be provided in response
limit	integer	No	Requested number of resources to be provided in response

Table 3.1: Parameters of GET alarm.

##### 3.1.1.2 Responses

Code	Description	Content
200	Success	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
500	Internal Server Error	Error
501	Not Implemented	Error
503	Service Unavailable	Error

Table 3.2: Responses of GET alarm.

### 3.1.2 GET /alarm/{id}

**Absolute Path:** /alarmManagement/v2/alarm/{id}

**TOD Reference:** TOD-06-06-01-View\_Alarm

**Summary:** Retrieves a Alarm by ID

#### 3.1.2.1 Parameters

Name	Type	Required	Description
id	string	Yes	Identifier of the Resource
fields	string	No	Comma-separated properties to be provided in response

Table 3.3: Parameters of GET alarm/{id}.

#### 3.1.2.2 Responses

Code	Description	Content
200	Success	Alarm
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
500	Internal Server Error	Error
501	Not Implemented	Error
503	Service Unavailable	Error

Table 3.4: Responses of GET alarm/{id}.

## 3.2 attachment (/document)

Operations for Attachment Resource

### 3.2.1 GET /document/{documentId}/attachment

**Absolute Path:** /document/v2/document/{documentId}/attachment

**Summary:** List or find Attachment objects

#### 3.2.1.1 Parameters

Name	Type	Required	Description
documentId	string	Yes	The identifier of the Document.
fields	string	No	Comma-separated properties to be provided in response

Table 3.5: Parameters of GET document/{documentId}/attachment.

#### 3.2.1.2 Responses

Code	Description	Content
200	Success	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
500	Internal Server Error	Error
501	Not Implemented	Error
503	Service Unavailable	Error

Table 3.6: Responses of GET document/{documentId}/attachment.

## 3.2.2 POST /document/{documentId}/attachment

**Absolute Path:** /document/v2/document/{documentId}/attachment

**Summary:** Creates an Attachment

### 3.2.2.1 Parameters

Name	Type	Required	Description
documentId	string	Yes	The identifier of the Document.

Table 3.7: Parameters of POST document/{documentId}/attachment.

### 3.2.2.2 Request Body

Content Type	Reference
multipart/form-data	Attachment_FVO
application/json; charset=utf-8	Attachment_FVO

Table 3.8: Request Body of POST document/{documentId}/attachment.

### 3.2.2.3 Responses

Code	Description	Content
201	OK/Created	Attachment
202	Accepted	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error
501	Not Implemented	Error
503	Service Unavailable	Error

Table 3.9: Responses of POST document/{documentId}/attachment.

### 3.2.3 GET /document/{documentId}/attachment/{attachmentId}

**Absolute Path:** /document/v2/document/{documentId}/attachment/{attachmentId}

**Summary:** Retrieves an Attachment by ID

#### 3.2.3.1 Parameters

Name	Type	Required	Description
documentId	string	Yes	The identifier of the Document.
attachmentId	string	Yes	The identifier of the Attachment.
fields	string	No	Comma-separated properties to be provided in response

Table 3.10: Parameters of GET document/{documentId}/attachment/{attachmentId}.

#### 3.2.3.2 Responses

Code	Description	Content
200	Success	Attachment
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
500	Internal Server Error	Error
501	Not Implemented	Error
503	Service Unavailable	Error

Table 3.11: Responses of GET document/{documentId}/attachment/{attachmentId}.

### 3.2.4 DELETE /document/{documentId}/attachment/{attachmentId}

**Absolute Path:** /document/v2/document/{documentId}/attachment/{attachmentId}

**Summary:** Deletes an Attachment

#### 3.2.4.1 Parameters

Name	Type	Required	Description
documentId	string	Yes	Identifier of the document.
attachmentId	string	Yes	Identifier of the attachment.

Table 3.12: Parameters of DELETE document/{documentId}/attachment/{attachmentId}.

#### 3.2.4.2 Responses

Code	Description	Content
202	Accepted	N/A
204	Deleted	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error
501	Not Implemented	Error
503	Service Unavailable	Error

Table 3.13: Responses of DELETE document/{documentId}/attachment/{attachmentId}.

### 3.2.5 PATCH /document/{documentId}/attachment/{attachmentId}

**Absolute Path:** /document/v2/document/{documentId}/attachment/{attachmentId}

**Summary:** Updates an Attachment

#### 3.2.5.1 Parameters

Name	Type	Required	Description
documentId	string	Yes	The identifier of the document.
attachmentId	string	Yes	The identifier of the attachment.

Table 3.14: Parameters of PATCH document/{documentId}/attachment/{attachmentId}.

#### 3.2.5.2 Request Body

Content Type	Reference
multipart/form-data	Attachment_MVO
application/json;charset=utf-8	Attachment_MVO

Table 3.15: Request Body of PATCH document/{documentId}/attachment/{attachmentId}.

#### 3.2.5.3 Responses

Code	Description	Content
200	Success	Attachment
202	Accepted	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error
501	Not Implemented	Error
503	Service Unavailable	Error

Table 3.16: Responses of PATCH document/{documentId}/attachment/{attachmentId}.



### 3.2.6 GET /document/{documentId}/attachment/{attachmentId}/content

**Absolute Path:** /document/v2/document/{documentId}/attachment/{attachmentId}/content

**Summary:** Retrieves an Attachment content by ID

#### 3.2.6.1 Parameters

Name	Type	Required	Description
documentId	string	Yes	The identifier of the Document.
attachmentId	string	Yes	The identifier of the Attachment.

Table 3.17: Parameters of GET document/{documentId}/attachment/{attachmentId}/content.

#### 3.2.6.2 Responses

Code	Description	Content
200	Success	N/A
302	Found	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
500	Internal Server Error	Error
501	Not Implemented	Error
503	Service Unavailable	Error

Table 3.18: Responses of GET document/{documentId}/attachment/{attachmentId}/content.

### 3.2.7 PUT /document/{documentId}/attachment/{attachmentId}/content

**Absolute Path:** /document/v2/document/{documentId}/attachment/{attachmentId}/content

**Summary:** Updates the content of an Attachment

#### 3.2.7.1 Parameters

Name	Type	Required	Description
documentId	string	Yes	Identifier of the Document
attachmentId	string	Yes	Identifier of the Attachment

Table 3.19: Parameters of PUT document/{documentId}/attachment/{attachmentId}/content.

#### 3.2.7.2 Request Body

Content Type	Reference
/	binary

Table 3.20: Request Body of PUT document/{documentId}/attachment/{attachmentId}/content.

#### 3.2.7.3 Responses

Code	Description	Content
200	Updated	Attachment
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
500	Internal Server Error	Error
501	Not Implemented	Error
503	Service Unavailable	Error

Table 3.21: Responses of PUT document/{documentId}/attachment/{attachmentId}/content.

### 3.3 cancelPerformanceJob (/performanceMonitoring)

Performance Monitoring Job API

#### 3.3.1 GET /cancelPerformanceJob

**Absolute Path:** /performanceMonitoring/v2/cancelPerformanceJob

**Summary:** Lists or finds CancelPerformanceJob objects.

##### 3.3.1.1 Parameters

Name	Type	Required	Description
performanceJobId	string	No	Identifier of Performance Job that is a subject of CancelPerformanceJob.
state	string	No	State of CancelPerformanceJob. See <i>PerformanceJobProcessStateType</i> definition for details.
creationDate.gt	string	No	Date when the CancelPerformanceJob was created - greater than.
creationDate.lt	string	No	Date when the CancelPerformanceJob was created - lower than.
offset	integer	No	Requested index for start of item to be provided in response requested by client. Note that the index starts with "0".
limit	integer	No	Requested number of items to be provided in response requested by client.

Table 3.22: Parameters of GET cancelPerformanceJob.

##### 3.3.1.2 Responses

Code	Description	Content
200	Success	N/A
400	Bad Request	Error400
401	Unauthorized	Error401
403	Forbidden	Error403
422	Unprocessable entity due to the business validation problems	N/A
500	Internal Server Error	Error500
501	Method not implemented.	Error501



Code	Description	Content
------	-------------	---------

Table 3.23: Responses of GET cancelPerformanceJob.

### 3.3.2 POST /cancelPerformanceJob

**Absolute Path:** /performanceMonitoring/v2/cancelPerformanceJob

**TOD Reference:** TOD-06-04-03-Cancel\_Performance\_Monitoring\_Job

#### 3.3.2.1 Request Body

Content Type	Reference
application/json;charset=utf-8	CancelPerformanceJob_Create

Table 3.24: Request Body of POST cancelPerformanceJob.

#### 3.3.2.2 Responses

Code	Description	Content
201	Created	CancelPerformanceJob
400	Bad Request	Error400
401	Unauthorized	Error401
403	Forbidden	Error403
422	Unprocessable entity due to the business validation problems	N/A
500	Internal Server Error	Error500
501	Method not implemented.	Error501

Table 3.25: Responses of POST cancelPerformanceJob.

### 3.3.3 GET /cancelPerformanceJob/{id}

**Absolute Path:** /performanceMonitoring/v2/cancelPerformanceJob/{id}

**Summary:** Retrieves a CancelPerformanceJob by ID.

#### 3.3.3.1 Parameters

Name	Type	Required	Description
id	string	Yes	Identifier of the CancelPerformanceJob

Table 3.26: Parameters of GET cancelPerformanceJob/{id}.

#### 3.3.3.2 Responses

Code	Description	Content
200	Success	CancelPerformanceJob
400	Bad Request	Error400
401	Unauthorized	Error401
403	Forbidden	Error403
404	Not Found	Error404
500	Internal Server Error	Error500
501	Method not implemented.	Error501

Table 3.27: Responses of GET cancelPerformanceJob/{id}.

## 3.4 checkProductStock (/stock)

Stock Check API

### 3.4.1 POST /checkProductStock

**Absolute Path:** /stock/v2/checkProductStock

**TOD Reference:** TOD-05-04-01-Check\_Product\_Stock

**Summary:** Creates a CheckProductStock

#### 3.4.1.1 Request Body

Content Type	Reference
application/json;charset=utf-8	CheckProductStock_Create

Table 3.28: Request Body of POST checkProductStock.

#### 3.4.1.2 Responses

Code	Description	Content
200	Success	CheckProductStock
201	Created	CheckProductStock
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.29: Responses of POST checkProductStock.



### 3.4.2 GET /checkProductStock/{id}

**Absolute Path:** /stock/v2/checkProductStock/{id}

**TOD Reference:** TOD-05-04-01-Check\_Product\_Stock

**Summary:** Retrieves a CheckProductStock by ID

#### 3.4.2.1 Parameters

Name	Type	Required	Description
id	string	Yes	Identifier of the CheckProductStock
fields	string	No	Comma-separated properties to provide in response

Table 3.30: Parameters of GET checkProductStock/{id}.

#### 3.4.2.2 Responses

Code	Description	Content
200	Success	CheckProductStock
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.31: Responses of GET checkProductStock/{id}.

## 3.5 customerBill (/customerBillManagement)

Operations for CustomerBill Resource

### 3.5.1 GET /customerBill

**Absolute Path:** /customerBillManagement/v2/customerBill

**TOD Reference:** TOD-03-03-04-View\_All\_Customer\_Bills

**Summary:** List or find CustomerBill objects

#### 3.5.1.1 Parameters

Name	Type	Required	Description
fields	string	No	Comma-separated properties to be provided in response
offset	integer	No	Requested index for start of resources to be provided in response
limit	integer	No	Requested number of resources to be provided in response

Table 3.32: Parameters of GET customerBill.

#### 3.5.1.2 Responses

Code	Description	Content
200	Success	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
500	Internal Server Error	Error
501	Not Implemented	Error
503	Service Unavailable	Error

Table 3.33: Responses of GET customerBill.

### 3.5.2 POST /customerBill

**Absolute Path:** /customerBillManagement/v2/customerBill

**TOD Reference:** TOD-03-03-01-Create\_Customer\_Bill

**Summary:** Creates a CustomerBill

#### 3.5.2.1 Parameters

Name	Type	Required	Description
fields	string	No	Comma-separated properties to be provided in response

Table 3.34: Parameters of POST customerBill.

#### 3.5.2.2 Request Body

Content Type	Reference
application/json;charset=utf-8	CustomerBill_FVO

Table 3.35: Request Body of POST customerBill.

#### 3.5.2.3 Responses

Code	Description	Content
201	OK/Created	CustomerBill
202	Accepted	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error
501	Not Implemented	Error
503	Service Unavailable	Error

Table 3.36: Responses of POST customerBill.

### 3.5.3 GET /customerBill/{id}

**Absolute Path:** /customerBillManagement/v2/customerBill/{id}

**TOD Reference:** TOD-03-03-View\_Customer\_Bill

**Summary:** Retrieves a CustomerBill by ID

#### 3.5.3.1 Parameters

Name	Type	Required	Description
id	string	Yes	Identifier of the Resource
fields	string	No	Comma-separated properties to be provided in response

Table 3.37: Parameters of GET customerBill/{id}.

#### 3.5.3.2 Responses

Code	Description	Content
200	Success	CustomerBill
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
500	Internal Server Error	Error
501	Not Implemented	Error
503	Service Unavailable	Error

Table 3.38: Responses of GET customerBill/{id}.

### 3.5.4 DELETE /customerBill/{id}

**Absolute Path:** /customerBillManagement/v2/customerBill/{id}

**TOD Reference:** TOD-03-03-05-Withdraw\_Customer\_Bill

**Summary:** Deletes a CustomerBill

#### 3.5.4.1 Parameters

Name	Type	Required	Description
id	string	Yes	Identifier of the Resource

Table 3.39: Parameters of DELETE customerBill/{id}.

#### 3.5.4.2 Responses

Code	Description	Content
202	Accepted	N/A
204	Deleted	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error
501	Not Implemented	Error
503	Service Unavailable	Error

Table 3.40: Responses of DELETE customerBill/{id}.

### 3.5.5 PATCH /customerBill/{id}

**Absolute Path:** /customerBillManagement/v2/customerBill/{id}

**TOD Reference:** TOD-03-03-02-Update\_Customer\_Bill

**Summary:** Updates partially a CustomerBill

#### 3.5.5.1 Parameters

Name	Type	Required	Description
id	string	Yes	Identifier of the Resource
fields	string	No	Comma-separated properties to be provided in response

Table 3.41: Parameters of PATCH customerBill/{id}.

#### 3.5.5.2 Request Body

Content Type	Reference
application/json	CustomerBill_MVO
application/merge-patch+json	CustomerBill_MVO
application/json-patch+json	JsonPatchOperations
application/json-patch-query+json	JsonPatchOperations

Table 3.42: Request Body of PATCH customerBill/{id}.

#### 3.5.5.3 Responses

Code	Description	Content
200	Success	CustomerBill
202	Accepted	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Code	Description	Content
501	Not Implemented	Error
503	Service Unavailable	Error

Table 3.43: Responses of PATCH customerBill/{id}.



## 3.6 customerInquiry (/customerInquiry)

Customer Inquiry API

### 3.6.1 POST /customerInquiry

**Absolute Path:** /customerInquiry/v2/customerInquiry

**TOD Reference:** TOD-03-01-01-Create\_Customer\_Inquiry

**Summary:** Creates a CustomerInquiry

#### 3.6.1.1 Request Body

Content Type	Reference
application/json	CustomerInquiry_FVO

Table 3.44: Request Body of POST customerInquiry.

#### 3.6.1.2 Responses

Code	Description	Content
202	Accepted	CustomerInquiry
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.45: Responses of POST customerInquiry.

## 3.6.2 GET /customerInquiry/{id}

**Absolute Path:** /customerInquiry/v2/customerInquiry/{id}

**TOD Reference:** TOD-03-01-02-View\_Customer\_Inquiry

**Summary:** Retrieves a CustomerInquiry

### 3.6.2.1 Parameters

Name	Type	Required	Description
id	string	Yes	Identifier of the CustomerInquiry

Table 3.46: Parameters of GET customerInquiry/{id}.

### 3.6.2.2 Responses

Code	Description	Content
200	OK	CustomerInquiry
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.47: Responses of GET customerInquiry/{id}.

### 3.6.3 DELETE /customerInquiry/{id}

**Absolute Path:** /customerInquiry/v2/customerInquiry/{id}

**TOD Reference:** TOD-03-01-05-Cancel\_Customer\_Inquiry

**Summary:** Cancels a CustomerInquiry

#### 3.6.3.1 Parameters

Name	Type	Required	Description
id	string	Yes	Identifier of the CustomerInquiry

Table 3.48: Parameters of DELETE customerInquiry/{id}.

#### 3.6.3.2 Responses

Code	Description	Content
204	Deleted	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.49: Responses of DELETE customerInquiry/{id}.

### 3.6.4 PATCH /customerInquiry/{id}

**Absolute Path:** /customerInquiry/v2/customerInquiry/{id}

**TOD Reference:** TOD-03-01-04-Update\_Customer\_Inquiry

**Summary:** Updates partially a CustomerInquiry

#### 3.6.4.1 Parameters

Name	Type	Required	Description
id	string	Yes	Identifier of the CustomerInquiry

Table 3.50: Parameters of PATCH customerInquiry/{id}.

#### 3.6.4.2 Request Body

Content Type	Reference
application/json	CustomerInquiry_MVO

Table 3.51: Request Body of PATCH customerInquiry/{id}.

#### 3.6.4.3 Responses

Code	Description	Content
202	Update Accepted	CustomerInquiry
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.52: Responses of PATCH customerInquiry/{id}.

### 3.6.5 GET /customerInquiry/{id}/results

**Absolute Path:** /customerInquiry/v2/customerInquiry/{id}/results

**TOD Reference:** TOD-03-01-03-View\_Inquiry\_Results

**Summary:** Retrieves the InquiryResults matching the CustomerInquiry

#### 3.6.5.1 Parameters

Name	Type	Required	Description
id	string	Yes	Identifier of the CustomerInquiry
fields	string	No	Comma-separated properties to be provided in response
offset	integer	No	Requested index for start of resources to be provided in response
limit	integer	No	Requested number of resources to be provided in response

Table 3.53: Parameters of GET customerInquiry/{id}/results.

#### 3.6.5.2 Responses

Code	Description	Content
200	Success	N/A
204	No content can be provided, because the inquiry is not yet processed.	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.54: Responses of GET customerInquiry/{id}/results.

## 3.7 document (/document)

Operations for Document Resource

### 3.7.1 GET /document

**Absolute Path:** /document/v2/document

**Summary:** List or find Document objects

#### 3.7.1.1 Parameters

Name	Type	Required	Description
fields	string	No	Comma-separated properties to be provided in response
offset	integer	No	Requested index for start of resources to be provided in response
limit	integer	No	Requested number of resources to be provided in response

Table 3.55: Parameters of GET document.

#### 3.7.1.2 Responses

Code	Description	Content
200	Success	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
500	Internal Server Error	Error
501	Not Implemented	Error
503	Service Unavailable	Error

Table 3.56: Responses of GET document.

## 3.7.2 POST /document

**Absolute Path:** /document/v2/document

**Summary:** Creates a Document

### 3.7.2.1 Parameters

Name	Type	Required	Description
fields	string	No	Comma-separated properties to be provided in response

Table 3.57: Parameters of POST document.

### 3.7.2.2 Request Body

Content Type	Reference
application/json	Document_FVO

Table 3.58: Request Body of POST document.

### 3.7.2.3 Responses

Code	Description	Content
201	OK/Created	Document
202	Accepted	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error
501	Not Implemented	Error
503	Service Unavailable	Error

Table 3.59: Responses of POST document.

### 3.7.3 GET /document/{id}

**Absolute Path:** /document/v2/document/{id}

**Summary:** Retrieves a Document by ID

#### 3.7.3.1 Parameters

Name	Type	Required	Description
id	string	Yes	Identifier of the Resource
fields	string	No	Comma-separated properties to be provided in response

Table 3.60: Parameters of GET document/{id}.

#### 3.7.3.2 Responses

Code	Description	Content
200	Success	Document
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
500	Internal Server Error	Error
501	Not Implemented	Error
503	Service Unavailable	Error

Table 3.61: Responses of GET document/{id}.



### 3.7.4 DELETE /document/{id}

**Absolute Path:** /document/v2/document/{id}

**Summary:** Deletes a Document

#### 3.7.4.1 Parameters

Name	Type	Required	Description
id	string	Yes	Identifier of the Resource

Table 3.62: Parameters of DELETE document/{id}.

#### 3.7.4.2 Responses

Code	Description	Content
202	Accepted	N/A
204	Deleted	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error
501	Not Implemented	Error
503	Service Unavailable	Error

Table 3.63: Responses of DELETE document/{id}.

### 3.7.5 PATCH /document/{id}

**Absolute Path:** /document/v2/document/{id}

**Summary:** Updates partially a Document

#### 3.7.5.1 Parameters

Name	Type	Required	Description
id	string	Yes	Identifier of the Resource
fields	string	No	Comma-separated properties to be provided in response

Table 3.64: Parameters of PATCH document/{id}.

#### 3.7.5.2 Request Body

Content Type	Reference
application/json	Document_MVO
application/merge-patch+json	Document_MVO
application/json-patch+json	JsonPatchOperations
application/json-patch-query+json	JsonPatchOperations

Table 3.65: Request Body of PATCH document/{id}.

#### 3.7.5.3 Responses

Code	Description	Content
200	Success	Document
202	Accepted	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error
501	Not Implemented	Error

Code	Description	Content
503	Service Unavailable	Error

Table 3.66: Responses of PATCH document/{id}.

## 3.8 event (/event)

Event Listener API

### 3.8.1 GET /topic/{topicId}/event

**Absolute Path:** /event/v2/topic/{topicId}/event

**Summary:** List or find Event objects

#### 3.8.1.1 Parameters

Name	Type	Required	Description
topicId	string	Yes	Identifier of the parent Topic entity
fields	string	No	Comma-separated properties to be provided in response
offset	integer	No	Requested index for start of resources to be provided in response
limit	integer	No	Requested number of resources to be provided in response

Table 3.67: Parameters of GET topic/{topicId}/event.

#### 3.8.1.2 Responses

Code	Description	Content
200	Success	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.68: Responses of GET topic/{topicId}/event.

## 3.8.2 POST /topic/{topicId}/event

**Absolute Path:** /event/v2/topic/{topicId}/event

**Summary:** Creates a Event

### 3.8.2.1 Parameters

Name	Type	Required	Description
topicId	string	Yes	Identifier of the parent Topic entity

Table 3.69: Parameters of POST topic/{topicId}/event.

### 3.8.2.2 Request Body

Content Type	Reference
application/json; charset=utf-8	Event_Create

Table 3.70: Request Body of POST topic/{topicId}/event.

### 3.8.2.3 Responses

Code	Description	Content
201	Created	Event
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.71: Responses of POST topic/{topicId}/event.

## 3.9 hub (/event)

Event Hub API

### 3.9.1 GET /topic/{topicId}/hub

**Absolute Path:** /event/v2/topic/{topicId}/hub

**Summary:** List or find Hub subscription objects

#### 3.9.1.1 Parameters

Name	Type	Required	Description
topicId	string	Yes	Identifier of the parent Topic entity
fields	string	No	Comma-separated properties to be provided in response
offset	integer	No	Requested index for start of resources to be provided in response
limit	integer	No	Requested number of resources to be provided in response

Table 3.72: Parameters of GET topic/{topicId}/hub.

#### 3.9.1.2 Responses

Code	Description	Content
200	Success	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.73: Responses of GET topic/{topicId}/hub.

## 3.9.2 POST /topic/{topicId}/hub

**Absolute Path:** /event/v2/topic/{topicId}/hub

**Summary:** Register listener to a Hub

### 3.9.2.1 Parameters

Name	Type	Required	Description
topicId	string	Yes	Identifier of the parent Topic entity

Table 3.74: Parameters of POST topic/{topicId}/hub.

### 3.9.2.2 Request Body

Content Type	Reference
application/json; charset=utf-8	HubSubscription_Create

Table 3.75: Request Body of POST topic/{topicId}/hub.

### 3.9.2.3 Responses

Code	Description	Content
201	Created	HubSubscription
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.76: Responses of POST topic/{topicId}/hub.

### 3.9.3 DELETE /topic/{topicId}/hub/{id}

**Absolute Path:** /event/v2/topic/{topicId}/hub/{id}

**Summary:** Unregister listener from a Hub

#### 3.9.3.1 Parameters

Name	Type	Required	Description
topicId	string	Yes	Identifier of the parent Topic entity
id	string	Yes	Identifier of the Hub

Table 3.77: Parameters of DELETE topic/{topicId}/hub/{id}.

#### 3.9.3.2 Responses

Code	Description	Content
204	Deleted	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.78: Responses of DELETE topic/{topicId}/hub/{id}.



## 3.10 individual (/partyManagement)

Operations for Individual Resource

### 3.10.1 GET /individual

**Absolute Path:** /partyManagement/v2/individual

**TOD Reference:** TOD-01-01-05-View\_All\_Party\_Profiles

**Summary:** List or find Individual objects

#### 3.10.1.1 Parameters

Name	Type	Required	Description
fields	string	No	Comma-separated properties to be provided in response
offset	integer	No	Requested index for start of resources to be provided in response
limit	integer	No	Requested number of resources to be provided in response

Table 3.79: Parameters of GET individual.

#### 3.10.1.2 Responses

Code	Description	Content
200	Success	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
500	Internal Server Error	Error
501	Not Implemented	Error
503	Service Unavailable	Error

Table 3.80: Responses of GET individual.

## 3.10.2 POST /individual

**Absolute Path:** /partyManagement/v2/individual

**TOD Reference:** TOD-01-01-01-Create\_Party\_Profile

**Summary:** Creates a Individual

### 3.10.2.1 Parameters

Name	Type	Required	Description
fields	string	No	Comma-separated properties to be provided in response

Table 3.81: Parameters of POST individual.

### 3.10.2.2 Request Body

Content Type	Reference
application/json	Individual_FVO

Table 3.82: Request Body of POST individual.

### 3.10.2.3 Responses

Code	Description	Content
201	OK/Created	Individual
202	Accepted	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error
501	Not Implemented	Error
503	Service Unavailable	Error

Table 3.83: Responses of POST individual.

### 3.10.3 GET /individual/{id}

**Absolute Path:** /partyManagement/v2/individual/{id}

**TOD Reference:** TOD-01-01-04-View\_Party\_Profile

**Summary:** Retrieves a Individual by ID

#### 3.10.3.1 Parameters

Name	Type	Required	Description
id	string	Yes	Identifier of the Resource
fields	string	No	Comma-separated properties to be provided in response

Table 3.84: Parameters of GET individual/{id}.

#### 3.10.3.2 Responses

Code	Description	Content
200	Success	Individual
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
500	Internal Server Error	Error
501	Not Implemented	Error
503	Service Unavailable	Error

Table 3.85: Responses of GET individual/{id}.

### 3.10.4 DELETE /individual/{id}

**Absolute Path:** /partyManagement/v2/individual/{id}

**TOD Reference:** TOD-01-01-03-Remove\_Party\_Profile

**Summary:** Deletes a Individual

#### 3.10.4.1 Parameters

Name	Type	Required	Description
id	string	Yes	Identifier of the Resource

Table 3.86: Parameters of DELETE individual/{id}.

#### 3.10.4.2 Responses

Code	Description	Content
202	Accepted	N/A
204	Deleted	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error
501	Not Implemented	Error
503	Service Unavailable	Error

Table 3.87: Responses of DELETE individual/{id}.

### 3.10.5 PATCH /individual/{id}

**Absolute Path:** /partyManagement/v2/individual/{id}

**TOD Reference:** TOD-01-01-02-Update\_Party\_Profile

**Summary:** Updates partially a Individual

#### 3.10.5.1 Parameters

Name	Type	Required	Description
id	string	Yes	Identifier of the Resource
fields	string	No	Comma-separated properties to be provided in response

Table 3.88: Parameters of PATCH individual/{id}.

#### 3.10.5.2 Request Body

Content Type	Reference
application/json	Individual_MVO
application/merge-patch+json	Individual_MVO
application/json-patch+json	JsonPatchOperations
application/json-patch-query+json	JsonPatchOperations

Table 3.89: Request Body of PATCH individual/{id}.

#### 3.10.5.3 Responses

Code	Description	Content
200	Success	Individual
202	Accepted	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Code	Description	Content
501	Not Implemented	Error
503	Service Unavailable	Error

Table 3.90: Responses of PATCH individual/{id}.

## 3.11 keyIndicator (/serviceQualityManagement)

Key Indicator API

### 3.11.1 GET /keyIndicator

**Absolute Path:** /serviceQualityManagement/v2/keyIndicator

**TOD Reference:** TOD-06-03-05-View\_All\_Key\_Indicator

**Summary:** List or find KeyIndicator objects

#### 3.11.1.1 Parameters

Name	Type	Required	Description
fields	string	No	Comma-separated properties to be provided in response
offset	integer	No	Requested index for start of resources to be provided in response
limit	integer	No	Requested number of resources to be provided in response

Table 3.91: Parameters of GET keyIndicator.

#### 3.11.1.2 Responses

Code	Description	Content
200	Success	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
500	Internal Server Error	Error
501	Not Implemented	Error
503	Service Unavailable	Error

Table 3.92: Responses of GET keyIndicator.

### 3.11.2 POST /keyIndicator

**Absolute Path:** /serviceQualityManagement/v2/keyIndicator

**TOD Reference:** TOD-06-03-01-Create\_Key\_Indicator

**Summary:** Creates a KeyIndicator

#### 3.11.2.1 Request Body

Content Type	Reference
application/json; charset=utf-8	KeyIndicator_Create

Table 3.93: Request Body of POST keyIndicator.

#### 3.11.2.2 Responses

Code	Description	Content
201	Created	KeyIndicator
202	Accepted	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error
501	Not Implemented	Error
503	Service Unavailable	Error

Table 3.94: Responses of POST keyIndicator.



### 3.11.3 GET /keyIndicator/{id}

**Absolute Path:** /serviceQualityManagement/v2/keyIndicator/{id}

**TOD Reference:** TOD-06-03-04-View\_Key\_Indicator

**Summary:** Retrieves a KeyIndicator by ID

#### 3.11.3.1 Parameters

Name	Type	Required	Description
id	string	Yes	Identifier of the Resource
fields	string	No	Comma-separated properties to be provided in response

Table 3.95: Parameters of GET keyIndicator/{id}.

#### 3.11.3.2 Responses

Code	Description	Content
200	Success	KeyIndicator
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
500	Internal Server Error	Error
501	Not Implemented	Error
503	Service Unavailable	Error

Table 3.96: Responses of GET keyIndicator/{id}.

### 3.11.4 DELETE /keyIndicator/{id}

**Absolute Path:** /serviceQualityManagement/v2/keyIndicator/{id}

**TOD Reference:** TOD-06-03-03-Remove\_Key\_Indicator

**Summary:** Deletes a KeyIndicator

#### 3.11.4.1 Parameters

Name	Type	Required	Description
id	string	Yes	Identifier of the Resource

Table 3.97: Parameters of DELETE keyIndicator/{id}.

#### 3.11.4.2 Responses

Code	Description	Content
202	Accepted	N/A
204	Deleted	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error
501	Not Implemented	Error
503	Service Unavailable	Error

Table 3.98: Responses of DELETE keyIndicator/{id}.

### 3.11.5 PATCH /keyIndicator/{id}

**Absolute Path:** /serviceQualityManagement/v2/keyIndicator/{id}

**TOD Reference:** TOD-06-03-02-Update\_Key\_Indicator

**Summary:** Updates partially a KeyIndicator

#### 3.11.5.1 Parameters

Name	Type	Required	Description
id	string	Yes	Identifier of the Resource

Table 3.99: Parameters of PATCH keyIndicator/{id}.

#### 3.11.5.2 Request Body

Content Type	Reference
application/json;charset=utf-8	KeyIndicator_Update

Table 3.100: Request Body of PATCH keyIndicator/{id}.

#### 3.11.5.3 Responses

Code	Description	Content
200	Updated	KeyIndicator
202	Accepted	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error
501	Not Implemented	Error
503	Service Unavailable	Error

Table 3.101: Responses of PATCH keyIndicator/{id}.

## 3.12 mission (/missionManagement)

Mission API

### 3.12.1 GET /mission

**Absolute Path:** /missionManagement/v2/mission

**TOD Reference:** TOD-03-04-05-View\_All\_Missions

**Summary:** List or find Mission objects

#### 3.12.1.1 Parameters

Name	Type	Required	Description
fields	string	No	Comma-separated properties to be provided in response
offset	integer	No	Requested index for start of resources to be provided in response
limit	integer	No	Requested number of resources to be provided in response

Table 3.102: Parameters of GET mission.

#### 3.12.1.2 Responses

Code	Description	Content
200	Success	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.103: Responses of GET mission.

## 3.12.2 POST /mission

**Absolute Path:** /missionManagement/v2/mission

**TOD Reference:** TOD-03-04-01-Create\_Mission

**Summary:** Creates a Mission

### 3.12.2.1 Request Body

Content Type	Reference
application/json	Mission_FVO

Table 3.104: Request Body of POST mission.

### 3.12.2.2 Responses

Code	Description	Content
202	Accepted	Mission
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.105: Responses of POST mission.

### 3.12.3 GET /mission/{id}

**Absolute Path:** /missionManagement/v2/mission/{id}

**TOD Reference:** TOD-03-04-04-View\_Mission

**Summary:** Retrieves a Mission

#### 3.12.3.1 Parameters

Name	Type	Required	Description
id	string	Yes	Identifier of the Mission
fields	string	No	Comma-separated properties to provide in response

Table 3.106: Parameters of GET mission/{id}.

#### 3.12.3.2 Responses

Code	Description	Content
200	OK	Mission
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.107: Responses of GET mission/{id}.

### 3.12.4 DELETE /mission/{id}

**Absolute Path:** /missionManagement/v2/mission/{id}

**TOD Reference:** TOD-03-04-03-Remove\_Mission

**Summary:** Deletes a Mission

#### 3.12.4.1 Parameters

Name	Type	Required	Description
id	string	Yes	Identifier of the Mission

Table 3.108: Parameters of DELETE mission/{id}.

#### 3.12.4.2 Responses

Code	Description	Content
204	Deleted	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.109: Responses of DELETE mission/{id}.

### 3.12.5 PATCH /mission/{id}

**Absolute Path:** /missionManagement/v2/mission/{id}

**TOD Reference:** TOD-03-04-02-Update\_Mission

**Summary:** Updates partially a Mission

#### 3.12.5.1 Parameters

Name	Type	Required	Description
id	string	Yes	Identifier of the Mission

Table 3.110: Parameters of PATCH mission/{id}.

#### 3.12.5.2 Request Body

Content Type	Reference
application/json	Mission_MVO

Table 3.111: Request Body of PATCH mission/{id}.

#### 3.12.5.3 Responses

Code	Description	Content
202	Update Accepted	Mission
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.112: Responses of PATCH mission/{id}.



### 3.13 modifyPerformanceJob (/performanceMonitoring)

Performance Monitoring Job API

#### 3.13.1 GET /modifyPerformanceJob

**Absolute Path:** /performanceMonitoring/v2/modifyPerformanceJob

**Summary:** Lists or finds ModifyPerformanceJob objects.

##### 3.13.1.1 Parameters

Name	Type	Required	Description
performanceJobId	string	No	Identifier of Performance Job that is a subject of ModifyPerformanceJob.
state	string	No	State of ModifyPerformanceJob See PerformanceJobProcessStateType definition for details.
creationDate.gt	string	No	Date when the ModifyPerformanceJob was created - greater than.
creationDate.lt	string	No	Date when the ModifyPerformanceJob was created - lower than.
offset	integer	No	Requested index for start of item to be provided in response requested by client. Note that the index starts with "0".
limit	integer	No	Requested number of items to be provided in response requested by client.

Table 3.113: Parameters of GET modifyPerformanceJob.

##### 3.13.1.2 Responses

Code	Description	Content
200	Success	N/A
400	Bad Request	Error400
401	Unauthorized	Error401
403	Forbidden	Error403
422	Unprocessable entity due to the business validation problems	N/A
500	Internal Server Error	Error500
501	Method not implemented.	Error501



Code	Description	Content
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Table 3.114: Responses of GET modifyPerformanceJob.

### 3.13.2 POST /modifyPerformanceJob

**Absolute Path:** /performanceMonitoring/v2/modifyPerformanceJob

**TOD Reference:** TOD-06-04-02-Update\_Performance\_Monitoring\_Job

#### 3.13.2.1 Request Body

Content Type	Reference
application/json;charset=utf-8	ModifyPerformanceJob_Create

Table 3.115: Request Body of POST modifyPerformanceJob.

#### 3.13.2.2 Responses

Code	Description	Content
201	Created	ModifyPerformanceJob
400	Bad Request	Error400
401	Unauthorized	Error401
403	Forbidden	Error403
422	Unprocessable entity due to the business validation problems	N/A
500	Internal Server Error	Error500
501	Method not implemented.	Error501

Table 3.116: Responses of POST modifyPerformanceJob.

### 3.13.3 GET /modifyPerformanceJob/{id}

**Absolute Path:** /performanceMonitoring/v2/modifyPerformanceJob/{id}

**Summary:** Retrieves a ModifyPerformanceJob by ID.

#### 3.13.3.1 Parameters

Name	Type	Required	Description
id	string	Yes	Identifier of the ModifyPerformanceJob

Table 3.117: Parameters of GET modifyPerformanceJob/{id}.

#### 3.13.3.2 Responses

Code	Description	Content
200	Success	ModifyPerformanceJob
400	Bad Request	Error400
401	Unauthorized	Error401
403	Forbidden	Error403
404	Not Found	Error404
500	Internal Server Error	Error500
501	Method not implemented.	Error501

Table 3.118: Responses of GET modifyPerformanceJob/{id}.

## 3.14 organization (/partyManagement)

Operations for Organization Resource

### 3.14.1 GET /organization

**Absolute Path:** /partyManagement/v2/organization

**TOD Reference:** TOD-01-01-05-View\_All\_Party\_Profiles

**Summary:** List or find Organization objects

#### 3.14.1.1 Parameters

Name	Type	Required	Description
fields	string	No	Comma-separated properties to be provided in response
offset	integer	No	Requested index for start of resources to be provided in response
limit	integer	No	Requested number of resources to be provided in response

Table 3.119: Parameters of GET organization.

#### 3.14.1.2 Responses

Code	Description	Content
200	Success	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
500	Internal Server Error	Error
501	Not Implemented	Error
503	Service Unavailable	Error

Table 3.120: Responses of GET organization.

### 3.14.2 POST /organization

**Absolute Path:** /partyManagement/v2/organization

**TOD Reference:** TOD-01-01-01-Create\_Party\_Profile

**Summary:** Creates a Organization

#### 3.14.2.1 Parameters

Name	Type	Required	Description
fields	string	No	Comma-separated properties to be provided in response

Table 3.121: Parameters of POST organization.

#### 3.14.2.2 Request Body

Content Type	Reference
application/json	Organization_FVO

Table 3.122: Request Body of POST organization.

#### 3.14.2.3 Responses

Code	Description	Content
201	OK/Created	Organization
202	Accepted	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error
501	Not Implemented	Error
503	Service Unavailable	Error

Table 3.123: Responses of POST organization.

### 3.14.3 GET /organization/{id}

**Absolute Path:** /partyManagement/v2/organization/{id}

**TOD Reference:** TOD-01-01-04-View\_Party\_Profile

**Summary:** Retrieves a Organization by ID

#### 3.14.3.1 Parameters

Name	Type	Required	Description
id	string	Yes	Identifier of the Resource
fields	string	No	Comma-separated properties to be provided in response

Table 3.124: Parameters of GET organization/{id}.

#### 3.14.3.2 Responses

Code	Description	Content
200	Success	Organization
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
500	Internal Server Error	Error
501	Not Implemented	Error
503	Service Unavailable	Error

Table 3.125: Responses of GET organization/{id}.

### 3.14.4 DELETE /organization/{id}

**Absolute Path:** /partyManagement/v2/organization/{id}

**TOD Reference:** TOD-01-01-03-Remove\_Party\_Profile

**Summary:** Deletes a Organization

#### 3.14.4.1 Parameters

Name	Type	Required	Description
id	string	Yes	Identifier of the Resource

Table 3.126: Parameters of DELETE organization/{id}.

#### 3.14.4.2 Responses

Code	Description	Content
202	Accepted	N/A
204	Deleted	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error
501	Not Implemented	Error
503	Service Unavailable	Error

Table 3.127: Responses of DELETE organization/{id}.



### 3.14.5 PATCH /organization/{id}

**Absolute Path:** /partyManagement/v2/organization/{id}

**TOD Reference:** TOD-01-01-02-Update\_Party\_Profile

**Summary:** Updates partially a Organization

#### 3.14.5.1 Parameters

Name	Type	Required	Description
id	string	Yes	Identifier of the Resource
fields	string	No	Comma-separated properties to be provided in response

Table 3.128: Parameters of PATCH organization/{id}.

#### 3.14.5.2 Request Body

Content Type	Reference
application/json	Organization_MVO
application/merge-patch+json	Organization_MVO
application/json-patch+json	JsonPatchOperations
application/json-patch-query+json	JsonPatchOperations

Table 3.129: Request Body of PATCH organization/{id}.

#### 3.14.5.3 Responses

Code	Description	Content
200	Success	Organization
202	Accepted	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Code	Description	Content
501	Not Implemented	Error
503	Service Unavailable	Error

Table 3.130: Responses of PATCH organization/{id}.

## 3.15 performanceJob (/performanceMonitoring)

Performance Monitoring Job API

### 3.15.1 GET /performanceJob

**Absolute Path:** /performanceMonitoring/v2/performanceJob

**TOD Reference:** TOD-06-04-05-View\_All\_Performance\_Monitoring\_Job

**Summary:** List or find Performance Job objects.

#### 3.15.1.1 Parameters

Name	Type	Required	Description
buyerJobId	string	No	Identifier assigned and understandable by Buyer/Client to facilitate search requests.
performanceProfileId	string	No	Identifier of Performance Profile used as a template for Performance Job.
state	string	No	State of the Performance Job. See <i>PerformanceJobStateType</i> definition for details.
creationDate.gt	string	No	Date when the job was created - greater than.
creationDate.lt	string	No	Date when the job was created - lower than.
jobType	null	No	Type of the Performance Job
granularity	null	No	Sampling rate of the collection of measurements.
reportingPeriod	null	No	Definition of time period during which report will be active and collect measurements.
consumingApplicationId	string	No	Identifier of consuming application.
producingApplicationId	string	No	Identifier of producing application.
jobPriority	string	No	The priority of the Performance Job.
offset	integer	No	Requested index for start of item to be provided in response requested by the client. Note that the index starts with "0".
limit	integer	No	Requested number of resources to be provided in response.

Table 3.131: Parameters of GET performanceJob.

### 3.15.1.2 Responses

Code	Description	Content
200	'OK. ( <a href="https://tools.ietf.org/html/rfc7231#section-6.3.1">https://tools.ietf.org/html/rfc7231#section-6.3.1</a> )'	N/A
400	Bad Request	Error400
401	Unauthorized	Error401
403	Forbidden	Error403
422	Unprocessable entity due to the business validation problems	N/A
500	Internal Server Error	Error500

Table 3.132: Responses of GET performanceJob.

## 3.15.2 POST /performanceJob

**Absolute Path:** /performanceMonitoring/v2/performanceJob

**TOD Reference:** TOD-06-04-01-Create\_Performance\_Monitoring\_Job

**Summary:** Creates a Performance Job.

### 3.15.2.1 Request Body

Content Type	Reference
application/json;charset=utf-8	PerformanceJob_Create

Table 3.133: Request Body of POST performanceJob.

### 3.15.2.2 Responses

Code	Description	Content
201	'Created ( <a href="https://tools.ietf.org/html/rfc7231#section-6.3.2">https://tools.ietf.org/html/rfc7231#section-6.3.2</a> )'	PerformanceJob
400	Bad Request	Error400
401	Unauthorized	Error401
403	Forbidden	Error403
422	Unprocessable entity due to the business validation problems	N/A
500	Internal Server Error	Error500

Table 3.134: Responses of POST performanceJob.

### 3.15.3 GET /performanceJob/{id}

**Absolute Path:** /performanceMonitoring/v2/performanceJob/{id}

**TOD Reference:** TOD-06-04-04-View\_Performance\_Monitoring\_Job

**Summary:** Retrieves a Performance Job by ID.

#### 3.15.3.1 Parameters

Name	Type	Required	Description
id	string	Yes	Identifier of the Performance Job

Table 3.135: Parameters of GET performanceJob/{id}.

#### 3.15.3.2 Responses

Code	Description	Content
200	'OK. ( <a href="https://tools.ietf.org/html/rfc7231#section-6.3.1">https://tools.ietf.org/html/rfc7231#section-6.3.1</a> )'	PerformanceJob
400	Bad Request	Error400
401	Unauthorized	Error401
403	Forbidden	Error403
404	Not Found	Error404
500	Internal Server Error	Error500

Table 3.136: Responses of GET performanceJob/{id}.

## 3.16 performanceJobComplexQuery (/performanceMonitoring)

Performance Monitoring Job API

### 3.16.1 POST /performanceJobComplexQuery

**Absolute Path:** /performanceMonitoring/v2/performanceJobComplexQuery

**TOD Reference:** TOD-06-04-05-View\_All\_Performance\_Monitoring\_Job

**Summary:** Creates a PerformanceJobComplexQuery.

#### 3.16.1.1 Request Body

Content Type	Reference
application/json;charset=utf-8	PerformanceJobComplexQuery_Create

Table 3.137: Request Body of POST performanceJobComplexQuery.

#### 3.16.1.2 Responses

Code	Description	Content
200	'OK. ( <a href="https://tools.ietf.org/html/rfc7231#section-6.3.1">https://tools.ietf.org/html/rfc7231#section-6.3.1</a> )'	N/A
400	Bad Request	Error400
401	Unauthorized	Error401
403	Forbidden	Error403
422	Unprocessable entity due to the business validation problems	N/A
500	Internal Server Error	Error500

Table 3.138: Responses of POST performanceJobComplexQuery.

## 3.17 performanceReport (/performanceMonitoring)

Performance Monitoring Report API

### 3.17.1 GET /performanceReport

**Absolute Path:** /performanceMonitoring/v2/performanceReport

**TOD Reference:** TOD-06-05-03-View\_All\_Performance\_Monitoring\_Report

**Summary:** List or find Performance Report objects.

#### 3.17.1.1 Parameters

Name	Type	Required	Description
performanceJobId	string	No	Identifier of Performance Job that generated Performance Report.
state	string	No	State of the Performance Report. See <code>PerformanceReportStateType</code> definition for details.
creationDate.gt	string	No	Date when the report was created - greater than.
creationDate.lt	string	No	Date when the report was created - lower than.
reportingTime-frame.startDate.gt	string	No	Start date of reporting timeframe - greater than.
reportingTime-frame.startDate.lt	string	No	Start date of reporting timeframe - lower than.
reportingTime-frame.endDate.gt	string	No	End date of reporting timeframe - greater than.
reportingTime-frame.endDate.lt	string	No	End date of reporting timeframe - lower than.
granularity	null	No	Sampling rate of the collection of measurements
outputFormat	null	No	Format of report output
resultFormat	null	No	Type of providing report results
consumingApplicationId	string	No	Identifier of consuming application
producingApplicationId	string	No	Identifier of producing application



Name	Type	Required	Description
offset	integer	No	Requested index for start of item to be provided in response requested by the client. Note that the index starts with "0".
limit	integer	No	Requested number of resources to be provided in response.

Table 3.139: Parameters of GET performanceReport.

### 3.17.1.2 Responses

Code	Description	Content
200	'OK. ( <a href="https://tools.ietf.org/html/rfc7231#section-6.3.1">https://tools.ietf.org/html/rfc7231#section-6.3.1</a> )'	N/A
400	Bad Request	Error400
401	Unauthorized	Error401
403	Forbidden	Error403
422	Unprocessable entity due to the business validation problems	N/A
500	Internal Server Error	Error500

Table 3.140: Responses of GET performanceReport.

## 3.17.2 POST /performanceReport

**Absolute Path:** /performanceMonitoring/v2/performanceReport

**TOD Reference:** TOD-06-05-01-Create\_Performance\_Monitoring\_Report

**Summary:** Creates a Performance Report.

### 3.17.2.1 Request Body

Content Type	Reference
application/json;charset=utf-8	PerformanceReport_Create

Table 3.141: Request Body of POST performanceReport.

### 3.17.2.2 Responses

Code	Description	Content
201	'Created ( <a href="https://tools.ietf.org/html/rfc7231#section-6.3.2">https://tools.ietf.org/html/rfc7231#section-6.3.2</a> )'	PerformanceReport
400	Bad Request	Error400
401	Unauthorized	Error401
403	Forbidden	Error403
422	Unprocessable entity due to the business validation problems	N/A
500	Internal Server Error	Error500

Table 3.142: Responses of POST performanceReport.

### 3.17.3 GET /performanceReport/{id}

**Absolute Path:** /performanceMonitoring/v2/performanceReport/{id}

**TOD Reference:** TOD-06-05-02-View\_Performance\_Monitoring\_Report

**Summary:** Retrieves a Performance Report by ID.

#### 3.17.3.1 Parameters

Name	Type	Required	Description
id	string	Yes	Identifier of the Performance Report to be retrieved.

Table 3.143: Parameters of GET performanceReport/{id}.

#### 3.17.3.2 Responses

Code	Description	Content
200	'OK. ( <a href="https://tools.ietf.org/html/rfc7231#section-6.3.1">https://tools.ietf.org/html/rfc7231#section-6.3.1</a> )'	PerformanceReport
400	Bad Request	Error400
401	Unauthorized	Error401
403	Forbidden	Error403
404	Not Found	Error404
500	Internal Server Error	Error500

Table 3.144: Responses of GET performanceReport/{id}.

## 3.18 performanceReportComplexQuery (/performanceMonitoring)

Performance Monitoring Report API

### 3.18.1 POST /performanceReportComplexQuery

**Absolute Path:** /performanceMonitoring/v2/performanceReportComplexQuery

**TOD Reference:** TOD-06-05-03-View\_All\_Performance\_Monitoring\_Report

**Summary:** Creates a PerformanceReportComplexQuery.

#### 3.18.1.1 Request Body

Content Type	Reference
application/json;charset=utf-8	PerformanceReportComplexQuery_Create

Table 3.145: Request Body of POST performanceReportComplexQuery.

#### 3.18.1.2 Responses

Code	Description	Content
200	'OK. ( <a href="https://tools.ietf.org/html/rfc7231#section-6.3.1">https://tools.ietf.org/html/rfc7231#section-6.3.1</a> )'	N/A
400	Bad Request	Error400
401	Unauthorized	Error401
403	Forbidden	Error403
422	Unprocessable entity due to the business validation problems	N/A
500	Internal Server Error	Error500

Table 3.146: Responses of POST performanceReportComplexQuery.

## 3.19 product (/productInventory)

Operations for Product Resource

### 3.19.1 GET /product

**Absolute Path:** /productInventory/v2/product

**TOD Reference:** TOD-05-03-05-View\_All\_Products

**Summary:** List or find Product objects

#### 3.19.1.1 Parameters

Name	Type	Required	Description
fields	string	No	Comma-separated properties to be provided in response
offset	integer	No	Requested index for start of resources to be provided in response
limit	integer	No	Requested number of resources to be provided in response

Table 3.147: Parameters of GET product.

#### 3.19.1.2 Responses

Code	Description	Content
200	Success	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
500	Internal Server Error	Error
501	Not Implemented	Error
503	Service Unavailable	Error

Table 3.148: Responses of GET product.

### 3.19.2 POST /product

**Absolute Path:** /productInventory/v2/product

**TOD Reference:** TOD-05-03-01-Create\_Product

**Summary:** Creates a Product

#### 3.19.2.1 Parameters

Name	Type	Required	Description
fields	string	No	Comma-separated properties to be provided in response

Table 3.149: Parameters of POST product.

#### 3.19.2.2 Request Body

Content Type	Reference
application/json	Product_FVO

Table 3.150: Request Body of POST product.

#### 3.19.2.3 Responses

Code	Description	Content
201	OK/Created	Product
202	Accepted	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error
501	Not Implemented	Error
503	Service Unavailable	Error

Table 3.151: Responses of POST product.

### 3.19.3 GET /product/{id}

**Absolute Path:** /productInventory/v2/product/{id}

**TOD Reference:** TOD-05-03-04-View\_Product

**Summary:** Retrieves a Product by ID

#### 3.19.3.1 Parameters

Name	Type	Required	Description
id	string	Yes	Identifier of the Resource
fields	string	No	Comma-separated properties to be provided in response

Table 3.152: Parameters of GET product/{id}.

#### 3.19.3.2 Responses

Code	Description	Content
200	Success	Product
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
500	Internal Server Error	Error
501	Not Implemented	Error
503	Service Unavailable	Error

Table 3.153: Responses of GET product/{id}.

### 3.19.4 DELETE /product/{id}

**Absolute Path:** /productInventory/v2/product/{id}

**TOD Reference:** TOD-05-03-03-Remove\_Product

**Summary:** Deletes a Product

#### 3.19.4.1 Parameters

Name	Type	Required	Description
id	string	Yes	Identifier of the Resource

Table 3.154: Parameters of DELETE product/{id}.

#### 3.19.4.2 Responses

Code	Description	Content
202	Accepted	N/A
204	Deleted	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error
501	Not Implemented	Error
503	Service Unavailable	Error

Table 3.155: Responses of DELETE product/{id}.



### 3.19.5 PATCH /product/{id}

**Absolute Path:** /productInventory/v2/product/{id}

**TOD Reference:** TOD-05-03-02-Update\_Product

**Summary:** Updates partially a Product

#### 3.19.5.1 Parameters

Name	Type	Required	Description
id	string	Yes	Identifier of the Resource
fields	string	No	Comma-separated properties to be provided in response

Table 3.156: Parameters of PATCH product/{id}.

#### 3.19.5.2 Request Body

Content Type	Reference
application/json	Product_MVO
application/merge-patch+json	Product_MVO
application/json-patch+json	JsonPatchOperations
application/json-patch-query+json	JsonPatchOperations

Table 3.157: Request Body of PATCH product/{id}.

#### 3.19.5.3 Responses

Code	Description	Content
200	Success	Product
202	Accepted	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Code	Description	Content
501	Not Implemented	Error
503	Service Unavailable	Error

Table 3.158: Responses of PATCH product/{id}.

## 3.20 productOffering (/productCatalogManagement)

Operations for ProductOffering Resource

### 3.20.1 GET /productOffering

**Absolute Path:** /productCatalogManagement/v2/productOffering

**Summary:** List or find ProductOffering objects

#### 3.20.1.1 Parameters

Name	Type	Required	Description
fields	string	No	Comma-separated properties to be provided in response
offset	integer	No	Requested index for start of resources to be provided in response
limit	integer	No	Requested number of resources to be provided in response

Table 3.159: Parameters of GET productOffering.

#### 3.20.1.2 Responses

Code	Description	Content
200	Success	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
500	Internal Server Error	Error
501	Not Implemented	Error
503	Service Unavailable	Error

Table 3.160: Responses of GET productOffering.

## 3.20.2 POST /productOffering

**Absolute Path:** /productCatalogManagement/v2/productOffering

**Summary:** Creates a ProductOffering

### 3.20.2.1 Parameters

Name	Type	Required	Description
fields	string	No	Comma-separated properties to be provided in response

Table 3.161: Parameters of POST productOffering.

### 3.20.2.2 Request Body

Content Type	Reference
application/json	ProductOffering_FVO

Table 3.162: Request Body of POST productOffering.

### 3.20.2.3 Responses

Code	Description	Content
201	OK/Created	ProductOffering
202	Accepted	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error
501	Not Implemented	Error
503	Service Unavailable	Error

Table 3.163: Responses of POST productOffering.

### 3.20.3 GET /productOffering/{id}

**Absolute Path:** /productCatalogManagement/v2/productOffering/{id}

**Summary:** Retrieves a ProductOffering by ID

#### 3.20.3.1 Parameters

Name	Type	Required	Description
id	string	Yes	Identifier of the Resource
fields	string	No	Comma-separated properties to be provided in response

Table 3.164: Parameters of GET productOffering/{id}.

#### 3.20.3.2 Responses

Code	Description	Content
200	Success	ProductOffering
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
500	Internal Server Error	Error
501	Not Implemented	Error
503	Service Unavailable	Error

Table 3.165: Responses of GET productOffering/{id}.

### 3.20.4 DELETE /productOffering/{id}

**Absolute Path:** /productCatalogManagement/v2/productOffering/{id}

**Summary:** Deletes a ProductOffering

#### 3.20.4.1 Parameters

Name	Type	Required	Description
id	string	Yes	Identifier of the Resource

Table 3.166: Parameters of DELETE productOffering/{id}.

#### 3.20.4.2 Responses

Code	Description	Content
202	Accepted	N/A
204	Deleted	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error
501	Not Implemented	Error
503	Service Unavailable	Error

Table 3.167: Responses of DELETE productOffering/{id}.

### 3.20.5 PATCH /productOffering/{id}

**Absolute Path:** /productCatalogManagement/v2/productOffering/{id}

**Summary:** Updates partially a ProductOffering

#### 3.20.5.1 Parameters

Name	Type	Required	Description
id	string	Yes	Identifier of the Resource
fields	string	No	Comma-separated properties to be provided in response

Table 3.168: Parameters of PATCH productOffering/{id}.

#### 3.20.5.2 Request Body

Content Type	Reference
application/json	ProductOffering_MVO
application/merge-patch+json	ProductOffering_MVO
application/json-patch+json	JsonPatchOperations
application/json-patch-query+json	JsonPatchOperations

Table 3.169: Request Body of PATCH productOffering/{id}.

#### 3.20.5.3 Responses

Code	Description	Content
200	Success	ProductOffering
202	Accepted	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error
501	Not Implemented	Error

Code	Description	Content
503	Service Unavailable	Error

Table 3.170: Responses of PATCH productOffering/{id}.



## 3.21 productOrder (/productOrdering)

Operations for ProductOrder Resource

### 3.21.1 GET /productOrder

**Absolute Path:** /productOrdering/v2/productOrder

**TOD Reference:** TOD-03-02-04-View\_All\_Product\_Orders

**Summary:** List or find ProductOrder objects

#### 3.21.1.1 Parameters

Name	Type	Required	Description
fields	string	No	Comma-separated properties to be provided in response
offset	integer	No	Requested index for start of resources to be provided in response
limit	integer	No	Requested number of resources to be provided in response

Table 3.171: Parameters of GET productOrder.

#### 3.21.1.2 Responses

Code	Description	Content
200	Success	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
500	Internal Server Error	Error
501	Not Implemented	Error
503	Service Unavailable	Error

Table 3.172: Responses of GET productOrder.

## 3.21.2 POST /productOrder

**Absolute Path:** /productOrdering/v2/productOrder

**TOD Reference:** TOD-03-02-01-Create\_Product\_Order

**Summary:** Creates a ProductOrder

### 3.21.2.1 Parameters

Name	Type	Required	Description
fields	string	No	Comma-separated properties to be provided in response

Table 3.173: Parameters of POST productOrder.

### 3.21.2.2 Request Body

Content Type	Reference
application/json	ProductOrder_FVO

Table 3.174: Request Body of POST productOrder.

### 3.21.2.3 Responses

Code	Description	Content
201	OK/Created	ProductOrder
202	Accepted	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error
501	Not Implemented	Error
503	Service Unavailable	Error

Table 3.175: Responses of POST productOrder.

### 3.21.3 GET /productOrder/{id}

**Absolute Path:** /productOrdering/v2/productOrder/{id}

**TOD Reference:** TOD-03-02-03-View\_Product\_Order

**Summary:** Retrieves a ProductOrder by ID

#### 3.21.3.1 Parameters

Name	Type	Required	Description
id	string	Yes	Identifier of the Resource
fields	string	No	Comma-separated properties to be provided in response

Table 3.176: Parameters of GET productOrder/{id}.

#### 3.21.3.2 Responses

Code	Description	Content
200	Success	ProductOrder
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
500	Internal Server Error	Error
501	Not Implemented	Error
503	Service Unavailable	Error

Table 3.177: Responses of GET productOrder/{id}.

### 3.21.4 DELETE /productOrder/{id}

**Absolute Path:** /productOrdering/v2/productOrder/{id}

**Summary:** Deletes a ProductOrder

#### 3.21.4.1 Parameters

Name	Type	Required	Description
id	string	Yes	Identifier of the Resource

Table 3.178: Parameters of DELETE productOrder/{id}.

#### 3.21.4.2 Responses

Code	Description	Content
202	Accepted	N/A
204	Deleted	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error
501	Not Implemented	Error
503	Service Unavailable	Error

Table 3.179: Responses of DELETE productOrder/{id}.

### 3.21.5 PATCH /productOrder/{id}

**Absolute Path:** /productOrdering/v2/productOrder/{id}

**TOD Reference:** TOD-03-02-02-Update\_Product\_Order

**Summary:** Updates partially a ProductOrder

#### 3.21.5.1 Parameters

Name	Type	Required	Description
id	string	Yes	Identifier of the Resource
fields	string	No	Comma-separated properties to be provided in response

Table 3.180: Parameters of PATCH productOrder/{id}.

#### 3.21.5.2 Request Body

Content Type	Reference
application/json	ProductOrder_MVO
application/merge-patch+json	ProductOrder_MVO
application/json-patch+json	JsonPatchOperations
application/json-patch-query+json	JsonPatchOperations

Table 3.181: Request Body of PATCH productOrder/{id}.

#### 3.21.5.3 Responses

Code	Description	Content
200	Success	ProductOrder
202	Accepted	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Code	Description	Content
501	Not Implemented	Error
503	Service Unavailable	Error

Table 3.182: Responses of PATCH productOrder/{id}.

## 3.22 productSpecification (/productCatalogManagement)

Operations for ProductSpecification Resource

### 3.22.1 GET /productSpecification

**Absolute Path:** /productCatalogManagement/v2/productSpecification

**Summary:** List or find ProductSpecification objects

#### 3.22.1.1 Parameters

Name	Type	Required	Description
fields	string	No	Comma-separated properties to be provided in response
offset	integer	No	Requested index for start of resources to be provided in response
limit	integer	No	Requested number of resources to be provided in response

Table 3.183: Parameters of GET productSpecification.

#### 3.22.1.2 Responses

Code	Description	Content
200	Success	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
500	Internal Server Error	Error
501	Not Implemented	Error
503	Service Unavailable	Error

Table 3.184: Responses of GET productSpecification.

### 3.22.2 POST /productSpecification

**Absolute Path:** /productCatalogManagement/v2/productSpecification

**Summary:** Creates a ProductSpecification

#### 3.22.2.1 Parameters

Name	Type	Required	Description
fields	string	No	Comma-separated properties to be provided in response

Table 3.185: Parameters of POST productSpecification.

#### 3.22.2.2 Request Body

Content Type	Reference
application/json	ProductSpecification_FVO

Table 3.186: Request Body of POST productSpecification.

#### 3.22.2.3 Responses

Code	Description	Content
201	OK/Created	ProductSpecification
202	Accepted	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error
501	Not Implemented	Error
503	Service Unavailable	Error

Table 3.187: Responses of POST productSpecification.



### 3.22.3 GET /productSpecification/{id}

**Absolute Path:** /productCatalogManagement/v2/productSpecification/{id}

**Summary:** Retrieves a ProductSpecification by ID

#### 3.22.3.1 Parameters

Name	Type	Required	Description
id	string	Yes	Identifier of the Resource
fields	string	No	Comma-separated properties to be provided in response

Table 3.188: Parameters of GET productSpecification/{id}.

#### 3.22.3.2 Responses

Code	Description	Content
200	Success	ProductSpecification
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
500	Internal Server Error	Error
501	Not Implemented	Error
503	Service Unavailable	Error

Table 3.189: Responses of GET productSpecification/{id}.

### 3.22.4 DELETE /productSpecification/{id}

**Absolute Path:** /productCatalogManagement/v2/productSpecification/{id}

**Summary:** Deletes a ProductSpecification

#### 3.22.4.1 Parameters

Name	Type	Required	Description
id	string	Yes	Identifier of the Resource

Table 3.190: Parameters of DELETE productSpecification/{id}.

#### 3.22.4.2 Responses

Code	Description	Content
202	Accepted	N/A
204	Deleted	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error
501	Not Implemented	Error
503	Service Unavailable	Error

Table 3.191: Responses of DELETE productSpecification/{id}.

### 3.22.5 PATCH /productSpecification/{id}

**Absolute Path:** /productCatalogManagement/v2/productSpecification/{id}

**Summary:** Updates partially a ProductSpecification

#### 3.22.5.1 Parameters

Name	Type	Required	Description
id	string	Yes	Identifier of the Resource
fields	string	No	Comma-separated properties to be provided in response

Table 3.192: Parameters of PATCH productSpecification/{id}.

#### 3.22.5.2 Request Body

Content Type	Reference
application/json	ProductSpecification_MVO
application/merge-patch+json	ProductSpecification_MVO
application/json-patch+json	JsonPatchOperations
application/json-patch-query+json	JsonPatchOperations

Table 3.193: Request Body of PATCH productSpecification/{id}.

#### 3.22.5.3 Responses

Code	Description	Content
200	Success	ProductSpecification
202	Accepted	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error
501	Not Implemented	Error

Code	Description	Content
503	Service Unavailable	Error

Table 3.194: Responses of PATCH productSpecification/{id}.

## 3.23 productTemplate (/productCatalogManagement)

Operations for ProductTemplate Resource

### 3.23.1 GET /productTemplate

**Absolute Path:** /productCatalogManagement/v2/productTemplate

**Summary:** List or find ProductTemplate objects

#### 3.23.1.1 Parameters

Name	Type	Required	Description
fields	string	No	Comma-separated properties to be provided in response
offset	integer	No	Requested index for start of resources to be provided in response
limit	integer	No	Requested number of resources to be provided in response

Table 3.195: Parameters of GET productTemplate.

#### 3.23.1.2 Responses

Code	Description	Content
200	Success	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
500	Internal Server Error	Error
501	Not Implemented	Error
503	Service Unavailable	Error

Table 3.196: Responses of GET productTemplate.

### 3.23.2 POST /productTemplate

**Absolute Path:** /productCatalogManagement/v2/productTemplate

**Summary:** Creates a ProductTemplate

#### 3.23.2.1 Parameters

Name	Type	Required	Description
fields	string	No	Comma-separated properties to be provided in response

Table 3.197: Parameters of POST productTemplate.

#### 3.23.2.2 Request Body

Content Type	Reference
application/json	ProductSpecification_FVO

Table 3.198: Request Body of POST productTemplate.

#### 3.23.2.3 Responses

Code	Description	Content
201	OK/Created	ProductSpecification
202	Accepted	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error
501	Not Implemented	Error
503	Service Unavailable	Error

Table 3.199: Responses of POST productTemplate.

### 3.23.3 GET /productTemplate/{id}

**Absolute Path:** /productCatalogManagement/v2/productTemplate/{id}

**Summary:** Retrieves a ProductTemplate by ID

#### 3.23.3.1 Parameters

Name	Type	Required	Description
id	string	Yes	Identifier of the Resource
fields	string	No	Comma-separated properties to be provided in response

Table 3.200: Parameters of GET productTemplate/{id}.

#### 3.23.3.2 Responses

Code	Description	Content
200	Success	ProductSpecification
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
500	Internal Server Error	Error
501	Not Implemented	Error
503	Service Unavailable	Error

Table 3.201: Responses of GET productTemplate/{id}.

### 3.23.4 DELETE /productTemplate/{id}

**Absolute Path:** /productCatalogManagement/v2/productTemplate/{id}

**Summary:** Deletes a ProductTemplate

#### 3.23.4.1 Parameters

Name	Type	Required	Description
id	string	Yes	Identifier of the Resource

Table 3.202: Parameters of DELETE productTemplate/{id}.

#### 3.23.4.2 Responses

Code	Description	Content
202	Accepted	N/A
204	Deleted	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error
501	Not Implemented	Error
503	Service Unavailable	Error

Table 3.203: Responses of DELETE productTemplate/{id}.



### 3.23.5 PATCH /productTemplate/{id}

**Absolute Path:** /productCatalogManagement/v2/productTemplate/{id}

**Summary:** Updates partially a ProductTemplate

#### 3.23.5.1 Parameters

Name	Type	Required	Description
id	string	Yes	Identifier of the Resource
fields	string	No	Comma-separated properties to be provided in response

Table 3.204: Parameters of PATCH productTemplate/{id}.

#### 3.23.5.2 Request Body

Content Type	Reference
application/json	ProductSpecification_MVO
application/merge-patch+json	ProductSpecification_MVO
application/json-patch+json	JsonPatchOperations
application/json-patch-query+json	JsonPatchOperations

Table 3.205: Request Body of PATCH productTemplate/{id}.

#### 3.23.5.3 Responses

Code	Description	Content
200	Success	ProductSpecification
202	Accepted	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error
501	Not Implemented	Error

Code	Description	Content
503	Service Unavailable	Error

Table 3.206: Responses of PATCH productTemplate/{id}.

## 3.24 resource (/resourceInventory)

Operations for Resource Resource

### 3.24.1 GET /resource

**Absolute Path:** /resourceInventory/v2/resource

**TOD Reference:** TOD-05-01-05-View\_All\_Resources

**Summary:** List or find Resource objects

#### 3.24.1.1 Parameters

Name	Type	Required	Description
fields	string	No	Comma-separated properties to be provided in response
offset	integer	No	Requested index for start of resources to be provided in response
limit	integer	No	Requested number of resources to be provided in response
before	string	No	An opaque string value representing the page results before the cursor value
after	string	No	An opaque string value representing the page results after the cursor value
sort	string	No	The default direction is Ascending order, the use of the modifier in front of the sort field name, "-", changes the sort order direction.
filter	string	No	Filter a collection using JSONPath

Table 3.207: Parameters of GET resource.

#### 3.24.1.2 Responses

Code	Description	Content
200	Success	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error

Code	Description	Content
500	Internal Server Error	Error
501	Not Implemented	Error
503	Service Unavailable	Error

Table 3.208: Responses of GET resource.

## 3.24.2 POST /resource

**Absolute Path:** /resourceInventory/v2/resource

**TOD Reference:** TOD-05-01-01-Create\_Resource

**Summary:** Creates a Resource

### 3.24.2.1 Parameters

Name	Type	Required	Description
fields	string	No	Comma-separated properties to be provided in response

Table 3.209: Parameters of POST resource.

### 3.24.2.2 Request Body

Content Type	Reference
application/json	Resource_FVO

Table 3.210: Request Body of POST resource.

### 3.24.2.3 Responses

Code	Description	Content
201	OK/Created	Resource
202	Accepted	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error
501	Not Implemented	Error
503	Service Unavailable	Error

Table 3.211: Responses of POST resource.

### 3.24.3 GET /resource/{id}

**Absolute Path:** /resourceInventory/v2/resource/{id}

**TOD Reference:** TOD-05-01-04-View\_Resource

**Summary:** Retrieves a Resource by ID

#### 3.24.3.1 Parameters

Name	Type	Required	Description
id	string	Yes	Identifier of the Resource
fields	string	No	Comma-separated properties to be provided in response

Table 3.212: Parameters of GET resource/{id}.

#### 3.24.3.2 Responses

Code	Description	Content
200	Success	Resource
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
500	Internal Server Error	Error
501	Not Implemented	Error
503	Service Unavailable	Error

Table 3.213: Responses of GET resource/{id}.

### 3.24.4 DELETE /resource/{id}

**Absolute Path:** /resourceInventory/v2/resource/{id}

**TOD Reference:** TOD-05-01-03-Remove\_Resource

**Summary:** Deletes a Resource

#### 3.24.4.1 Parameters

Name	Type	Required	Description
id	string	Yes	Identifier of the Resource

Table 3.214: Parameters of DELETE resource/{id}.

#### 3.24.4.2 Responses

Code	Description	Content
202	Accepted	N/A
204	Deleted	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error
501	Not Implemented	Error
503	Service Unavailable	Error

Table 3.215: Responses of DELETE resource/{id}.

### 3.24.5 PATCH /resource/{id}

**Absolute Path:** /resourceInventory/v2/resource/{id}

**TOD Reference:** TOD-05-01-02-Update\_Resource

**Summary:** Updates partially a Resource

#### 3.24.5.1 Parameters

Name	Type	Required	Description
id	string	Yes	Identifier of the Resource
fields	string	No	Comma-separated properties to be provided in response

Table 3.216: Parameters of PATCH resource/{id}.

#### 3.24.5.2 Request Body

Content Type	Reference
application/json	Resource_MVO
application/merge-patch+json	Resource_MVO
application/json-patch+json	JsonPatchOperations
application/json-patch-query+json	JsonPatchOperations

Table 3.217: Request Body of PATCH resource/{id}.

#### 3.24.5.3 Responses

Code	Description	Content
200	Success	Resource
202	Accepted	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error



Code	Description	Content
501	Not Implemented	Error
503	Service Unavailable	Error

Table 3.218: Responses of PATCH resource/{id}.

## 3.25 resourceSpecification (/resourceCatalog)

Operations for ResourceSpecification Resource

### 3.25.1 GET /resourceSpecification

**Absolute Path:** /resourceCatalog/v2/resourceSpecification

**TOD Reference:** TOD-02-01-05-View\_All\_Resource\_Specifications

**Summary:** List or find ResourceSpecification objects

#### 3.25.1.1 Parameters

Name	Type	Required	Description
fields	string	No	Comma-separated properties to be provided in response
offset	integer	No	Requested index for start of resources to be provided in response
limit	integer	No	Requested number of resources to be provided in response

Table 3.219: Parameters of GET resourceSpecification.

#### 3.25.1.2 Responses

Code	Description	Content
200	Success	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
500	Internal Server Error	Error
501	Not Implemented	Error
503	Service Unavailable	Error

Table 3.220: Responses of GET resourceSpecification.

## 3.25.2 POST /resourceSpecification

**Absolute Path:** /resourceCatalog/v2/resourceSpecification

**TOD Reference:** TOD-02-01-01-Create\_Resource\_Specification

**Summary:** Creates a ResourceSpecification

### 3.25.2.1 Parameters

Name	Type	Required	Description
fields	string	No	Comma-separated properties to be provided in response

Table 3.221: Parameters of POST resourceSpecification.

### 3.25.2.2 Request Body

Content Type	Reference
application/json	ResourceSpecification_FVO

Table 3.222: Request Body of POST resourceSpecification.

### 3.25.2.3 Responses

Code	Description	Content
201	OK/Created	ResourceSpecification
202	Accepted	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error
501	Not Implemented	Error
503	Service Unavailable	Error

Table 3.223: Responses of POST resourceSpecification.

### 3.25.3 GET /resourceSpecification/{id}

**Absolute Path:** /resourceCatalog/v2/resourceSpecification/{id}

**TOD Reference:** TOD-02-01-04-View\_Resource\_Specification

**Summary:** Retrieves a ResourceSpecification by ID

#### 3.25.3.1 Parameters

Name	Type	Required	Description
id	string	Yes	Identifier of the Resource
fields	string	No	Comma-separated properties to be provided in response

Table 3.224: Parameters of GET resourceSpecification/{id}.

#### 3.25.3.2 Responses

Code	Description	Content
200	Success	ResourceSpecification
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
500	Internal Server Error	Error
501	Not Implemented	Error
503	Service Unavailable	Error

Table 3.225: Responses of GET resourceSpecification/{id}.

### 3.25.4 DELETE /resourceSpecification/{id}

**Absolute Path:** /resourceCatalog/v2/resourceSpecification/{id}

**TOD Reference:** TOD-02-01-03-Remove\_Resource\_Specification

**Summary:** Deletes a ResourceSpecification

#### 3.25.4.1 Parameters

Name	Type	Required	Description
id	string	Yes	Identifier of the Resource

Table 3.226: Parameters of DELETE resourceSpecification/{id}.

#### 3.25.4.2 Responses

Code	Description	Content
202	Accepted	N/A
204	Deleted	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error
501	Not Implemented	Error
503	Service Unavailable	Error

Table 3.227: Responses of DELETE resourceSpecification/{id}.

### 3.25.5 PATCH /resourceSpecification/{id}

**Absolute Path:** /resourceCatalog/v2/resourceSpecification/{id}

**TOD Reference:** TOD-02-01-02-Update\_Resource\_Specification

**Summary:** Updates partially a ResourceSpecification

#### 3.25.5.1 Parameters

Name	Type	Required	Description
id	string	Yes	Identifier of the Resource
fields	string	No	Comma-separated properties to be provided in response

Table 3.228: Parameters of PATCH resourceSpecification/{id}.

#### 3.25.5.2 Request Body

Content Type	Reference
application/json	ResourceSpecification_MVO
application/merge-patch+json	ResourceSpecification_MVO
application/json-patch+json	JsonPatchOperations
application/json-patch-query+json	JsonPatchOperations

Table 3.229: Request Body of PATCH resourceSpecification/{id}.

#### 3.25.5.3 Responses

Code	Description	Content
200	Success	ResourceSpecification
202	Accepted	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Code	Description	Content
501	Not Implemented	Error
503	Service Unavailable	Error

Table 3.230: Responses of PATCH resourceSpecification/{id}.

## 3.26 resourceTemplate (/resourceCatalog)

Operations for ResourceTemplate Resource

### 3.26.1 GET /resourceTemplate

**Absolute Path:** /resourceCatalog/v2/resourceTemplate

**TOD Reference:** TOD-04-01-05-View\_All\_Resource\_Templates

**Summary:** List or find ResourceTemplate objects

#### 3.26.1.1 Parameters

Name	Type	Required	Description
fields	string	No	Comma-separated properties to be provided in response
offset	integer	No	Requested index for start of resources to be provided in response
limit	integer	No	Requested number of resources to be provided in response

Table 3.231: Parameters of GET resourceTemplate.

#### 3.26.1.2 Responses

Code	Description	Content
200	Success	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
500	Internal Server Error	Error
501	Not Implemented	Error
503	Service Unavailable	Error

Table 3.232: Responses of GET resourceTemplate.



## 3.26.2 POST /resourceTemplate

**Absolute Path:** /resourceCatalog/v2/resourceTemplate

**TOD Reference:** TOD-04-01-01-Create\_Resource\_Template

**Summary:** Creates a ResourceTemplate

### 3.26.2.1 Parameters

Name	Type	Required	Description
fields	string	No	Comma-separated properties to be provided in response

Table 3.233: Parameters of POST resourceTemplate.

### 3.26.2.2 Request Body

Content Type	Reference
application/json	ResourceSpecification_FVO

Table 3.234: Request Body of POST resourceTemplate.

### 3.26.2.3 Responses

Code	Description	Content
201	OK/Created	ResourceSpecification
202	Accepted	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error
501	Not Implemented	Error
503	Service Unavailable	Error

Table 3.235: Responses of POST resourceTemplate.

### 3.26.3 GET /resourceTemplate/{id}

**Absolute Path:** /resourceCatalog/v2/resourceTemplate/{id}

**TOD Reference:** TOD-04-01-04-View\_Resource\_Template

**Summary:** Retrieves a ResourceTemplate by ID

#### 3.26.3.1 Parameters

Name	Type	Required	Description
id	string	Yes	Identifier of the Resource
fields	string	No	Comma-separated properties to be provided in response

Table 3.236: Parameters of GET resourceTemplate/{id}.

#### 3.26.3.2 Responses

Code	Description	Content
200	Success	ResourceSpecification
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
500	Internal Server Error	Error
501	Not Implemented	Error
503	Service Unavailable	Error

Table 3.237: Responses of GET resourceTemplate/{id}.

### 3.26.4 DELETE /resourceTemplate/{id}

**Absolute Path:** /resourceCatalog/v2/resourceTemplate/{id}

**TOD Reference:** TOD-04-01-03-Remove\_Resource\_Template

**Summary:** Deletes a ResourceTemplate

#### 3.26.4.1 Parameters

Name	Type	Required	Description
id	string	Yes	Identifier of the Resource

Table 3.238: Parameters of DELETE resourceTemplate/{id}.

#### 3.26.4.2 Responses

Code	Description	Content
202	Accepted	N/A
204	Deleted	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error
501	Not Implemented	Error
503	Service Unavailable	Error

Table 3.239: Responses of DELETE resourceTemplate/{id}.

### 3.26.5 PATCH /resourceTemplate/{id}

**Absolute Path:** /resourceCatalog/v2/resourceTemplate/{id}

**TOD Reference:** TOD-04-01-02-Update\_Resource\_Template

**Summary:** Updates partially a ResourceTemplate

#### 3.26.5.1 Parameters

Name	Type	Required	Description
id	string	Yes	Identifier of the Resource
fields	string	No	Comma-separated properties to be provided in response

Table 3.240: Parameters of PATCH resourceTemplate/{id}.

#### 3.26.5.2 Request Body

Content Type	Reference
application/json	ResourceSpecification_MVO
application/merge-patch+json	ResourceSpecification_MVO
application/json-patch+json	JsonPatchOperations
application/json-patch-query+json	JsonPatchOperations

Table 3.241: Request Body of PATCH resourceTemplate/{id}.

#### 3.26.5.3 Responses

Code	Description	Content
200	Success	ResourceSpecification
202	Accepted	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Code	Description	Content
501	Not Implemented	Error
503	Service Unavailable	Error

Table 3.242: Responses of PATCH resourceTemplate/{id}.

## 3.27 resumePerformanceJob (/performanceMonitoring)

Performance Monitoring Job API

### 3.27.1 GET /resumePerformanceJob

**Absolute Path:** /performanceMonitoring/v2/resumePerformanceJob

**Summary:** Lists or finds ResumePerformanceJob objects

#### 3.27.1.1 Parameters

Name	Type	Required	Description
performanceJobId	string	No	Identifier of Performance Job that is a subject of ResumePerformanceJob.
state	string	No	State of ResumePerformanceJob. See PerformanceJobProcessStateType definition for details.
creationDate.gt	string	No	Date when the ResumePerformanceJob was created - greater than.
creationDate.lt	string	No	Date when the ResumePerformanceJob was created - lower than.
offset	integer	No	Requested index for start of item to be provided in response requested by client. Note that the index starts with "0".
limit	integer	No	Requested number of items to be provided in response requested by client.

Table 3.243: Parameters of GET resumePerformanceJob.

#### 3.27.1.2 Responses

Code	Description	Content
200	Success	N/A
400	Bad Request	Error400
401	Unauthorized	Error401
403	Forbidden	Error403
422	Unprocessable entity due to the business validation problems	N/A
500	Internal Server Error	Error500
501	Method not implemented.	Error501



Code	Description	Content
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Table 3.244: Responses of GET resumePerformanceJob.

## 3.27.2 POST /resumePerformanceJob

**Absolute Path:** /performanceMonitoring/v2/resumePerformanceJob

### 3.27.2.1 Request Body

Content Type	Reference
application/json;charset=utf-8	ResumePerformanceJob_Create

Table 3.245: Request Body of POST resumePerformanceJob.

### 3.27.2.2 Responses

Code	Description	Content
201	Created	ResumePerformanceJob
400	Bad Request	Error400
401	Unauthorized	Error401
403	Forbidden	Error403
422	Unprocessable entity due to the business validation problems	N/A
500	Internal Server Error	Error500
501	Method not implemented.	Error501

Table 3.246: Responses of POST resumePerformanceJob.



### 3.27.3 GET /resumePerformanceJob/{id}

**Absolute Path:** /performanceMonitoring/v2/resumePerformanceJob/{id}

**Summary:** Retrieves a ResumePerformanceJob by ID.

#### 3.27.3.1 Parameters

Name	Type	Required	Description
id	string	Yes	Identifier of the ResumePerformanceJob

Table 3.247: Parameters of GET resumePerformanceJob/{id}.

#### 3.27.3.2 Responses

Code	Description	Content
200	Success	ResumePerformanceJob
400	Bad Request	Error400
401	Unauthorized	Error401
403	Forbidden	Error403
404	Not Found	Error404
500	Internal Server Error	Error500
501	Method not implemented.	Error501

Table 3.248: Responses of GET resumePerformanceJob/{id}.

## 3.28 service (/serviceInventory)

Operations for Service Resource

### 3.28.1 GET /service

**Absolute Path:** /serviceInventory/v2/service

**TOD Reference:** TOD-05-02-05-View\_All\_Services

**Summary:** List or find Service objects

#### 3.28.1.1 Parameters

Name	Type	Required	Description
fields	string	No	Comma-separated properties to be provided in response
offset	integer	No	Requested index for start of resources to be provided in response
limit	integer	No	Requested number of resources to be provided in response

Table 3.249: Parameters of GET service.

#### 3.28.1.2 Responses

Code	Description	Content
200	Success	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
500	Internal Server Error	Error
501	Not Implemented	Error
503	Service Unavailable	Error

Table 3.250: Responses of GET service.

### 3.28.2 POST /service

**Absolute Path:** /serviceInventory/v2/service

**TOD Reference:** TOD-05-02-01-Create\_Service

**Summary:** Creates a Service

#### 3.28.2.1 Parameters

Name	Type	Required	Description
fields	string	No	Comma-separated properties to be provided in response

Table 3.251: Parameters of POST service.

#### 3.28.2.2 Request Body

Content Type	Reference
application/json	Service_FVO

Table 3.252: Request Body of POST service.

#### 3.28.2.3 Responses

Code	Description	Content
201	OK/Created	Service
202	Accepted	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error
501	Not Implemented	Error
503	Service Unavailable	Error

Table 3.253: Responses of POST service.

### 3.28.3 GET /service/{id}

**Absolute Path:** /serviceInventory/v2/service/{id}

**TOD Reference:** TOD-05-02-04-View\_Service

**Summary:** Retrieves a Service by ID

#### 3.28.3.1 Parameters

Name	Type	Required	Description
id	string	Yes	Identifier of the Resource
fields	string	No	Comma-separated properties to be provided in response

Table 3.254: Parameters of GET service/{id}.

#### 3.28.3.2 Responses

Code	Description	Content
200	Success	Service
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
500	Internal Server Error	Error
501	Not Implemented	Error
503	Service Unavailable	Error

Table 3.255: Responses of GET service/{id}.

### 3.28.4 DELETE /service/{id}

**Absolute Path:** /serviceInventory/v2/service/{id}

**TOD Reference:** TOD-05-02-03-Remove\_Service

**Summary:** Deletes a Service

#### 3.28.4.1 Parameters

Name	Type	Required	Description
id	string	Yes	Identifier of the Resource

Table 3.256: Parameters of DELETE service/{id}.

#### 3.28.4.2 Responses

Code	Description	Content
202	Accepted	N/A
204	Deleted	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error
501	Not Implemented	Error
503	Service Unavailable	Error

Table 3.257: Responses of DELETE service/{id}.

### 3.28.5 PATCH /service/{id}

**Absolute Path:** /serviceInventory/v2/service/{id}

**TOD Reference:** TOD-05-02-02-Update\_Service

**Summary:** Updates partially a Service

#### 3.28.5.1 Parameters

Name	Type	Required	Description
id	string	Yes	Identifier of the Resource
fields	string	No	Comma-separated properties to be provided in response

Table 3.258: Parameters of PATCH service/{id}.

#### 3.28.5.2 Request Body

Content Type	Reference
application/json	Service_MVO
application/merge-patch+json	Service_MVO
application/json-patch+json	JsonPatchOperations
application/json-patch-query+json	JsonPatchOperations

Table 3.259: Request Body of PATCH service/{id}.

#### 3.28.5.3 Responses

Code	Description	Content
200	Success	Service
202	Accepted	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Code	Description	Content
501	Not Implemented	Error
503	Service Unavailable	Error

Table 3.260: Responses of PATCH service/{id}.

## 3.29 serviceLevelObjective (/serviceQualityManagement)

Service Level Objective API

### 3.29.1 GET /serviceLevelObjective

**Absolute Path:** /serviceQualityManagement/v2/serviceLevelObjective

**TOD Reference:** TOD-06-01-05-View\_All\_Service\_Level\_Objective

**Summary:** List or find ServiceLevelObjective objects

#### 3.29.1.1 Parameters

Name	Type	Required	Description
fields	string	No	Comma-separated properties to be provided in response
offset	integer	No	Requested index for start of resources to be provided in response
limit	integer	No	Requested number of resources to be provided in response

Table 3.261: Parameters of GET serviceLevelObjective.

#### 3.29.1.2 Responses

Code	Description	Content
200	Success	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.262: Responses of GET serviceLevelObjective.



### 3.29.2 POST /serviceLevelObjective

**Absolute Path:** /serviceQualityManagement/v2/serviceLevelObjective

**TOD Reference:** TOD-06-01-01-Create\_Service\_Level\_Objective

**Summary:** Creates a ServiceLevelObjective

#### 3.29.2.1 Request Body

Content Type	Reference
application/json;charset=utf-8	ServiceLevelObjective_Create

Table 3.263: Request Body of POST serviceLevelObjective.

#### 3.29.2.2 Responses

Code	Description	Content
201	Created	ServiceLevelObjective
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.264: Responses of POST serviceLevelObjective.

### 3.29.3 GET /serviceLevelObjective/{id}

**Absolute Path:** /serviceQualityManagement/v2/serviceLevelObjective/{id}

**TOD Reference:** TOD-06-01-04-View\_Service\_Level\_Objective

**Summary:** Retrieves a ServiceLevelObjective by ID

#### 3.29.3.1 Parameters

Name	Type	Required	Description
id	string	Yes	Identifier of the ServiceLevelObjective
fields	string	No	Comma-separated properties to provide in response

Table 3.265: Parameters of GET serviceLevelObjective/{id}.

#### 3.29.3.2 Responses

Code	Description	Content
200	Success	ServiceLevelObjective
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.266: Responses of GET serviceLevelObjective/{id}.

### 3.29.4 DELETE /serviceLevelObjective/{id}

**Absolute Path:** /serviceQualityManagement/v2/serviceLevelObjective/{id}

**TOD Reference:** TOD-06-01-03-Remove\_Service\_Level\_Objective

**Summary:** Deletes a ServiceLevelObjective

#### 3.29.4.1 Parameters

Name	Type	Required	Description
id	string	Yes	Identifier of the ServiceLevelObjective

Table 3.267: Parameters of DELETE serviceLevelObjective/{id}.

#### 3.29.4.2 Responses

Code	Description	Content
204	Deleted	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.268: Responses of DELETE serviceLevelObjective/{id}.

### 3.29.5 PATCH /serviceLevelObjective/{id}

**Absolute Path:** /serviceQualityManagement/v2/serviceLevelObjective/{id}

**TOD Reference:** TOD-06-01-02-Update\_Service\_Level\_Objective

**Summary:** Updates partially a ServiceLevelObjective

#### 3.29.5.1 Parameters

Name	Type	Required	Description
id	string	Yes	Identifier of the ServiceLevelObjective

Table 3.269: Parameters of PATCH serviceLevelObjective/{id}.

#### 3.29.5.2 Request Body

Content Type	Reference
application/json;charset=utf-8	ServiceLevelObjective_Update

Table 3.270: Request Body of PATCH serviceLevelObjective/{id}.

#### 3.29.5.3 Responses

Code	Description	Content
200	Updated	ServiceLevelObjective
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.271: Responses of PATCH serviceLevelObjective/{id}.

## 3.30 serviceLevelSpecification (/serviceQualityManagement)

Service Level Specification API

### 3.30.1 GET /serviceLevelSpecification

**Absolute Path:** /serviceQualityManagement/v2/serviceLevelSpecification

**TOD Reference:** TOD-06-02-05-View\_All\_Service\_Level\_Specification

**Summary:** List or find ServiceLevelSpecification objects

#### 3.30.1.1 Parameters

Name	Type	Required	Description
fields	string	No	Comma-separated properties to be provided in response
offset	integer	No	Requested index for start of resources to be provided in response
limit	integer	No	Requested number of resources to be provided in response

Table 3.272: Parameters of GET serviceLevelSpecification.

#### 3.30.1.2 Responses

Code	Description	Content
200	Success	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.273: Responses of GET serviceLevelSpecification.

### 3.30.2 POST /serviceLevelSpecification

**Absolute Path:** /serviceQualityManagement/v2/serviceLevelSpecification

**TOD Reference:** TOD-06-02-01-Create\_Service\_Level\_Specification

**Summary:** Creates a ServiceLevelSpecification

#### 3.30.2.1 Request Body

Content Type	Reference
application/json;charset=utf-8	ServiceLevelSpecification_Create

Table 3.274: Request Body of POST serviceLevelSpecification.

#### 3.30.2.2 Responses

Code	Description	Content
201	Created	ServiceLevelSpecification
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.275: Responses of POST serviceLevelSpecification.

### 3.30.3 GET /serviceLevelSpecification/{id}

**Absolute Path:** /serviceQualityManagement/v2/serviceLevelSpecification/{id}

**TOD Reference:** TOD-06-02-04-View\_Service\_Level\_Specification

**Summary:** Retrieves a ServiceLevelSpecification by ID

#### 3.30.3.1 Parameters

Name	Type	Required	Description
id	string	Yes	Identifier of the ServiceLevelSpecification
fields	string	No	Comma-separated properties to provide in response

Table 3.276: Parameters of GET serviceLevelSpecification/{id}.

#### 3.30.3.2 Responses

Code	Description	Content
200	Success	ServiceLevelSpecification
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.277: Responses of GET serviceLevelSpecification/{id}.

### 3.30.4 DELETE /serviceLevelSpecification/{id}

**Absolute Path:** /serviceQualityManagement/v2/serviceLevelSpecification/{id}

**TOD Reference:** TOD-06-02-03-Remove\_Service\_Level\_Specification

**Summary:** Deletes a ServiceLevelSpecification

#### 3.30.4.1 Parameters

Name	Type	Required	Description
id	string	Yes	Identifier of the ServiceLevelSpecification

Table 3.278: Parameters of DELETE serviceLevelSpecification/{id}.

#### 3.30.4.2 Responses

Code	Description	Content
204	Deleted	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.279: Responses of DELETE serviceLevelSpecification/{id}.



### 3.30.5 PATCH /serviceLevelSpecification/{id}

**Absolute Path:** /serviceQualityManagement/v2/serviceLevelSpecification/{id}

**TOD Reference:** TOD-06-02-02-Update\_Service\_Level\_Specification

**Summary:** Updates partially a ServiceLevelSpecification

#### 3.30.5.1 Parameters

Name	Type	Required	Description
id	string	Yes	Identifier of the ServiceLevelSpecification

Table 3.280: Parameters of PATCH serviceLevelSpecification/{id}.

#### 3.30.5.2 Request Body

Content Type	Reference
application/json;charset=utf-8	ServiceLevelSpecification_Update

Table 3.281: Request Body of PATCH serviceLevelSpecification/{id}.

#### 3.30.5.3 Responses

Code	Description	Content
200	Updated	ServiceLevelSpecification
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.282: Responses of PATCH serviceLevelSpecification/{id}.

## 3.31 serviceSpecification (/serviceManagement)

Operations for ServiceSpecification Resource

### 3.31.1 GET /serviceSpecification

**Absolute Path:** /serviceManagement/v2/serviceSpecification

**Summary:** List or find ServiceSpecification objects

#### 3.31.1.1 Parameters

Name	Type	Required	Description
fields	string	No	Comma-separated properties to be provided in response
offset	integer	No	Requested index for start of resources to be provided in response
limit	integer	No	Requested number of resources to be provided in response

Table 3.283: Parameters of GET serviceSpecification.

#### 3.31.1.2 Responses

Code	Description	Content
200	Success	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
500	Internal Server Error	Error
501	Not Implemented	Error
503	Service Unavailable	Error

Table 3.284: Responses of GET serviceSpecification.

### 3.31.2 POST /serviceSpecification

**Absolute Path:** /serviceManagement/v2/serviceSpecification

**Summary:** Creates a ServiceSpecification

#### 3.31.2.1 Parameters

Name	Type	Required	Description
fields	string	No	Comma-separated properties to be provided in response

Table 3.285: Parameters of POST serviceSpecification.

#### 3.31.2.2 Request Body

Content Type	Reference
application/json	ServiceSpecification_FVO

Table 3.286: Request Body of POST serviceSpecification.

#### 3.31.2.3 Responses

Code	Description	Content
201	OK/Created	ServiceSpecification
202	Accepted	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error
501	Not Implemented	Error
503	Service Unavailable	Error

Table 3.287: Responses of POST serviceSpecification.

### 3.31.3 GET /serviceSpecification/{id}

**Absolute Path:** /serviceManagement/v2/serviceSpecification/{id}

**Summary:** Retrieves a ServiceSpecification by ID

#### 3.31.3.1 Parameters

Name	Type	Required	Description
id	string	Yes	Identifier of the Resource
fields	string	No	Comma-separated properties to be provided in response

Table 3.288: Parameters of GET serviceSpecification/{id}.

#### 3.31.3.2 Responses

Code	Description	Content
200	Success	ServiceSpecification
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
500	Internal Server Error	Error
501	Not Implemented	Error
503	Service Unavailable	Error

Table 3.289: Responses of GET serviceSpecification/{id}.

### 3.31.4 DELETE /serviceSpecification/{id}

**Absolute Path:** /serviceManagement/v2/serviceSpecification/{id}

**Summary:** Deletes a ServiceSpecification

#### 3.31.4.1 Parameters

Name	Type	Required	Description
id	string	Yes	Identifier of the Resource

Table 3.290: Parameters of DELETE serviceSpecification/{id}.

#### 3.31.4.2 Responses

Code	Description	Content
202	Accepted	N/A
204	Deleted	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error
501	Not Implemented	Error
503	Service Unavailable	Error

Table 3.291: Responses of DELETE serviceSpecification/{id}.

### 3.31.5 PATCH /serviceSpecification/{id}

**Absolute Path:** /serviceManagement/v2/serviceSpecification/{id}

**Summary:** Updates partially a ServiceSpecification

#### 3.31.5.1 Parameters

Name	Type	Required	Description
id	string	Yes	Identifier of the Resource
fields	string	No	Comma-separated properties to be provided in response

Table 3.292: Parameters of PATCH serviceSpecification/{id}.

#### 3.31.5.2 Request Body

Content Type	Reference
application/json	ServiceSpecification_MVO
application/merge-patch+json	ServiceSpecification_MVO
application/json-patch+json	JsonPatchOperations
application/json-patch-query+json	JsonPatchOperations

Table 3.293: Request Body of PATCH serviceSpecification/{id}.

#### 3.31.5.3 Responses

Code	Description	Content
200	Success	ServiceSpecification
202	Accepted	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error
501	Not Implemented	Error

Code	Description	Content
503	Service Unavailable	Error

Table 3.294: Responses of PATCH serviceSpecification/{id}.

## 3.32 serviceTemplate (/serviceManagement)

Operations for ServiceTemplate Resource

### 3.32.1 GET /serviceTemplate

**Absolute Path:** /serviceManagement/v2/serviceTemplate

**Summary:** List or find ServiceTemplate objects

#### 3.32.1.1 Parameters

Name	Type	Required	Description
fields	string	No	Comma-separated properties to be provided in response
offset	integer	No	Requested index for start of resources to be provided in response
limit	integer	No	Requested number of resources to be provided in response

Table 3.295: Parameters of GET serviceTemplate.

#### 3.32.1.2 Responses

Code	Description	Content
200	Success	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
500	Internal Server Error	Error
501	Not Implemented	Error
503	Service Unavailable	Error

Table 3.296: Responses of GET serviceTemplate.



### 3.32.2 POST /serviceTemplate

**Absolute Path:** /serviceManagement/v2/serviceTemplate

**Summary:** Creates a ServiceTemplate

#### 3.32.2.1 Parameters

Name	Type	Required	Description
fields	string	No	Comma-separated properties to be provided in response

Table 3.297: Parameters of POST serviceTemplate.

#### 3.32.2.2 Request Body

Content Type	Reference
application/json	ServiceSpecification_FVO

Table 3.298: Request Body of POST serviceTemplate.

#### 3.32.2.3 Responses

Code	Description	Content
201	OK/Created	ServiceSpecification
202	Accepted	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error
501	Not Implemented	Error
503	Service Unavailable	Error

Table 3.299: Responses of POST serviceTemplate.

### 3.32.3 GET /serviceTemplate/{id}

**Absolute Path:** /serviceManagement/v2/serviceTemplate/{id}

**Summary:** Retrieves a ServiceTemplate by ID

#### 3.32.3.1 Parameters

Name	Type	Required	Description
id	string	Yes	Identifier of the Resource
fields	string	No	Comma-separated properties to be provided in response

Table 3.300: Parameters of GET serviceTemplate/{id}.

#### 3.32.3.2 Responses

Code	Description	Content
200	Success	ServiceSpecification
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
500	Internal Server Error	Error
501	Not Implemented	Error
503	Service Unavailable	Error

Table 3.301: Responses of GET serviceTemplate/{id}.

### 3.32.4 DELETE /serviceTemplate/{id}

**Absolute Path:** /serviceManagement/v2/serviceTemplate/{id}

**Summary:** Deletes a ServiceTemplate

#### 3.32.4.1 Parameters

Name	Type	Required	Description
id	string	Yes	Identifier of the Resource

Table 3.302: Parameters of DELETE serviceTemplate/{id}.

#### 3.32.4.2 Responses

Code	Description	Content
202	Accepted	N/A
204	Deleted	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error
501	Not Implemented	Error
503	Service Unavailable	Error

Table 3.303: Responses of DELETE serviceTemplate/{id}.

### 3.32.5 PATCH /serviceTemplate/{id}

**Absolute Path:** /serviceManagement/v2/serviceTemplate/{id}

**Summary:** Updates partially a ServiceTemplate

#### 3.32.5.1 Parameters

Name	Type	Required	Description
id	string	Yes	Identifier of the Resource
fields	string	No	Comma-separated properties to be provided in response

Table 3.304: Parameters of PATCH serviceTemplate/{id}.

#### 3.32.5.2 Request Body

Content Type	Reference
application/json	ServiceSpecification_MVO
application/merge-patch+json	ServiceSpecification_MVO
application/json-patch+json	JsonPatchOperations
application/json-patch-query+json	JsonPatchOperations

Table 3.305: Request Body of PATCH serviceTemplate/{id}.

#### 3.32.5.3 Responses

Code	Description	Content
200	Success	ServiceSpecification
202	Accepted	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error
501	Not Implemented	Error

Code	Description	Content
503	Service Unavailable	Error

Table 3.306: Responses of PATCH serviceTemplate/{id}.

### 3.33 suspendPerformanceJob (/performanceMonitoring)

Performance Monitoring Job API

#### 3.33.1 GET /suspendPerformanceJob

**Absolute Path:** /performanceMonitoring/v2/suspendPerformanceJob

**Summary:** Lists or finds SuspendPerformanceJob objects.

##### 3.33.1.1 Parameters

Name	Type	Required	Description
performanceJobId	string	No	Identifier of Performance Job that is a subject of SuspendPerformanceJob.
state	string	No	State of SuspendPerformanceJob. See <i>PerformanceJobProcessStateType</i> definition for details.
creationDate.gt	string	No	Date when the SuspendPerformanceJob was created - greater than.
creationDate.lt	string	No	Date when the SuspendPerformanceJob was created - lower than.
offset	integer	No	Requested index for start of item to be provided in response requested by client. Note that the index starts with "0".
limit	integer	No	Requested number of items to be provided in response requested by client.

Table 3.307: Parameters of GET suspendPerformanceJob.

##### 3.33.1.2 Responses

Code	Description	Content
200	Success	N/A
400	Bad Request	Error400
401	Unauthorized	Error401
403	Forbidden	Error403
422	Unprocessable entity due to the business validation problems	N/A
500	Internal Server Error	Error500
501	Method not implemented.	Error501



Code	Description	Content
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Table 3.308: Responses of GET suspendPerformanceJob.

### 3.33.2 POST /suspendPerformanceJob

**Absolute Path:** /performanceMonitoring/v2/suspendPerformanceJob

#### 3.33.2.1 Request Body

Content Type	Reference
application/json;charset=utf-8	SuspendPerformanceJob_Create

Table 3.309: Request Body of POST suspendPerformanceJob.

#### 3.33.2.2 Responses

Code	Description	Content
201	Created	SuspendPerformanceJob
400	Bad Request	Error400
401	Unauthorized	Error401
403	Forbidden	Error403
422	Unprocessable entity due to the business validation problems	N/A
500	Internal Server Error	Error500
501	Method not implemented.	Error501

Table 3.310: Responses of POST suspendPerformanceJob.



### 3.33.3 GET /suspendPerformanceJob/{id}

**Absolute Path:** /performanceMonitoring/v2/suspendPerformanceJob/{id}

**Summary:** Retrieves a SuspendPerformanceJob by ID

#### 3.33.3.1 Parameters

Name	Type	Required	Description
id	string	Yes	Identifier of the SuspendPerformanceJob

Table 3.311: Parameters of GET suspendPerformanceJob/{id}.

#### 3.33.3.2 Responses

Code	Description	Content
200	Success	SuspendPerformanceJob
400	Bad Request	Error400
401	Unauthorized	Error401
403	Forbidden	Error403
404	Not Found	Error404
500	Internal Server Error	Error500
501	Method not implemented.	Error501

Table 3.312: Responses of GET suspendPerformanceJob/{id}.

## 3.34 topic (/event)

Event Topic API

### 3.34.1 GET /topic

**Absolute Path:** /event/v2/topic

**Summary:** List or find Topic objects

#### 3.34.1.1 Parameters

Name	Type	Required	Description
fields	string	No	Comma-separated properties to be provided in response
offset	integer	No	Requested index for start of resources to be provided in response
limit	integer	No	Requested number of resources to be provided in response

Table 3.313: Parameters of GET topic.

#### 3.34.1.2 Responses

Code	Description	Content
200	Success	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Table 3.314: Responses of GET topic.

## 3.35 troubleTicket (/troubleTicket)

Operations for TroubleTicket Resource

### 3.35.1 GET /troubleTicket

**Absolute Path:** /troubleTicket/v2/troubleTicket

**TOD Reference:** TOD-01-04-05-View\_All\_Trouble\_Tickets

**Summary:** List or find TroubleTicket objects

#### 3.35.1.1 Parameters

Name	Type	Required	Description
fields	string	No	Comma-separated properties to be provided in response
offset	integer	No	Requested index for start of resources to be provided in response
limit	integer	No	Requested number of resources to be provided in response

Table 3.315: Parameters of GET troubleTicket.

#### 3.35.1.2 Responses

Code	Description	Content
200	Success	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
500	Internal Server Error	Error
501	Not Implemented	Error
503	Service Unavailable	Error

Table 3.316: Responses of GET troubleTicket.

### 3.35.2 POST /troubleTicket

**Absolute Path:** /troubleTicket/v2/troubleTicket

**TOD Reference:** TOD-01-04-01-Create\_Trouble\_Ticket

**Summary:** Creates a TroubleTicket

#### 3.35.2.1 Parameters

Name	Type	Required	Description
fields	string	No	Comma-separated properties to be provided in response

Table 3.317: Parameters of POST troubleTicket.

#### 3.35.2.2 Request Body

Content Type	Reference
application/json	TroubleTicket_FVO

Table 3.318: Request Body of POST troubleTicket.

#### 3.35.2.3 Responses

Code	Description	Content
201	OK/Created	TroubleTicket
202	Accepted	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error
501	Not Implemented	Error
503	Service Unavailable	Error

Table 3.319: Responses of POST troubleTicket.

### 3.35.3 GET /troubleTicket/{id}

**Absolute Path:** /troubleTicket/v2/troubleTicket/{id}

**TOD Reference:** TOD-01-04-04-View\_Trouble\_Ticket

**Summary:** Retrieves a TroubleTicket by ID

#### 3.35.3.1 Parameters

Name	Type	Required	Description
id	string	Yes	Identifier of the Resource
fields	string	No	Comma-separated properties to be provided in response

Table 3.320: Parameters of GET troubleTicket/{id}.

#### 3.35.3.2 Responses

Code	Description	Content
200	Success	TroubleTicket
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
500	Internal Server Error	Error
501	Not Implemented	Error
503	Service Unavailable	Error

Table 3.321: Responses of GET troubleTicket/{id}.

### 3.35.4 DELETE /troubleTicket/{id}

**Absolute Path:** /troubleTicket/v2/troubleTicket/{id}

**TOD Reference:** TOD-01-04-03-Remove\_Trouble\_Ticket

**Summary:** Deletes a TroubleTicket

#### 3.35.4.1 Parameters

Name	Type	Required	Description
id	string	Yes	Identifier of the Resource

Table 3.322: Parameters of DELETE troubleTicket/{id}.

#### 3.35.4.2 Responses

Code	Description	Content
202	Accepted	N/A
204	Deleted	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error
501	Not Implemented	Error
503	Service Unavailable	Error

Table 3.323: Responses of DELETE troubleTicket/{id}.

### 3.35.5 PATCH /troubleTicket/{id}

**Absolute Path:** /troubleTicket/v2/troubleTicket/{id}

**TOD Reference:** TOD-01-04-02-Update\_Trouble\_Ticket

**Summary:** Updates partially a TroubleTicket

#### 3.35.5.1 Parameters

Name	Type	Required	Description
id	string	Yes	Identifier of the Resource
fields	string	No	Comma-separated properties to be provided in response

Table 3.324: Parameters of PATCH troubleTicket/{id}.

#### 3.35.5.2 Request Body

Content Type	Reference
application/json	TroubleTicket_MVO
application/merge-patch+json	TroubleTicket_MVO
application/json-patch+json	JsonPatchOperations
application/json-patch-query+json	JsonPatchOperations

Table 3.325: Request Body of PATCH troubleTicket/{id}.

#### 3.35.5.3 Responses

Code	Description	Content
200	Success	TroubleTicket
202	Accepted	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error

Code	Description	Content
501	Not Implemented	Error
503	Service Unavailable	Error

Table 3.326: Responses of PATCH troubleTicket/{id}.



## 3.36 troubleTicketSpecification (/troubleTicket)

Operations for TroubleTicketSpecification Resource

### 3.36.1 GET /troubleTicketSpecification

**Absolute Path:** /troubleTicket/v2/troubleTicketSpecification

**Summary:** List or find TroubleTicketSpecification objects

#### 3.36.1.1 Parameters

Name	Type	Required	Description
fields	string	No	Comma-separated properties to be provided in response
offset	integer	No	Requested index for start of resources to be provided in response
limit	integer	No	Requested number of resources to be provided in response

Table 3.327: Parameters of GET troubleTicketSpecification.

#### 3.36.1.2 Responses

Code	Description	Content
200	Success	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
500	Internal Server Error	Error
501	Not Implemented	Error
503	Service Unavailable	Error

Table 3.328: Responses of GET troubleTicketSpecification.

## 3.36.2 POST /troubleTicketSpecification

**Absolute Path:** /troubleTicket/v2/troubleTicketSpecification

**Summary:** Creates a TroubleTicketSpecification

### 3.36.2.1 Parameters

Name	Type	Required	Description
fields	string	No	Comma-separated properties to be provided in response

Table 3.329: Parameters of POST troubleTicketSpecification.

### 3.36.2.2 Request Body

Content Type	Reference
application/json	TroubleTicketSpecification_FVO

Table 3.330: Request Body of POST troubleTicketSpecification.

### 3.36.2.3 Responses

Code	Description	Content
201	OK/Created	TroubleTicketSpecification
202	Accepted	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error
501	Not Implemented	Error
503	Service Unavailable	Error

Table 3.331: Responses of POST troubleTicketSpecification.

### 3.36.3 GET /troubleTicketSpecification/{id}

**Absolute Path:** /troubleTicket/v2/troubleTicketSpecification/{id}

**Summary:** Retrieves a TroubleTicketSpecification by ID

#### 3.36.3.1 Parameters

Name	Type	Required	Description
id	string	Yes	Identifier of the Resource
fields	string	No	Comma-separated properties to be provided in response

Table 3.332: Parameters of GET troubleTicketSpecification/{id}.

#### 3.36.3.2 Responses

Code	Description	Content
200	Success	TroubleTicketSpecification
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
500	Internal Server Error	Error
501	Not Implemented	Error
503	Service Unavailable	Error

Table 3.333: Responses of GET troubleTicketSpecification/{id}.

### 3.36.4 DELETE /troubleTicketSpecification/{id}

**Absolute Path:** /troubleTicket/v2/troubleTicketSpecification/{id}

**Summary:** Deletes a TroubleTicketSpecification

#### 3.36.4.1 Parameters

Name	Type	Required	Description
id	string	Yes	Identifier of the Resource

Table 3.334: Parameters of DELETE troubleTicketSpecification/{id}.

#### 3.36.4.2 Responses

Code	Description	Content
202	Accepted	N/A
204	Deleted	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error
501	Not Implemented	Error
503	Service Unavailable	Error

Table 3.335: Responses of DELETE troubleTicketSpecification/{id}.

### 3.36.5 PATCH /troubleTicketSpecification/{id}

**Absolute Path:** /troubleTicket/v2/troubleTicketSpecification/{id}

**Summary:** Updates partially a TroubleTicketSpecification

#### 3.36.5.1 Parameters

Name	Type	Required	Description
id	string	Yes	Identifier of the Resource
fields	string	No	Comma-separated properties to be provided in response

Table 3.336: Parameters of PATCH troubleTicketSpecification/{id}.

#### 3.36.5.2 Request Body

Content Type	Reference
application/json	TroubleTicketSpecification_MVO
application/merge-patch+json	TroubleTicketSpecification_MVO
application/json-patch+json	JsonPatchOperations
application/json-patch-query+json	JsonPatchOperations

Table 3.337: Request Body of PATCH troubleTicketSpecification/{id}.

#### 3.36.5.3 Responses

Code	Description	Content
200	Success	TroubleTicketSpecification
202	Accepted	N/A
400	Bad Request	Error
401	Unauthorized	Error
403	Forbidden	Error
404	Not Found	Error
405	Method Not allowed	Error
409	Conflict	Error
500	Internal Server Error	Error
501	Not Implemented	Error

Code	Description	Content
503	Service Unavailable	Error

Table 3.338: Responses of PATCH troubleTicketSpecification/{id}.

## 4 Data-Transfer-Objects

The following sections describe all DTOs used in the APIs described above. Most entities can make use of polymorphism using the `@type` and `@baseType` attributes. An implementation may omit these fields if only the base type is used, i.e. no subtypes exist. This is the case for essentially all inner types, e.g. characteristics and references. In references, the attribute `@referredType` can be used to hint the type of the target entity.

### 4.1 AccountRef

Account reference. A account may be a party account or a financial account.

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"AccountRef"	Yes

Table 4.1: Fields of AccountRef.

## 4.2 AccountRef\_FVO

Account reference. A account may be a party account or a financial account.

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"AccountRef"	Yes

Table 4.2: Fields of AccountRef\_FVO.



## 4.3 AccountRef\_MVO

Account reference. A account may be a party account or a financial account.

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"AccountRef"	Yes

Table 4.3: Fields of AccountRef\_MVO.

## 4.4 Addressable

Base schema for adressable entities

Field	Type	Format	Required
id	string	N/A	No
href	string	uri	No

Table 4.4: Fields of Addressable.

## 4.5 Addressable\_FVO

Base schema for adressable entities

Field	Type	Format	Required
id	string	N/A	No

Table 4.5: Fields of Addressable\_FVO.

## 4.6 AgreementItemRef

Field	Type	Format	Required
agreementName	string	N/A	No
agreementHref	string	N/A	No
agreementId	string	N/A	No
agreementItemId	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"AgreementItemRef"	Yes

Table 4.6: Fields of AgreementItemRef.

## 4.7 AgreementItemRef\_FVO

Field	Type	Format	Required
agreementName	string	N/A	No
agreementHref	string	N/A	No
agreementId	string	N/A	Yes
agreementItemId	string	N/A	Yes
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"AgreementItemRef"	Yes

Table 4.7: Fields of AgreementItemRef\_FVO.

## 4.8 AgreementItemRef\_MVO

Field	Type	Format	Required
agreementName	string	N/A	No
agreementHref	string	N/A	No
agreementId	string	N/A	No
agreementItemId	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"AgreementItemRef"	Yes

Table 4.8: Fields of AgreementItemRef\_MVO.

## 4.9 AgreementRef

Agreement reference. An agreement represents a contract or arrangement, either written or verbal and sometimes enforceable by law, such as a service level agreement or a customer price agreement. An agreement involves a number of other business entities, such as products, services, and resources and/or their specifications.

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"AgreementRef"	Yes

Table 4.9: Fields of AgreementRef.

## 4.10 AgreementRef\_FVO

Agreement reference. An agreement represents a contract or arrangement, either written or verbal and sometimes enforceable by law, such as a service level agreement or a customer price agreement. An agreement involves a number of other business entities, such as products, services, and resources and/or their specifications.

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"AgreementRef"	Yes

Table 4.10: Fields of AgreementRef\_FVO.



## 4.11 AgreementRef\_MVO

Agreement reference. An agreement represents a contract or arrangement, either written or verbal and sometimes enforceable by law, such as a service level agreement or a customer price agreement. An agreement involves a number of other business entities, such as products, services, and resources and/or their specifications.

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"AgreementRef"	Yes

Table 4.11: Fields of AgreementRef\_MVO.

## 4.12 Alarm

Field	Type	Format	Required
id	string	N/A	No
href	string	uri	No
externalAlarmId	string	N/A	No
state	string	oneOf[raised, updated, cleared]	No
alarmType	AlarmType	N/A	No
perceivedSeverity	PerceivedSeverity	N/A	No
probableCause	string	N/A	No
specificProblem	string	N/A	No
alarmedObjectType	string	N/A	No
alarmedObject	AlarmedObjectRef	N/A	No
reportingSystemId	string	N/A	No
sourceSystemId	string	N/A	No
alarmDetails	string	N/A	No
alarmRaisedTime	string	date-time	No
alarmChangedTime	string	date-time	No
alarmClearedTime	string	date-time	No
alarmReportingTime	string	date-time	No
ackState	string	oneOf[unacknowledged, acknowledged]	No
ackSystemId	string	N/A	No
ackUserId	string	N/A	No
affectedService	array	ServiceRef	No
alarmEscalation	boolean	N/A	No
clearSystemId	string	N/A	No
clearUserId	string	N/A	No
comment	array	Comment	No
correlatedAlarm	array	AlarmRef	No
crossedThresholdInformation	CrossedThresholdInformation	N/A	No
isRootCause	boolean	N/A	No
parentAlarm	array	AlarmRef	No

Field	Type	Format	Required
plannedOutageIndicator	string	oneOf[InService, OutOfService]	No
proposedRepairedActions	string	N/A	No
serviceAffecting	boolean	N/A	No
place	array	RelatedPlaceRef	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"Alarm"	Yes

Table 4.12: Fields of Alarm.

## 4.13 AlarmRef

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"AlarmRef"	Yes

Table 4.13: Fields of AlarmRef.

## 4.14 AlarmType

Categorizes the alarm (X.733 8.1.1, 3GPP TS 32.111-2 Annex A)

Field	Type	Format	Required
AlarmType	string	oneOf[communicationsAlarm, processingErrorAlarm, environmentalAlarm, qualityOfServiceAlarm, equipmentAlarm, integrityViolation, operationalViolation, physicalViolation, securityService, mechanismViolation, timeDomainViolation]	No

Table 4.14: Fields of AlarmType.

## 4.15 AlarmedObjectRef

Reference to object which affected by Alarm (AlarmedObject).

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"AlarmedObjectRef"	Yes

Table 4.15: Fields of AlarmedObjectRef.

## 4.16 AllowedProductAction

Field	Type	Format	Required
validFor	TimePeriod	N/A	No
channel	array	ChannelRef	No
action	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"AllowedProductAction"	Yes

Table 4.16: Fields of AllowedProductAction.

## 4.17 AllowedProductAction\_FVO

Field	Type	Format	Required
validFor	TimePeriod	N/A	No
channel	array	ChannelRef_FVO	No
action	string	N/A	Yes
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"AllowedProductAction"	Yes

Table 4.17: Fields of AllowedProductAction\_FVO.



## 4.18 AllowedProductAction\_MVO

Field	Type	Format	Required
validFor	TimePeriod	N/A	No
channel	array	ChannelRef_MVO	No
action	string	N/A	Yes
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"AllowedProductAction"	Yes

Table 4.18: Fields of AllowedProductAction\_MVO.

## 4.19 AlternateProductStock

AlternateProductStock is used to log and execute Alternate about product stock availability

Field	Type	Format	Required
id	string	N/A	No
alternateAvailabilityDate	string	date-time	No
alternatePlace	PlaceRefOrValue	N/A	No
alternateProduct	ProductRefOrValue	N/A	No
alternateQuantity	Quantity	N/A	No
alternateStock	ProductStockRef	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.19: Fields of AlternateProductStock.

## 4.20 ApplicableTimePeriod

The period of time for which Capacity or CapacityDemand applies.

Field	Type	Format	Required
dayOfWeek	string	N/A	No
fromToDateTime	TimePeriod	N/A	No
rangeInterval	string	N/A	No
validFor	TimePeriod	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	N/A	No

Table 4.20: Fields of ApplicableTimePeriod.

## 4.21 AppliedPayment

The applied payment is the result of lettering process. It enables to assign automatically or manually part of incoming payment amount to a bill.

Field	Type	Format	Required
appliedAmount	Money	N/A	No
payment	PaymentRef	N/A	No

Table 4.21: Fields of AppliedPayment.

## 4.22 AppointmentRef

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
description	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"AppointmentRef"	Yes

Table 4.22: Fields of AppointmentRef.

## 4.23 AppointmentRef\_FVO

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
description	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"AppointmentRef"	Yes

Table 4.23: Fields of AppointmentRef\_FVO.

## 4.24 AppointmentRef\_MVO

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
description	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"AppointmentRef"	Yes

Table 4.24: Fields of AppointmentRef\_MVO.

## 4.25 AssociationSpecificationRef

reference to an AssociationSpecification object

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"AssociationSpecification-Ref"	Yes

Table 4.25: Fields of AssociationSpecificationRef.



## 4.26 AssociationSpecificationRef\_FVO

reference to an AssociationSpecification object

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"AssociationSpecification-Ref"	Yes

Table 4.26: Fields of AssociationSpecificationRef\_FVO.

## 4.27 AssociationSpecificationRef\_MVO

reference to an AssociationSpecification object

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"AssociationSpecification-Ref"	Yes

Table 4.27: Fields of AssociationSpecificationRef\_MVO.

## 4.28 Attachment

Field	Type	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
description	string	N/A	No
url	string	uri	No
size	Quantity	N/A	No
validFor	TimePeriod	N/A	No
attachmentType	string	N/A	No
mimeType	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"Attachment"	Yes

Table 4.28: Fields of Attachment.

## 4.29 AttachmentOrDocumentRef

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
description	string	N/A	No
url	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"AttachmentRef"	Yes

Table 4.29: Fields of AttachmentOrDocumentRef.

## 4.30 AttachmentURL

The AttachmentURL is used to get the PM report.

Field	Type	Format	Required
url	string	N/A	Yes

Table 4.30: Fields of AttachmentURL.

## 4.31 Attachment\_FVO

Field	Type	Format	Required
id	string	N/A	No
name	string	N/A	No
description	string	N/A	No
url	string	uri	No
content	string	binary	No
size	Quantity	N/A	No
validFor	TimePeriod	N/A	No
attachmentType	string	N/A	Yes
contentType	string	N/A	Yes
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"Attachment"	Yes

Table 4.31: Fields of Attachment\_FVO.

## 4.32 Attachment\_MVO

Field	Type	Format	Required
name	string	N/A	No
description	string	N/A	No
url	string	uri	No
content	string	binary	No
size	Quantity	N/A	No
validFor	TimePeriod	N/A	No
attachmentType	string	N/A	No
mimeType	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"Attachment"	Yes

Table 4.32: Fields of Attachment\_MVO.

## 4.33 AvailabilityResultType

Possible values of the availability result check for CheckProductStockItem.

Field	Type	Format	Required
AvailabilityResultType	string	oneOf[available, notAvailable, alternate]	No

Table 4.33: Fields of AvailabilityResultType.



## 4.34 BillCycleRef

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"BillCycleRef"	Yes

Table 4.34: Fields of BillCycleRef.

## 4.35 BillingAccountRef

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
ratingType	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"BillingAccountRef"	Yes

Table 4.35: Fields of BillingAccountRef.

## 4.36 BillingAccountRef\_FVO

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
ratingType	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"BillingAccountRef"	Yes

Table 4.36: Fields of BillingAccountRef\_FVO.

## 4.37 BillingAccountRef\_MVO

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
ratingType	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"BillingAccountRef"	Yes

Table 4.37: Fields of BillingAccountRef\_MVO.

## 4.38 BooleanArrayCharacteristic

Field	Type	Format	Required
id	string	N/A	No
name	string	N/A	No
valueType	string	N/A	No
characteristicRelationship	array	CharacteristicRelationship	No
unitOfMeasure	string	N/A	No
value	array	boolean	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"BooleanArrayCharacteristic"	Yes

Table 4.38: Fields of BooleanArrayCharacteristic.

## 4.39 BooleanArrayCharacteristic\_FVO

Field	Type	Format	Required
id	string	N/A	No
name	string	N/A	Yes
valueType	string	N/A	No
characteristicRelationship	array	CharacteristicRelationship_FVO	No
unitOfMeasure	string	N/A	No
value	array	boolean	Yes
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"BooleanArrayCharacteristic"	Yes

Table 4.39: Fields of BooleanArrayCharacteristic\_FVO.

## 4.40 BooleanArrayCharacteristic\_MVO

Field	Type	Format	Required
id	string	N/A	No
name	string	N/A	No
valueType	string	N/A	No
characteristicRelationship	array	CharacteristicRelationship_MVO	No
unitOfMeasure	string	N/A	No
value	array	boolean	Yes
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"BooleanArrayCharacteristic"	Yes

Table 4.40: Fields of BooleanArrayCharacteristic\_MVO.

## 4.41 BooleanCharacteristic

Field	Type	Format	Required
id	string	N/A	No
name	string	N/A	No
valueType	string	N/A	No
characteristicRelationship	array	CharacteristicRelationship	No
unitOfMeasure	string	N/A	No
value	boolean	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"BooleanCharacteristic"	Yes

Table 4.41: Fields of BooleanCharacteristic.



## 4.42 BooleanCharacteristic\_FVO

Field	Type	Format	Required
id	string	N/A	No
name	string	N/A	Yes
valueType	string	N/A	No
characteristicRelationship	array	CharacteristicRelationship_FVO	No
unitOfMeasure	string	N/A	No
value	boolean	N/A	Yes
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"BooleanCharacteristic"	Yes

Table 4.42: Fields of BooleanCharacteristic\_FVO.

## 4.43 BooleanCharacteristic\_MVO

Field	Type	Format	Required
id	string	N/A	No
name	string	N/A	No
valueType	string	N/A	No
characteristicRelationship	array	CharacteristicRelationship_MVO	No
unitOfMeasure	string	N/A	No
value	boolean	N/A	Yes
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"BooleanCharacteristic"	Yes

Table 4.43: Fields of BooleanCharacteristic\_MVO.

## 4.44 BundledGroupProductOffering

A group of product offerings that can be chosen for instantiation of children of the parent product offering, for example a list of channels for selection under a TV offering. Sometimes known as Selection Group. The group can also hierarchically contain other groups

Field	Type	Format	Required
id	string	N/A	No
name	string	N/A	No
bundledProductOffering	array	BundledProductOffering	No
bundledGroupProductOffering	array	BundledGroupProductOffering	No
bundledGroupProductOfferingOption	BundledGroupProductOfferingOption	N/A	No

Table 4.44: Fields of BundledGroupProductOffering.

## 4.45 BundledGroupProductOfferingOption

Defines for a BundledProductOfferingGroup (i.e. a group of multiple child offerings of a parent product offering), how many instances from the child offerings can be chosen in total. For example facilitate the choice of between 2 and 7 channel packs from a list, and cause certain items to be selected by default

Field	Type	Format	Required
numberRelOfferLowerLimit	integer	N/A	No
numberRelOfferUpperLimit	integer	N/A	No

Table 4.45: Fields of BundledGroupProductOfferingOption.

## 4.46 BundledProductOffering

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
version	string	N/A	No
bundledProductOfferingOption	BundledProductOfferingOption	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"BundledProductOffering"	Yes

Table 4.46: Fields of BundledProductOffering.

## 4.47 BundledProductOfferingOption

Field	Type	Format	Required
numberRelOfferDefault	integer	N/A	No
numberRelOfferLowerLimit	integer	N/A	No
numberRelOfferUpperLimit	integer	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"BundledProductOfferingOption"	Yes

Table 4.47: Fields of BundledProductOfferingOption.

## 4.48 BundledProductOfferingOption\_FVO

Field	Type	Format	Required
numberRelOfferDefault	integer	N/A	No
numberRelOfferLowerLimit	integer	N/A	No
numberRelOfferUpperLimit	integer	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"BundledProductOfferingOption"	Yes

Table 4.48: Fields of BundledProductOfferingOption\_FVO.

## 4.49 BundledProductOfferingOption\_MVO

Field	Type	Format	Required
numberRelOfferDefault	integer	N/A	No
numberRelOfferLowerLimit	integer	N/A	No
numberRelOfferUpperLimit	integer	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"BundledProductOfferingOption"	Yes

Table 4.49: Fields of BundledProductOfferingOption\_MVO.



## 4.50 BundledProductOfferingPriceRelationship

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
version	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"BundledProductOffering-PriceRelationship"	Yes

Table 4.50: Fields of BundledProductOfferingPriceRelationship.

## 4.51 BundledProductOffering\_FVO

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
version	string	N/A	No
bundledProductOfferingOption	BundledProductOfferingOption_FVO	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"BundledProductOffering"	Yes

Table 4.51: Fields of BundledProductOffering\_FVO.

## 4.52 BundledProductOffering\_MVO

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
version	string	N/A	No
bundledProductOfferingOption	BundledProductOfferingOption_MVO	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"BundledProductOffering"	Yes

Table 4.52: Fields of BundledProductOffering\_MVO.

## 4.53 BundledProductSpecification

Field	Type	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
lifecycleStatus	string	N/A	No
version	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"BundledProductSpecifica- tion"	Yes

Table 4.53: Fields of BundledProductSpecification.

## 4.54 BundledProductSpecification\_FVO

Field	Type	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
lifecycleStatus	string	N/A	No
version	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"BundledProductSpecifica- tion"	Yes

Table 4.54: Fields of BundledProductSpecification\_FVO.

## 4.55 BundledProductSpecification\_MVO

Field	Type	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
lifecycleStatus	string	N/A	No
version	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"BundledProductSpecifica- tion"	Yes

Table 4.55: Fields of BundledProductSpecification\_MVO.

## 4.56 BusinessPartner

When business partner is the BusinessPartner

Field	Type	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
description	string	N/A	No
role	string	N/A	No
engagedParty	PartyRef	N/A	No
partyRoleSpecification	PartyRoleSpecificationRef	N/A	No
characteristic	array	Characteristic	No
account	array	AccountRef	No
agreement	array	AgreementRef	No
contactMedium	array	ContactMedium	No
paymentMethod	array	PaymentMethodRef	No
creditProfile	array	CreditProfile	No
relatedParty	array	RelatedPartyOrPartyRole	No
status	string	N/A	No
statusReason	string	N/A	No
validFor	TimePeriod	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"BusinessPartner"	Yes

Table 4.56: Fields of BusinessPartner.

## 4.57 BusinessPartner\_FVO

When business partner is the BusinessPartner

Field	Type	Format	Required
id	string	N/A	No
name	string	N/A	Yes
description	string	N/A	No
role	string	N/A	No
engagedParty	PartyRef_FVO	N/A	Yes
partyRoleSpecification	PartyRoleSpecification-Ref_FVO	N/A	No
characteristic	array	Characteristic_FVO	No
account	array	AccountRef_FVO	No
agreement	array	AgreementRef_FVO	No
contactMedium	array	ContactMedium_FVO	No
paymentMethod	array	PaymentMethodRef_FVO	No
creditProfile	array	CreditProfile_FVO	No
relatedParty	array	RelatedPartyOrParty-Role_FVO	No
status	string	N/A	No
statusReason	string	N/A	No
validFor	TimePeriod	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"BusinessPartner"	Yes

Table 4.57: Fields of BusinessPartner\_FVO.



## 4.58 BusinessPartner\_MVO

When business partner is the BusinessPartner

Field	Type	Format	Required
name	string	N/A	Yes
description	string	N/A	No
role	string	N/A	No
engagedParty	PartyRef_MVO	N/A	Yes
partyRoleSpecification	PartyRoleSpecification-Ref_MVO	N/A	No
characteristic	array	Characteristic_MVO	No
account	array	AccountRef_MVO	No
agreement	array	AgreementRef_MVO	No
contactMedium	array	ContactMedium_MVO	No
paymentMethod	array	PaymentMethodRef_MVO	No
creditProfile	array	CreditProfile_MVO	No
relatedParty	array	RelatedPartyOrParty-Role_MVO	No
status	string	N/A	No
statusReason	string	N/A	No
validFor	TimePeriod	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"BusinessPartner"	Yes

Table 4.58: Fields of BusinessPartner\_MVO.

## 4.59 CalendarPeriod

Field	Type	Format	Required
day	string	N/A	No
timeZone	string	N/A	No
hourPeriod	array	HourPeriod	No
status	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"CalendarPeriod"	Yes

Table 4.59: Fields of CalendarPeriod.

## 4.60 CalendarPeriod\_FVO

Field	Type	Format	Required
day	string	N/A	No
timeZone	string	N/A	No
hourPeriod	array	HourPeriod_FVO	No
status	string	N/A	Yes
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"CalendarPeriod"	Yes

Table 4.60: Fields of CalendarPeriod\_FVO.

## 4.61 CalendarPeriod\_MVO

Field	Type	Format	Required
day	string	N/A	No
timeZone	string	N/A	No
hourPeriod	array	HourPeriod_MVO	No
status	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"CalendarPeriod"	Yes

Table 4.61: Fields of CalendarPeriod\_MVO.

## 4.62 CancelPerformanceJob

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
cancellationReason	string	N/A	No
performanceJob	PerformanceJobRef	N/A	Yes
cancellationDeniedReason	string	N/A	No
creationDate	string	date-time	Yes
state	PerformanceJobPro- cessStateType	N/A	Yes

Table 4.62: Fields of CancelPerformanceJob.

## 4.63 CancelPerformanceJob\_Common

Request for cancellation of an existing Performance Job

Field	Type	Format	Required
cancellationReason	string	N/A	No
performanceJob	PerformanceJobRef	N/A	Yes

Table 4.63: Fields of CancelPerformanceJob\_Common.

## 4.64 CancelPerformanceJob\_Create

Field	Type	Format	Required
cancellationReason	string	N/A	No
performanceJob	PerformanceJobRef	N/A	Yes

Table 4.64: Fields of CancelPerformanceJob\_Create.

## 4.65 CancelPerformanceJob\_Find

This class represents a single list item for the response of `listCancelPerformanceJob`

Field	Type	Format	Required
id	string	N/A	Yes
creationDate	string	date-time	Yes
performanceJob	PerformanceJobRef	N/A	Yes
state	PerformanceJobPro- cessStateType	N/A	Yes

Table 4.65: Fields of CancelPerformanceJob\_Find.



## 4.66 CategoryRef

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
version	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"CategoryRef"	Yes

Table 4.66: Fields of CategoryRef.

## 4.67 CategoryRef\_FVO

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
version	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"CategoryRef"	Yes

Table 4.67: Fields of CategoryRef\_FVO.

## 4.68 CategoryRef\_MVO

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
version	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"CategoryRef"	Yes

Table 4.68: Fields of CategoryRef\_MVO.

## 4.69 ChannelRef

The channel to which the resource reference to. e.g. channel for selling product offerings, channel for opening a trouble ticket etc..

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"ChannelRef"	Yes

Table 4.69: Fields of ChannelRef.

## 4.70 ChannelRef\_FVO

The channel to which the resource reference to. e.g. channel for selling product offerings, channel for opening a trouble ticket etc..

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"ChannelRef"	Yes

Table 4.70: Fields of ChannelRef\_FVO.

## 4.71 ChannelRef\_MVO

The channel to which the resource reference to. e.g. channel for selling product offerings, channel for opening a trouble ticket etc..

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"ChannelRef"	Yes

Table 4.71: Fields of ChannelRef\_MVO.

## 4.72 Characteristic

Field	Type	Format	Required
id	string	N/A	No
name	string	N/A	No
valueType	string	N/A	No
characteristicRelationship	array	CharacteristicRelationship	No
unitOfMeasure	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	oneOf["Characteristic", "StringCharacteristic", "StringArrayCharacteristic", "ObjectCharacteristic", "ObjectArrayCharacteristic", "NumberCharacteristic", "NumberArrayCharacteristic", "IntegerCharacteristic", "IntegerArrayCharacteristic", "FloatCharacteristic", "FloatArrayCharacteristic", "BooleanCharacteristic", "BooleanArrayCharacteristic"]	Yes

Table 4.72: Fields of Characteristic.

## 4.73 CharacteristicRelationship

Field	Type	Format	Required
id	string	N/A	No
relationshipType	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"CharacteristicRelationship"	Yes

Table 4.73: Fields of CharacteristicRelationship.



## 4.74 CharacteristicRelationship\_FVO

Field	Type	Format	Required
id	string	N/A	Yes
relationshipType	string	N/A	Yes
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"CharacteristicRelationship"	Yes

Table 4.74: Fields of CharacteristicRelationship\_FVO.

## 4.75 CharacteristicRelationship\_MVO

Field	Type	Format	Required
id	string	N/A	No
relationshipType	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"CharacteristicRelationship"	Yes

Table 4.75: Fields of CharacteristicRelationship\_MVO.

## 4.76 CharacteristicSpecification

Field	Type	Format	Required
id	string	N/A	No
name	string	N/A	No
description	string	N/A	No
valueType	string	N/A	No
configurable	boolean	N/A	No
validFor	TimePeriod	N/A	No
minCardinality	integer	N/A	No
maxCardinality	integer	N/A	No
isUnique	boolean	N/A	No
regex	string	N/A	No
extensible	boolean	N/A	No
charSpecRelationship	array	CharacteristicSpecification-Relationship	No
characteristicValueSpecification	array	CharacteristicValueSpecification	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@valueSchemaLocation	string	N/A	No
@type	string	"CharacteristicSpecification"	Yes

Table 4.76: Fields of CharacteristicSpecification.

## 4.77 CharacteristicSpecificationRelationship

Field	Type	Format	Required
name	string	N/A	No
relationshipType	string	N/A	No
characteristicSpecificationId	string	N/A	No
parentSpecificationHref	string	uri	No
validFor	TimePeriod	N/A	No
parentSpecificationId	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"CharacteristicSpecification-Relationship"	Yes

Table 4.77: Fields of CharacteristicSpecificationRelationship.

## 4.78 CharacteristicSpecificationRelationship\_FVO

Field	Type	Format	Required
name	string	N/A	Yes
relationshipType	string	N/A	Yes
characteristicSpecificationId	string	N/A	No
parentSpecificationHref	string	uri	No
validFor	TimePeriod	N/A	No
parentSpecificationId	string	N/A	Yes
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"CharacteristicSpecification-Relationship"	Yes

Table 4.78: Fields of CharacteristicSpecificationRelationship\_FVO.

## 4.79 CharacteristicSpecificationRelationship\_MVO

Field	Type	Format	Required
name	string	N/A	Yes
relationshipType	string	N/A	Yes
characteristicSpecificationId	string	N/A	No
parentSpecificationHref	string	uri	No
validFor	TimePeriod	N/A	No
parentSpecificationId	string	N/A	Yes
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"CharacteristicSpecification-Relationship"	Yes

Table 4.79: Fields of CharacteristicSpecificationRelationship\_MVO.

## 4.80 CharacteristicSpecification\_FVO

Field	Type	Format	Required
id	string	N/A	No
name	string	N/A	Yes
description	string	N/A	No
valueType	string	N/A	Yes
configurable	boolean	N/A	No
validFor	TimePeriod	N/A	No
minCardinality	integer	N/A	No
maxCardinality	integer	N/A	No
isUnique	boolean	N/A	No
regex	string	N/A	No
extensible	boolean	N/A	No
charSpecRelationship	array	CharacteristicSpecification-Relationship_FVO	No
characteristicValueSpecification	array	CharacteristicValueSpecification_FVO	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@valueSchemaLocation	string	N/A	No
@type	string	"CharacteristicSpecification"	Yes

Table 4.80: Fields of CharacteristicSpecification\_FVO.

## 4.81 CharacteristicSpecification\_MVO

Field	Type	Format	Required
id	string	N/A	No
name	string	N/A	Yes
description	string	N/A	No
valueType	string	N/A	Yes
configurable	boolean	N/A	No
validFor	TimePeriod	N/A	No
minCardinality	integer	N/A	No
maxCardinality	integer	N/A	No
isUnique	boolean	N/A	No
regex	string	N/A	No
extensible	boolean	N/A	No
charSpecRelationship	array	CharacteristicSpecification-Relationship_MVO	No
characteristicValueSpecification	array	CharacteristicValueSpecification_MVO	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@valueSchemaLocation	string	N/A	No
@type	string	"CharacteristicSpecification"	Yes

Table 4.81: Fields of CharacteristicSpecification\_MVO.



## 4.82 CharacteristicValuePrecedence

Possible values for the precedence of a characteristic value.

Field	Type	Format	Required
CharacteristicValuePrece- dence	string	oneOf[preferred, minimum, maximum, alternative]	No

Table 4.82: Fields of CharacteristicValuePrecedence.

## 4.83 CharacteristicValueSpecification

Field	Type	Format	Required
valueType	string	N/A	No
isDefault	boolean	N/A	No
unitOfMeasure	string	N/A	No
validFor	TimePeriod	N/A	No
valueFrom	integer	N/A	No
valueTo	integer	N/A	No
rangeInterval	string	N/A	No
regex	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	oneOf["CharacteristicValueSpecification", "StringCharacteristicValueSpecification", "StringArrayCharacteristicValueSpecification", "ObjectCharacteristicValueSpecification", "ObjectArrayCharacteristicValueSpecification", "NumberCharacteristicValueSpecification", "NumberArrayCharacteristicValueSpecification", "MapCharacteristicValueSpecification", "MapArrayCharacteristicValueSpecification", "IntegerCharacteristicValueSpecification", "IntegerArrayCharacteristicValueSpecification"]	Yes

Table 4.83: Fields of CharacteristicValueSpecification.

## 4.84 CharacteristicValueSpecification\_FVO

Field	Type	Format	Required
valueType	string	N/A	No
isDefault	boolean	N/A	No
unitOfMeasure	string	N/A	No
validFor	TimePeriod	N/A	No
valueFrom	integer	N/A	No
valueTo	integer	N/A	No
rangeInterval	string	N/A	No
regex	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	oneOf["CharacteristicValueSpecification", "StringCharacteristicValueSpecification", "StringArrayCharacteristicValueSpecification", "ObjectCharacteristicValueSpecification", "ObjectArrayCharacteristicValueSpecification", "NumberCharacteristicValueSpecification", "NumberArrayCharacteristicValueSpecification", "MapCharacteristicValueSpecification", "MapArrayCharacteristicValueSpecification", "IntegerCharacteristicValueSpecification", "IntegerArrayCharacteristicValueSpecification"]	Yes

Table 4.84: Fields of CharacteristicValueSpecification\_FVO.

## 4.85 CharacteristicValueSpecification\_MVO

Field	Type	Format	Required
valueType	string	N/A	No
isDefault	boolean	N/A	No
unitOfMeasure	string	N/A	No
validFor	TimePeriod	N/A	No
valueFrom	integer	N/A	No
valueTo	integer	N/A	No
rangeInterval	string	N/A	No
regex	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	oneOf["CharacteristicValueSpecification", "StringCharacteristicValueSpecification", "StringArrayCharacteristicValueSpecification", "ObjectCharacteristicValueSpecification", "ObjectArrayCharacteristicValueSpecification", "NumberCharacteristicValueSpecification", "NumberArrayCharacteristicValueSpecification", "MapCharacteristicValueSpecification", "MapArrayCharacteristicValueSpecification", "IntegerCharacteristicValueSpecification", "IntegerArrayCharacteristicValueSpecification"]	Yes

Table 4.85: Fields of CharacteristicValueSpecification\_MVO.

## 4.86 Characteristic\_FVO

Field	Type	Format	Required
id	string	N/A	No
name	string	N/A	Yes
valueType	string	N/A	No
characteristicRelationship	array	CharacteristicRelationship_FVO	No
unitOfMeasure	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	oneOf["Characteristic", "StringCharacteristic", "StringArrayCharacteristic", "ObjectCharacteristic", "ObjectArrayCharacteristic", "NumberCharacteristic", "NumberArrayCharacteristic", "IntegerCharacteristic", "IntegerArrayCharacteristic", "FloatCharacteristic", "FloatArrayCharacteristic", "BooleanCharacteristic", "BooleanArrayCharacteristic"]	Yes

Table 4.86: Fields of Characteristic\_FVO.

## 4.87 Characteristic\_MVO

Field	Type	Format	Required
id	string	N/A	No
name	string	N/A	No
valueType	string	N/A	No
characteristicRelationship	array	CharacteristicRelationship_MVO	No
unitOfMeasure	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	oneOf["Characteristic", "StringCharacteristic", "StringArrayCharacteristic", "ObjectCharacteristic", "ObjectArrayCharacteristic", "NumberCharacteristic", "NumberArrayCharacteristic", "IntegerCharacteristic", "IntegerArrayCharacteristic", "FloatCharacteristic", "FloatArrayCharacteristic", "BooleanCharacteristic", "BooleanArrayCharacteristic"]	Yes

Table 4.87: Fields of Characteristic\_MVO.

## 4.88 CheckProductStock

CheckProductStock is used to log and execute check about product stock availability

Field	Type	Format	Required
id	string	N/A	No
href	string	uri	No
completedCheckProduct-StockDate	string	date-time	No
creationDate	string	date-time	No
instantSyncCheck	boolean	N/A	No
provideAlternative	boolean	N/A	No
requestedAvailability	TimePeriod	N/A	No
requestedCheckProduct-StockDate	string	date-time	No
checkProductStockItem	array	CheckProductStockItem	No
place	PlaceRefOrValue	N/A	No
relatedParty	array	RelatedParty	No
state	TaskStateType	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.88: Fields of CheckProductStock.

## 4.89 CheckProductStockItem

CheckProductStockItem is used to log and execute query about one product (or configured product) stock availability

Field	Type	Format	Required
id	string	N/A	Yes
availabilityResult	AvailabilityResultType	N/A	No
provideAlternative	boolean	N/A	No
alternate	array	AlternateProductStock	No
checkedProductStock	ProductStock	N/A	Yes
requestedQuantity	Quantity	N/A	Yes
state	TaskStateType	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.89: Fields of CheckProductStockItem.



## 4.90 CheckProductStock\_Create

CheckProductStock is used to log and execute check about product stock availability Skipped properties: id,href

Field	Type	Format	Required
instantSyncCheck	boolean	N/A	No
provideAlternative	boolean	N/A	No
requestedAvailability	TimePeriod	N/A	No
requestedCheckProduct-StockDate	string	date-time	No
checkProductStockItem	array	CheckProductStockItem	Yes
place	PlaceRefOrValue	N/A	No
relatedParty	array	RelatedParty	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.90: Fields of CheckProductStock\_Create.

## 4.91 Comment

Field	Type	Format	Required
userId	string	N/A	No
systemId	string	N/A	No
time	string	date-time	No
comment	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"Comment"	Yes

Table 4.91: Fields of Comment.

## 4.92 ConnectionPointSpecificationRef

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
version	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"ConnectionPointSpecificationRef"	Yes

Table 4.92: Fields of ConnectionPointSpecificationRef.

## 4.93 ConnectionSpecification

Field	Type	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
associationType	string	oneOf[pointToPoint, pointtoMultipoint]	No
endpointSpecification	array	EndpointSpecificationRef	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"ConnectionSpecification"	Yes

Table 4.93: Fields of ConnectionSpecification.

## 4.94 ConstraintRef

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
version	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"ConstraintRef"	Yes

Table 4.94: Fields of ConstraintRef.

## 4.95 ConstraintRef\_FVO

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
version	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"ConstraintRef"	Yes

Table 4.95: Fields of ConstraintRef\_FVO.

## 4.96 ConstraintRef\_MVO

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
version	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"ConstraintRef"	Yes

Table 4.96: Fields of ConstraintRef\_MVO.

## 4.97 Consumer

Field	Type	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
description	string	N/A	No
role	string	N/A	No
engagedParty	PartyRef	N/A	No
partyRoleSpecification	PartyRoleSpecificationRef	N/A	No
characteristic	array	Characteristic	No
account	array	AccountRef	No
agreement	array	AgreementRef	No
contactMedium	array	ContactMedium	No
paymentMethod	array	PaymentMethodRef	No
creditProfile	array	CreditProfile	No
relatedParty	array	RelatedPartyOrPartyRole	No
status	string	N/A	No
statusReason	string	N/A	No
validFor	TimePeriod	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"Consumer"	Yes

Table 4.97: Fields of Consumer.



## 4.98 Consumer\_FVO

Field	Type	Format	Required
id	string	N/A	No
name	string	N/A	Yes
description	string	N/A	No
role	string	N/A	No
engagedParty	PartyRef_FVO	N/A	Yes
partyRoleSpecification	PartyRoleSpecification-Ref_FVO	N/A	No
characteristic	array	Characteristic_FVO	No
account	array	AccountRef_FVO	No
agreement	array	AgreementRef_FVO	No
contactMedium	array	ContactMedium_FVO	No
paymentMethod	array	PaymentMethodRef_FVO	No
creditProfile	array	CreditProfile_FVO	No
relatedParty	array	RelatedPartyOrParty-Role_FVO	No
status	string	N/A	No
statusReason	string	N/A	No
validFor	TimePeriod	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"Consumer"	Yes

Table 4.98: Fields of Consumer\_FVO.

## 4.99 Consumer\_MVO

Field	Type	Format	Required
name	string	N/A	Yes
description	string	N/A	No
role	string	N/A	No
engagedParty	PartyRef_MVO	N/A	Yes
partyRoleSpecification	PartyRoleSpecification-Ref_MVO	N/A	No
characteristic	array	Characteristic_MVO	No
account	array	AccountRef_MVO	No
agreement	array	AgreementRef_MVO	No
contactMedium	array	ContactMedium_MVO	No
paymentMethod	array	PaymentMethodRef_MVO	No
creditProfile	array	CreditProfile_MVO	No
relatedParty	array	RelatedPartyOrParty-Role_MVO	No
status	string	N/A	No
statusReason	string	N/A	No
validFor	TimePeriod	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"Consumer"	Yes

Table 4.99: Fields of Consumer\_MVO.

## 4.100 ContactMedium

Field	Type	Format	Required
id	string	N/A	No
preferred	boolean	N/A	No
contactType	string	N/A	No
validFor	TimePeriod	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"ContactMedium"	Yes

Table 4.100: Fields of ContactMedium.

## 4.101 ContactMedium\_FVO

Field	Type	Format	Required
id	string	N/A	No
preferred	boolean	N/A	No
contactType	string	N/A	No
validFor	TimePeriod	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"ContactMedium"	Yes

Table 4.101: Fields of ContactMedium\_FVO.

## 4.102 ContactMedium\_MVO

Field	Type	Format	Required
id	string	N/A	No
preferred	boolean	N/A	No
contactType	string	N/A	No
validFor	TimePeriod	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"ContactMedium"	Yes

Table 4.102: Fields of ContactMedium\_MVO.

## 4.103 CreditProfile

Field	Type	Format	Required
id	string	N/A	No
href	string	uri	No
creditProfileDate	string	date-time	No
creditRiskRating	integer	N/A	No
creditScore	integer	N/A	No
validFor	TimePeriod	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"CreditProfile"	Yes

Table 4.103: Fields of CreditProfile.

## 4.104 CreditProfile\_FVO

Field	Type	Format	Required
id	string	N/A	No
creditProfileDate	string	date-time	No
creditRiskRating	integer	N/A	No
creditScore	integer	N/A	No
validFor	TimePeriod	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"CreditProfile"	Yes

Table 4.104: Fields of CreditProfile\_FVO.

## 4.105 CreditProfile\_MVO

Field	Type	Format	Required
creditProfileDate	string	date-time	No
creditRiskRating	integer	N/A	No
creditScore	integer	N/A	No
validFor	TimePeriod	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"CreditProfile"	Yes

Table 4.105: Fields of CreditProfile\_MVO.



## 4.106 CrossedThresholdInformation

Identifies the details of the threshold that has been crossed.

Field	Type	Format	Required
threshold	ThresholdRef	N/A	No
direction	string	N/A	No
granularity	string	N/A	No
indicatorName	string	N/A	No
indicatorUnit	string	N/A	No
observedValue	string	N/A	No
thresholdCrossingDescription	string	N/A	No

Table 4.106: Fields of CrossedThresholdInformation.

## 4.107 CustomerBill

Field	Type	Format	Required
id	string	N/A	No
href	string	uri	No
amountDue	Money	N/A	No
appliedPayment	array	AppliedPayment	No
billDate	string	date-time	No
billDocument	array	AttachmentOrDocumentRef	No
billNo	string	N/A	No
billingAccount	BillingAccountRef	N/A	No
billingPeriod	TimePeriod	N/A	No
billCycle	BillCycleRef	N/A	No
category	string	N/A	No
financialAccount	FinancialAccountRef	N/A	No
lastUpdate	string	date-time	No
nextBillDate	string	date-time	No
paymentDueDate	string	date-time	No
paymentMethod	PaymentMethodRef	N/A	No
relatedParty	array	RelatedPartyRefOrPartyRoleRef	No
remainingAmount	Money	N/A	No
runType	CustomerBillRunType	N/A	No
taxExcludedAmount	Money	N/A	No
taxIncludedAmount	Money	N/A	No
taxItem	array	TaxItem	No
state	CustomerBillStateType	N/A	No
productOrder	ProductOrderRef	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"CustomerBill"	Yes

Table 4.107: Fields of CustomerBill.

## 4.108 CustomerBillRunType

Recommended Enumeration Type (not formal forced in standard): Valid values for the runType of a bill. The bill could be produced in a regular bill cycle 'onCycle'. Otherwise the bill is produced on a request (e.g. customer request). This could be indicated by 'offCycle'

Field	Type	Format	Required
CustomerBillRunType	string	oneOf[onCycle, offCycle]	No

Table 4.108: Fields of CustomerBillRunType.

## 4.109 CustomerBillStateType

Recommended Enumeration Type (not formal forced in standard): Valid values for the lifecycle state of the bill: new = 'bill is ready to validate or to sent', validated = 'bill is checked (manual / automatic)', sent = 'bill is sent with the channel defined in the billingaccount', settled = 'bill is payed', partiallySettled = 'bill is partially payed', onHold = 'bill will not be in further processing until open issues connected to the bill are solved', withdrawn = 'bill was withdrawn by the seller'

Field	Type	Format	Required
CustomerBillStateType	string	oneOf[new, onHold, validated, sent, settled, partiallyPaid, withdrawn]	No

Table 4.109: Fields of CustomerBillStateType.

## 4.110 CustomerBill\_FVO

Field	Type	Format	Required
id	string	N/A	No
amountDue	Money	N/A	No
appliedPayment	array	AppliedPayment	No
billDate	string	date-time	No
billDocument	array	AttachmentOrDocumentRef	No
billNo	string	N/A	No
billingAccount	BillingAccountRef	N/A	No
billingPeriod	TimePeriod	N/A	No
billCycle	BillCycleRef	N/A	No
category	string	N/A	No
financialAccount	FinancialAccountRef	N/A	No
lastUpdate	string	date-time	No
nextBillDate	string	date-time	No
paymentDueDate	string	date-time	No
paymentMethod	PaymentMethodRef	N/A	No
relatedParty	array	RelatedPartyRefOrPartyRoleRef	No
remainingAmount	Money	N/A	No
runType	CustomerBillRunType	N/A	No
taxExcludedAmount	Money	N/A	No
taxIncludedAmount	Money	N/A	No
taxItem	array	TaxItem	No
state	CustomerBillStateType	N/A	No
productOrder	ProductOrderRef	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"CustomerBill"	Yes

Table 4.110: Fields of CustomerBill\_FVO.

## 4.111 CustomerBill\_MVO

Field	Type	Format	Required
amountDue	Money	N/A	No
appliedPayment	array	AppliedPayment	No
billDate	string	date-time	No
billDocument	array	AttachmentOrDocumentRef	No
billNo	string	N/A	No
billingAccount	BillingAccountRef	N/A	No
billingPeriod	TimePeriod	N/A	No
billCycle	BillCycleRef	N/A	No
category	string	N/A	No
financialAccount	FinancialAccountRef	N/A	No
lastUpdate	string	date-time	No
nextBillDate	string	date-time	No
paymentDueDate	string	date-time	No
paymentMethod	PaymentMethodRef	N/A	No
relatedParty	array	RelatedPartyRefOrPartyRoleRef	No
remainingAmount	Money	N/A	No
runType	CustomerBillRunType	N/A	No
taxExcludedAmount	Money	N/A	No
taxIncludedAmount	Money	N/A	No
taxItem	array	TaxItem	No
state	CustomerBillStateType	N/A	No
productOrder	ProductOrderRef	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"CustomerBill"	Yes

Table 4.111: Fields of CustomerBill\_MVO.

## 4.112 CustomerCharacteristic

A characteristic describing the customer. Used to scope results of a CustomerInquiry.

Field	Type	Format	Required
name	string	N/A	Yes
description	string	N/A	No
valueType	string	N/A	No
value	string	N/A	No

Table 4.112: Fields of CustomerCharacteristic.

## 4.113 CustomerInquiry

Field	Type	Format	Required
id	string	N/A	No
href	string	uri	No
state	InquiryStateType	N/A	Yes
responseTime	ResponseTime	N/A	Yes
customerProfile	array	CustomerCharacteristic	No
bundlesOnly	boolean	N/A	No
customerResource	array	ResourceSpecification	No
place	array	PlaceRefOrValue	No
inquiredProduct	array	InquiredProduct	No
inquiredProvider	array	InquiredProvider	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"CustomerInquiry"	Yes

Table 4.113: Fields of CustomerInquiry.



## 4.114 CustomerInquiry\_FVO

Field	Type	Format	Required
id	string	N/A	No
customerProfile	array	CustomerCharacteristic	No
bundlesOnly	boolean	N/A	No
customerResource	array	ResourceSpecification	No
place	array	PlaceRefOrValue	No
inquiredProduct	array	InquiredProduct	No
inquiredProvider	array	InquiredProvider	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"CustomerInquiry"	Yes

Table 4.114: Fields of CustomerInquiry\_FVO.

## 4.115 CustomerInquiry\_MVO

Field	Type	Format	Required
inquiredProvider	array	InquiredProvider	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"CustomerInquiry"	Yes

Table 4.115: Fields of CustomerInquiry\_MVO.

## 4.116 Disability

Lack or inadequate strength or ability.

Field	Type	Format	Required
disabilityCode	string	N/A	No
disabilityName	string	N/A	No
validFor	TimePeriod	N/A	No

Table 4.116: Fields of Disability.

## 4.117 Document

Field	Type	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
description	string	N/A	No
documentType	string	N/A	No
version	string	N/A	No
category	array	CategoryRef	No
creationDate	string	date-time	No
expiryDate	string	date-time	No
documentRelationship	array	DocumentRefOrValue	No
lastUpdate	string	date-time	No
lifecycleState	string	N/A	No
attachment	array	Attachment	No
characteristic	array	Characteristic	No
relatedEntity	RelatedEntity	N/A	No
relatedParty	array	RelatedPartyRefOrPartyRoleRef	No
externalIdentifier	array	ExternalIdentifier	No
validFor	TimePeriod	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"Document"	Yes

Table 4.117: Fields of Document.

## 4.118 DocumentRef

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"DocumentRef"	Yes

Table 4.118: Fields of DocumentRef.

## 4.119 DocumentRefOrValue

Field	Type	Format	Required
@type	string	oneOf["Document", "DocumentRef"]	Yes

Table 4.119: Fields of DocumentRefOrValue.

## 4.120 DocumentRefOrValue\_FVO

Field	Type	Format	Required
@type	string	oneOf["Document", "DocumentRef"]	Yes

Table 4.120: Fields of DocumentRefOrValue\_FVO.

## 4.121 DocumentRefOrValue\_MVO

Field	Type	Format	Required
@type	string	oneOf["Document", "DocumentRef"]	Yes

Table 4.121: Fields of DocumentRefOrValue\_MVO.



## 4.122 DocumentRef\_FVO

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"DocumentRef"	Yes

Table 4.122: Fields of DocumentRef\_FVO.

## 4.123 DocumentRef\_MVO

Field	Type	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"DocumentRef"	Yes

Table 4.123: Fields of DocumentRef\_MVO.

## 4.124 Document\_FVO

Field	Type	Format	Required
id	string	N/A	No
name	string	N/A	Yes
description	string	N/A	No
documentType	string	N/A	No
version	string	N/A	No
category	array	CategoryRef_FVO	No
creationDate	string	date-time	No
expiryDate	string	date-time	No
documentRelationship	array	DocumentRefOrValue_FVO	No
lastUpdate	string	date-time	No
lifecycleState	string	N/A	No
characteristic	array	Characteristic_FVO	No
relatedEntity	RelatedEntity_FVO	N/A	No
relatedParty	array	RelatedPartyRefOrPartyRoleRef_FVO	No
externalIdentifier	array	ExternalIdentifier_FVO	No
validFor	TimePeriod	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"Document"	Yes

Table 4.124: Fields of Document\_FVO.

## 4.125 Document\_MVO

Field	Type	Format	Required
name	string	N/A	No
description	string	N/A	No
documentType	string	N/A	No
version	string	N/A	No
category	array	CategoryRef_MVO	No
creationDate	string	date-time	No
expiryDate	string	date-time	No
documentRelationship	array	DocumentRefOrValue_MVO	No
lastUpdate	string	date-time	No
lifecycleState	string	N/A	No
characteristic	array	Characteristic_MVO	No
relatedEntity	RelatedEntity_MVO	N/A	No
relatedParty	array	RelatedPartyRefOrPartyRoleRef_MVO	No
externalIdentifier	array	ExternalIdentifier_MVO	No
validFor	TimePeriod	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"Document"	Yes

Table 4.125: Fields of Document\_MVO.



4.126 Duration

A time interval in a given unit of time

Field	Type	Format	Required
amount	integer	N/A	No
units	string	N/A	No

Table 4.126: Fields of Duration.

## 4.127 EmailContactMedium

Field	Type	Format	Required
id	string	N/A	No
preferred	boolean	N/A	No
contactType	string	N/A	No
validFor	TimePeriod	N/A	No
emailAddress	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	N/A	Yes

Table 4.127: Fields of EmailContactMedium.

## 4.128 EmailContactMedium\_FVO

Field	Type	Format	Required
id	string	N/A	No
preferred	boolean	N/A	No
contactType	string	N/A	No
validFor	TimePeriod	N/A	No
emailAddress	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	N/A	Yes

Table 4.128: Fields of EmailContactMedium\_FVO.

## 4.129 EmailContactMedium\_MVO

Field	Type	Format	Required
id	string	N/A	No
preferred	boolean	N/A	No
contactType	string	N/A	No
validFor	TimePeriod	N/A	No
emailAddress	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	N/A	Yes

Table 4.129: Fields of EmailContactMedium\_MVO.



## 4.130 EndpointSpecificationRef

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
role	string	N/A	No
isRoot	boolean	N/A	No
connectionPointSpecification	ConnectionPointSpecificationRef	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"EndpointSpecificationRef"	Yes

Table 4.130: Fields of EndpointSpecificationRef.

## 4.131 Entity

Base entity schema for use in TMForum Open-APIs

Field	Type	Format	Required
id	string	N/A	No
href	string	uri	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	N/A	Yes

Table 4.131: Fields of Entity.

## 4.132 EntityRef

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	N/A	Yes
@referredType	string	N/A	No

Table 4.132: Fields of EntityRef.

## 4.133 EntityRef\_FVO

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	N/A	Yes
@referredType	string	N/A	No

Table 4.133: Fields of EntityRef\_FVO.

## 4.134 EntityRef\_MVO

Field	Type	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	N/A	Yes
@referredType	string	N/A	No

Table 4.134: Fields of EntityRef\_MVO.

## 4.135 EntityRelationship

A uni-directional relationship from this entity to a target entity instance

Field	Type	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
role	string	N/A	No
validFor	TimePeriod	N/A	No
associationSpec	EntityRef	N/A	No
relationshipType	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	N/A	No
@referredType	string	N/A	No

Table 4.135: Fields of EntityRelationship.

## 4.136 EntityRelationship\_FVO

A uni-directional relationship from this entity to a target entity instance

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
role	string	N/A	No
validFor	TimePeriod	N/A	No
associationSpec	EntityRef_FVO	N/A	No
relationshipType	string	N/A	Yes
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	N/A	Yes
@referredType	string	N/A	Yes

Table 4.136: Fields of EntityRelationship\_FVO.

## 4.137 EntityRelationship\_MVO

A uni-directional relationship from this entity to a target entity instance

Field	Type	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
role	string	N/A	No
validFor	TimePeriod	N/A	No
associationSpec	EntityRef	N/A	No
relationshipType	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	N/A	No
@referredType	string	N/A	No

Table 4.137: Fields of EntityRelationship\_MVO.



## 4.138 EntitySpecification

Field	Type	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
description	string	N/A	No
lastUpdate	string	date-time	No
lifecycleStatus	string	N/A	No
isBundle	boolean	N/A	No
validFor	TimePeriod	N/A	No
version	string	N/A	No
attachment	array	AttachmentOrDocumentRef	No
targetEntitySchema	TargetEntitySchema	N/A	No
specCharacteristic	array	CharacteristicSpecification	No
relatedParty	array	RelatedPartyRefOrPartyRoleRef	No
constraint	array	ConstraintRef	No
entitySpecRelationship	array	EntitySpecificationRelationship	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	oneOf["EntitySpecification", "ServiceSpecification"]	Yes

Table 4.138: Fields of EntitySpecification.

## 4.139 EntitySpecificationRelationship

A migration, substitution, dependency or exclusivity relationship between/among entity specifications.

Field	Type	Format	Required
href	string	uri	No
name	string	N/A	No
role	string	N/A	No
validFor	TimePeriod	N/A	No
associationSpec	AssociationSpecificationRef	N/A	No
relationshipType	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No

Table 4.139: Fields of EntitySpecificationRelationship.

## 4.140 EntitySpecificationRelationship\_FVO

A migration, substitution, dependency or exclusivity relationship between/among entity specifications.

Field	Type	Format	Required
href	string	uri	No
name	string	N/A	No
role	string	N/A	Yes
validFor	TimePeriod	N/A	Yes
associationSpec	AssociationSpecification-Ref_FVO	N/A	Yes
relationshipType	string	N/A	Yes
@baseType	string	N/A	No
@schemaLocation	string	N/A	No

Table 4.140: Fields of EntitySpecificationRelationship\_FVO.

## 4.141 EntitySpecificationRelationship\_MVO

A migration, substitution, dependency or exclusivity relationship between/among entity specifications.

Field	Type	Format	Required
href	string	uri	No
name	string	N/A	No
role	string	N/A	No
validFor	TimePeriod	N/A	No
associationSpec	AssociationSpecification-Ref_MVO	N/A	No
relationshipType	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No

Table 4.141: Fields of EntitySpecificationRelationship\_MVO.

## 4.142 EntitySpecification\_FVO

Field	Type	Format	Required
id	string	N/A	No
name	string	N/A	Yes
description	string	N/A	No
lastUpdate	string	date-time	No
lifecycleStatus	string	N/A	No
isBundle	boolean	N/A	No
validFor	TimePeriod	N/A	No
version	string	N/A	No
attachment	array	AttachmentOrDocumentRef	No
targetEntitySchema	TargetEntitySchema_FVO	N/A	No
specCharacteristic	array	CharacteristicSpecifica- tion_FVO	No
relatedParty	array	RelatedPartyRefOrPartyRol- eRef_FVO	No
constraint	array	ConstraintRef_FVO	No
entitySpecRelationship	array	EntitySpecificationRelation- ship_FVO	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	oneOf["EntitySpecification", "ServiceSpecification"]	Yes

Table 4.142: Fields of EntitySpecification\_FVO.

## 4.143 EntitySpecification\_MVO

Field	Type	Format	Required
name	string	N/A	No
description	string	N/A	No
lastUpdate	string	date-time	No
lifecycleStatus	string	N/A	No
isBundle	boolean	N/A	No
validFor	TimePeriod	N/A	No
version	string	N/A	No
attachment	array	AttachmentOrDocumentRef	No
targetEntitySchema	TargetEntitySchema_MVO	N/A	No
specCharacteristic	array	CharacteristicSpecification_MVO	No
relatedParty	array	RelatedPartyRefOrPartyRoleRef_MVO	No
constraint	array	ConstraintRef_MVO	No
entitySpecRelationship	array	EntitySpecificationRelationship_MVO	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	oneOf["EntitySpecification", "ServiceSpecification"]	Yes

Table 4.143: Fields of EntitySpecification\_MVO.

## 4.144 Entity\_FVO

Base entity schema for use in TMForum Open-APIs. Property.

Field	Type	Format	Required
id	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	N/A	Yes

Table 4.144: Fields of Entity\_FVO.

## 4.145 Entity\_MVO

Base entity schema for use in TMForum Open-APIs. Property.

Field	Type	Format	Required
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	N/A	Yes

Table 4.145: Fields of Entity\_MVO.



## 4.146 Error

Used when an API throws an Error, typically with a HTTP error response-code (3xx, 4xx, 5xx)

Field	Type	Format	Required
code	string	N/A	Yes
reason	string	N/A	Yes
message	string	N/A	No
status	string	N/A	No
referenceError	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"Error"	Yes

Table 4.146: Fields of Error.

## 4.147 Error400

'Bad Request. (<https://tools.ietf.org/html/rfc7231#section-6.5.1>)'

Field	Type	Format	Required
code	string	N/A	Yes
reason	string	N/A	Yes
message	string	N/A	No
status	string	N/A	No
referenceError	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	N/A	Yes

Table 4.147: Fields of Error400.

## 4.148 Error401

'Unauthorized. (<https://tools.ietf.org/html/rfc7235#section-3.1>)'

Field	Type	Format	Required
code	string	N/A	Yes
reason	string	N/A	Yes
message	string	N/A	No
status	string	N/A	No
referenceError	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	N/A	Yes

Table 4.148: Fields of Error401.

## 4.149 Error403

Forbidden. This code indicates that the server understood the request but refused to authorize it. (<https://tools.ietf.org/html/rfc6553>)

Field	Type	Format	Required
code	string	N/A	Yes
reason	string	N/A	Yes
message	string	N/A	No
status	string	N/A	No
referenceError	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	N/A	Yes

Table 4.149: Fields of Error403.

## 4.150 Error404

Resource for the requested path not found. (<https://tools.ietf.org/html/rfc7231#section-6.5.4>)

Field	Type	Format	Required
code	string	N/A	Yes
reason	string	N/A	Yes
message	string	N/A	No
status	string	N/A	No
referenceError	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	N/A	Yes

Table 4.150: Fields of Error404.

## 4.151 Error422

Unprocessable entity due to a business validation problem. (<https://tools.ietf.org/html/rfc4918#section-11.2>)

Field	Type	Format	Required
code	string	N/A	Yes
reason	string	N/A	Yes
message	string	N/A	No
status	string	N/A	No
referenceError	string	N/A	No
propertyPath	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	N/A	Yes

Table 4.151: Fields of Error422.

## 4.152 Error500

Internal Server Error. (<https://tools.ietf.org/html/rfc7231#section-6.6.1>)

Field	Type	Format	Required
code	string	N/A	Yes
reason	string	N/A	Yes
message	string	N/A	No
status	string	N/A	No
referenceError	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	N/A	Yes

Table 4.152: Fields of Error500.

## 4.153 Error501

Not Implemented. Used in case Seller is not supporting an optional operation (<https://tools.ietf.org/html/rfc7231#section-6.6.2>)

Field	Type	Format	Required
code	string	N/A	Yes
reason	string	N/A	Yes
message	string	N/A	No
status	string	N/A	No
referenceError	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	N/A	Yes

Table 4.153: Fields of Error501.



## 4.154 ErrorMessage

Field	Type	Format	Required
code	string	N/A	No
reason	string	N/A	No
message	string	N/A	No
status	string	N/A	No
referenceError	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	oneOf["ErrorMessage", "ProductOrderErrorMessage"]	Yes

Table 4.154: Fields of ErrorMessage.

## 4.155 ErrorMessage\_FVO

Field	Type	Format	Required
code	string	N/A	No
reason	string	N/A	No
message	string	N/A	No
status	string	N/A	No
referenceError	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	oneOf["ErrorMessage", "ProductOrderErrorMessage"]	Yes

Table 4.155: Fields of ErrorMessage\_FVO.

## 4.156 ErrorMessage\_MVO

Field	Type	Format	Required
code	string	N/A	No
reason	string	N/A	No
message	string	N/A	No
status	string	N/A	No
referenceError	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	oneOf["ErrorMessage", "ProductOrderErrorMessage"]	Yes

Table 4.156: Fields of ErrorMessage\_MVO.

## 4.157 Event

event with common attributes.

Field	Type	Format	Required
id	string	N/A	No
href	string	uri	No
description	string	N/A	No
correlationId	string	N/A	No
domain	string	N/A	No
eventId	string	N/A	No
eventTime	string	date-time	No
eventType	string	N/A	No
priority	string	N/A	No
timeOccurred	string	date-time	No
title	string	N/A	No
analyticCharacteristic	array	Characteristic	No
event	any	N/A	No
relatedParty	array	RelatedParty	No
reportingSystem	EntityRef	N/A	No
source	EntityRef	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.157: Fields of Event.

## 4.158 Event\_Create

event with common attributes. Skipped properties: id,href

Field	Type	Format	Required
description	string	N/A	No
correlationId	string	N/A	No
domain	string	N/A	No
eventId	string	N/A	No
eventTime	string	date-time	No
eventType	string	N/A	No
priority	string	N/A	No
timeOccurred	string	date-time	No
title	string	N/A	No
analyticCharacteristic	array	Characteristic	No
event	any	N/A	No
relatedParty	array	RelatedParty	No
reportingSystem	EntityRef	N/A	No
source	EntityRef	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.158: Fields of Event\_Create.

## 4.159 Expression

Field	Type	Format	Required
expressionLanguage	ExpressionLanguageEnum	N/A	No
iri	string	N/A	No
expressionValue	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"Expression"	Yes

Table 4.159: Fields of Expression.

## 4.160 ExpressionLanguageEnum

Possible values for the serialized Expression language of an intent or Intent report

Field	Type	Format	Required
ExpressionLanguageEnum	string	oneOf[Turtle, JSON-LD, RDF-XML, Other]	No

Table 4.160: Fields of ExpressionLanguageEnum.

## 4.161 Expression\_FVO

Field	Type	Format	Required
expressionLanguage	ExpressionLanguageEnum	N/A	No
iri	string	N/A	No
expressionValue	string	N/A	Yes
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"Expression"	Yes

Table 4.161: Fields of Expression\_FVO.



## 4.162 Expression\_MVO

Field	Type	Format	Required
expressionLanguage	ExpressionLanguageEnum	N/A	No
iri	string	N/A	No
expressionValue	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"Expression"	Yes

Table 4.162: Fields of Expression\_MVO.

## 4.163 Extensible

Base Extensible schema for use in TMForum Open-APIs - When used for in a schema it means that the Entity described by the schema **MUST** be extended with the @type

Field	Type	Format	Required
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	N/A	Yes

Table 4.163: Fields of Extensible.

## 4.164 Extensible\_FVO

Base Extensible schema for use in TMForum Open-APIs - When used for in a schema it means that the Entity described by the schema MUST be extended with the @type

Field	Type	Format	Required
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	N/A	Yes

Table 4.164: Fields of Extensible\_FVO.

## 4.165 ExternalIdentifier

Field	Type	Format	Required
id	string	N/A	No
owner	string	N/A	No
externalIdentifierType	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"ExternalIdentifier"	Yes

Table 4.165: Fields of ExternalIdentifier.

## 4.166 ExternalIdentifier\_FVO

Field	Type	Format	Required
id	string	N/A	Yes
owner	string	N/A	No
externalIdentifierType	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"ExternalIdentifier"	Yes

Table 4.166: Fields of ExternalIdentifier\_FVO.

## 4.167 ExternalIdentifier\_MVO

Field	Type	Format	Required
id	string	N/A	No
owner	string	N/A	No
externalIdentifierType	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"ExternalIdentifier"	Yes

Table 4.167: Fields of ExternalIdentifier\_MVO.

## 4.168 FaxContactMedium

Field	Type	Format	Required
id	string	N/A	No
preferred	boolean	N/A	No
contactType	string	N/A	No
validFor	TimePeriod	N/A	No
faxNumber	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	N/A	Yes

Table 4.168: Fields of FaxContactMedium.

## 4.169 FaxContactMedium\_FVO

Field	Type	Format	Required
id	string	N/A	No
preferred	boolean	N/A	No
contactType	string	N/A	No
validFor	TimePeriod	N/A	No
faxNumber	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	N/A	Yes

Table 4.169: Fields of FaxContactMedium\_FVO.



## 4.170 FaxContactMedium\_MVO

Field	Type	Format	Required
id	string	N/A	No
preferred	boolean	N/A	No
contactType	string	N/A	No
validFor	TimePeriod	N/A	No
faxNumber	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	N/A	Yes

Table 4.170: Fields of FaxContactMedium\_MVO.

## 4.171 Feature

Field	Type	Format	Required
id	string	N/A	No
name	string	N/A	No
isBundle	boolean	N/A	No
featureRelationship	array	FeatureRelationship	No
featureCharacteristic	array	Characteristic	No
policyConstraint	array	PolicyRef	No
isEnabled	boolean	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"Feature"	Yes

Table 4.171: Fields of Feature.

## 4.172 FeatureRelationship

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
relationshipType	string	oneOf[excluded, includes, may include, requires]	No
validFor	TimePeriod	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"FeatureRelationship"	Yes

Table 4.172: Fields of FeatureRelationship.

## 4.173 FeatureRelationship\_FVO

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
relationshipType	string	oneOf[excluded, includes, may include, requires]	Yes
validFor	TimePeriod	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"FeatureRelationship"	Yes

Table 4.173: Fields of FeatureRelationship\_FVO.

## 4.174 FeatureRelationship\_MVO

Field	Type	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
relationshipType	string	oneOf[excluded, includes, may include, requires]	No
validFor	TimePeriod	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"FeatureRelationship"	Yes

Table 4.174: Fields of FeatureRelationship\_MVO.

## 4.175 FeatureSpecification

Field	Type	Format	Required
id	string	N/A	No
name	string	N/A	No
version	string	N/A	No
isBundle	boolean	N/A	No
validFor	TimePeriod	N/A	No
featureSpecRelationship	array	FeatureSpecificationRelationship	No
policyConstraint	array	PolicyRef	No
isEnabled	boolean	N/A	No
featureSpecCharacteristic	array	CharacteristicSpecification	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"FeatureSpecification"	Yes

Table 4.175: Fields of FeatureSpecification.

## 4.176 FeatureSpecificationRelationship

Field	Type	Format	Required
name	string	N/A	No
relationshipType	string	oneOf[excluded, includes, may include, requires]	No
featureId	string	N/A	No
parentSpecificationId	string	N/A	No
parentSpecificationHref	string	uri	No
validFor	TimePeriod	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"FeatureSpecificationRelationship"	Yes

Table 4.176: Fields of FeatureSpecificationRelationship.

## 4.177 FeatureSpecificationRelationship\_FVO

Field	Type	Format	Required
name	string	N/A	Yes
relationshipType	string	oneOf[excluded, includes, may include, requires]	Yes
featureId	string	N/A	No
parentSpecificationId	string	N/A	No
parentSpecificationHref	string	uri	No
validFor	TimePeriod	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"FeatureSpecificationRelationship"	Yes

Table 4.177: Fields of FeatureSpecificationRelationship\_FVO.



## 4.178 FeatureSpecificationRelationship\_MVO

Field	Type	Format	Required
name	string	N/A	Yes
relationshipType	string	oneOf[excluded, includes, may include, requires]	Yes
featureId	string	N/A	No
parentSpecificationId	string	N/A	No
parentSpecificationHref	string	uri	No
validFor	TimePeriod	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"FeatureSpecificationRelationship"	Yes

Table 4.178: Fields of FeatureSpecificationRelationship\_MVO.

## 4.179 FeatureSpecification\_FVO

Field	Type	Format	Required
id	string	N/A	No
name	string	N/A	Yes
version	string	N/A	No
isBundle	boolean	N/A	No
validFor	TimePeriod	N/A	No
featureSpecRelationship	array	FeatureSpecificationRelationship_FVO	No
policyConstraint	array	PolicyRef_FVO	No
isEnabled	boolean	N/A	No
featureSpecCharacteristic	array	CharacteristicSpecification_FVO	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"FeatureSpecification"	Yes

Table 4.179: Fields of FeatureSpecification\_FVO.

## 4.180 FeatureSpecification\_MVO

Field	Type	Format	Required
id	string	N/A	No
name	string	N/A	Yes
version	string	N/A	No
isBundle	boolean	N/A	No
validFor	TimePeriod	N/A	No
featureSpecRelationship	array	FeatureSpecificationRelationship_MVO	No
policyConstraint	array	PolicyRef_MVO	No
isEnabled	boolean	N/A	No
featureSpecCharacteristic	array	CharacteristicSpecification_MVO	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"FeatureSpecification"	Yes

Table 4.180: Fields of FeatureSpecification\_MVO.

## 4.181 Feature\_FVO

Field	Type	Format	Required
id	string	N/A	No
name	string	N/A	Yes
isBundle	boolean	N/A	No
featureRelationship	array	FeatureRelationship_FVO	No
featureCharacteristic	array	Characteristic_FVO	No
policyConstraint	array	PolicyRef_FVO	No
isEnabled	boolean	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"Feature"	Yes

Table 4.181: Fields of Feature\_FVO.

## 4.182 Feature\_MVO

Field	Type	Format	Required
id	string	N/A	No
name	string	N/A	No
isBundle	boolean	N/A	No
featureRelationship	array	FeatureRelationship_MVO	No
featureCharacteristic	array	Characteristic_MVO	No
policyConstraint	array	PolicyRef_MVO	No
isEnabled	boolean	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"Feature"	Yes

Table 4.182: Fields of Feature\_MVO.

## 4.183 FileTransferData

Defines the place where the report content should be stored.

Field	Type	Format	Required
fileFormat	string	N/A	No
fileLocation	string	uri	No
transportProtocol	string	N/A	No
compressionType	string	oneOf[NO_PACKING, GZIP, TAR, VENDOR_EXT, MINOR_EXT]	No
packingType	string	N/A	No
retentionPeriod	string	N/A	No

Table 4.183: Fields of FileTransferData.

## 4.184 FinancialAccountRef

AccountReceivable reference. An account of money owed by a party to another entity in exchange for goods or services that have been delivered or used. An account receivable aggregates the amounts of one or more party accounts (billing or settlement) owned by a given party.

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"FinancialAccountRef"	Yes

Table 4.184: Fields of FinancialAccountRef.

## 4.185 FloatArrayCharacteristic

Field	Type	Format	Required
id	string	N/A	No
name	string	N/A	No
valueType	string	N/A	No
characteristicRelationship	array	CharacteristicRelationship	No
unitOfMeasure	string	N/A	No
value	array	number	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"FloatArrayCharacteristic"	Yes

Table 4.185: Fields of FloatArrayCharacteristic.



## 4.186 FloatArrayCharacteristic\_FVO

Field	Type	Format	Required
id	string	N/A	No
name	string	N/A	Yes
valueType	string	N/A	No
characteristicRelationship	array	CharacteristicRelationship_FVO	No
unitOfMeasure	string	N/A	No
value	array	number	Yes
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"FloatArrayCharacteristic"	Yes

Table 4.186: Fields of FloatArrayCharacteristic\_FVO.

## 4.187 FloatArrayCharacteristic\_MVO

Field	Type	Format	Required
id	string	N/A	No
name	string	N/A	No
valueType	string	N/A	No
characteristicRelationship	array	CharacteristicRelationship_MVO	No
unitOfMeasure	string	N/A	No
value	array	number	Yes
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"FloatArrayCharacteristic"	Yes

Table 4.187: Fields of FloatArrayCharacteristic\_MVO.

## 4.188 FloatCharacteristic

Field	Type	Format	Required
id	string	N/A	No
name	string	N/A	No
valueType	string	N/A	No
characteristicRelationship	array	CharacteristicRelationship	No
unitOfMeasure	string	N/A	No
value	number	float	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"FloatCharacteristic"	Yes

Table 4.188: Fields of FloatCharacteristic.

## 4.189 FloatCharacteristic\_FVO

Field	Type	Format	Required
id	string	N/A	No
name	string	N/A	Yes
valueType	string	N/A	No
characteristicRelationship	array	CharacteristicRelationship_FVO	No
unitOfMeasure	string	N/A	No
value	number	float	Yes
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"FloatCharacteristic"	Yes

Table 4.189: Fields of FloatCharacteristic\_FVO.

## 4.190 FloatCharacteristic\_MVO

Field	Type	Format	Required
id	string	N/A	No
name	string	N/A	No
valueType	string	N/A	No
characteristicRelationship	array	CharacteristicRelationship_MVO	No
unitOfMeasure	string	N/A	No
value	number	float	Yes
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"FloatCharacteristic"	Yes

Table 4.190: Fields of FloatCharacteristic\_MVO.

## 4.191 GeographicAddress

Field	Type	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
city	string	N/A	No
country	string	N/A	No
locality	string	N/A	No
postcode	string	N/A	No
stateOrProvince	string	N/A	No
streetName	string	N/A	No
streetNr	string	N/A	No
streetNrLast	string	N/A	No
streetNrLastSuffix	string	N/A	No
streetNrSuffix	string	N/A	No
streetSuffix	string	N/A	No
streetType	string	N/A	No
countryCode	array	StandardIdentifier	No
externalIdentifier	array	ExternalIdentifier	No
geographicLocation	GeographicLocationRefOr-Value	N/A	No
geographicSubAddress	array	GeographicSubAddress	No
geographicAddressType	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"GeographicAddress"	Yes

Table 4.191: Fields of GeographicAddress.

## 4.192 GeographicAddressContactMedium

Field	Type	Format	Required
id	string	N/A	No
preferred	boolean	N/A	No
contactType	string	N/A	No
validFor	TimePeriod	N/A	No
city	string	N/A	No
country	string	N/A	No
postCode	string	N/A	No
stateOrProvince	string	N/A	No
street1	string	N/A	No
street2	string	N/A	No
geographicAddress	GeographicAddressRef	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	N/A	Yes

Table 4.192: Fields of GeographicAddressContactMedium.

## 4.193 GeographicAddressContactMedium\_FVO

Field	Type	Format	Required
id	string	N/A	No
preferred	boolean	N/A	No
contactType	string	N/A	No
validFor	TimePeriod	N/A	No
city	string	N/A	No
country	string	N/A	No
postCode	string	N/A	No
stateOrProvince	string	N/A	No
street1	string	N/A	No
street2	string	N/A	No
geographicAddress	GeographicAddress-Ref_FVO	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	N/A	Yes

Table 4.193: Fields of GeographicAddressContactMedium\_FVO.



## 4.194 GeographicAddressContactMedium\_MVO

Field	Type	Format	Required
id	string	N/A	No
preferred	boolean	N/A	No
contactType	string	N/A	No
validFor	TimePeriod	N/A	No
city	string	N/A	No
country	string	N/A	No
postCode	string	N/A	No
stateOrProvince	string	N/A	No
street1	string	N/A	No
street2	string	N/A	No
geographicAddress	GeographicAddress-Ref_MVO	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	N/A	Yes

Table 4.194: Fields of GeographicAddressContactMedium\_MVO.

## 4.195 GeographicAddressRef

Reference to a Geographic Address.

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"GeographicAddressRef"	Yes

Table 4.195: Fields of GeographicAddressRef.

## 4.196 GeographicAddressRef\_FVO

Reference to a Geographic Address.

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"GeographicAddressRef"	Yes

Table 4.196: Fields of GeographicAddressRef\_FVO.

## 4.197 GeographicAddressRef\_MVO

Reference to a Geographic Address.

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"GeographicAddressRef"	Yes

Table 4.197: Fields of GeographicAddressRef\_MVO.

## 4.198 GeographicAddress\_FVO

Field	Type	Format	Required
id	string	N/A	No
name	string	N/A	No
city	string	N/A	No
country	string	N/A	No
locality	string	N/A	No
postcode	string	N/A	No
stateOrProvince	string	N/A	No
streetName	string	N/A	No
streetNr	string	N/A	No
streetNrLast	string	N/A	No
streetNrLastSuffix	string	N/A	No
streetNrSuffix	string	N/A	No
streetSuffix	string	N/A	No
streetType	string	N/A	No
countryCode	array	StandardIdentifier_FVO	No
externalIdentifier	array	ExternalIdentifier_FVO	No
geographicLocation	GeographicLocationRefOr-Value_FVO	N/A	No
geographicSubAddress	array	GeographicSubAddress_FVO	No
geographicAddressType	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"GeographicAddress"	Yes

Table 4.198: Fields of GeographicAddress\_FVO.

## 4.199 GeographicAddress\_MVO

Field	Type	Format	Required
name	string	N/A	No
city	string	N/A	No
country	string	N/A	No
locality	string	N/A	No
postcode	string	N/A	No
stateOrProvince	string	N/A	No
streetName	string	N/A	No
streetNr	string	N/A	No
streetNrLast	string	N/A	No
streetNrLastSuffix	string	N/A	No
streetNrSuffix	string	N/A	No
streetSuffix	string	N/A	No
streetType	string	N/A	No
countryCode	array	StandardIdentifier_MVO	No
externalIdentifier	array	ExternalIdentifier_MVO	No
geographicLocation	GeographicLocationRefOr-Value_MVO	N/A	No
geographicSubAddress	array	GeographicSubAddress_MVO	No
geographicAddressType	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"GeographicAddress"	Yes

Table 4.199: Fields of GeographicAddress\_MVO.

## 4.200 GeographicLocation

Field	Type	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
geoJson	Geometry	N/A	No
bbox	array	number	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"GeographicLocation"	Yes

Table 4.200: Fields of GeographicLocation.

## 4.201 GeographicLocationRef

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"GeographicLocationRef"	Yes

Table 4.201: Fields of GeographicLocationRef.



## 4.202 GeographicLocationRefOrValue

The polymorphic attributes @type, @schemaLocation & @referredType are related to the GeographicLocation entity and not the GeographicLocationRefOrValue class itself

Field	Type	Format	Required
@type	string	oneOf["GeographicLocation", "GeographicLocationRef"]	Yes

Table 4.202: Fields of GeographicLocationRefOrValue.

## 4.203 GeographicLocationRefOrValue\_FVO

The polymorphic attributes @type, @schemaLocation & @referredType are related to the GeographicLocation entity and not the GeographicLocationRefOrValue class itself

Field	Type	Format	Required
@type	string	oneOf["GeographicLocation", "GeographicLocationRef"]	Yes

Table 4.203: Fields of GeographicLocationRefOrValue\_FVO.

## 4.204 GeographicLocationRefOrValue\_MVO

The polymorphic attributes @type, @schemaLocation & @referredType are related to the GeographicLocation entity and not the GeographicLocationRefOrValue class itself

Field	Type	Format	Required
@type	string	oneOf["GeographicLocation", "GeographicLocationRef"]	Yes

Table 4.204: Fields of GeographicLocationRefOrValue\_MVO.

## 4.205 GeographicLocationRef\_FVO

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"GeographicLocationRef"	Yes

Table 4.205: Fields of GeographicLocationRef\_FVO.

## 4.206 GeographicLocationRef\_MVO

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"GeographicLocationRef"	Yes

Table 4.206: Fields of GeographicLocationRef\_MVO.

## 4.207 GeographicLocation\_FVO

Field	Type	Format	Required
id	string	N/A	No
name	string	N/A	No
geoJson	Geometry	N/A	No
bbox	array	number	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"GeographicLocation"	Yes

Table 4.207: Fields of GeographicLocation\_FVO.

## 4.208 GeographicLocation\_MVO

Field	Type	Format	Required
name	string	N/A	No
geoJson	Geometry	N/A	No
bbox	array	number	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"GeographicLocation"	Yes

Table 4.208: Fields of GeographicLocation\_MVO.

## 4.209 GeographicSite

Field	Type	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
description	string	N/A	No
code	string	N/A	No
creationDate	string	date-time	No
status	string	N/A	No
relatedParty	array	RelatedPartyOrPartyRole	No
externalIdentifier	array	ExternalIdentifier	No
calendar	array	CalendarPeriod	No
place	array	PlaceRefOrValue	No
siteRelationship	array	GeographicSiteRelationship	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"GeographicSite"	Yes

Table 4.209: Fields of GeographicSite.



## 4.210 GeographicSiteRelationship

Field	Type	Format	Required
id	string	N/A	No
href	string	uri	No
role	string	N/A	No
validFor	TimePeriod	N/A	No
relationshipType	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"GeographicSiteRelationship"	Yes

Table 4.210: Fields of GeographicSiteRelationship.

## 4.211 GeographicSiteRelationship\_FVO

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
role	string	N/A	No
validFor	TimePeriod	N/A	No
relationshipType	string	N/A	Yes
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"GeographicSiteRelationship"	Yes

Table 4.211: Fields of GeographicSiteRelationship\_FVO.

## 4.212 GeographicSiteRelationship\_MVO

Field	Type	Format	Required
id	string	N/A	No
href	string	uri	No
role	string	N/A	No
validFor	TimePeriod	N/A	No
relationshipType	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"GeographicSiteRelationship"	Yes

Table 4.212: Fields of GeographicSiteRelationship\_MVO.

## 4.213 GeographicSite\_FVO

Field	Type	Format	Required
id	string	N/A	No
name	string	N/A	No
description	string	N/A	No
code	string	N/A	No
creationDate	string	date-time	No
status	string	N/A	No
relatedParty	array	RelatedPartyOrParty- Role_FVO	No
externalIdentifier	array	ExternalIdentifier_FVO	No
calendar	array	CalendarPeriod_FVO	No
place	array	PlaceRefOrValue_FVO	No
siteRelationship	array	GeographicSiteRelation- ship_FVO	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"GeographicSite"	Yes

Table 4.213: Fields of GeographicSite\_FVO.

## 4.214 GeographicSite\_MVO

Field	Type	Format	Required
name	string	N/A	No
description	string	N/A	No
code	string	N/A	No
creationDate	string	date-time	No
status	string	N/A	No
relatedParty	array	RelatedPartyOrParty-Role_MVO	No
externalIdentifier	array	ExternalIdentifier_MVO	No
calendar	array	CalendarPeriod_MVO	No
place	array	PlaceRefOrValue_MVO	No
siteRelationship	array	GeographicSiteRelationship_MVO	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"GeographicSite"	Yes

Table 4.214: Fields of GeographicSite\_MVO.

## 4.215 GeographicSubAddress

Field	Type	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
buildingName	string	N/A	No
levelNumber	string	N/A	No
levelType	string	N/A	No
privateStreetName	string	N/A	No
privateStreetNumber	string	N/A	No
subUnit	array	GeographicSubAddressUnit	No
subAddressType	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"GeographicSubAddress"	Yes

Table 4.215: Fields of GeographicSubAddress.

## 4.216 GeographicSubAddressUnit

Field	Type	Format	Required
subUnitNumber	string	N/A	No
subUnitType	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"GeographicSubAddressUnit"	Yes

Table 4.216: Fields of GeographicSubAddressUnit.

## 4.217 GeographicSubAddressUnit\_FVO

Field	Type	Format	Required
subUnitNumber	string	N/A	Yes
subUnitType	string	N/A	Yes
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"GeographicSubAddressUnit"	Yes

Table 4.217: Fields of GeographicSubAddressUnit\_FVO.



## 4.218 GeographicSubAddressUnit\_MVO

Field	Type	Format	Required
subUnitNumber	string	N/A	No
subUnitType	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"GeographicSubAddressUnit"	Yes

Table 4.218: Fields of GeographicSubAddressUnit\_MVO.

## 4.219 GeographicSubAddress\_FVO

Field	Type	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
buildingName	string	N/A	No
levelNumber	string	N/A	No
levelType	string	N/A	No
privateStreetName	string	N/A	No
privateStreetNumber	string	N/A	No
subUnit	array	GeographicSubAddressUnit_FVO	No
subAddressType	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"GeographicSubAddress"	Yes

Table 4.219: Fields of GeographicSubAddress\_FVO.

## 4.220 GeographicSubAddress\_MVO

Field	Type	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
buildingName	string	N/A	No
levelNumber	string	N/A	No
levelType	string	N/A	No
privateStreetName	string	N/A	No
privateStreetNumber	string	N/A	No
subUnit	array	GeographicSubAddressUnit_MVO	No
subAddressType	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"GeographicSubAddress"	Yes

Table 4.220: Fields of GeographicSubAddress\_MVO.



4.221 Geometry

A GeoJson geometry.

Field	Type	Format	Required
type	string	oneOf["LineString", "MultiLineString", "MultiPoint", "MultiPolygon", "Point", "Polygon"]	Yes

Table 4.221: Fields of Geometry.

## 4.222 HourPeriod

Field	Type	Format	Required
endHour	string	N/A	No
startHour	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"HourPeriod"	Yes

Table 4.222: Fields of HourPeriod.

## 4.223 HourPeriod\_FVO

Field	Type	Format	Required
endHour	string	N/A	No
startHour	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"HourPeriod"	Yes

Table 4.223: Fields of HourPeriod\_FVO.

## 4.224 HourPeriod\_MVO

Field	Type	Format	Required
endHour	string	N/A	No
startHour	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"HourPeriod"	Yes

Table 4.224: Fields of HourPeriod\_MVO.

## 4.225 HourRange

Defines start and end date

Field	Type	Format	Required
start	string	date-time	No
end	string	date-time	No

Table 4.225: Fields of HourRange.



## 4.226 HubSubscription

A Hub is used to subscribe to an event notification

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
callback	string	uri	Yes
query	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.226: Fields of HubSubscription.

## 4.227 HubSubscription\_Create

A Hub is used to subscribe to an event notification Skipped properties: id,href

Field	Type	Format	Required
callback	string	uri	Yes
query	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.227: Fields of HubSubscription\_Create.

## 4.228 Individual

Field	Type	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
externalReference	array	ExternalIdentifier	No
partyCharacteristic	array	Characteristic	No
taxExemptionCertificate	array	TaxExemptionCertificate	No
creditRating	array	PartyCreditProfile	No
relatedParty	array	RelatedPartyOrPartyRole	No
contactMedium	array	ContactMedium	No
gender	string	N/A	No
placeOfBirth	string	N/A	No
countryOfBirth	string	N/A	No
nationality	string	N/A	No
maritalStatus	string	N/A	No
birthDate	string	date-time	No
deathDate	string	date-time	No
title	string	N/A	No
aristocraticTitle	string	N/A	No
generation	string	N/A	No
preferredGivenName	string	N/A	No
familyNamePrefix	string	N/A	No
legalName	string	N/A	No
middleName	string	N/A	No
formattedName	string	N/A	No
location	string	N/A	No
status	IndividualStateType	N/A	No
otherName	array	OtherNameIndividual	No
individualIdentification	array	IndividualIdentification	No
disability	array	Disability	No
languageAbility	array	LanguageAbility	No
skill	array	Skill	No

Field	Type	Format	Required
familyName	string	N/A	No
givenName	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"Individual"	Yes

Table 4.228: Fields of Individual.

## 4.229 IndividualIdentification

Field	Type	Format	Required
identificationId	string	N/A	No
issuingAuthority	string	N/A	No
issuingDate	string	date-time	No
identificationType	string	N/A	No
validFor	TimePeriod	N/A	No
attachment	AttachmentOrDocumentRef	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"IndividualIdentification"	Yes

Table 4.229: Fields of IndividualIdentification.

## 4.230 IndividualIdentification\_FVO

Field	Type	Format	Required
identificationId	string	N/A	No
issuingAuthority	string	N/A	No
issuingDate	string	date-time	No
identificationType	string	N/A	No
validFor	TimePeriod	N/A	No
attachment	AttachmentOrDocumentRef	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"IndividualIdentification"	Yes

Table 4.230: Fields of IndividualIdentification\_FVO.

## 4.231 IndividualIdentification\_MVO

Field	Type	Format	Required
identificationId	string	N/A	No
issuingAuthority	string	N/A	No
issuingDate	string	date-time	No
identificationType	string	N/A	No
validFor	TimePeriod	N/A	No
attachment	AttachmentOrDocumentRef	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"IndividualIdentification"	Yes

Table 4.231: Fields of IndividualIdentification\_MVO.

## 4.232 IndividualStateType

Valid values for the lifecycle state of the individual

Field	Type	Format	Required
IndividualStateType	string	oneOf[initialized, validated, deceased]	No

Table 4.232: Fields of IndividualStateType.



## 4.233 Individual\_FVO

Field	Type	Format	Required
id	string	N/A	No
name	string	N/A	No
externalReference	array	ExternalIdentifier_FVO	No
partyCharacteristic	array	Characteristic_FVO	No
taxExemptionCertificate	array	TaxExemptionCertificate_FVO	No
creditRating	array	PartyCreditProfile_FVO	No
relatedParty	array	RelatedPartyOrParty-Role_FVO	No
contactMedium	array	ContactMedium_FVO	No
gender	string	N/A	No
placeOfBirth	string	N/A	No
countryOfBirth	string	N/A	No
nationality	string	N/A	No
maritalStatus	string	N/A	No
birthDate	string	date-time	No
deathDate	string	date-time	No
title	string	N/A	No
aristocraticTitle	string	N/A	No
generation	string	N/A	No
preferredGivenName	string	N/A	No
familyNamePrefix	string	N/A	No
legalName	string	N/A	No
middleName	string	N/A	No
formattedName	string	N/A	No
location	string	N/A	No
status	IndividualStateType	N/A	No
otherName	array	OtherNameIndividual	No
individualIdentification	array	IndividualIdentification_FVO	No
disability	array	Disability	No
languageAbility	array	LanguageAbility	No
skill	array	Skill	No

Field	Type	Format	Required
familyName	string	N/A	Yes
givenName	string	N/A	Yes
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"Individual"	Yes

Table 4.233: Fields of Individual\_FVO.

## 4.234 Individual\_MVO

Field	Type	Format	Required
name	string	N/A	No
externalReference	array	ExternalIdentifier_MVO	No
partyCharacteristic	array	Characteristic_MVO	No
taxExemptionCertificate	array	TaxExemptionCertificate_MVO	No
creditRating	array	PartyCreditProfile_MVO	No
relatedParty	array	RelatedPartyOrParty-Role_MVO	No
contactMedium	array	ContactMedium_MVO	No
gender	string	N/A	No
placeOfBirth	string	N/A	No
countryOfBirth	string	N/A	No
nationality	string	N/A	No
maritalStatus	string	N/A	No
birthDate	string	date-time	No
deathDate	string	date-time	No
title	string	N/A	No
aristocraticTitle	string	N/A	No
generation	string	N/A	No
preferredGivenName	string	N/A	No
familyNamePrefix	string	N/A	No
legalName	string	N/A	No
middleName	string	N/A	No
formattedName	string	N/A	No
location	string	N/A	No
status	IndividualStateType	N/A	No
otherName	array	OtherNameIndividual	No
individualIdentification	array	IndividualIdentification_MVO	No
disability	array	Disability	No
languageAbility	array	LanguageAbility	No
skill	array	Skill	No
familyName	string	N/A	No

Field	Type	Format	Required
givenName	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"Individual"	Yes

Table 4.234: Fields of Individual\_MVO.

## 4.235 InitialProductOrderStateType

Possible values for the requested initial state of the order from client- by default acknowledged is considered

Field	Type	Format	Required
InitialProductOrderStateType	string	oneOf[acknowledged, draft]	No

Table 4.235: Fields of InitialProductOrderStateType.

## 4.236 InquiredCharacteristicValueSpecification

specification of a value (number or text or an object) that can be assigned to a Characteristic.

Field	Type	Format	Required
precedence	CharacteristicValuePrecedence	N/A	No
unitOfMeasure	string	N/A	No
valueType	string	N/A	No
value	object	N/A	No

Table 4.236: Fields of InquiredCharacteristicValueSpecification.

## 4.237 InquiredProduct

A product inquired by the customer.

Field	Type	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
targetProductSchema	TargetProductSchema	N/A	No
servicePeriod	TimePeriod	N/A	No
place	array	RelatedPlaceRefOrValue	No
inquiredProductCharacteristic	array	InquiredProductCharacteristic	No
estimatedUsage	array	UsageEstimation	No

Table 4.237: Fields of InquiredProduct.

## 4.238 InquiredProductCharacteristic

A characteristic quality or distinctive feature of an InquiredProduct. The characteristic can take a discrete value, such as color, can take a range of values, (for example, sensitivity of 100-240 mV), or can be derived from a formula (for example, usage time (hrs) = 30 - talk time \*3).

Field	Type	Format	Required
id	string	N/A	Yes
name	string	N/A	No
priority	number	N/A	No
valueType	string	N/A	No
inquiredProductCharacteristicValue	array	InquiredCharacteristicValue-Specification	Yes

Table 4.238: Fields of InquiredProductCharacteristic.



## 4.239 InquiredProductRef

A reference to an InquiredProduct.

Field	Type	Format	Required
id	string	N/A	Yes
name	string	N/A	No

Table 4.239: Fields of InquiredProductRef.

## 4.240 InquiredProductRelationship

Field	Type	Format	Required
inquiredProductRef	InquiredProductRef	N/A	Yes
coverage	string	oneOf[complete, partial]	No
quantity	integer	N/A	No
totalPrice	array	TotalPrice	No
servicePeriod	TimePeriod	N/A	No
relationshipCharacteristic	array	RelationshipCharacteristic	No
productOfferingRef	ProductOfferingRef	N/A	No
productSpecificationRef	ProductSpecificationRef	N/A	No
productRef	ProductRef	N/A	No

Table 4.240: Fields of InquiredProductRelationship.

## 4.241 InquiredProvider

A provider to which the customer inquiry will be sent.

Field	Type	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
state	InquiryStateType	N/A	No
actualResponseTime	string	date-time	No

Table 4.241: Fields of InquiredProvider.

## 4.242 InquiryResult

A ranked result of an inquiry. Must contain at least one ProductSpecification, optionally complemented by an offering.

Field	Type	Format	Required
id	string	N/A	Yes
priority	number	N/A	No
note	array	Note	No
totalPrice	array	TotalPrice	No
inquiredProductRelationship	array	InquiredProductRelationship	No
productSpecification	array	ProductSpecification	Yes
product	array	Product	No
productOffering	array	ProductOffering	No

Table 4.242: Fields of InquiryResult.

## 4.243 InquiryStateType

Possible values for the state of the customer inquiry

Field	Type	Format	Required
InquiryStateType	string	oneOf[pending, inProgress, cancelled, completed]	No

Table 4.243: Fields of InquiryStateType.

## 4.244 IntegerArrayCharacteristic

Field	Type	Format	Required
id	string	N/A	No
name	string	N/A	No
valueType	string	N/A	No
characteristicRelationship	array	CharacteristicRelationship	No
unitOfMeasure	string	N/A	No
value	array	integer	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"IntegerArrayCharacteristic"	Yes

Table 4.244: Fields of IntegerArrayCharacteristic.

## 4.245 IntegerArrayCharacteristicValueSpecification

Field	Type	Format	Required
valueType	string	N/A	No
isDefault	boolean	N/A	No
unitOfMeasure	string	N/A	No
validFor	TimePeriod	N/A	No
valueFrom	integer	N/A	No
valueTo	integer	N/A	No
rangeInterval	string	N/A	No
regex	string	N/A	No
value	array	integer	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"IntegerArrayCharacteristic-ValueSpecification"	Yes

Table 4.245: Fields of IntegerArrayCharacteristicValueSpecification.

## 4.246 IntegerArrayCharacteristicValueSpecification\_FVO

Field	Type	Format	Required
valueType	string	N/A	No
isDefault	boolean	N/A	No
unitOfMeasure	string	N/A	No
validFor	TimePeriod	N/A	No
valueFrom	integer	N/A	No
valueTo	integer	N/A	No
rangeInterval	string	N/A	No
regex	string	N/A	No
value	array	integer	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"IntegerArrayCharacteristic-ValueSpecification"	Yes

Table 4.246: Fields of IntegerArrayCharacteristicValueSpecification\_FVO.



## 4.247 IntegerArrayCharacteristicValueSpecification\_MVO

Field	Type	Format	Required
valueType	string	N/A	No
isDefault	boolean	N/A	No
unitOfMeasure	string	N/A	No
validFor	TimePeriod	N/A	No
valueFrom	integer	N/A	No
valueTo	integer	N/A	No
rangeInterval	string	N/A	No
regex	string	N/A	No
value	array	integer	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"IntegerArrayCharacteristic-ValueSpecification"	Yes

Table 4.247: Fields of IntegerArrayCharacteristicValueSpecification\_MVO.

## 4.248 IntegerArrayCharacteristic\_FVO

Field	Type	Format	Required
id	string	N/A	No
name	string	N/A	Yes
valueType	string	N/A	No
characteristicRelationship	array	CharacteristicRelationship_FVO	No
unitOfMeasure	string	N/A	No
value	array	integer	Yes
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"IntegerArrayCharacteristic"	Yes

Table 4.248: Fields of IntegerArrayCharacteristic\_FVO.

## 4.249 IntegerArrayCharacteristic\_MVO

Field	Type	Format	Required
id	string	N/A	No
name	string	N/A	No
valueType	string	N/A	No
characteristicRelationship	array	CharacteristicRelationship_MVO	No
unitOfMeasure	string	N/A	No
value	array	integer	Yes
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"IntegerArrayCharacteristic"	Yes

Table 4.249: Fields of IntegerArrayCharacteristic\_MVO.

## 4.250 IntegerCharacteristic

Field	Type	Format	Required
id	string	N/A	No
name	string	N/A	No
valueType	string	N/A	No
characteristicRelationship	array	CharacteristicRelationship	No
unitOfMeasure	string	N/A	No
value	integer	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"IntegerCharacteristic"	Yes

Table 4.250: Fields of IntegerCharacteristic.

## 4.251 IntegerCharacteristicValueSpecification

Field	Type	Format	Required
valueType	string	N/A	No
isDefault	boolean	N/A	No
unitOfMeasure	string	N/A	No
validFor	TimePeriod	N/A	No
valueFrom	integer	N/A	No
valueTo	integer	N/A	No
rangeInterval	string	N/A	No
regex	string	N/A	No
value	integer	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"IntegerCharacteristicValue-Specification"	Yes

Table 4.251: Fields of IntegerCharacteristicValueSpecification.

## 4.252 IntegerCharacteristicValueSpecification\_FVO

Field	Type	Format	Required
valueType	string	N/A	No
isDefault	boolean	N/A	No
unitOfMeasure	string	N/A	No
validFor	TimePeriod	N/A	No
valueFrom	integer	N/A	No
valueTo	integer	N/A	No
rangeInterval	string	N/A	No
regex	string	N/A	No
value	integer	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"IntegerCharacteristicValue-Specification"	Yes

Table 4.252: Fields of IntegerCharacteristicValueSpecification\_FVO.

## 4.253 IntegerCharacteristicValueSpecification\_MVO

Field	Type	Format	Required
valueType	string	N/A	No
isDefault	boolean	N/A	No
unitOfMeasure	string	N/A	No
validFor	TimePeriod	N/A	No
valueFrom	integer	N/A	No
valueTo	integer	N/A	No
rangeInterval	string	N/A	No
regex	string	N/A	No
value	integer	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"IntegerCharacteristicValue-Specification"	Yes

Table 4.253: Fields of IntegerCharacteristicValueSpecification\_MVO.

## 4.254 IntegerCharacteristic\_FVO

Field	Type	Format	Required
id	string	N/A	No
name	string	N/A	Yes
valueType	string	N/A	No
characteristicRelationship	array	CharacteristicRelationship_FVO	No
unitOfMeasure	string	N/A	No
value	integer	N/A	Yes
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"IntegerCharacteristic"	Yes

Table 4.254: Fields of IntegerCharacteristic\_FVO.



## 4.255 IntegerCharacteristic\_MVO

Field	Type	Format	Required
id	string	N/A	No
name	string	N/A	No
valueType	string	N/A	No
characteristicRelationship	array	CharacteristicRelationship_MVO	No
unitOfMeasure	string	N/A	No
value	integer	N/A	Yes
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"IntegerCharacteristic"	Yes

Table 4.255: Fields of IntegerCharacteristic\_MVO.

## 4.256 Intent

Field	Type	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
description	string	N/A	No
validFor	TimePeriod	N/A	No
isBundle	boolean	N/A	No
priority	string	N/A	No
statusChangeDate	string	date-time	No
context	string	N/A	No
version	string	N/A	No
intentSpecification	EntityRef	N/A	No
intentRelationship	array	EntityRelationship	No
characteristic	array	Characteristic	No
relatedParty	array	RelatedPartyRefOrPartyRoleRef	No
attachment	array	AttachmentOrDocumentRef	No
expression	Expression	N/A	No
creationDate	string	date-time	No
lastUpdate	string	date-time	No
lifecycleStatus	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"Intent"	Yes

Table 4.256: Fields of Intent.

## 4.257 IntentRef

Intent reference, for when Intent is used by other entities

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"IntentRef"	Yes

Table 4.257: Fields of IntentRef.

## 4.258 IntentRefOrValue

Intent Ref (if Intent already exists) or Value (if Intent be created or its details be presented)

Field	Type	Format	Required
@type	string	oneOf["IntentRef", "Intent"]	Yes

Table 4.258: Fields of IntentRefOrValue.

## 4.259 IntentRefOrValue\_FVO

Intent Ref (if Intent already exists) or Value (if Intent be created or its details be presented)

Field	Type	Format	Required
@type	string	oneOf["IntentRef", "Intent"]	Yes

Table 4.259: Fields of IntentRefOrValue\_FVO.

## 4.260 IntentRefOrValue\_MVO

Intent Ref (if Intent already exists) or Value (if Intent be created or its details be presented)

Field	Type	Format	Required
@type	string	oneOf["IntentRef", "Intent"]	Yes

Table 4.260: Fields of IntentRefOrValue\_MVO.

## 4.261 IntentRef\_FVO

Intent reference, for when Intent is used by other entities

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"IntentRef"	Yes

Table 4.261: Fields of IntentRef\_FVO.

## 4.262 IntentRef\_MVO

Intent reference, for when Intent is used by other entities

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"IntentRef"	Yes

Table 4.262: Fields of IntentRef\_MVO.



## 4.263 IntentSpecificationRef

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"IntentSpecificationRef"	Yes

Table 4.263: Fields of IntentSpecificationRef.

## 4.264 IntentSpecificationRef\_FVO

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"IntentSpecificationRef"	Yes

Table 4.264: Fields of IntentSpecificationRef\_FVO.

## 4.265 IntentSpecificationRef\_MVO

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"IntentSpecificationRef"	Yes

Table 4.265: Fields of IntentSpecificationRef\_MVO.

## 4.266 Intent\_FVO

Field	Type	Format	Required
id	string	N/A	No
name	string	N/A	Yes
description	string	N/A	No
validFor	TimePeriod	N/A	No
isBundle	boolean	N/A	No
priority	string	N/A	No
statusChangeDate	string	date-time	No
context	string	N/A	No
version	string	N/A	No
intentSpecification	EntityRef_FVO	N/A	No
intentRelationship	array	EntityRelationship_FVO	No
characteristic	array	Characteristic_FVO	No
relatedParty	array	RelatedPartyRefOrPartyRoleRef_FVO	No
attachment	array	AttachmentOrDocumentRef	No
expression	Expression_FVO	N/A	No
creationDate	string	date-time	Yes
lastUpdate	string	date-time	Yes
lifecycleStatus	string	N/A	Yes
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"Intent"	Yes

Table 4.266: Fields of Intent\_FVO.

## 4.267 Intent\_MVO

Field	Type	Format	Required
name	string	N/A	No
description	string	N/A	No
validFor	TimePeriod	N/A	No
isBundle	boolean	N/A	No
priority	string	N/A	No
statusChangeDate	string	date-time	No
context	string	N/A	No
version	string	N/A	No
intentSpecification	EntityRef	N/A	No
intentRelationship	array	EntityRelationship_MVO	No
characteristic	array	Characteristic_MVO	No
relatedParty	array	RelatedPartyRefOrPartyRoleRef_MVO	No
attachment	array	AttachmentOrDocumentRef	No
expression	Expression_MVO	N/A	No
creationDate	string	date-time	No
lastUpdate	string	date-time	No
lifecycleStatus	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"Intent"	Yes

Table 4.267: Fields of Intent\_MVO.

## 4.268 Interval

Enumeration of applicable time intervals

Field	Type	Format	Required
Interval	string	oneOf[10 milliseconds, 100 milliseconds, 1 second, 10 second, 1 minute, 5 minutes, 15 minutes, 30 minutes, 1 hour, 24 hours, 1 month, 1 year, not applicable]	No

Table 4.268: Fields of Interval.

## 4.269 ItemActionType

action to be performed on the entity managed by the item

Field	Type	Format	Required
ItemActionType	string	oneOf[add, modify, delete, noChange]	No

Table 4.269: Fields of ItemActionType.

## 4.270 JeopardyAlert

Field	Type	Format	Required
id	string	N/A	No
name	string	N/A	No
alertDate	string	date-time	No
jeopardyType	string	N/A	No
exception	string	N/A	No
message	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	oneOf["JeopardyAlert", "ProductOrderJeopardyAlert"]	Yes

Table 4.270: Fields of JeopardyAlert.



## 4.271 JeopardyAlert\_FVO

Field	Type	Format	Required
id	string	N/A	No
name	string	N/A	No
alertDate	string	date-time	No
jeopardyType	string	N/A	No
exception	string	N/A	No
message	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	oneOf["JeopardyAlert", "ProductOrderJeopardyAlert"]	Yes

Table 4.271: Fields of JeopardyAlert\_FVO.

## 4.272 JeopardyAlert\_MVO

Field	Type	Format	Required
id	string	N/A	No
name	string	N/A	No
alertDate	string	date-time	No
jeopardyType	string	N/A	No
exception	string	N/A	No
message	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	oneOf["JeopardyAlert", "ProductOrderJeopardyAlert"]	Yes

Table 4.272: Fields of JeopardyAlert\_MVO.

## 4.273 JobType

The type of PM Job

Field	Type	Format	Required
JobType	string	oneOf[on-demand]	No

Table 4.273: Fields of JobType.

## 4.274 JsonPatch

A JSONPatch document as defined by RFC 6902

Field	Type	Format	Required
op	string	oneOf[add, remove, replace, move, copy, test]	Yes
path	string	N/A	Yes
value	object	N/A	No
from	string	N/A	No

Table 4.274: Fields of JsonPatch.

## 4.275 JsonPatchOperations

JSONPatch Operations document as defined by RFC 6902

Field	Type	Format	Required
N/A	array	null	No

Table 4.275: Fields of JsonPatchOperations.

## 4.276 KeyIndicator

KeyIndicators are defined in terms of parameters and metrics, thresholds, and tolerances associated with the parameters.

Field	Type	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
category	string	N/A	No
isBundled	boolean	N/A	No
transformationAlgorithmOfKQI	string	N/A	No
indicatorType	string	oneOf[KQI, KPI]	No
validFor	TimePeriod	N/A	No
keyIndicatorRelationship	array	KeyIndicatorRelationship	No
relatedEntity	array	RelatedEntity	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	N/A	No

Table 4.276: Fields of KeyIndicator.

## 4.277 KeyIndicatorRelationship

A uni-directional relationship from this entity to a target entity instance.

Field	Type	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
relationshipType	string	N/A	Yes
role	string	N/A	No
validFor	TimePeriod	N/A	No
associationSpec	EntityRef	N/A	Yes
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	N/A	No
@referredType	string	N/A	Yes

Table 4.277: Fields of KeyIndicatorRelationship.

## 4.278 KeyIndicator\_Create

KeyIndicator are defined in terms of parameters and metrics, thresholds, and tolerances associated with the parameters.

Field	Type	Format	Required
name	string	N/A	No
category	string	N/A	No
isBundled	boolean	N/A	No
transformationAlgorithmOfKQI	string	N/A	No
indicatorType	string	oneOf[KQI, KPI]	No
validFor	TimePeriod	N/A	No
keyIndicatorRelationship	array	KeyIndicatorRelationship	No
relatedEntity	array	RelatedEntity	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	N/A	No

Table 4.278: Fields of KeyIndicator\_Create.



## 4.279 KeyIndicator\_Update

KeyIndicator are defined in terms of parameters and metrics, thresholds, and tolerances associated with the parameters.

Field	Type	Format	Required
name	string	N/A	No
category	string	N/A	No
isBundled	boolean	N/A	No
transformationAlgorithmOfKQI	string	N/A	No
indicatorType	string	oneOf[KQI, KPI]	No
keyIndicatorRelationship	array	KeyIndicatorRelationship	No
relatedEntity	array	RelatedEntity	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	N/A	No

Table 4.279: Fields of KeyIndicator\_Update.

## 4.280 LanguageAbility

Ability of an individual to understand or converse in a language.

Field	Type	Format	Required
languageCode	string	N/A	No
languageName	string	N/A	No
isFavouriteLanguage	boolean	N/A	No
writingProficiency	string	N/A	No
readingProficiency	string	N/A	No
speakingProficiency	string	N/A	No
listeningProficiency	string	N/A	No
validFor	TimePeriod	N/A	No

Table 4.280: Fields of LanguageAbility.



### 4.281 LineString

A GeoJSON LineString.

Field	Type	Format	Required
coordinates	array	Point2D	No
type	string	"LineString"	Yes

Table 4.281: Fields of LineString.

## 4.282 LogicalResource

Field	Type	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
description	string	N/A	No
category	string	N/A	No
endOperatingDate	string	date-time	No
administrativeState	ResourceAdministrativeStateType	N/A	No
operationalState	ResourceOperationalStateType	N/A	No
resourceStatus	ResourceStatusType	N/A	No
usageState	ResourceUsageStateType	N/A	No
validFor	TimePeriod	N/A	No
note	array	Note	No
resourceOrderItem	array	RelatedResourceOrderItem	No
place	array	RelatedPlaceRef	No
relatedParty	array	RelatedPartyRefOrPartyRoleRef	No
supportingResource	array	ResourceRefOrValue	No
resourceRelationship	array	ResourceRelationship	No
resourceCharacteristic	array	Characteristic	No
attachment	array	AttachmentOrDocumentRef	No
resourceSpecification	ResourceSpecificationRef	N/A	No
startOperatingDate	string	date-time	No
resourceVersion	string	N/A	No
activationFeature	array	Feature	No
intent	IntentRef	N/A	No
externalIdentifier	array	ExternalIdentifier	No
value	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"LogicalResource"	Yes



Field	Type	Format	Required
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Table 4.282: Fields of LogicalResource.

## 4.283 LogicalResourceSpecification

This is a derived class of ResourceSpecification, and is used to define the invariant characteristics and behavior (attributes, methods, constraints, and relationships) of a LogicalResource.

Field	Type	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
description	string	N/A	No
version	string	N/A	No
validFor	TimePeriod	N/A	No
isBundle	boolean	N/A	No
lastUpdate	string	date-time	No
lifecycleStatus	string	N/A	No
category	string	N/A	No
targetResourceSchema	TargetResourceSchema	N/A	No
featureSpecification	array	FeatureSpecification	No
attachment	array	AttachmentOrDocumentRef	No
relatedParty	array	RelatedPartyRefOrPartyRoleRef	No
resourceSpecCharacteristic	array	CharacteristicSpecification	No
resourceSpecRelationship	array	ResourceSpecificationRelationship	No
intentSpecification	IntentSpecificationRef	N/A	No
externalIdentifier	array	ExternalIdentifier	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	oneOf["LogicalResourceSpecification", "ResourceFunctionSpecification"]	Yes

Table 4.283: Fields of LogicalResourceSpecification.

## 4.284 LogicalResource\_FVO

Field	Type	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
description	string	N/A	No
category	string	N/A	No
endOperatingDate	string	date-time	No
administrativeState	ResourceAdministrativeStateType	N/A	No
operationalState	ResourceOperationalStateType	N/A	No
resourceStatus	ResourceStatusType	N/A	No
usageState	ResourceUsageStateType	N/A	No
validFor	TimePeriod	N/A	No
note	array	Note_FVO	No
resourceOrderItem	array	RelatedResourceOrderItem_FVO	No
place	array	RelatedPlaceRef_FVO	No
relatedParty	array	RelatedPartyRefOrPartyRoleRef_FVO	No
supportingResource	array	ResourceRefOrValue_FVO	No
resourceRelationship	array	ResourceRelationship_FVO	No
resourceCharacteristic	array	Characteristic_FVO	No
attachment	array	AttachmentOrDocumentRef	No
resourceSpecification	ResourceSpecificationRef_FVO	N/A	No
startOperatingDate	string	date-time	No
resourceVersion	string	N/A	No
activationFeature	array	Feature_FVO	No
intent	IntentRef_FVO	N/A	No
externalIdentifier	array	ExternalIdentifier_FVO	No
value	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No

Field	Type	Format	Required
@type	string	"LogicalResource"	Yes

Table 4.284: Fields of LogicalResource\_FVO.



## 4.285 LogicalResource\_MVO

Field	Type	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
description	string	N/A	No
category	string	N/A	No
endOperatingDate	string	date-time	No
administrativeState	ResourceAdministrativeStateType	N/A	No
operationalState	ResourceOperationalStateType	N/A	No
resourceStatus	ResourceStatusType	N/A	No
usageState	ResourceUsageStateType	N/A	No
validFor	TimePeriod	N/A	No
note	array	Note_MVO	No
resourceOrderItem	array	RelatedResourceOrderItem_MVO	No
place	array	RelatedPlaceRef_MVO	No
relatedParty	array	RelatedPartyRefOrPartyRoleRef_MVO	No
supportingResource	array	ResourceRefOrValue_MVO	No
resourceRelationship	array	ResourceRelationship_MVO	No
resourceCharacteristic	array	Characteristic_MVO	No
attachment	array	AttachmentOrDocumentRef	No
resourceSpecification	ResourceSpecificationRef_MVO	N/A	No
startOperatingDate	string	date-time	No
resourceVersion	string	N/A	No
activationFeature	array	Feature_MVO	No
intent	IntentRef_MVO	N/A	No
externalIdentifier	array	ExternalIdentifier_MVO	No
value	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No



Field	Type	Format	Required
@type	string	"LogicalResource"	Yes

Table 4.285: Fields of LogicalResource\_MVO.

## 4.286 MapArrayCharacteristicValueSpecification

Field	Type	Format	Required
valueType	string	N/A	No
isDefault	boolean	N/A	No
unitOfMeasure	string	N/A	No
validFor	TimePeriod	N/A	No
valueFrom	integer	N/A	No
valueTo	integer	N/A	No
rangeInterval	string	N/A	No
regex	string	N/A	No
value	array	object	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"MapArrayCharacteristicValueSpecification"	Yes

Table 4.286: Fields of MapArrayCharacteristicValueSpecification.

## 4.287 MapArrayCharacteristicValueSpecification\_FVO

Field	Type	Format	Required
valueType	string	N/A	No
isDefault	boolean	N/A	No
unitOfMeasure	string	N/A	No
validFor	TimePeriod	N/A	No
valueFrom	integer	N/A	No
valueTo	integer	N/A	No
rangeInterval	string	N/A	No
regex	string	N/A	No
value	array	object	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"MapArrayCharacteristicValueSpecification"	Yes

Table 4.287: Fields of MapArrayCharacteristicValueSpecification\_FVO.

## 4.288 MapArrayCharacteristicValueSpecification\_MVO

Field	Type	Format	Required
valueType	string	N/A	No
isDefault	boolean	N/A	No
unitOfMeasure	string	N/A	No
validFor	TimePeriod	N/A	No
valueFrom	integer	N/A	No
valueTo	integer	N/A	No
rangeInterval	string	N/A	No
regex	string	N/A	No
value	array	object	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"MapArrayCharacteristicValueSpecification"	Yes

Table 4.288: Fields of MapArrayCharacteristicValueSpecification\_MVO.

## 4.289 MapCharacteristicValueSpecification

Field	Type	Format	Required
valueType	string	N/A	No
isDefault	boolean	N/A	No
unitOfMeasure	string	N/A	No
validFor	TimePeriod	N/A	No
valueFrom	integer	N/A	No
valueTo	integer	N/A	No
rangeInterval	string	N/A	No
regex	string	N/A	No
value	object	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"MapCharacteristicValue-Specification"	Yes

Table 4.289: Fields of MapCharacteristicValueSpecification.

## 4.290 MapCharacteristicValueSpecification\_FVO

Field	Type	Format	Required
valueType	string	N/A	No
isDefault	boolean	N/A	No
unitOfMeasure	string	N/A	No
validFor	TimePeriod	N/A	No
valueFrom	integer	N/A	No
valueTo	integer	N/A	No
rangeInterval	string	N/A	No
regex	string	N/A	No
value	object	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"MapCharacteristicValue-Specification"	Yes

Table 4.290: Fields of MapCharacteristicValueSpecification\_FVO.

## 4.291 MapCharacteristicValueSpecification\_MVO

Field	Type	Format	Required
valueType	string	N/A	No
isDefault	boolean	N/A	No
unitOfMeasure	string	N/A	No
validFor	TimePeriod	N/A	No
valueFrom	integer	N/A	No
valueTo	integer	N/A	No
rangeInterval	string	N/A	No
regex	string	N/A	No
value	object	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"MapCharacteristicValue-Specification"	Yes

Table 4.291: Fields of MapCharacteristicValueSpecification\_MVO.



## 4.292 MarketSegmentRef

provides references to the corresponding market segment as target of product offerings. A market segment is grouping of Parties, GeographicAreas, SalesChannels, and so forth.

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"MarketSegmentRef"	Yes

Table 4.292: Fields of MarketSegmentRef.

## 4.293 MarketSegmentRef\_FVO

provides references to the corresponding market segment as target of product offerings. A market segment is grouping of Parties, GeographicAreas, SalesChannels, and so forth.

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"MarketSegmentRef"	Yes

Table 4.293: Fields of MarketSegmentRef\_FVO.

## 4.294 MarketSegmentRef\_MVO

provides references to the corresponding market segment as target of product offerings. A market segment is grouping of Parties, GeographicAreas, SalesChannels, and so forth.

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"MarketSegmentRef"	Yes

Table 4.294: Fields of MarketSegmentRef\_MVO.

## 4.295 MeasurementTime

Timeframe boundary for collected data

Field	Type	Format	Required
measurementStartDate	string	date-time	No
measurementEndDate	string	date-time	No
measurementInterval	Interval	N/A	No

Table 4.295: Fields of MeasurementTime.

## 4.296 Milestone

Field	Type	Format	Required
id	string	N/A	No
name	string	N/A	No
description	string	N/A	No
status	string	oneOf[Yet-To-Reach, Completed, Violated]	No
milestoneDate	string	date-time	No
message	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	oneOf["Milestone", "ProductOrderMilestone"]	Yes

Table 4.296: Fields of Milestone.

## 4.297 Milestone\_FVO

Field	Type	Format	Required
id	string	N/A	No
name	string	N/A	No
description	string	N/A	No
status	string	oneOf[Yet-To-Reach, Completed, Violated]	No
milestoneDate	string	date-time	No
message	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	oneOf["Milestone", "ProductOrderMilestone"]	Yes

Table 4.297: Fields of Milestone\_FVO.

## 4.298 Milestone\_MVO

Field	Type	Format	Required
id	string	N/A	No
name	string	N/A	No
description	string	N/A	No
status	string	oneOf[Yet-To-Reach, Completed, Violated]	No
milestoneDate	string	date-time	No
message	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	oneOf["Milestone", "ProductOrderMilestone"]	Yes

Table 4.298: Fields of Milestone\_MVO.

## 4.299 Mission

Field	Type	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	Yes
description	string	N/A	No
category	string	N/A	No
timeframe	TimePeriod	N/A	No
lastUpdate	string	date-time	No
status	MissionStatusType	N/A	No
characteristic	array	Characteristic	No
place	array	PlaceRefOrValue	No
asset	array	MissionAsset	No
missionRelationship	array	MissionRelationship	No
relatedParty	array	RelatedParty	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"Mission"	Yes

Table 4.299: Fields of Mission.



## 4.300 MissionAsset

Planning of a required asset in a mission. May contain any combination of user-defined characteristics for an inquiry, an ordered product or a service/resource that is already in the customer inventory.

Field	Type	Format	Required
id	string	N/A	No
name	string	N/A	No
targetProductSchema	TargetProductSchema	N/A	No
servicePeriod	RelativeTimePeriod	N/A	No
place	array	RelatedPlaceRefOrValue	No
inquiredProductCharacteristic	array	InquiredProductCharacteristic	No
realizingProduct	array	ProductRef	No
realizingService	array	ServiceRef	No
realizingResource	array	ResourceRef	No
assetRelationship	array	MissionAssetRelationship	No

Table 4.300: Fields of MissionAsset.

## 4.301 MissionAssetRelationship

Field	Type	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
relationshipType	string	N/A	No

Table 4.301: Fields of MissionAssetRelationship.

## 4.302 MissionRelationship

Field	Type	Format	Required
id	string	N/A	No
href	string	N/A	No
name	string	N/A	No
relationshipType	string	N/A	No

Table 4.302: Fields of MissionRelationship.

## 4.303 MissionStatusType

Possible values for the status of a mission

Field	Type	Format	Required
MissionStatusType	string	oneOf[draft, active, cancelled, completed]	No

Table 4.303: Fields of MissionStatusType.

## 4.304 Mission\_FVO

Field	Type	Format	Required
id	string	N/A	No
name	string	N/A	Yes
description	string	N/A	No
category	string	N/A	No
timeframe	TimePeriod	N/A	No
status	MissionStatusType	N/A	No
characteristic	array	Characteristic	No
place	array	PlaceRefOrValue	No
asset	array	MissionAsset	No
missionRelationship	array	MissionRelationship	No
relatedParty	array	RelatedParty	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"Mission"	Yes

Table 4.304: Fields of Mission\_FVO.

## 4.305 Mission\_MVO

Field	Type	Format	Required
name	string	N/A	No
description	string	N/A	No
category	string	N/A	No
timeframe	TimePeriod	N/A	No
status	MissionStatusType	N/A	No
characteristic	array	Characteristic	No
place	array	PlaceRefOrValue	No
asset	array	MissionAsset	No
missionRelationship	array	MissionRelationship	No
relatedParty	array	RelatedParty	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"Mission"	Yes

Table 4.305: Fields of Mission\_MVO.

## 4.306 ModifyPerformanceJob

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
description	string	N/A	No
buyerJobId	string	N/A	No
consumingApplicationId	string	N/A	No
fileTransferData	FileTransferData	N/A	No
modificationReason	string	N/A	No
performanceJob	PerformanceJobRef	N/A	Yes
performanceProfile	ModifyPerformance-Job_ProfileValue	N/A	No
producingApplicationId	string	N/A	No
scheduleDefinition	ScheduleDefinition	N/A	No
servicePayloadSpecificAttributes	ServicePayloadSpecificAttributes	N/A	No
creationDate	string	date-time	Yes
modificationDeniedReason	string	N/A	No
state	PerformanceJobProcessStateType	N/A	Yes

Table 4.306: Fields of ModifyPerformanceJob.

## 4.307 ModifyPerformanceJob\_Common

Request for modification of an existing Performance Job

Field	Type	Format	Required
description	string	N/A	No
buyerJobId	string	N/A	No
consumingApplicationId	string	N/A	No
fileTransferData	FileTransferData	N/A	No
modificationReason	string	N/A	No
performanceJob	PerformanceJobRef	N/A	Yes
performanceProfile	ModifyPerformance-Job_ProfileValue	N/A	No
producingApplicationId	string	N/A	No
scheduleDefinition	ScheduleDefinition	N/A	No
servicePayloadSpecificAttributes	ServicePayloadSpecificAttributes	N/A	No

Table 4.307: Fields of ModifyPerformanceJob\_Common.



## 4.308 ModifyPerformanceJob\_Create

Field	Type	Format	Required
description	string	N/A	No
buyerJobId	string	N/A	No
consumingApplicationId	string	N/A	No
fileTransferData	FileTransferData	N/A	No
modificationReason	string	N/A	No
performanceJob	PerformanceJobRef	N/A	Yes
performanceProfile	ModifyPerformance- Job_ProfileValue	N/A	No
producingApplicationId	string	N/A	No
scheduleDefinition	ScheduleDefinition	N/A	No
servicePayloadSpecificAt- tributes	ServicePayloadSpecificAt- tributes	N/A	No

Table 4.308: Fields of ModifyPerformanceJob\_Create.

## 4.309 ModifyPerformanceJob\_Find

This class represents a single list item for the response of `listModifyPerformanceJob`

Field	Type	Format	Required
id	string	N/A	Yes
creationDate	string	date-time	Yes
performanceJob	PerformanceJobRef	N/A	Yes
state	PerformanceJobPro- cessStateType	N/A	Yes

Table 4.309: Fields of ModifyPerformanceJob\_Find.

## 4.310 ModifyPerformanceJob\_ProfileValue

Direct assignment of values defined by PerformanceProfile type to PerformanceJob object. Necessary when PerformanceJob is created without reference to PerformanceProfile.

Field	Type	Format	Required
granularity	Interval	N/A	No
jobPriority	integer	N/A	No
outputFormat	OutputFormat	N/A	No
reportingPeriod	Interval	N/A	No
resultFormat	ResultFormat	N/A	No

Table 4.310: Fields of ModifyPerformanceJob\_ProfileValue.



### 4.311 Money

A base / value business entity used to represent money

Field	Type	Format	Required
unit	string	N/A	No
value	number	float	No

Table 4.311: Fields of Money.

## 4.312 MonthlyScheduleDayOfWeekDefinition

Monthly scheduled day of the week.

Field	Type	Format	Required
recurringDaySequence	array	DayOfWeek	No
dayOfMonthRecurrence	array	DayOfMonth	No

Table 4.312: Fields of MonthlyScheduleDayOfWeekDefinition.

## 4.313 MultiLineString

A GeoJSON MultiLineString.

Field	Type	Format	Required
coordinates	2D-array	Point2D	No
type	string	"MultiLineString"	Yes

Table 4.313: Fields of MultiLineString.

## 4.314 MultiPoint

A GeoJSON MultiPoint.

Field	Type	Format	Required
coordinates	array	Point2D	No
type	string	"MultiPoint"	Yes

Table 4.314: Fields of MultiPoint.

## 4.315 MultiPolygon

A GeoJSON MultiPolygon.

Field	Type	Format	Required
coordinates	3D-array	Point2D	No
type	string	"MultiPolygon"	Yes

Table 4.315: Fields of MultiPolygon.



## 4.316 Note

Field	Type	Format	Required
id	string	N/A	No
author	string	N/A	No
date	string	date-time	No
text	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"Note"	Yes

Table 4.316: Fields of Note.

## 4.317 Note\_FVO

Field	Type	Format	Required
id	string	N/A	No
author	string	N/A	No
date	string	date-time	No
text	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"Note"	Yes

Table 4.317: Fields of Note\_FVO.

## 4.318 Note\_MVO

Field	Type	Format	Required
id	string	N/A	No
author	string	N/A	No
date	string	date-time	No
text	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"Note"	Yes

Table 4.318: Fields of Note\_MVO.

## 4.319 NumberArrayCharacteristic

Field	Type	Format	Required
id	string	N/A	No
name	string	N/A	No
valueType	string	N/A	No
characteristicRelationship	array	CharacteristicRelationship	No
unitOfMeasure	string	N/A	No
value	array	number	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"NumberArrayCharacteristic"	Yes

Table 4.319: Fields of NumberArrayCharacteristic.

## 4.320 NumberArrayCharacteristicValueSpecification

Field	Type	Format	Required
valueType	string	N/A	No
isDefault	boolean	N/A	No
unitOfMeasure	string	N/A	No
validFor	TimePeriod	N/A	No
valueFrom	integer	N/A	No
valueTo	integer	N/A	No
rangeInterval	string	N/A	No
regex	string	N/A	No
value	array	number	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"NumberArrayCharacteristic-ValueSpecification"	Yes

Table 4.320: Fields of NumberArrayCharacteristicValueSpecification.

## 4.321 NumberArrayCharacteristicValueSpecification\_FVO

Field	Type	Format	Required
valueType	string	N/A	No
isDefault	boolean	N/A	No
unitOfMeasure	string	N/A	No
validFor	TimePeriod	N/A	No
valueFrom	integer	N/A	No
valueTo	integer	N/A	No
rangeInterval	string	N/A	No
regex	string	N/A	No
value	array	number	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"NumberArrayCharacteristic-ValueSpecification"	Yes

Table 4.321: Fields of NumberArrayCharacteristicValueSpecification\_FVO.

## 4.322 NumberArrayCharacteristicValueSpecification\_MVO

Field	Type	Format	Required
valueType	string	N/A	No
isDefault	boolean	N/A	No
unitOfMeasure	string	N/A	No
validFor	TimePeriod	N/A	No
valueFrom	integer	N/A	No
valueTo	integer	N/A	No
rangeInterval	string	N/A	No
regex	string	N/A	No
value	array	number	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"NumberArrayCharacteristic-ValueSpecification"	Yes

Table 4.322: Fields of NumberArrayCharacteristicValueSpecification\_MVO.

## 4.323 NumberArrayCharacteristic\_FVO

Field	Type	Format	Required
id	string	N/A	No
name	string	N/A	Yes
valueType	string	N/A	No
characteristicRelationship	array	CharacteristicRelationship_FVO	No
unitOfMeasure	string	N/A	No
value	array	number	Yes
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"NumberArrayCharacteristic"	Yes

Table 4.323: Fields of NumberArrayCharacteristic\_FVO.



## 4.324 NumberArrayCharacteristic\_MVO

Field	Type	Format	Required
id	string	N/A	No
name	string	N/A	No
valueType	string	N/A	No
characteristicRelationship	array	CharacteristicRelationship_MVO	No
unitOfMeasure	string	N/A	No
value	array	number	Yes
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"NumberArrayCharacteristic"	Yes

Table 4.324: Fields of NumberArrayCharacteristic\_MVO.

## 4.325 NumberCharacteristic

Field	Type	Format	Required
id	string	N/A	No
name	string	N/A	No
valueType	string	N/A	No
characteristicRelationship	array	CharacteristicRelationship	No
unitOfMeasure	string	N/A	No
value	number	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"NumberCharacteristic"	Yes

Table 4.325: Fields of NumberCharacteristic.

## 4.326 NumberCharacteristicValueSpecification

Field	Type	Format	Required
valueType	string	N/A	No
isDefault	boolean	N/A	No
unitOfMeasure	string	N/A	No
validFor	TimePeriod	N/A	No
valueFrom	integer	N/A	No
valueTo	integer	N/A	No
rangeInterval	string	N/A	No
regex	string	N/A	No
value	number	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"NumberCharacteristicValue-Specification"	Yes

Table 4.326: Fields of NumberCharacteristicValueSpecification.

## 4.327 NumberCharacteristicValueSpecification\_FVO

Field	Type	Format	Required
valueType	string	N/A	No
isDefault	boolean	N/A	No
unitOfMeasure	string	N/A	No
validFor	TimePeriod	N/A	No
valueFrom	integer	N/A	No
valueTo	integer	N/A	No
rangeInterval	string	N/A	No
regex	string	N/A	No
value	number	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"NumberCharacteristicValue-Specification"	Yes

Table 4.327: Fields of NumberCharacteristicValueSpecification\_FVO.

## 4.328 NumberCharacteristicValueSpecification\_MVO

Field	Type	Format	Required
valueType	string	N/A	No
isDefault	boolean	N/A	No
unitOfMeasure	string	N/A	No
validFor	TimePeriod	N/A	No
valueFrom	integer	N/A	No
valueTo	integer	N/A	No
rangeInterval	string	N/A	No
regex	string	N/A	No
value	number	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"NumberCharacteristicValue-Specification"	Yes

Table 4.328: Fields of NumberCharacteristicValueSpecification\_MVO.

## 4.329 NumberCharacteristic\_FVO

Field	Type	Format	Required
id	string	N/A	No
name	string	N/A	Yes
valueType	string	N/A	No
characteristicRelationship	array	CharacteristicRelationship_FVO	No
unitOfMeasure	string	N/A	No
value	number	N/A	Yes
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"NumberCharacteristic"	Yes

Table 4.329: Fields of NumberCharacteristic\_FVO.

## 4.330 NumberCharacteristic\_MVO

Field	Type	Format	Required
id	string	N/A	No
name	string	N/A	No
valueType	string	N/A	No
characteristicRelationship	array	CharacteristicRelationship_MVO	No
unitOfMeasure	string	N/A	No
value	number	N/A	Yes
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"NumberCharacteristic"	Yes

Table 4.330: Fields of NumberCharacteristic\_MVO.

## 4.331 ObjectArrayCharacteristic

Field	Type	Format	Required
id	string	N/A	No
name	string	N/A	No
valueType	string	N/A	No
characteristicRelationship	array	CharacteristicRelationship	No
unitOfMeasure	string	N/A	No
value	array	object	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"ObjectArrayCharacteristic"	Yes

Table 4.331: Fields of ObjectArrayCharacteristic.



## 4.332 ObjectArrayCharacteristicValueSpecification

Field	Type	Format	Required
valueType	string	N/A	No
isDefault	boolean	N/A	No
unitOfMeasure	string	N/A	No
validFor	TimePeriod	N/A	No
valueFrom	integer	N/A	No
valueTo	integer	N/A	No
rangeInterval	string	N/A	No
regex	string	N/A	No
value	array	object	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"ObjectArrayCharacteristic-ValueSpecification"	Yes

Table 4.332: Fields of ObjectArrayCharacteristicValueSpecification.

### 4.333 ObjectArrayCharacteristicValueSpecification\_FVO

Field	Type	Format	Required
valueType	string	N/A	No
isDefault	boolean	N/A	No
unitOfMeasure	string	N/A	No
validFor	TimePeriod	N/A	No
valueFrom	integer	N/A	No
valueTo	integer	N/A	No
rangeInterval	string	N/A	No
regex	string	N/A	No
value	array	object	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"ObjectArrayCharacteristic-ValueSpecification"	Yes

Table 4.333: Fields of ObjectArrayCharacteristicValueSpecification\_FVO.

## 4.334 ObjectArrayCharacteristicValueSpecification\_MVO

Field	Type	Format	Required
valueType	string	N/A	No
isDefault	boolean	N/A	No
unitOfMeasure	string	N/A	No
validFor	TimePeriod	N/A	No
valueFrom	integer	N/A	No
valueTo	integer	N/A	No
rangeInterval	string	N/A	No
regex	string	N/A	No
value	array	object	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"ObjectArrayCharacteristic-ValueSpecification"	Yes

Table 4.334: Fields of ObjectArrayCharacteristicValueSpecification\_MVO.

## 4.335 ObjectArrayCharacteristic\_FVO

Field	Type	Format	Required
id	string	N/A	No
name	string	N/A	Yes
valueType	string	N/A	No
characteristicRelationship	array	CharacteristicRelationship_FVO	No
unitOfMeasure	string	N/A	No
value	array	object	Yes
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"ObjectArrayCharacteristic"	Yes

Table 4.335: Fields of ObjectArrayCharacteristic\_FVO.

## 4.336 ObjectArrayCharacteristic\_MVO

Field	Type	Format	Required
id	string	N/A	No
name	string	N/A	No
valueType	string	N/A	No
characteristicRelationship	array	CharacteristicRelationship_MVO	No
unitOfMeasure	string	N/A	No
value	array	object	Yes
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"ObjectArrayCharacteristic"	Yes

Table 4.336: Fields of ObjectArrayCharacteristic\_MVO.

## 4.337 ObjectCharacteristic

Field	Type	Format	Required
id	string	N/A	No
name	string	N/A	No
valueType	string	N/A	No
characteristicRelationship	array	CharacteristicRelationship	No
unitOfMeasure	string	N/A	No
value	object	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"ObjectCharacteristic"	Yes

Table 4.337: Fields of ObjectCharacteristic.

## 4.338 ObjectCharacteristicValueSpecification

Field	Type	Format	Required
valueType	string	N/A	No
isDefault	boolean	N/A	No
unitOfMeasure	string	N/A	No
validFor	TimePeriod	N/A	No
valueFrom	integer	N/A	No
valueTo	integer	N/A	No
rangeInterval	string	N/A	No
regex	string	N/A	No
value	object	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"ObjectCharacteristicValue-Specification"	Yes

Table 4.338: Fields of ObjectCharacteristicValueSpecification.

## 4.339 ObjectCharacteristicValueSpecification\_FVO

Field	Type	Format	Required
valueType	string	N/A	No
isDefault	boolean	N/A	No
unitOfMeasure	string	N/A	No
validFor	TimePeriod	N/A	No
valueFrom	integer	N/A	No
valueTo	integer	N/A	No
rangeInterval	string	N/A	No
regex	string	N/A	No
value	object	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"ObjectCharacteristicValue-Specification"	Yes

Table 4.339: Fields of ObjectCharacteristicValueSpecification\_FVO.



## 4.340 ObjectCharacteristicValueSpecification\_MVO

Field	Type	Format	Required
valueType	string	N/A	No
isDefault	boolean	N/A	No
unitOfMeasure	string	N/A	No
validFor	TimePeriod	N/A	No
valueFrom	integer	N/A	No
valueTo	integer	N/A	No
rangeInterval	string	N/A	No
regex	string	N/A	No
value	object	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"ObjectCharacteristicValue-Specification"	Yes

Table 4.340: Fields of ObjectCharacteristicValueSpecification\_MVO.

## 4.341 ObjectCharacteristic\_FVO

Field	Type	Format	Required
id	string	N/A	No
name	string	N/A	Yes
valueType	string	N/A	No
characteristicRelationship	array	CharacteristicRelationship_FVO	No
unitOfMeasure	string	N/A	No
value	object	N/A	Yes
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"ObjectCharacteristic"	Yes

Table 4.341: Fields of ObjectCharacteristic\_FVO.

## 4.342 ObjectCharacteristic\_MVO

Field	Type	Format	Required
id	string	N/A	No
name	string	N/A	No
valueType	string	N/A	No
characteristicRelationship	array	CharacteristicRelationship_MVO	No
unitOfMeasure	string	N/A	No
value	object	N/A	Yes
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"ObjectCharacteristic"	Yes

Table 4.342: Fields of ObjectCharacteristic\_MVO.

## 4.343 OrderItemType

action to be performed on the product

Field	Type	Format	Required
OrderItemType	string	oneOf[add, modify, delete, noChange]	No

Table 4.343: Fields of OrderItemType.

## 4.344 OrderItemRelationship

Field	Type	Format	Required
id	string	N/A	No
relationshipType	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"OrderItemRelationship"	Yes

Table 4.344: Fields of OrderItemRelationship.

## 4.345 OrderItemRelationship\_FVO

Field	Type	Format	Required
id	string	N/A	Yes
relationshipType	string	N/A	Yes
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"OrderItemRelationship"	Yes

Table 4.345: Fields of OrderItemRelationship\_FVO.

## 4.346 OrderItemRelationship\_MVO

Field	Type	Format	Required
id	string	N/A	No
relationshipType	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"OrderItemRelationship"	Yes

Table 4.346: Fields of OrderItemRelationship\_MVO.

## 4.347 OrderPrice

Field	Type	Format	Required
name	string	N/A	No
description	string	N/A	No
productOfferingPrice	ProductOfferingPriceRef	N/A	No
recurringChargePeriod	string	N/A	No
unitOfMeasure	string	N/A	No
billingAccount	BillingAccountRef	N/A	No
priceAlteration	array	PriceAlteration	No
price	Price	N/A	No
priceType	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"OrderPrice"	Yes

Table 4.347: Fields of OrderPrice.



## 4.348 OrderPrice\_FVO

Field	Type	Format	Required
name	string	N/A	No
description	string	N/A	No
productOfferingPrice	ProductOffering-PriceRef_FVO	N/A	No
recurringChargePeriod	string	N/A	No
unitOfMeasure	string	N/A	No
billingAccount	BillingAccountRef_FVO	N/A	No
priceAlteration	array	PriceAlteration_FVO	No
price	Price_FVO	N/A	Yes
priceType	string	N/A	Yes
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"OrderPrice"	Yes

Table 4.348: Fields of OrderPrice\_FVO.

## 4.349 OrderPrice\_MVO

Field	Type	Format	Required
name	string	N/A	No
description	string	N/A	No
productOfferingPrice	ProductOffering-PriceRef_MVO	N/A	No
recurringChargePeriod	string	N/A	No
unitOfMeasure	string	N/A	No
billingAccount	BillingAccountRef_MVO	N/A	No
priceAlteration	array	PriceAlteration_MVO	No
price	Price_MVO	N/A	No
priceType	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"OrderPrice"	Yes

Table 4.349: Fields of OrderPrice\_MVO.

## 4.350 OrderRelationship

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
relationshipType	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"OrderRelationship"	Yes

Table 4.350: Fields of OrderRelationship.

## 4.351 OrderRelationship\_FVO

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
relationshipType	string	N/A	Yes
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"OrderRelationship"	Yes

Table 4.351: Fields of OrderRelationship\_FVO.

## 4.352 OrderRelationship\_MVO

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
relationshipType	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"OrderRelationship"	Yes

Table 4.352: Fields of OrderRelationship\_MVO.

## 4.353 OrderTerm

Field	Type	Format	Required
name	string	N/A	No
description	string	N/A	No
duration	Duration	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"OrderTerm"	Yes

Table 4.353: Fields of OrderTerm.

## 4.354 OrderTerm\_FVO

Field	Type	Format	Required
name	string	N/A	No
description	string	N/A	No
duration	Duration	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"OrderTerm"	Yes

Table 4.354: Fields of OrderTerm\_FVO.

## 4.355 OrderTerm\_MVO

Field	Type	Format	Required
name	string	N/A	No
description	string	N/A	No
duration	Duration	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"OrderTerm"	Yes

Table 4.355: Fields of OrderTerm\_MVO.



## 4.356 Organization

Field	Type	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
externalReference	array	ExternalIdentifier	No
partyCharacteristic	array	Characteristic	No
taxExemptionCertificate	array	TaxExemptionCertificate	No
creditRating	array	PartyCreditProfile	No
relatedParty	array	RelatedPartyOrPartyRole	No
contactMedium	array	ContactMedium	No
isLegalEntity	boolean	N/A	No
isHeadOffice	boolean	N/A	No
organizationType	string	N/A	No
existsDuring	TimePeriod	N/A	No
nameType	string	N/A	No
status	OrganizationStateType	N/A	No
otherName	array	OtherNameOrganization	No
organizationIdentification	array	OrganizationIdentification	No
organizationChildRelationship	array	OrganizationChildRelationship	No
organizationParentRelationship	OrganizationParentRelationship	N/A	No
tradingName	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"Organization"	Yes

Table 4.356: Fields of Organization.

## 4.357 OrganizationChildRelationship

Field	Type	Format	Required
relationshipType	string	N/A	No
organization	OrganizationRef	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"OrganizationChildRelationship"	Yes

Table 4.357: Fields of OrganizationChildRelationship.

## 4.358 OrganizationChildRelationship\_FVO

Field	Type	Format	Required
relationshipType	string	N/A	No
organization	OrganizationRef_FVO	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"OrganizationChildRelationship"	Yes

Table 4.358: Fields of OrganizationChildRelationship\_FVO.

## 4.359 OrganizationChildRelationship\_MVO

Field	Type	Format	Required
relationshipType	string	N/A	No
organization	OrganizationRef_MVO	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"OrganizationChildRelationship"	Yes

Table 4.359: Fields of OrganizationChildRelationship\_MVO.

## 4.360 OrganizationIdentification

Field	Type	Format	Required
identificationId	string	N/A	No
issuingAuthority	string	N/A	No
issuingDate	string	date-time	No
identificationType	string	N/A	No
validFor	TimePeriod	N/A	No
attachment	AttachmentOrDocumentRef	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"OrganizationIdentification"	Yes

Table 4.360: Fields of OrganizationIdentification.

## 4.361 OrganizationIdentification\_FVO

Field	Type	Format	Required
identificationId	string	N/A	No
issuingAuthority	string	N/A	No
issuingDate	string	date-time	No
identificationType	string	N/A	No
validFor	TimePeriod	N/A	No
attachment	AttachmentOrDocumentRef	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"OrganizationIdentification"	Yes

Table 4.361: Fields of OrganizationIdentification\_FVO.

## 4.362 OrganizationIdentification\_MVO

Field	Type	Format	Required
identificationId	string	N/A	No
issuingAuthority	string	N/A	No
issuingDate	string	date-time	No
identificationType	string	N/A	No
validFor	TimePeriod	N/A	No
attachment	AttachmentOrDocumentRef	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"OrganizationIdentification"	Yes

Table 4.362: Fields of OrganizationIdentification\_MVO.

## 4.363 OrganizationParentRelationship

Field	Type	Format	Required
relationshipType	string	N/A	No
organization	OrganizationRef	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"OrganizationParentRelationship"	Yes

Table 4.363: Fields of OrganizationParentRelationship.



## 4.364 OrganizationParentRelationship\_FVO

Field	Type	Format	Required
relationshipType	string	N/A	No
organization	OrganizationRef_FVO	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"OrganizationParentRelationship"	Yes

Table 4.364: Fields of OrganizationParentRelationship\_FVO.

## 4.365 OrganizationParentRelationship\_MVO

Field	Type	Format	Required
relationshipType	string	N/A	No
organization	OrganizationRef_MVO	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"OrganizationParentRelationship"	Yes

Table 4.365: Fields of OrganizationParentRelationship\_MVO.

## 4.366 OrganizationRef

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"OrganizationRef"	Yes

Table 4.366: Fields of OrganizationRef.

## 4.367 OrganizationRef\_FVO

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"OrganizationRef"	Yes

Table 4.367: Fields of OrganizationRef\_FVO.

## 4.368 OrganizationRef\_MVO

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"OrganizationRef"	Yes

Table 4.368: Fields of OrganizationRef\_MVO.

## 4.369 OrganizationStateType

Valid values for the lifecycle state of the organization

Field	Type	Format	Required
OrganizationStateType	string	oneOf[initialized, validated, closed]	No

Table 4.369: Fields of OrganizationStateType.

## 4.370 Organization\_FVO

Field	Type	Format	Required
id	string	N/A	No
name	string	N/A	Yes
externalReference	array	ExternalIdentifier_FVO	No
partyCharacteristic	array	Characteristic_FVO	No
taxExemptionCertificate	array	TaxExemptionCertificate_FVO	No
creditRating	array	PartyCreditProfile_FVO	No
relatedParty	array	RelatedPartyOrParty-Role_FVO	No
contactMedium	array	ContactMedium_FVO	No
isLegalEntity	boolean	N/A	No
isHeadOffice	boolean	N/A	No
organizationType	string	N/A	No
existsDuring	TimePeriod	N/A	No
nameType	string	N/A	No
status	OrganizationStateType	N/A	No
otherName	array	OtherNameOrganization_FVO	No
organizationIdentification	array	OrganizationIdentification_FVO	No
organizationChildRelationship	array	OrganizationChildRelationship_FVO	No
organizationParentRelationship	OrganizationParentRelationship_FVO	N/A	No
tradingName	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"Organization"	Yes

Table 4.370: Fields of Organization\_FVO.

## 4.371 Organization\_MVO

Field	Type	Format	Required
name	string	N/A	No
externalReference	array	ExternalIdentifier_MVO	No
partyCharacteristic	array	Characteristic_MVO	No
taxExemptionCertificate	array	TaxExemptionCertificate_MVO	No
creditRating	array	PartyCreditProfile_MVO	No
relatedParty	array	RelatedPartyOrParty-Role_MVO	No
contactMedium	array	ContactMedium_MVO	No
isLegalEntity	boolean	N/A	No
isHeadOffice	boolean	N/A	No
organizationType	string	N/A	No
existsDuring	TimePeriod	N/A	No
nameType	string	N/A	No
status	OrganizationStateType	N/A	No
otherName	array	OtherNameOrganization_MVO	No
organizationIdentification	array	OrganizationIdentification_MVO	No
organizationChildRelationship	array	OrganizationChildRelationship_MVO	No
organizationParentRelationship	OrganizationParentRelationship_MVO	N/A	No
tradingName	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"Organization"	Yes

Table 4.371: Fields of Organization\_MVO.



## 4.372 OtherNameIndividual

Keeps track of other names, for example the old name of a woman before marriage or an artist name.

Field	Type	Format	Required
title	string	N/A	No
aristocraticTitle	string	N/A	No
generation	string	N/A	No
givenName	string	N/A	No
preferredGivenName	string	N/A	No
familyNamePrefix	string	N/A	No
familyName	string	N/A	No
legalName	string	N/A	No
middleName	string	N/A	No
fullName	string	N/A	No
formattedName	string	N/A	No
validFor	TimePeriod	N/A	No

Table 4.372: Fields of OtherNameIndividual.

## 4.373 OtherNameOrganization

Field	Type	Format	Required
name	string	N/A	No
tradingName	string	N/A	No
nameType	string	N/A	No
validFor	TimePeriod	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"OtherNameOrganization"	Yes

Table 4.373: Fields of OtherNameOrganization.

## 4.374 OtherNameOrganization\_FVO

Field	Type	Format	Required
name	string	N/A	No
tradingName	string	N/A	No
nameType	string	N/A	No
validFor	TimePeriod	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"OtherNameOrganization"	Yes

Table 4.374: Fields of OtherNameOrganization\_FVO.

## 4.375 OtherNameOrganization\_MVO

Field	Type	Format	Required
name	string	N/A	No
tradingName	string	N/A	No
nameType	string	N/A	No
validFor	TimePeriod	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"OtherNameOrganization"	Yes

Table 4.375: Fields of OtherNameOrganization\_MVO.

## 4.376 OutputFormat

List of possible output formats for the Performance Report

Field	Type	Format	Required
OutputFormat	string	oneOf[json, xml, avro, csv]	No

Table 4.376: Fields of OutputFormat.

## 4.377 Party

Field	Type	Format	Required
id	string	N/A	No
href	string	uri	No
externalReference	array	ExternalIdentifier	No
partyCharacteristic	array	Characteristic	No
taxExemptionCertificate	array	TaxExemptionCertificate	No
creditRating	array	PartyCreditProfile	No
relatedParty	array	RelatedPartyOrPartyRole	No
contactMedium	array	ContactMedium	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	oneOf["Party", "Organization", "Individual"]	Yes

Table 4.377: Fields of Party.

## 4.378 PartyCreditProfile

Field	Type	Format	Required
id	string	N/A	No
href	string	uri	No
creditAgencyName	string	N/A	No
creditAgencyType	string	N/A	No
ratingReference	string	N/A	No
ratingScore	integer	int32	No
validFor	TimePeriod	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"PartyCreditProfile"	Yes

Table 4.378: Fields of PartyCreditProfile.

## 4.379 PartyCreditProfile\_FVO

Field	Type	Format	Required
id	string	N/A	No
creditAgencyName	string	N/A	No
creditAgencyType	string	N/A	No
ratingReference	string	N/A	No
ratingScore	integer	int32	No
validFor	TimePeriod	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"PartyCreditProfile"	Yes

Table 4.379: Fields of PartyCreditProfile\_FVO.



## 4.380 PartyCreditProfile\_MVO

Field	Type	Format	Required
creditAgencyName	string	N/A	No
creditAgencyType	string	N/A	No
ratingReference	string	N/A	No
ratingScore	integer	int32	No
validFor	TimePeriod	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"PartyCreditProfile"	Yes

Table 4.380: Fields of PartyCreditProfile\_MVO.

## 4.381 PartyOrPartyRole

Field	Type	Format	Required
@type	string	oneOf["PartyRef", "PartyRoleRef", "Individual", "Organization", "PartyRole", "Supplier", "BusinessPartner", "Consumer", "Producer"]	Yes

Table 4.381: Fields of PartyOrPartyRole.

## 4.382 PartyOrPartyRole\_FVO

Field	Type	Format	Required
@type	string	oneOf["PartyRef", "PartyRoleRef", "Individual", "Organization", "PartyRole", "Supplier", "BusinessPartner", "Consumer", "Producer"]	Yes

Table 4.382: Fields of PartyOrPartyRole\_FVO.

## 4.383 PartyOrPartyRole\_MVO

Field	Type	Format	Required
@type	string	oneOf["PartyRef", "PartyRoleRef", "Individual", "Organization", "PartyRole", "Supplier", "BusinessPartner", "Consumer", "Producer"]	Yes

Table 4.383: Fields of PartyOrPartyRole\_MVO.

## 4.384 PartyRef

A Party reference

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"PartyRef"	Yes

Table 4.384: Fields of PartyRef.

## 4.385 PartyRefOrPartyRoleRef

Field	Type	Format	Required
@type	string	oneOf["PartyRef", "PartyRoleRef"]	Yes

Table 4.385: Fields of PartyRefOrPartyRoleRef.

## 4.386 PartyRefOrPartyRoleRef\_FVO

Field	Type	Format	Required
@type	string	oneOf["PartyRef", "PartyRoleRef"]	Yes

Table 4.386: Fields of PartyRefOrPartyRoleRef\_FVO.

## 4.387 PartyRefOrPartyRoleRef\_MVO

Field	Type	Format	Required
@type	string	oneOf["PartyRef", "PartyRoleRef"]	Yes

Table 4.387: Fields of PartyRefOrPartyRoleRef\_MVO.



## 4.388 PartyRef\_FVO

A Party reference

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"PartyRef"	Yes

Table 4.388: Fields of PartyRef\_FVO.

## 4.389 PartyRef\_MVO

A Party reference

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"PartyRef"	Yes

Table 4.389: Fields of PartyRef\_MVO.

## 4.390 PartyRole

Field	Type	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
description	string	N/A	No
role	string	N/A	No
engagedParty	PartyRef	N/A	No
partyRoleSpecification	PartyRoleSpecificationRef	N/A	No
characteristic	array	Characteristic	No
account	array	AccountRef	No
agreement	array	AgreementRef	No
contactMedium	array	ContactMedium	No
paymentMethod	array	PaymentMethodRef	No
creditProfile	array	CreditProfile	No
relatedParty	array	RelatedPartyOrPartyRole	No
status	string	N/A	No
statusReason	string	N/A	No
validFor	TimePeriod	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	oneOf["PartyRole", "Supplier", "Producer", "Consumer", "BusinessPartner"]	Yes

Table 4.390: Fields of PartyRole.

## 4.391 PartyRoleRef

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
partyId	string	N/A	No
partyName	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"PartyRoleRef"	Yes

Table 4.391: Fields of PartyRoleRef.

## 4.392 PartyRoleRef\_FVO

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
partyId	string	N/A	No
partyName	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"PartyRoleRef"	Yes

Table 4.392: Fields of PartyRoleRef\_FVO.

## 4.393 PartyRoleRef\_MVO

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
partyId	string	N/A	No
partyName	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"PartyRoleRef"	Yes

Table 4.393: Fields of PartyRoleRef\_MVO.

## 4.394 PartyRoleSpecificationRef

Party role specification reference. A party role specification gives additional details on the part played by a party in a given context.

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"PartyRoleSpecificationRef"	Yes

Table 4.394: Fields of PartyRoleSpecificationRef.

## 4.395 PartyRoleSpecificationRef\_FVO

Party role specification reference. A party role specification gives additional details on the part played by a party in a given context.

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"PartyRoleSpecificationRef"	Yes

Table 4.395: Fields of PartyRoleSpecificationRef\_FVO.



## 4.396 PartyRoleSpecificationRef\_MVO

Party role specification reference. A party role specification gives additional details on the part played by a party in a given context.

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"PartyRoleSpecificationRef"	Yes

Table 4.396: Fields of PartyRoleSpecificationRef\_MVO.

## 4.397 PartyRole\_FVO

Field	Type	Format	Required
id	string	N/A	No
name	string	N/A	Yes
description	string	N/A	No
role	string	N/A	No
engagedParty	PartyRef_FVO	N/A	Yes
partyRoleSpecification	PartyRoleSpecification-Ref_FVO	N/A	No
characteristic	array	Characteristic_FVO	No
account	array	AccountRef_FVO	No
agreement	array	AgreementRef_FVO	No
contactMedium	array	ContactMedium_FVO	No
paymentMethod	array	PaymentMethodRef_FVO	No
creditProfile	array	CreditProfile_FVO	No
relatedParty	array	RelatedPartyOrParty-Role_FVO	No
status	string	N/A	No
statusReason	string	N/A	No
validFor	TimePeriod	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	oneOf["PartyRole", "Supplier", "Producer", "Consumer", "BusinessPartner"]	Yes

Table 4.397: Fields of PartyRole\_FVO.

## 4.398 PartyRole\_MVO

Field	Type	Format	Required
name	string	N/A	Yes
description	string	N/A	No
role	string	N/A	No
engagedParty	PartyRef_MVO	N/A	Yes
partyRoleSpecification	PartyRoleSpecification-Ref_MVO	N/A	No
characteristic	array	Characteristic_MVO	No
account	array	AccountRef_MVO	No
agreement	array	AgreementRef_MVO	No
contactMedium	array	ContactMedium_MVO	No
paymentMethod	array	PaymentMethodRef_MVO	No
creditProfile	array	CreditProfile_MVO	No
relatedParty	array	RelatedPartyOrParty-Role_MVO	No
status	string	N/A	No
statusReason	string	N/A	No
validFor	TimePeriod	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	oneOf["PartyRole", "Supplier", "Producer", "Consumer", "BusinessPartner"]	Yes

Table 4.398: Fields of PartyRole\_MVO.

## 4.399 Party\_FVO

Field	Type	Format	Required
id	string	N/A	No
externalReference	array	ExternalIdentifier_FVO	No
partyCharacteristic	array	Characteristic_FVO	No
taxExemptionCertificate	array	TaxExemptionCertificate_FVO	No
creditRating	array	PartyCreditProfile_FVO	No
relatedParty	array	RelatedPartyOrParty-Role_FVO	No
contactMedium	array	ContactMedium_FVO	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	oneOf["Party", "Organization", "Individual"]	Yes

Table 4.399: Fields of Party\_FVO.

## 4.400 Party\_MVO

Field	Type	Format	Required
externalReference	array	ExternalIdentifier_MVO	No
partyCharacteristic	array	Characteristic_MVO	No
taxExemptionCertificate	array	TaxExemptionCertificate_MVO	No
creditRating	array	PartyCreditProfile_MVO	No
relatedParty	array	RelatedPartyOrParty-Role_MVO	No
contactMedium	array	ContactMedium_MVO	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	oneOf["Party", "Organization", "Individual"]	Yes

Table 4.400: Fields of Party\_MVO.

## 4.401 PaymentMethodRef

PaymentMethod reference. A payment method defines a specific mean of payment (e.g direct debit).

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"PaymentMethodRef"	Yes

Table 4.401: Fields of PaymentMethodRef.

## 4.402 PaymentMethodRef\_FVO

PaymentMethod reference. A payment method defines a specific mean of payment (e.g direct debit).

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"PaymentMethodRef"	Yes

Table 4.402: Fields of PaymentMethodRef\_FVO.

## 4.403 PaymentMethodRef\_MVO

PaymentMethod reference. A payment method defines a specific mean of payment (e.g direct debit).

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"PaymentMethodRef"	Yes

Table 4.403: Fields of PaymentMethodRef\_MVO.



## 4.404 PaymentRef

If an immediate payment has been done at the product order submission, the payment information are captured and stored (as a reference) in the order.

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"PaymentRef"	Yes

Table 4.404: Fields of PaymentRef.

## 4.405 PaymentRef\_FVO

If an immediate payment has been done at the product order submission, the payment information are captured and stored (as a reference) in the order.

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"PaymentRef"	Yes

Table 4.405: Fields of PaymentRef\_FVO.

## 4.406 PaymentRef\_MVO

If an immediate payment has been done at the product order submission, the payment information are captured and stored (as a reference) in the order.

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"PaymentRef"	Yes

Table 4.406: Fields of PaymentRef\_MVO.

## 4.407 PerceivedSeverity

Lists the possible severities that can be allocated to an Alarm. The values are consistent with ITU-T Recommendation X.733. Once an alarm has been cleared, its perceived severity is set to 'cleared' and can no longer be set.

Field	Type	Format	Required
PerceivedSeverity	string	oneOf[critical, major, minor, warning, indeterminate, cleared]	No

Table 4.407: Fields of PerceivedSeverity.

## 4.408 PerformanceJob

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
description	string	N/A	No
buyerJobId	string	N/A	No
consumingApplicationId	string	N/A	No
fileTransferData	FileTransferData	N/A	No
performanceProfile	PerformanceProfileValue	N/A	Yes
producingApplicationId	string	N/A	No
scheduleDefinition	ScheduleDefinition	N/A	No
servicePayloadSpecificAttributes	ServicePayloadSpecificAttributes	N/A	Yes
creationDate	string	date-time	Yes
lastModifiedDate	string	date-time	No
rejectionReason	string	N/A	No
state	PerformanceJobStateType	N/A	Yes

Table 4.408: Fields of PerformanceJob.

## 4.409 PerformanceJobComplexQuery

Performance Job Complex Query entity is used to perform searches on Performance Job entities, including clauses based on ScheduleDefinition and ServicePayloadSpecificAttributes.

Field	Type	Format	Required
description	string	N/A	No
buyerJobId	string	N/A	No
consumingApplicationId	string	N/A	No
creationDate	string	date-time	No
granularity	Interval	N/A	No
jobPriority	integer	N/A	No
jobType	JobType	N/A	No
performanceJob	PerformanceJobRef	N/A	No
performanceProfile	PerformanceProfileValue	N/A	No
producingApplicationId	string	N/A	No
reportingPeriod	Interval	N/A	No
scheduleDefinition	ScheduleDefinition	N/A	No
servicePayloadSpecificAttributes	ServicePayloadSpecificAttributes	N/A	No
state	PerformanceJobStateType	N/A	No

Table 4.409: Fields of PerformanceJobComplexQuery.

## 4.410 PerformanceJobComplexQuery\_Create

Performance Job Complex Query entity is used to perform searches on Performance Job entities, including clauses based on ScheduleDefinition and ServicePayloadSpecificAttributes.

Field	Type	Format	Required
buyerJobId	string	N/A	No
consumingApplicationId	string	N/A	No
creationDate.gt	string	date-time	No
creationDate.lt	string	date-time	No
granularity	Interval	N/A	No
jobPriority	integer	N/A	No
jobType	JobType	N/A	No
performanceProfile	PerformanceProfileValue	N/A	No
producingApplicationId	string	N/A	No
reportingPeriod	Interval	N/A	No
scheduleDefinition	ScheduleDefinition	N/A	No
servicePayloadSpecificAttributes	ServicePayloadSpecificAttributes	N/A	No
state	PerformanceJobStateType	N/A	No

Table 4.410: Fields of PerformanceJobComplexQuery\_Create.





## 4.412 PerformanceJobRef

A reference to a Performance Job resource

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
@type	string	"PerformanceJobRef"	Yes

Table 4.412: Fields of PerformanceJobRef.

## 4.413 PerformanceJobRefOrValue

Defines the reference to Performance Monitoring Job or defines values from PerformanceJob type.

Field	Type	Format	Required
@type	string	oneOf["PerformanceJobRef", "PerformanceJobValue"]	Yes

Table 4.413: Fields of PerformanceJobRefOrValue.

## 4.414 PerformanceJobStateType

The state of the Performance Monitoring Job.

state	MEF 133 name	Description			

| | `acknowledged` | Acknowledged | A Create Performance Monitoring Job request has been received by the Seller/Server and has passed basic validation. Performance Monitoring Job Identifier is assigned in the Acknowledged state. The request remains Acknowledged until all validations as applicable are completed. If the attributes are validated the request determines if the start time is immediate or scheduled. If immediate, the Performance Monitoring Job moves to the In-progress state. If scheduled, the Performance Monitoring Job moves to the Scheduled state. If not all attributes are validated, the request moves to the Rejected state. | | `cancelled` | Cancelled | A Performance Monitoring Job that is In-Progress, Suspended, or Scheduled is cancelled. | | `completed` | Completed | A non-recurring Performance Monitoring Job finished execution. | | `inProgress` | In-Progress | A Performance Monitoring Job is running. Upon completion of the Job, a determination if the Performance Monitoring Job is a one-time Job or is recurring is performed. If the Performance Monitoring Job is a one-time Job, the state of the Performance Monitoring Job moves to the Completed state. If the Performance Monitoring Job is recurring, the Performance Monitoring Job circles back to determine if it has an immediate start time or a scheduled start time. If a Suspend Performance Monitoring Job request is accepted, the Job moves to the Suspended state. If a Cancel Performance Monitoring Job request is accepted, the Job moves to the Cancelled state. | | `pending` | Pending | A Modify Performance Monitoring Job request has been accepted by the Seller/Server. The Performance Monitoring Job remains Pending while updates to the Job are completed. Once updates are complete, the Job returns to the Scheduled or In-Progress status depending on the schedule definition. | | `rejected` | Rejected | A create Performance Monitoring Job request fails validation and is rejected with error indications by the Seller/Server. | | `resourceUnavailable` | Resource Unavailable | A Performance Monitoring Job cannot be allocated necessary resources when moving to execution (In-Progress state). | | `scheduled` | Scheduled | A Performance Monitoring Job is created that does not have an immediate start time. The Performance Monitoring Job stays Scheduled until the start time is reached. The Performance Monitoring Job then moves to In-Progress. If the Cancel Performance Monitoring Job request is accepted, the Job moves to the Cancelled state. If the Modify Performance Monitoring Job request is accepted, the Job moves to the Pending state. | | `suspended` | Suspended | A Suspend Performance Monitoring Job request is accepted by the Seller/Server. The Job remains Suspended until a Resume Performance Monitoring Job request is accepted by the Seller/Server at which time the Job returns to the In-Progress state. If the Cancel Performance Monitoring Job request is accepted, the Job moves to the Cancelled state. If the Modify Performance Monitoring Job request is accepted, the Job moves to the Pending state. |

Field	Type	Format	Required
PerformanceJobStateType	string	oneOf[acknowledged, cancelled, completed, inProgress, pending, rejected, resourceUnavailable, scheduled, suspended]	No

Table 4.414: Fields of PerformanceJobStateType.

## 4.415 PerformanceJobValue

Direct assignment of values defined by PerformanceJob type to PerformanceReport object. Necessary when PerformanceReport is not created by PerformanceJob and without relation to PerformanceJob.

Field	Type	Format	Required
consumingApplicationId	string	N/A	No
fileTransferData	FileTransferData	N/A	No
granularity	Interval	N/A	No
outputFormat	OutputFormat	N/A	Yes
producingApplicationId	string	N/A	No
resultFormat	ResultFormat	N/A	Yes
servicePayloadSpecificAttributes	ServicePayloadSpecificAttributes	N/A	Yes
@type	string	"PerformanceJobValue"	Yes

Table 4.415: Fields of PerformanceJobValue.

## 4.416 PerformanceJob\_Common

A Performance Monitoring Job specifies the performance monitoring objectives specific to each subject of monitoring which could be an ordered pair (i.e., two UNIs) or an entity (i.e., port).

Field	Type	Format	Required
description	string	N/A	No
buyerJobId	string	N/A	No
consumingApplicationId	string	N/A	No
fileTransferData	FileTransferData	N/A	No
performanceProfile	PerformanceProfileValue	N/A	Yes
producingApplicationId	string	N/A	No
scheduleDefinition	ScheduleDefinition	N/A	No
servicePayloadSpecificAttributes	ServicePayloadSpecificAttributes	N/A	Yes

Table 4.416: Fields of PerformanceJob\_Common.

## 4.417 PerformanceJob\_Create

Field	Type	Format	Required
description	string	N/A	No
buyerJobId	string	N/A	No
consumingApplicationId	string	N/A	No
fileTransferData	FileTransferData	N/A	No
performanceProfile	PerformanceProfileValue	N/A	Yes
producingApplicationId	string	N/A	No
scheduleDefinition	ScheduleDefinition	N/A	No
servicePayloadSpecificAttributes	ServicePayloadSpecificAttributes	N/A	Yes

Table 4.417: Fields of PerformanceJob\_Create.

## 4.418 PerformanceJob\_Find

This class represents a single list item for the response of the `listPerformanceJob` operation.

Field	Type	Format	Required
id	string	N/A	Yes
description	string	N/A	No
buyerJobId	string	N/A	No
consumingApplicationId	string	N/A	No
creationDate	string	date-time	Yes
performanceProfile	PerformanceProfileValue	N/A	Yes
producingApplicationId	string	N/A	No
scheduleDefinition	ScheduleDefinition	N/A	No
state	PerformanceJobStateType	N/A	Yes

Table 4.418: Fields of PerformanceJob\_Find.

## 4.419 PerformanceProfileRef

A reference to a Performance Profile resource

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
@type	string	"PerformanceProfileRef"	Yes

Table 4.419: Fields of PerformanceProfileRef.



## 4.420 PerformanceProfileRefOrValue

Defines the reference to Performance Monitoring Profile or defines values from PerformanceProfile type.

Field	Type	Format	Required
@type	string	"PerformanceProfileRef"	Yes

Table 4.420: Fields of PerformanceProfileRefOrValue.

## 4.421 PerformanceProfileValue

Direct assignment of values defined by PerformanceProfile type to PerformanceJob object. Necessary when PerformanceJob is created without reference to PerformanceProfile.

Field	Type	Format	Required
granularity	Interval	N/A	No
jobPriority	integer	N/A	No
jobType	JobType	N/A	Yes
outputFormat	OutputFormat	N/A	Yes
reportingPeriod	Interval	N/A	No
resultFormat	ResultFormat	N/A	Yes

Table 4.421: Fields of PerformanceProfileValue.

## 4.422 PerformanceReport

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
description	string	N/A	No
reportingTimeframe	ReportingTimeframe	N/A	No
creationDate	string	date-time	Yes
failureReason	string	N/A	No
lastModifiedDate	string	date-time	No
performanceJob	PerformanceJobRefOrValue	N/A	No
reportContent	array	ReportContentItem	No
reportUrl	AttachmentURL	N/A	No
state	PerformanceReportState- Type	N/A	Yes

Table 4.422: Fields of PerformanceReport.

## 4.423 PerformanceReportComplexQuery

Performance Report Complex Query entity is used to perform searches on Performance Report entities, including clauses based on ServicePayloadSpecificAttributes.

Field	Type	Format	Required
description	string	N/A	No
consumingApplicationId	string	N/A	No
creationDate	string	date-time	No
granularity	Interval	N/A	No
outputFormat	OutputFormat	N/A	No
performanceJob	PerformanceJobRef	N/A	No
performanceReport	PerformanceReportRef	N/A	No
producingApplicationId	string	N/A	No
reportingTimeframe	ReportingTimeframe	N/A	No
resultFormat	ResultFormat	N/A	No
servicePayloadSpecificAttributes	ServicePayloadSpecificAttributes	N/A	No
state	PerformanceReportState-Type	N/A	No

Table 4.423: Fields of PerformanceReportComplexQuery.

## 4.424 PerformanceReportComplexQuery\_Create

Performance Report Complex Query entity is used to perform searches on Performance Report entities, including clauses based on ServicePayloadSpecificAttributes.

Field	Type	Format	Required
consumingApplicationId	string	N/A	No
creationDate.gt	string	date-time	No
creationDate.lt	string	date-time	No
granularity	Interval	N/A	No
outputFormat	OutputFormat	N/A	No
performanceJob	PerformanceJobRef	N/A	No
producingApplicationId	string	N/A	No
reportingTime-frame.startDate.gt	string	date-time	No
reportingTime-frame.startDate.lt	string	date-time	No
reportingTime-frame.endDate.gt	string	date-time	No
reportingTime-frame.endDate.lt	string	date-time	No
resultFormat	ResultFormat	N/A	No
servicePayloadSpecificAttributes	ServicePayloadSpecificAttributes	N/A	No
state	PerformanceReportState-Type	N/A	No

Table 4.424: Fields of PerformanceReportComplexQuery\_Create.

## 4.425 PerformanceReportRef

A reference to a Performance Report resource

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No

Table 4.425: Fields of PerformanceReportRef.

## 4.426 PerformanceReportStateType

Possible values for the state of a Performance Report.

State	Description
-------	-------------

**acknowledged** | A Performance Report request has been received by Seller/Server and has passed basic validations. Performance Report Identifier is assigned in the Acknowledged state. The report remains Acknowledged until all validations as applicable are completed. If the attributes are validated, the Performance Report moves to the In-Progress state. If not all attributes are validated, the report moves to the Rejected state.

**completed** | A Performance Report is completed and results are available.

**failed** | A Performance Report processing has failed.

**inProgress** | A Performance Report has successfully passed the validations checks and the report processing has started.

**rejected** | This state indicates that:

- Invalid information is provided through the `PerformanceReport` request
- The request fails to meet validation rules for `PerformanceReport` delivery (processing).

Field	Type	Format	Required
PerformanceReportState-Type	string	oneOf[acknowledged, completed, failed, inProgress, rejected]	No

Table 4.426: Fields of PerformanceReportStateType.

## 4.427 PerformanceReport\_Common

The execution of PM Job results in Performance Measurement collections that provide Buyer/Client with performance objectives results.

Field	Type	Format	Required
description	string	N/A	No
reportingTimeframe	ReportingTimeframe	N/A	No

Table 4.427: Fields of PerformanceReport\_Common.



## 4.428 PerformanceReport\_Create

Field	Type	Format	Required
description	string	N/A	No
reportingTimeframe	ReportingTimeframe	N/A	No
performanceJob	PerformanceJobValue	N/A	Yes

Table 4.428: Fields of PerformanceReport\_Create.

## 4.429 PerformanceReport\_Find

This class represents a single list item for the response of the `listPerformanceReport` operation.

Field	Type	Format	Required
id	string	N/A	Yes
description	string	N/A	No
creationDate	string	date-time	Yes
performanceJob	PerformanceJobRefOrValue	N/A	No
reportingTimeframe	ReportingTimeframe	N/A	No
state	PerformanceReportState- Type	N/A	Yes

Table 4.429: Fields of PerformanceReport\_Find.

## 4.430 PhoneContactMedium

Field	Type	Format	Required
id	string	N/A	No
preferred	boolean	N/A	No
contactType	string	N/A	No
validFor	TimePeriod	N/A	No
phoneNumber	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	N/A	Yes

Table 4.430: Fields of PhoneContactMedium.

## 4.431 PhoneContactMedium\_FVO

Field	Type	Format	Required
id	string	N/A	No
preferred	boolean	N/A	No
contactType	string	N/A	No
validFor	TimePeriod	N/A	No
phoneNumber	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	N/A	Yes

Table 4.431: Fields of PhoneContactMedium\_FVO.

## 4.432 PhoneContactMedium\_MVO

Field	Type	Format	Required
id	string	N/A	No
preferred	boolean	N/A	No
contactType	string	N/A	No
validFor	TimePeriod	N/A	No
phoneNumber	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	N/A	Yes

Table 4.432: Fields of PhoneContactMedium\_MVO.

## 4.433 PhysicalResource

Field	Type	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
description	string	N/A	No
category	string	N/A	No
endOperatingDate	string	date-time	No
administrativeState	ResourceAdministrativeStateType	N/A	No
operationalState	ResourceOperationalStateType	N/A	No
resourceStatus	ResourceStatusType	N/A	No
usageState	ResourceUsageStateType	N/A	No
validFor	TimePeriod	N/A	No
note	array	Note	No
resourceOrderItem	array	RelatedResourceOrderItem	No
place	array	RelatedPlaceRef	No
relatedParty	array	RelatedPartyRefOrPartyRoleRef	No
supportingResource	array	ResourceRefOrValue	No
resourceRelationship	array	ResourceRelationship	No
resourceCharacteristic	array	Characteristic	No
attachment	array	AttachmentOrDocumentRef	No
resourceSpecification	ResourceSpecificationRef	N/A	No
startOperatingDate	string	date-time	No
resourceVersion	string	N/A	No
activationFeature	array	Feature	No
intent	IntentRef	N/A	No
externalIdentifier	array	ExternalIdentifier	No
manufactureDate	string	date-time	No
powerState	string	N/A	No
serialNumber	string	N/A	No
versionNumber	string	N/A	No

Field	Type	Format	Required
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"PhysicalResource"	Yes

Table 4.433: Fields of PhysicalResource.

## 4.434 PhysicalResourceSpecification

Field	Type	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
description	string	N/A	No
version	string	N/A	No
validFor	TimePeriod	N/A	No
isBundle	boolean	N/A	No
lastUpdate	string	date-time	No
lifecycleStatus	string	N/A	No
category	string	N/A	No
targetResourceSchema	TargetResourceSchema	N/A	No
featureSpecification	array	FeatureSpecification	No
attachment	array	AttachmentOrDocumentRef	No
relatedParty	array	RelatedPartyRefOrPartyRoleRef	No
resourceSpecCharacteristic	array	CharacteristicSpecification	No
resourceSpecRelationship	array	ResourceSpecificationRelationship	No
intentSpecification	IntentSpecificationRef	N/A	No
externalIdentifier	array	ExternalIdentifier	No
model	string	N/A	No
part	string	N/A	No
sku	string	N/A	No
vendor	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"PhysicalResourceSpecification"	Yes

Table 4.434: Fields of PhysicalResourceSpecification.



## 4.435 PhysicalResource\_FVO

Field	Type	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
description	string	N/A	No
category	string	N/A	No
endOperatingDate	string	date-time	No
administrativeState	ResourceAdministrativeStateType	N/A	No
operationalState	ResourceOperationalStateType	N/A	No
resourceStatus	ResourceStatusType	N/A	No
usageState	ResourceUsageStateType	N/A	No
validFor	TimePeriod	N/A	No
note	array	Note_FVO	No
resourceOrderItem	array	RelatedResourceOrderItem_FVO	No
place	array	RelatedPlaceRef_FVO	No
relatedParty	array	RelatedPartyRefOrPartyRoleRef_FVO	No
supportingResource	array	ResourceRefOrValue_FVO	No
resourceRelationship	array	ResourceRelationship_FVO	No
resourceCharacteristic	array	Characteristic_FVO	No
attachment	array	AttachmentOrDocumentRef	No
resourceSpecification	ResourceSpecificationRef_FVO	N/A	No
startOperatingDate	string	date-time	No
resourceVersion	string	N/A	No
activationFeature	array	Feature_FVO	No
intent	IntentRef_FVO	N/A	No
externalIdentifier	array	ExternalIdentifier_FVO	No
manufactureDate	string	date-time	No
powerState	string	N/A	No
serialNumber	string	N/A	No

Field	Type	Format	Required
versionNumber	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"PhysicalResource"	Yes

Table 4.435: Fields of PhysicalResource\_FVO.

## 4.436 PhysicalResource\_MVO

Field	Type	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
description	string	N/A	No
category	string	N/A	No
endOperatingDate	string	date-time	No
administrativeState	ResourceAdministrativeStateType	N/A	No
operationalState	ResourceOperationalStateType	N/A	No
resourceStatus	ResourceStatusType	N/A	No
usageState	ResourceUsageStateType	N/A	No
validFor	TimePeriod	N/A	No
note	array	Note_MVO	No
resourceOrderItem	array	RelatedResourceOrderItem_MVO	No
place	array	RelatedPlaceRef_MVO	No
relatedParty	array	RelatedPartyRefOrPartyRoleRef_MVO	No
supportingResource	array	ResourceRefOrValue_MVO	No
resourceRelationship	array	ResourceRelationship_MVO	No
resourceCharacteristic	array	Characteristic_MVO	No
attachment	array	AttachmentOrDocumentRef	No
resourceSpecification	ResourceSpecificationRef_MVO	N/A	No
startOperatingDate	string	date-time	No
resourceVersion	string	N/A	No
activationFeature	array	Feature_MVO	No
intent	IntentRef_MVO	N/A	No
externalIdentifier	array	ExternalIdentifier_MVO	No
manufactureDate	string	date-time	No
powerState	string	N/A	No
serialNumber	string	N/A	No

Field	Type	Format	Required
versionNumber	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"PhysicalResource"	Yes

Table 4.436: Fields of PhysicalResource\_MVO.

## 4.437 Place

Place reference.

Field	Type	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	oneOf["Place", "GeographicSite", "GeographicLocation", "GeographicAddress"]	Yes

Table 4.437: Fields of Place.

## 4.438 PlaceRef

Place reference.

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"PlaceRef"	Yes

Table 4.438: Fields of PlaceRef.

## 4.439 PlaceRefOrValue

The polymorphic attributes @type, @schemaLocation & @referredType are related to the Place entity and not the PlaceRefOrValue class itself

Field	Type	Format	Required
@type	string	oneOf["GeographicAddress", "GeographicLocation", "PlaceRef"]	Yes

Table 4.439: Fields of PlaceRefOrValue.

## 4.440 PlaceRefOrValue\_FVO

The polymorphic attributes @type, @schemaLocation & @referredType are related to the Place entity and not the PlaceRefOrValue class itself

Field	Type	Format	Required
@type	string	oneOf["GeographicLocation", "GeographicSite", "GeographicAddress", "PlaceRef"]	Yes

Table 4.440: Fields of PlaceRefOrValue\_FVO.



## 4.441 PlaceRefOrValue\_MVO

The polymorphic attributes @type, @schemaLocation & @referredType are related to the Place entity and not the PlaceRefOrValue class itself

Field	Type	Format	Required
@type	string	oneOf["GeographicLocation", "GeographicSite", "GeographicAddress", "PlaceRef"]	Yes

Table 4.441: Fields of PlaceRefOrValue\_MVO.

## 4.442 PlaceRef\_FVO

Place reference.

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"PlaceRef"	Yes

Table 4.442: Fields of PlaceRef\_FVO.

## 4.443 PlaceRef\_MVO

Place reference.

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"PlaceRef"	Yes

Table 4.443: Fields of PlaceRef\_MVO.

## 4.444 Place\_FVO

Place reference.

Field	Type	Format	Required
id	string	N/A	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	oneOf["Place", "GeographicSite", "GeographicLocation", "GeographicAddress"]	Yes

Table 4.444: Fields of Place\_FVO.

## 4.445 Place\_MVO

Place reference.

Field	Type	Format	Required
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	oneOf["Place", "GeographicSite", "GeographicLocation", "GeographicAddress"]	Yes

Table 4.445: Fields of Place\_MVO.

## 4.446 Point

A GeoJSON Point.

Field	Type	Format	Required
coordinates	Point2D	N/A	No
type	string	"Point"	Yes

Table 4.446: Fields of Point.

## 4.447 Point2D

Field	Type	Format	Required
N/A	array	number	No

Table 4.447: Fields of Point2D.

## 4.448 PolicyRef

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
version	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"PolicyRef"	Yes

Table 4.448: Fields of PolicyRef.



## 4.449 PolicyRef\_FVO

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
version	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"PolicyRef"	Yes

Table 4.449: Fields of PolicyRef\_FVO.

## 4.450 PolicyRef\_MVO

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
version	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"PolicyRef"	Yes

Table 4.450: Fields of PolicyRef\_MVO.

## 4.451 Polygon

A GeoJSON Polygon.

Field	Type	Format	Required
coordinates	2D-array	Point2D	No
type	string	"Polygon"	Yes

Table 4.451: Fields of Polygon.

## 4.452 Price

Field	Type	Format	Required
dutyFreeAmount	Money	N/A	No
percentage	number	float	No
taxIncludedAmount	Money	N/A	No
taxRate	number	float	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"Price"	Yes

Table 4.452: Fields of Price.

## 4.453 PriceAlteration

Field	Type	Format	Required
name	string	N/A	No
description	string	N/A	No
applicationDuration	integer	N/A	No
productOfferingPrice	ProductOfferingPriceRef	N/A	No
priceType	string	N/A	No
priority	integer	N/A	No
recurringChargePeriod	string	N/A	No
unitOfMeasure	string	N/A	No
price	Price	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"PriceAlteration"	Yes

Table 4.453: Fields of PriceAlteration.

## 4.454 PriceAlteration\_FVO

Field	Type	Format	Required
name	string	N/A	No
description	string	N/A	No
applicationDuration	integer	N/A	No
productOfferingPrice	ProductOffering- PriceRef_FVO	N/A	No
priceType	string	N/A	Yes
priority	integer	N/A	No
recurringChargePeriod	string	N/A	No
unitOfMeasure	string	N/A	No
price	Price_FVO	N/A	Yes
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"PriceAlteration"	Yes

Table 4.454: Fields of PriceAlteration\_FVO.

## 4.455 PriceAlteration\_MVO

Field	Type	Format	Required
name	string	N/A	No
description	string	N/A	No
applicationDuration	integer	N/A	No
productOfferingPrice	ProductOffering- PriceRef_MVO	N/A	No
priceType	string	N/A	No
priority	integer	N/A	No
recurringChargePeriod	string	N/A	No
unitOfMeasure	string	N/A	No
price	Price_MVO	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"PriceAlteration"	Yes

Table 4.455: Fields of PriceAlteration\_MVO.

## 4.456 Price\_FVO

Field	Type	Format	Required
dutyFreeAmount	Money	N/A	No
percentage	number	float	No
taxIncludedAmount	Money	N/A	No
taxRate	number	float	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"Price"	Yes

Table 4.456: Fields of Price\_FVO.



## 4.457 Price\_MVO

Field	Type	Format	Required
dutyFreeAmount	Money	N/A	No
percentage	number	float	No
taxIncludedAmount	Money	N/A	No
taxRate	number	float	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"Price"	Yes

Table 4.457: Fields of Price\_MVO.

## 4.458 PricingLogicAlgorithm

Field	Type	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
description	string	N/A	No
plaSpecId	string	N/A	No
validFor	TimePeriod	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"PricingLogicAlgorithm"	Yes

Table 4.458: Fields of PricingLogicAlgorithm.

## 4.459 Producer

Field	Type	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
description	string	N/A	No
role	string	N/A	No
engagedParty	PartyRef	N/A	No
partyRoleSpecification	PartyRoleSpecificationRef	N/A	No
characteristic	array	Characteristic	No
account	array	AccountRef	No
agreement	array	AgreementRef	No
contactMedium	array	ContactMedium	No
paymentMethod	array	PaymentMethodRef	No
creditProfile	array	CreditProfile	No
relatedParty	array	RelatedPartyOrPartyRole	No
status	string	N/A	No
statusReason	string	N/A	No
validFor	TimePeriod	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"Producer"	Yes

Table 4.459: Fields of Producer.

## 4.460 Producer\_FVO

Field	Type	Format	Required
id	string	N/A	No
name	string	N/A	Yes
description	string	N/A	No
role	string	N/A	No
engagedParty	PartyRef_FVO	N/A	Yes
partyRoleSpecification	PartyRoleSpecification-Ref_FVO	N/A	No
characteristic	array	Characteristic_FVO	No
account	array	AccountRef_FVO	No
agreement	array	AgreementRef_FVO	No
contactMedium	array	ContactMedium_FVO	No
paymentMethod	array	PaymentMethodRef_FVO	No
creditProfile	array	CreditProfile_FVO	No
relatedParty	array	RelatedPartyOrParty-Role_FVO	No
status	string	N/A	No
statusReason	string	N/A	No
validFor	TimePeriod	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"Producer"	Yes

Table 4.460: Fields of Producer\_FVO.

## 4.461 Producer\_MVO

Field	Type	Format	Required
name	string	N/A	Yes
description	string	N/A	No
role	string	N/A	No
engagedParty	PartyRef_MVO	N/A	Yes
partyRoleSpecification	PartyRoleSpecification-Ref_MVO	N/A	No
characteristic	array	Characteristic_MVO	No
account	array	AccountRef_MVO	No
agreement	array	AgreementRef_MVO	No
contactMedium	array	ContactMedium_MVO	No
paymentMethod	array	PaymentMethodRef_MVO	No
creditProfile	array	CreditProfile_MVO	No
relatedParty	array	RelatedPartyOrParty-Role_MVO	No
status	string	N/A	No
statusReason	string	N/A	No
validFor	TimePeriod	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"Producer"	Yes

Table 4.461: Fields of Producer\_MVO.

## 4.462 Product

Field	Type	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
description	string	N/A	No
agreementItem	array	AgreementItemRef	No
billingAccount	BillingAccountRef	N/A	No
creationDate	string	date-time	No
isBundle	boolean	N/A	No
isCustomerVisible	boolean	N/A	No
orderDate	string	date-time	No
productCharacteristic	array	Characteristic	No
productOffering	ProductOfferingRef	N/A	No
productOrderItem	array	RelatedOrderItem	No
product	array	ProductRefOrValue	No
productPrice	array	ProductPrice	No
productRelationship	array	ProductRelationship	No
productSerialNumber	string	N/A	No
productSpecification	ProductSpecificationRef	N/A	No
productTerm	array	ProductTerm	No
realizingResource	array	ResourceRef	No
realizingService	array	ServiceRef	No
relatedParty	array	RelatedPartyOrPartyRole	No
place	array	RelatedPlaceRefOrValue	No
startDate	string	date-time	No
status	ProductStatusType	N/A	No
terminationDate	string	date-time	No
intent	IntentRefOrValue	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"Product"	Yes

Table 4.462: Fields of Product.

## 4.463 ProductOffering

Field	Type	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
description	string	N/A	No
isBundle	boolean	N/A	No
isSellable	boolean	N/A	No
statusReason	string	N/A	No
validFor	TimePeriod	N/A	No
version	string	N/A	No
place	array	PlaceRef	No
serviceLevelSpecification	ServiceLevelSpecification-Ref	N/A	No
channel	array	ChannelRef	No
serviceCandidate	ServiceCandidateRef	N/A	No
category	array	CategoryRef	No
resourceCandidate	ResourceCandidateRef	N/A	No
productOfferingTerm	array	ProductOfferingTerm	No
productOfferingPrice	array	ProductOfferingPrice	No
agreement	array	AgreementRef	No
bundledProductOffering	array	BundledProductOffering	No
bundledGroupProductOffering	array	BundledGroupProductOffering	No
attachment	array	AttachmentOrDocumentRef	No
marketSegment	array	MarketSegmentRef	No
productOfferingRelationship	array	ProductOfferingRelationship	No
productOfferingCharacteristic	array	CharacteristicSpecification	No
prodSpecCharValueUse	array	ProductSpecificationCharacteristicValueUse	No
policy	array	PolicyRef	No
allowedAction	array	AllowedProductAction	No
lastUpdate	string	date-time	No

Field	Type	Format	Required
lifecycleStatus	string	N/A	No
productSpecification	ProductSpecificationRef	N/A	No
externalIdentifier	array	ExternalIdentifier	No
accessProbability	integer	N/A	No
relatedParty	array	RelatedPartyRefOrPartyRoleRef	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"ProductOffering"	Yes

Table 4.463: Fields of ProductOffering.



## 4.464 ProductOfferingPrice

Field	Type	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
description	string	N/A	No
version	string	N/A	No
validFor	TimePeriod	N/A	No
unitOfMeasure	Quantity	N/A	No
recurringChargePeriodType	string	N/A	No
recurringChargePeriodLength	integer	N/A	No
isBundle	boolean	N/A	No
price	Money	N/A	No
percentage	number	float	No
bundledPopRelationship	array	BundledProductOffering-PriceRelationship	No
popRelationship	array	ProductOfferingPriceRelationship	No
prodSpecCharValueUse	array	ProductSpecificationCharacteristicValueUse	No
productOfferingTerm	array	ProductOfferingTerm	No
place	array	PlaceRef	No
policy	array	PolicyRef	No
pricingLogicAlgorithm	array	PricingLogicAlgorithm	No
tax	array	TaxItem	No
priceType	string	N/A	No
lastUpdate	string	date-time	No
lifecycleStatus	string	N/A	No
externalIdentifier	array	ExternalIdentifier	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"ProductOfferingPrice"	Yes

Table 4.464: Fields of ProductOfferingPrice.

## 4.465 ProductOfferingPriceRef

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
version	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"ProductOfferingPriceRef"	Yes

Table 4.465: Fields of ProductOfferingPriceRef.

## 4.466 ProductOfferingPriceRef\_FVO

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
version	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"ProductOfferingPriceRef"	Yes

Table 4.466: Fields of ProductOfferingPriceRef\_FVO.

## 4.467 ProductOfferingPriceRef\_MVO

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
version	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"ProductOfferingPriceRef"	Yes

Table 4.467: Fields of ProductOfferingPriceRef\_MVO.

## 4.468 ProductOfferingPriceRelationship

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
role	string	N/A	No
relationshipType	string	N/A	No
version	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"ProductOfferingPriceRelationship"	Yes

Table 4.468: Fields of ProductOfferingPriceRelationship.

## 4.469 ProductOfferingQualificationItemRef

Field	Type	Format	Required
productOfferingQualificationName	string	N/A	No
productOfferingQualificationHref	string	N/A	No
productOfferingQualificationId	string	N/A	No
itemId	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"ProductOfferingQualificationItemRef"	Yes

Table 4.469: Fields of ProductOfferingQualificationItemRef.

## 4.470 ProductOfferingQualificationItemRef\_FVO

Field	Type	Format	Required
productOfferingQualificationName	string	N/A	No
productOfferingQualificationHref	string	N/A	No
productOfferingQualificationId	string	N/A	Yes
itemId	string	N/A	Yes
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"ProductOfferingQualificationItemRef"	Yes

Table 4.470: Fields of ProductOfferingQualificationItemRef\_FVO.

## 4.471 ProductOfferingQualificationItemRef\_MVO

Field	Type	Format	Required
productOfferingQualificationName	string	N/A	No
productOfferingQualificationHref	string	N/A	No
productOfferingQualificationId	string	N/A	No
itemId	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"ProductOfferingQualificationItemRef"	Yes

Table 4.471: Fields of ProductOfferingQualificationItemRef\_MVO.



## 4.472 ProductOfferingQualificationRef

A productOfferingQualification that has been executed previously

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"ProductOfferingQualifica- tionRef"	Yes

Table 4.472: Fields of ProductOfferingQualificationRef.

## 4.473 ProductOfferingQualificationRef\_FVO

A productOfferingQualification that has been executed previously

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"ProductOfferingQualifica- tionRef"	Yes

Table 4.473: Fields of ProductOfferingQualificationRef\_FVO.

## 4.474 ProductOfferingQualificationRef\_MVO

A productOfferingQualification that has been executed previously

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"ProductOfferingQualifica- tionRef"	Yes

Table 4.474: Fields of ProductOfferingQualificationRef\_MVO.

## 4.475 ProductOfferingRef

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
version	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	oneOf["ProductOfferingRef", "BundledProductOffering"]	Yes

Table 4.475: Fields of ProductOfferingRef.

## 4.476 ProductOfferingRef\_FVO

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
version	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	oneOf["ProductOfferingRef", "BundledProductOffering"]	Yes

Table 4.476: Fields of ProductOfferingRef\_FVO.

## 4.477 ProductOfferingRef\_MVO

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
version	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	oneOf["ProductOfferingRef", "BundledProductOffering"]	Yes

Table 4.477: Fields of ProductOfferingRef\_MVO.

## 4.478 ProductOfferingRelationship

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
role	string	N/A	No
validFor	TimePeriod	N/A	No
relationshipType	string	N/A	No
version	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"ProductOfferingRelationship"	Yes

Table 4.478: Fields of ProductOfferingRelationship.

## 4.479 ProductOfferingRelationship\_FVO

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
role	string	N/A	No
validFor	TimePeriod	N/A	No
relationshipType	string	N/A	Yes
version	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"ProductOfferingRelationship"	Yes

Table 4.479: Fields of ProductOfferingRelationship\_FVO.



## 4.480 ProductOfferingRelationship\_MVO

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
role	string	N/A	No
validFor	TimePeriod	N/A	No
relationshipType	string	N/A	Yes
version	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"ProductOfferingRelationship"	Yes

Table 4.480: Fields of ProductOfferingRelationship\_MVO.

## 4.481 ProductOfferingTerm

Field	Type	Format	Required
name	string	N/A	No
description	string	N/A	No
duration	Duration	N/A	No
validFor	TimePeriod	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"ProductOfferingTerm"	Yes

Table 4.481: Fields of ProductOfferingTerm.

## 4.482 ProductOfferingTerm\_FVO

Field	Type	Format	Required
name	string	N/A	Yes
description	string	N/A	No
duration	Duration	N/A	No
validFor	TimePeriod	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"ProductOfferingTerm"	Yes

Table 4.482: Fields of ProductOfferingTerm\_FVO.

## 4.483 ProductOfferingTerm\_MVO

Field	Type	Format	Required
name	string	N/A	No
description	string	N/A	No
duration	Duration	N/A	No
validFor	TimePeriod	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"ProductOfferingTerm"	Yes

Table 4.483: Fields of ProductOfferingTerm\_MVO.

## 4.484 ProductOffering\_FVO

Field	Type	Format	Required
id	string	N/A	No
name	string	N/A	Yes
description	string	N/A	No
isBundle	boolean	N/A	No
isSellable	boolean	N/A	No
statusReason	string	N/A	No
validFor	TimePeriod	N/A	No
version	string	N/A	No
place	array	PlaceRef_FVO	No
serviceLevelSpecification	ServiceLevelSpecification-Ref	N/A	No
channel	array	ChannelRef_FVO	No
serviceCandidate	ServiceCandidateRef_FVO	N/A	No
category	array	CategoryRef_FVO	No
resourceCandidate	ResourceCandidateRef_FVO	N/A	No
productOfferingTerm	array	ProductOfferingTerm_FVO	No
productOfferingPrice	array	ProductOfferingPrice	No
agreement	array	AgreementRef_FVO	No
bundledProductOffering	array	BundledProductOffering_FVO	No
bundledGroupProductOffering	array	BundledGroupProductOffering	No
attachment	array	AttachmentOrDocumentRef	No
marketSegment	array	MarketSegmentRef_FVO	No
productOfferingRelationship	array	ProductOfferingRelationship_FVO	No
productOfferingCharacteristic	array	CharacteristicSpecification_FVO	No
prodSpecCharValueUse	array	ProductSpecificationCharacteristicValueUse_FVO	No
policy	array	PolicyRef_FVO	No
allowedAction	array	AllowedProductAction_FVO	No

Field	Type	Format	Required
lastUpdate	string	date-time	No
lifecycleStatus	string	N/A	Yes
productSpecification	ProductSpecification-Ref_FVO	N/A	No
externalIdentifier	array	ExternalIdentifier_FVO	No
accessProbability	integer	N/A	No
relatedParty	array	RelatedPartyRefOrPartyRoleRef	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"ProductOffering"	Yes

Table 4.484: Fields of ProductOffering\_FVO.

## 4.485 ProductOffering\_MVO

Field	Type	Format	Required
name	string	N/A	No
description	string	N/A	No
isBundle	boolean	N/A	No
isSellable	boolean	N/A	No
statusReason	string	N/A	No
validFor	TimePeriod	N/A	No
version	string	N/A	No
place	array	PlaceRef_MVO	No
serviceLevelSpecification	ServiceLevelSpecification-Ref	N/A	No
channel	array	ChannelRef_MVO	No
serviceCandidate	ServiceCandidateRef_MVO	N/A	No
category	array	CategoryRef_MVO	No
resourceCandidate	ResourceCandidateRef_MVO	N/A	No
productOfferingTerm	array	ProductOfferingTerm_MVO	No
productOfferingPrice	array	ProductOfferingPrice	No
agreement	array	AgreementRef_MVO	No
bundledProductOffering	array	BundledProductOffering_MVO	No
bundledGroupProductOffering	array	BundledGroupProductOffering	No
attachment	array	AttachmentOrDocumentRef	No
marketSegment	array	MarketSegmentRef_MVO	No
productOfferingRelationship	array	ProductOfferingRelationship_MVO	No
productOfferingCharacteristic	array	CharacteristicSpecification_MVO	No
prodSpecCharValueUse	array	ProductSpecificationCharacteristicValueUse_MVO	No
policy	array	PolicyRef_MVO	No
allowedAction	array	AllowedProductAction_MVO	No
lifecycleStatus	string	N/A	No

Field	Type	Format	Required
productSpecification	ProductSpecification-Ref_MVO	N/A	No
externalIdentifier	array	ExternalIdentifier_MVO	No
accessProbability	integer	N/A	No
relatedParty	array	RelatedPartyRefOrPartyRoleRef	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"ProductOffering"	Yes

Table 4.485: Fields of ProductOffering\_MVO.



## 4.486 ProductOrder

Field	Type	Format	Required
id	string	N/A	No
href	string	uri	No
description	string	N/A	No
agreement	array	AgreementRef	No
billingAccount	BillingAccountRef	N/A	No
state	ProductOrderStateType	N/A	No
requestedInitialState	InitialProductOrderStateType	N/A	No
cancellationDate	string	date-time	No
cancellationReason	string	N/A	No
category	string	N/A	No
channel	array	RelatedChannel	No
expectedCompletionDate	string	date-time	No
externalId	array	ExternalIdentifier	No
note	array	Note	No
notificationContact	string	N/A	No
orderTotalPrice	array	OrderPrice	No
payment	array	PaymentRef	No
orderRelationship	array	OrderRelationship	No
priority	string	N/A	No
productOfferingQualification	array	ProductOfferingQualification-Ref	No
quote	array	QuoteRef	No
productOrderErrorMessage	array	ProductOrderErrorMessage	No
productOrderJeopardyAlert	array	ProductOrderJeopardyAlert	No
productOrderMilestone	array	ProductOrderMilestone	No
productOrderItem	array	ProductOrderItem	No
relatedParty	array	RelatedPartyRefOrPartyRoleRef	No
requestedCompletionDate	string	date-time	No
requestedStartDate	string	date-time	No
creationDate	string	date-time	No
completionDate	string	date-time	No

Field	Type	Format	Required
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"ProductOrder"	Yes

Table 4.486: Fields of ProductOrder.

## 4.487 ProductOrderErrorMessage

Field	Type	Format	Required
code	string	N/A	No
reason	string	N/A	No
message	string	N/A	No
status	string	N/A	No
referenceError	string	N/A	No
timestamp	string	date-time	No
productOrderItem	array	ProductOrderItemRef	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"ProductOrderErrorMes- sage"	Yes

Table 4.487: Fields of ProductOrderErrorMessage.

## 4.488 ProductOrderErrorMessage\_FVO

Field	Type	Format	Required
code	string	N/A	No
reason	string	N/A	No
message	string	N/A	No
status	string	N/A	No
referenceError	string	N/A	No
timestamp	string	date-time	No
productOrderItem	array	ProductOrderItemRef_FVO	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"ProductOrderErrorMes- sage"	Yes

Table 4.488: Fields of ProductOrderErrorMessage\_FVO.

## 4.489 ProductOrderErrorMessage\_MVO

Field	Type	Format	Required
code	string	N/A	No
reason	string	N/A	No
message	string	N/A	No
status	string	N/A	No
referenceError	string	N/A	No
timestamp	string	date-time	No
productOrderItem	array	ProductOrderItemRef_MVO	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"ProductOrderErrorMes- sage"	Yes

Table 4.489: Fields of ProductOrderErrorMessage\_MVO.

## 4.490 ProductOrderItem

Field	Type	Format	Required
id	string	N/A	No
quantity	integer	N/A	No
action	ItemActionType	N/A	No
appointment	AppointmentRef	N/A	No
billingAccount	BillingAccountRef	N/A	No
itemPrice	array	OrderPrice	No
itemTerm	array	OrderTerm	No
itemTotalPrice	array	OrderPrice	No
note	array	Note	No
payment	array	PaymentRef	No
product	ProductRefOrValue	N/A	No
productOffering	ProductOfferingRef	N/A	No
productOfferingQualificationItem	ProductOfferingQualificationItemRef	N/A	No
quoteItem	QuoteItemRef	N/A	No
productOrderItem	array	ProductOrderItem	No
productOrderItemRelationship	array	OrderItemRelationship	No
state	ProductOrderItemStateType	N/A	No
qualification	array	ProductOfferingQualificationRef	No
requestedStartDate	string	date-time	No
requestedEndDate	string	date-time	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"ProductOrderItem"	Yes

Table 4.490: Fields of ProductOrderItem.

## 4.491 ProductOrderItemRef

Field	Type	Format	Required
ProductOrderHref	string	N/A	No
productOrderId	string	N/A	No
productOrderItemId	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"ProductOrderItemRef"	Yes

Table 4.491: Fields of ProductOrderItemRef.

## 4.492 ProductOrderItemRef\_FVO

Field	Type	Format	Required
ProductOrderHref	string	N/A	No
productOrderId	string	N/A	Yes
productOrderItemId	string	N/A	Yes
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"ProductOrderItemRef"	Yes

Table 4.492: Fields of ProductOrderItemRef\_FVO.



## 4.493 ProductOrderItemRef\_MVO

Field	Type	Format	Required
ProductOrderHref	string	N/A	No
productOrderId	string	N/A	No
productOrderItemId	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"ProductOrderItemRef"	Yes

Table 4.493: Fields of ProductOrderItemRef\_MVO.

## 4.494 ProductOrderItemType

Possible values for the state of the product order item

Field	Type	Format	Required
ProductOrderItemType	string	oneOf[acknowledged, rejected, pending, held, inProgress, cancelled, completed, failed, partial, assessingCancellation, pendingCancellation]	No

Table 4.494: Fields of ProductOrderItemType.

## 4.495 ProductOrderItem\_FVO

Field	Type	Format	Required
id	string	N/A	Yes
quantity	integer	N/A	No
action	ItemActionType	N/A	Yes
appointment	AppointmentRef_FVO	N/A	No
billingAccount	BillingAccountRef_FVO	N/A	No
itemPrice	array	OrderPrice_FVO	No
itemTerm	array	OrderTerm_FVO	No
itemTotalPrice	array	OrderPrice_FVO	No
note	array	Note_FVO	No
payment	array	PaymentRef_FVO	No
product	ProductRefOrValue_FVO	N/A	No
productOffering	ProductOfferingRef_FVO	N/A	No
productOfferingQualificationItem	ProductOfferingQualificationItemRef_FVO	N/A	No
quoteItem	QuoteItemRef_FVO	N/A	No
productOrderItem	array	ProductOrderItem_FVO	No
productOrderItemRelationship	array	OrderItemRelationship_FVO	No
state	ProductOrderItemStateType	N/A	No
qualification	array	ProductOfferingQualificationRef_FVO	No
requestedStartDate	string	date-time	No
requestedEndDate	string	date-time	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"ProductOrderItem"	Yes

Table 4.495: Fields of ProductOrderItem\_FVO.

## 4.496 ProductOrderItem\_MVO

Field	Type	Format	Required
id	string	N/A	No
quantity	integer	N/A	No
action	ItemActionType	N/A	No
appointment	AppointmentRef_MVO	N/A	No
billingAccount	BillingAccountRef_MVO	N/A	No
itemPrice	array	OrderPrice_MVO	No
itemTerm	array	OrderTerm_MVO	No
itemTotalPrice	array	OrderPrice_MVO	No
note	array	Note_MVO	No
payment	array	PaymentRef_MVO	No
product	ProductRefOrValue_MVO	N/A	No
productOffering	ProductOfferingRef_MVO	N/A	No
productOfferingQualificationItem	ProductOfferingQualificationItemRef_MVO	N/A	No
quoteItem	QuoteItemRef_MVO	N/A	No
productOrderItem	array	ProductOrderItem_MVO	No
productOrderItemRelationship	array	OrderItemRelationship_MVO	No
state	ProductOrderItemStateType	N/A	No
qualification	array	ProductOfferingQualificationRef_MVO	No
requestedStartDate	string	date-time	No
requestedEndDate	string	date-time	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"ProductOrderItem"	Yes

Table 4.496: Fields of ProductOrderItem\_MVO.

## 4.497 ProductOrderJeopardyAlert

Field	Type	Format	Required
id	string	N/A	No
name	string	N/A	No
alertDate	string	date-time	No
jeopardyType	string	N/A	No
exception	string	N/A	No
message	string	N/A	No
productOrderItem	array	ProductOrderItemRef	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"ProductOrderJeopardyAlert"	Yes

Table 4.497: Fields of ProductOrderJeopardyAlert.

## 4.498 ProductOrderJeopardyAlert\_FVO

Field	Type	Format	Required
id	string	N/A	No
name	string	N/A	No
alertDate	string	date-time	No
jeopardyType	string	N/A	No
exception	string	N/A	No
message	string	N/A	No
productOrderItem	array	ProductOrderItemRef_FVO	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"ProductOrderJeopardyAlert"	Yes

Table 4.498: Fields of ProductOrderJeopardyAlert\_FVO.

## 4.499 ProductOrderJeopardyAlert\_MVO

Field	Type	Format	Required
id	string	N/A	No
name	string	N/A	No
alertDate	string	date-time	No
jeopardyType	string	N/A	No
exception	string	N/A	No
message	string	N/A	No
productOrderItem	array	ProductOrderItemRef_MVO	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"ProductOrderJeopardyAlert"	Yes

Table 4.499: Fields of ProductOrderJeopardyAlert\_MVO.

## 4.500 ProductOrderMilestone

Field	Type	Format	Required
id	string	N/A	No
name	string	N/A	No
description	string	N/A	No
status	string	oneOf[Yet-To-Reach, Completed, Violated]	No
milestoneDate	string	date-time	No
message	string	N/A	No
productOrderItem	array	ProductOrderItemRef	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"ProductOrderMilestone"	Yes

Table 4.500: Fields of ProductOrderMilestone.



## 4.501 ProductOrderMilestone\_FVO

Field	Type	Format	Required
id	string	N/A	No
name	string	N/A	No
description	string	N/A	No
status	string	oneOf[Yet-To-Reach, Completed, Violated]	No
milestoneDate	string	date-time	No
message	string	N/A	No
productOrderItem	array	ProductOrderItemRef_FVO	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"ProductOrderMilestone"	Yes

Table 4.501: Fields of ProductOrderMilestone\_FVO.

## 4.502 ProductOrderMilestone\_MVO

Field	Type	Format	Required
id	string	N/A	No
name	string	N/A	No
description	string	N/A	No
status	string	oneOf[Yet-To-Reach, Completed, Violated]	No
milestoneDate	string	date-time	No
message	string	N/A	No
productOrderItem	array	ProductOrderItemRef_MVO	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"ProductOrderMilestone"	Yes

Table 4.502: Fields of ProductOrderMilestone\_MVO.

## 4.503 ProductOrderRef

A reference to an existing Product Order.

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"ProductOrderRef"	Yes

Table 4.503: Fields of ProductOrderRef.

## 4.504 ProductOrderStateType

Possible values for the state of the order

Field	Type	Format	Required
ProductOrderStateType	string	oneOf[acknowledged, rejected, pending, held, inProgress, cancelled, completed, failed, partial, assessingCancellation, pendingCancellation, draft, inProgress.accepted]	No

Table 4.504: Fields of ProductOrderStateType.

## 4.505 ProductOrder\_FVO

Field	Type	Format	Required
id	string	N/A	No
description	string	N/A	No
agreement	array	AgreementRef_FVO	No
billingAccount	BillingAccountRef_FVO	N/A	No
requestedInitialState	InitialProductOrderStateType	N/A	No
category	string	N/A	No
channel	array	RelatedChannel_FVO	No
externalId	array	ExternalIdentifier_FVO	No
note	array	Note_FVO	No
notificationContact	string	N/A	No
orderTotalPrice	array	OrderPrice_FVO	No
payment	array	PaymentRef_FVO	No
orderRelationship	array	OrderRelationship_FVO	No
priority	string	N/A	No
productOfferingQualification	array	ProductOfferingQualification-Ref_FVO	No
quote	array	QuoteRef_FVO	No
productOrderErrorMessage	array	ProductOrderErrorMessage_FVO	No
productOrderJeopardyAlert	array	ProductOrderJeopardyAlert_FVO	No
productOrderMilestone	array	ProductOrderMilestone_FVO	No
productOrderItem	array	ProductOrderItem_FVO	Yes
relatedParty	array	RelatedPartyRefOrPartyRoleRef_FVO	No
requestedCompletionDate	string	date-time	No
requestedStartDate	string	date-time	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"ProductOrder"	Yes

Table 4.505: Fields of ProductOrder\_FVO.

## 4.506 ProductOrder\_MVO

Field	Type	Format	Required
description	string	N/A	No
agreement	array	AgreementRef_MVO	No
billingAccount	BillingAccountRef_MVO	N/A	No
state	ProductOrderStateType	N/A	No
cancellationDate	string	date-time	No
cancellationReason	string	N/A	No
category	string	N/A	No
channel	array	RelatedChannel_MVO	No
expectedCompletionDate	string	date-time	No
externalId	array	ExternalIdentifier_MVO	No
note	array	Note_MVO	No
notificationContact	string	N/A	No
orderTotalPrice	array	OrderPrice_MVO	No
payment	array	PaymentRef_MVO	No
orderRelationship	array	OrderRelationship_MVO	No
priority	string	N/A	No
productOfferingQualification	array	ProductOfferingQualification-Ref_MVO	No
quote	array	QuoteRef_MVO	No
productOrderErrorMessage	array	ProductOrderErrorMessage_MVO	No
productOrderJeopardyAlert	array	ProductOrderJeopardyAlert_MVO	No
productOrderMilestone	array	ProductOrderMilestone_MVO	No
productOrderItem	array	ProductOrderItem_MVO	No
relatedParty	array	RelatedPartyRefOrPartyRoleRef_MVO	No
requestedCompletionDate	string	date-time	No
requestedStartDate	string	date-time	No
completionDate	string	date-time	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No



Field	Type	Format	Required
@type	string	"ProductOrder"	Yes

Table 4.506: Fields of ProductOrder\_MVO.

## 4.507 ProductPrice

Field	Type	Format	Required
name	string	N/A	No
description	string	N/A	No
productOfferingPrice	ProductOfferingPriceRef	N/A	No
recurringChargePeriod	string	N/A	No
unitOfMeasure	string	N/A	No
price	Price	N/A	No
priceAlteration	array	PriceAlteration	No
priceType	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"ProductPrice"	Yes

Table 4.507: Fields of ProductPrice.



## 4.508 ProductPrice\_FVO

Field	Type	Format	Required
name	string	N/A	No
description	string	N/A	No
productOfferingPrice	ProductOffering-PriceRef_FVO	N/A	No
recurringChargePeriod	string	N/A	No
unitOfMeasure	string	N/A	No
price	Price_FVO	N/A	Yes
priceAlteration	array	PriceAlteration_FVO	No
priceType	string	N/A	Yes
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"ProductPrice"	Yes

Table 4.508: Fields of ProductPrice\_FVO.

## 4.509 ProductPrice\_MVO

Field	Type	Format	Required
name	string	N/A	No
description	string	N/A	No
productOfferingPrice	ProductOffering-PriceRef_MVO	N/A	No
recurringChargePeriod	string	N/A	No
unitOfMeasure	string	N/A	No
price	Price_MVO	N/A	No
priceAlteration	array	PriceAlteration_MVO	No
priceType	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"ProductPrice"	Yes

Table 4.509: Fields of ProductPrice\_MVO.

## 4.510 ProductRef

A Product reference

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"ProductRef"	Yes

Table 4.510: Fields of ProductRef.

## 4.511 ProductRefOrValue

The polymorphic attributes @type, @schemaLocation & @referredType are related to the Product entity and not the ProductRefOrValue class itself

Field	Type	Format	Required
@type	string	oneOf["Product", "ProductRef"]	Yes

Table 4.511: Fields of ProductRefOrValue.

## 4.512 ProductRefOrValue\_FVO

The polymorphic attributes @type, @schemaLocation & @referredType are related to the Product entity and not the ProductRefOrValue class itself

Field	Type	Format	Required
@type	string	oneOf["Product", "ProductRef"]	Yes

Table 4.512: Fields of ProductRefOrValue\_FVO.

## 4.513 ProductRefOrValue\_MVO

The polymorphic attributes @type, @schemaLocation & @referredType are related to the Product entity and not the ProductRefOrValue class itself

Field	Type	Format	Required
@type	string	oneOf["Product", "ProductRef"]	Yes

Table 4.513: Fields of ProductRefOrValue\_MVO.

## 4.514 ProductRef\_FVO

A Product reference

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"ProductRef"	Yes

Table 4.514: Fields of ProductRef\_FVO.

## 4.515 ProductRef\_MVO

A Product reference

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"ProductRef"	Yes

Table 4.515: Fields of ProductRef\_MVO.



## 4.516 ProductRelationship

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
relationshipType	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"ProductRelationship"	Yes

Table 4.516: Fields of ProductRelationship.

## 4.517 ProductRelationship\_FVO

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
relationshipType	string	N/A	Yes
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"ProductRelationship"	Yes

Table 4.517: Fields of ProductRelationship\_FVO.

## 4.518 ProductRelationship\_MVO

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
relationshipType	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"ProductRelationship"	Yes

Table 4.518: Fields of ProductRelationship\_MVO.

## 4.519 ProductSpecification

Field	Type	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
description	string	N/A	No
brand	string	N/A	No
isBundle	boolean	N/A	No
productNumber	string	N/A	No
category	array	CategoryRef	No
validFor	TimePeriod	N/A	No
version	string	N/A	No
relatedParty	array	RelatedPartyRefOrPartyRoleRef	No
productSpecCharacteristic	array	CharacteristicSpecification	No
serviceSpecification	array	ServiceSpecificationRef	No
bundledProductSpecification	array	BundledProductSpecification	No
productSpecificationRelationship	array	ProductSpecificationRelationship	No
resourceSpecification	array	ResourceSpecificationRef	No
attachment	array	AttachmentOrDocumentRef	No
policy	array	PolicyRef	No
targetProductSchema	TargetProductSchema	N/A	No
intentSpecification	IntentSpecificationRef	N/A	No
lastUpdate	string	date-time	No
lifecycleStatus	string	N/A	No
externalIdentifier	array	ExternalIdentifier	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"ProductSpecification"	Yes

Table 4.519: Fields of ProductSpecification.

## 4.520 ProductSpecificationCharacteristicValueUse

Field	Type	Format	Required
id	string	N/A	No
name	string	N/A	No
description	string	N/A	No
valueType	string	N/A	No
minCardinality	integer	N/A	No
maxCardinality	integer	N/A	No
validFor	TimePeriod	N/A	No
productSpecCharacteristic-Value	array	CharacteristicValueSpecifi- cation	No
productSpecification	ProductSpecificationRef	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"ProductSpecificationChar- acteristicValueUse"	Yes

Table 4.520: Fields of ProductSpecificationCharacteristicValueUse.

## 4.521 ProductSpecificationCharacteristicValueUse\_FVO

Field	Type	Format	Required
id	string	N/A	No
name	string	N/A	No
description	string	N/A	No
valueType	string	N/A	No
minCardinality	integer	N/A	No
maxCardinality	integer	N/A	No
validFor	TimePeriod	N/A	No
productSpecCharacteristic-Value	array	CharacteristicValueSpecifi- cation_FVO	No
productSpecification	ProductSpecification- Ref_FVO	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"ProductSpecificationChar- acteristicValueUse"	Yes

Table 4.521: Fields of ProductSpecificationCharacteristicValueUse\_FVO.

## 4.522 ProductSpecificationCharacteristicValueUse\_MVO

Field	Type	Format	Required
id	string	N/A	No
name	string	N/A	No
description	string	N/A	No
valueType	string	N/A	No
minCardinality	integer	N/A	No
maxCardinality	integer	N/A	No
validFor	TimePeriod	N/A	No
productSpecCharacteristic-Value	array	CharacteristicValueSpecifi- cation_MVO	No
productSpecification	ProductSpecification- Ref_MVO	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"ProductSpecificationChar- acteristicValueUse"	Yes

Table 4.522: Fields of ProductSpecificationCharacteristicValueUse\_MVO.

## 4.523 ProductSpecificationRef

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
version	string	N/A	No
targetProductSchema	TargetProductSchema	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"ProductSpecificationRef"	Yes

Table 4.523: Fields of ProductSpecificationRef.



## 4.524 ProductSpecificationRef\_FVO

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
version	string	N/A	No
targetProductSchema	TargetProductSchema_FVO	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"ProductSpecificationRef"	Yes

Table 4.524: Fields of ProductSpecificationRef\_FVO.

## 4.525 ProductSpecificationRef\_MVO

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
version	string	N/A	No
targetProductSchema	TargetProductSchema_MVO	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"ProductSpecificationRef"	Yes

Table 4.525: Fields of ProductSpecificationRef\_MVO.

## 4.526 ProductSpecificationRelationship

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
characteristic	array	CharacteristicSpecification	No
validFor	TimePeriod	N/A	No
relationshipType	string	N/A	No
version	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"ProductSpecificationRelationship"	Yes

Table 4.526: Fields of ProductSpecificationRelationship.

## 4.527 ProductSpecificationRelationship\_FVO

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
characteristic	array	CharacteristicSpecification_FVO	No
validFor	TimePeriod	N/A	No
relationshipType	string	N/A	Yes
version	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"ProductSpecificationRelationship"	Yes

Table 4.527: Fields of ProductSpecificationRelationship\_FVO.

## 4.528 ProductSpecificationRelationship\_MVO

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
characteristic	array	CharacteristicSpecification_MVO	No
validFor	TimePeriod	N/A	No
relationshipType	string	N/A	Yes
version	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"ProductSpecificationRelationship"	Yes

Table 4.528: Fields of ProductSpecificationRelationship\_MVO.

## 4.529 ProductSpecification\_FVO

Field	Type	Format	Required
id	string	N/A	No
name	string	N/A	Yes
description	string	N/A	No
brand	string	N/A	No
isBundle	boolean	N/A	No
productNumber	string	N/A	No
category	array	CategoryRef_FVO	No
validFor	TimePeriod	N/A	No
version	string	N/A	No
relatedParty	array	RelatedPartyRefOrPartyRoleRef_FVO	No
productSpecCharacteristic	array	CharacteristicSpecification_FVO	No
serviceSpecification	array	ServiceSpecificationRef_FVO	No
bundledProductSpecification	array	BundledProductSpecification_FVO	No
productSpecificationRelationship	array	ProductSpecificationRelationship_FVO	No
resourceSpecification	array	ResourceSpecificationRef_FVO	No
attachment	array	AttachmentOrDocumentRef	No
policy	array	PolicyRef_FVO	No
targetProductSchema	TargetProductSchema_FVO	N/A	No
intentSpecification	IntentSpecificationRef_FVO	N/A	No
lastUpdate	string	date-time	No
lifecycleStatus	string	N/A	Yes
externalIdentifier	array	ExternalIdentifier_FVO	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"ProductSpecification"	Yes

Table 4.529: Fields of ProductSpecification\_FVO.

## 4.530 ProductSpecification\_MVO

Field	Type	Format	Required
name	string	N/A	No
description	string	N/A	No
brand	string	N/A	No
isBundle	boolean	N/A	No
productNumber	string	N/A	No
category	array	CategoryRef_MVO	No
validFor	TimePeriod	N/A	No
version	string	N/A	No
relatedParty	array	RelatedPartyRefOrPartyRoleRef_MVO	No
productSpecCharacteristic	array	CharacteristicSpecification_MVO	No
serviceSpecification	array	ServiceSpecification-Ref_MVO	No
bundledProductSpecification	array	BundledProductSpecification_MVO	No
productSpecificationRelationship	array	ProductSpecificationRelationship_MVO	No
resourceSpecification	array	ResourceSpecification-Ref_MVO	No
attachment	array	AttachmentOrDocumentRef	No
policy	array	PolicyRef_MVO	No
targetProductSchema	TargetProductSchema_MVO	N/A	No
intentSpecification	IntentSpecificationRef_MVO	N/A	No
lifecycleStatus	string	N/A	No
externalIdentifier	array	ExternalIdentifier_MVO	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"ProductSpecification"	Yes

Table 4.530: Fields of ProductSpecification\_MVO.

## 4.531 ProductStatusType

Possible values for the status of the product

Field	Type	Format	Required
ProductStatusType	string	oneOf[created, pendingActive, cancelled, active, pendingTerminate, terminated, suspended, aborted ]	No

Table 4.531: Fields of ProductStatusType.



## 4.532 ProductStock

ProductStock is a base class for defining a product (or configured product with values characteristic) stock level.

Field	Type	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
description	string	N/A	No
creationDate	string	date-time	No
lastInventoryDate	string	date-time	No
lastUpdate	string	date-time	No
replenishmentDate	string	date-time	No
stockLevelCategory	string	N/A	No
channel	array	ChannelRef	No
marketSegment	array	MarketSegmentRef	No
maxStockLevel	Quantity	N/A	No
minStockLevel	Quantity	N/A	No
place	RelatedPlaceRefOrValue	N/A	No
productStockLevel	Quantity	N/A	No
productStockRelationship	array	ProductStockRelationship	No
productStockStatusType	ProductStockStatusType	N/A	No
productStockUsageType	ProductStockUsageType	N/A	No
relatedParty	array	RelatedParty	No
reorderQuantity	Quantity	N/A	No
resource	array	ResourceRef	No
stockLevelAlert	Quantity	N/A	No
stockedProduct	ProductRefOrValue	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.532: Fields of ProductStock.

## 4.533 ProductStockRef

ProductStockRef is a reference to a product stock

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No
@referredType	string	N/A	No

Table 4.533: Fields of ProductStockRef.

## 4.534 ProductStockRelationship

Linked product stock with a type relationship.

Field	Type	Format	Required
relationshipType	string	N/A	Yes
stockLevel	ProductStockRef	N/A	Yes
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.534: Fields of ProductStockRelationship.

## 4.535 ProductStockStatusType

Possible values for the status of the stock level

Field	Type	Format	Required
ProductStockStatusType	string	oneOf[reserved, available, unavailable, unknown]	No

Table 4.535: Fields of ProductStockStatusType.

## 4.536 ProductStockUsageType

Possible values for the usage of the stock level - This is illustrative

Field	Type	Format	Required
ProductStockUsageType	string	oneOf[inTransit, onDisplay, damaged, returned, replenishmentInProgress, inShop]	No

Table 4.536: Fields of ProductStockUsageType.

## 4.537 ProductTerm

Field	Type	Format	Required
name	string	N/A	No
description	string	N/A	No
duration	Duration	N/A	No
validFor	TimePeriod	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"ProductTerm"	Yes

Table 4.537: Fields of ProductTerm.

## 4.538 ProductTerm\_FVO

Field	Type	Format	Required
name	string	N/A	No
description	string	N/A	No
duration	Duration	N/A	No
validFor	TimePeriod	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"ProductTerm"	Yes

Table 4.538: Fields of ProductTerm\_FVO.

## 4.539 ProductTerm\_MVO

Field	Type	Format	Required
name	string	N/A	No
description	string	N/A	No
duration	Duration	N/A	No
validFor	TimePeriod	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"ProductTerm"	Yes

Table 4.539: Fields of ProductTerm\_MVO.



## 4.540 Product\_FVO

Field	Type	Format	Required
id	string	N/A	No
name	string	N/A	No
description	string	N/A	No
agreementItem	array	AgreementItemRef_FVO	No
billingAccount	BillingAccountRef_FVO	N/A	No
isBundle	boolean	N/A	No
isCustomerVisible	boolean	N/A	No
orderDate	string	date-time	No
productCharacteristic	array	Characteristic_FVO	No
productOffering	ProductOfferingRef_FVO	N/A	No
productOrderItem	array	RelatedOrderItem_FVO	No
product	array	ProductRefOrValue_FVO	No
productPrice	array	ProductPrice_FVO	No
productRelationship	array	ProductRelationship_FVO	No
productSerialNumber	string	N/A	No
productSpecification	ProductSpecification-Ref_FVO	N/A	No
productTerm	array	ProductTerm_FVO	No
realizingResource	array	ResourceRef_FVO	No
realizingService	array	ServiceRef_FVO	No
relatedParty	array	RelatedPartyOrParty-Role_FVO	No
place	array	RelatedPlaceRefOr-Value_FVO	No
startDate	string	date-time	No
status	ProductStatusType	N/A	No
terminationDate	string	date-time	No
intent	IntentRefOrValue_FVO	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"Product"	Yes

Table 4.540: Fields of Product\_FVO.

## 4.541 Product\_MVO

Field	Type	Format	Required
name	string	N/A	No
description	string	N/A	No
agreementItem	array	AgreementItemRef_MVO	No
billingAccount	BillingAccountRef_MVO	N/A	No
isBundle	boolean	N/A	No
isCustomerVisible	boolean	N/A	No
orderDate	string	date-time	No
productCharacteristic	array	Characteristic_MVO	No
productOffering	ProductOfferingRef_MVO	N/A	No
productOrderItem	array	RelatedOrderItem_MVO	No
product	array	ProductRefOrValue_MVO	No
productPrice	array	ProductPrice_MVO	No
productRelationship	array	ProductRelationship_MVO	No
productSerialNumber	string	N/A	No
productSpecification	ProductSpecification-Ref_MVO	N/A	No
productTerm	array	ProductTerm_MVO	No
realizingResource	array	ResourceRef_MVO	No
realizingService	array	ServiceRef_MVO	No
relatedParty	array	RelatedPartyOrParty-Role_MVO	No
place	array	RelatedPlaceRefOr-Value_MVO	No
startDate	string	date-time	No
status	ProductStatusType	N/A	No
terminationDate	string	date-time	No
intent	IntentRefOrValue_MVO	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"Product"	Yes

Table 4.541: Fields of Product\_MVO.

## 4.542 Quantity

An amount in a given unit

Field	Type	Format	Required
amount	number	float	No
units	string	N/A	No

Table 4.542: Fields of Quantity.

## 4.543 QuotelItemRef

Field	Type	Format	Required
quoteHref	string	N/A	No
quoteId	string	N/A	No
quoteItemId	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"QuotelItemRef"	Yes

Table 4.543: Fields of QuotelItemRef.

## 4.544 QuotelItemRef\_FVO

Field	Type	Format	Required
quoteHref	string	N/A	No
quoteId	string	N/A	Yes
quoteItemId	string	N/A	Yes
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"QuotelItemRef"	Yes

Table 4.544: Fields of QuotelItemRef\_FVO.

## 4.545 QuotelItemRef\_MVO

Field	Type	Format	Required
quoteHref	string	N/A	No
quoteId	string	N/A	No
quoteItemId	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"QuotelItemRef"	Yes

Table 4.545: Fields of QuotelItemRef\_MVO.

## 4.546 QuoteRef

Quote reference. It's a Quote that has been executed previously.

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"QuoteRef"	Yes

Table 4.546: Fields of QuoteRef.

## 4.547 QuoteRef\_FVO

Quote reference. It's a Quote that has been executed previously.

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"QuoteRef"	Yes

Table 4.547: Fields of QuoteRef\_FVO.



## 4.548 QuoteRef\_MVO

Quote reference. It's a Quote that has been executed previously.

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"QuoteRef"	Yes

Table 4.548: Fields of QuoteRef\_MVO.

## 4.549 RecurringFrequency

A recurring frequency to run a job within a timeframe defined by schedule definition, for example, every 5 minutes, 15 minutes, 1 hour, 1 day

Field	Type	Format	Required
recurringFrequencyValue	integer	N/A	Yes
recurringFrequencyUnits	string	oneOf[MINUTES, HOURS, DAYS, WEEKS, MONTHS]	Yes

Table 4.549: Fields of RecurringFrequency.

## 4.550 RelatedChannel

Field	Type	Format	Required
role	string	N/A	No
channel	ChannelRef	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"RelatedChannel"	Yes

Table 4.550: Fields of RelatedChannel.

## 4.551 RelatedChannel\_FVO

Field	Type	Format	Required
role	string	N/A	Yes
channel	ChannelRef_FVO	N/A	Yes
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"RelatedChannel"	Yes

Table 4.551: Fields of RelatedChannel\_FVO.

## 4.552 RelatedChannel\_MVO

Field	Type	Format	Required
role	string	N/A	No
channel	ChannelRef_MVO	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"RelatedChannel"	Yes

Table 4.552: Fields of RelatedChannel\_MVO.

## 4.553 RelatedEntity

Field	Type	Format	Required
role	string	N/A	No
entity	EntityRef	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"RelatedEntity"	Yes

Table 4.553: Fields of RelatedEntity.

## 4.554 RelatedEntity\_FVO

Field	Type	Format	Required
role	string	N/A	Yes
entity	EntityRef_FVO	N/A	Yes
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"RelatedEntity"	Yes

Table 4.554: Fields of RelatedEntity\_FVO.

## 4.555 RelatedEntity\_MVO

Field	Type	Format	Required
role	string	N/A	No
entity	EntityRef	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"RelatedEntity"	Yes

Table 4.555: Fields of RelatedEntity\_MVO.



## 4.556 RelatedOrderItem

Field	Type	Format	Required
orderItemAction	ItemActionType	N/A	No
orderHref	string	N/A	No
role	string	N/A	No
orderId	string	N/A	No
orderItemId	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"RelatedOrderItem"	Yes

Table 4.556: Fields of RelatedOrderItem.

## 4.557 RelatedOrderItem\_FVO

Field	Type	Format	Required
orderItemAction	ItemActionType	N/A	No
orderHref	string	N/A	No
role	string	N/A	Yes
orderId	string	N/A	Yes
orderItemId	string	N/A	Yes
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"RelatedOrderItem"	Yes

Table 4.557: Fields of RelatedOrderItem\_FVO.

## 4.558 RelatedOrderItem\_MVO

Field	Type	Format	Required
orderItemAction	ItemActionType	N/A	No
orderHref	string	N/A	No
role	string	N/A	No
orderId	string	N/A	No
orderItemId	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"RelatedOrderItem"	Yes

Table 4.558: Fields of RelatedOrderItem\_MVO.

## 4.559 RelatedParty

Related Party reference. A related party defines party or party role linked to a specific entity.

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
role	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No
@referredType	string	N/A	Yes

Table 4.559: Fields of RelatedParty.

## 4.560 RelatedPartyOrPartyRole

Field	Type	Format	Required
role	string	N/A	No
partyOrPartyRole	PartyOrPartyRole	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"RelatedPartyOrPartyRole"	Yes

Table 4.560: Fields of RelatedPartyOrPartyRole.

## 4.561 RelatedPartyOrPartyRole\_FVO

Field	Type	Format	Required
role	string	N/A	Yes
partyOrPartyRole	PartyOrPartyRole_FVO	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"RelatedPartyOrPartyRole"	Yes

Table 4.561: Fields of RelatedPartyOrPartyRole\_FVO.

## 4.562 RelatedPartyOrPartyRole\_MVO

Field	Type	Format	Required
role	string	N/A	Yes
partyOrPartyRole	PartyOrPartyRole_MVO	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"RelatedPartyOrPartyRole"	Yes

Table 4.562: Fields of RelatedPartyOrPartyRole\_MVO.

## 4.563 RelatedPartyRefOrPartyRoleRef

Field	Type	Format	Required
role	string	N/A	No
partyOrPartyRole	PartyRefOrPartyRoleRef	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"RelatedPartyRefOrParty-RoleRef"	Yes

Table 4.563: Fields of RelatedPartyRefOrPartyRoleRef.



## 4.564 RelatedPartyRefOrPartyRoleRef\_FVO

Field	Type	Format	Required
role	string	N/A	Yes
partyOrPartyRole	PartyRefOrPartyRoleRef_FVO	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"RelatedPartyRefOrPartyRoleRef"	Yes

Table 4.564: Fields of RelatedPartyRefOrPartyRoleRef\_FVO.

## 4.565 RelatedPartyRefOrPartyRoleRef\_MVO

Field	Type	Format	Required
role	string	N/A	No
partyOrPartyRole	PartyRefOrPartyRoleRef_MVO	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"RelatedPartyRefOrPartyRoleRef"	Yes

Table 4.565: Fields of RelatedPartyRefOrPartyRoleRef\_MVO.

## 4.566 RelatedPlaceRef

Field	Type	Format	Required
role	string	N/A	No
place	PlaceRef	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"RelatedPlaceRef"	Yes

Table 4.566: Fields of RelatedPlaceRef.

## 4.567 RelatedPlaceRefOrValue

Field	Type	Format	Required
role	string	N/A	No
place	PlaceRefOrValue	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"RelatedPlaceRefOrValue"	Yes

Table 4.567: Fields of RelatedPlaceRefOrValue.

## 4.568 RelatedPlaceRefOrValue\_FVO

Field	Type	Format	Required
role	string	N/A	Yes
place	PlaceRefOrValue_FVO	N/A	Yes
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"RelatedPlaceRefOrValue"	Yes

Table 4.568: Fields of RelatedPlaceRefOrValue\_FVO.

## 4.569 RelatedPlaceRefOrValue\_MVO

Field	Type	Format	Required
role	string	N/A	No
place	PlaceRefOrValue_MVO	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"RelatedPlaceRefOrValue"	Yes

Table 4.569: Fields of RelatedPlaceRefOrValue\_MVO.

## 4.570 RelatedPlaceRef\_FVO

Field	Type	Format	Required
role	string	N/A	Yes
place	PlaceRef_FVO	N/A	Yes
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"RelatedPlaceRef"	Yes

Table 4.570: Fields of RelatedPlaceRef\_FVO.

## 4.571 RelatedPlaceRef\_MVO

Field	Type	Format	Required
role	string	N/A	No
place	PlaceRef_MVO	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"RelatedPlaceRef"	Yes

Table 4.571: Fields of RelatedPlaceRef\_MVO.



## 4.572 RelatedResourceOrderItem

Field	Type	Format	Required
resourceOrderHref	string	N/A	No
resourceOrderId	string	N/A	No
itemAction	OrderItemActionType	N/A	No
itemId	string	N/A	No
role	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"RelatedResource-OrderItem"	Yes

Table 4.572: Fields of RelatedResourceOrderItem.

## 4.573 RelatedResourceOrderItem\_FVO

Field	Type	Format	Required
resourceOrderHref	string	N/A	No
resourceOrderId	string	N/A	No
itemAction	OrderItemActionType	N/A	No
itemId	string	N/A	No
role	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"RelatedResource-OrderItem"	Yes

Table 4.573: Fields of RelatedResourceOrderItem\_FVO.

## 4.574 RelatedResourceOrderItem\_MVO

Field	Type	Format	Required
resourceOrderHref	string	N/A	No
resourceOrderId	string	N/A	No
itemAction	OrderItemActionType	N/A	No
itemId	string	N/A	No
role	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"RelatedResource-OrderItem"	Yes

Table 4.574: Fields of RelatedResourceOrderItem\_MVO.

## 4.575 RelatedServiceOrderItem

Field	Type	Format	Required
serviceOrderHref	string	N/A	No
serviceOrderId	string	N/A	No
itemAction	OrderItemActionType	N/A	No
itemId	string	N/A	No
role	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"RelatedServiceOrderItem"	Yes

Table 4.575: Fields of RelatedServiceOrderItem.

## 4.576 RelatedServiceOrderItem\_FVO

Field	Type	Format	Required
serviceOrderHref	string	N/A	No
serviceOrderId	string	N/A	No
itemAction	OrderItemActionType	N/A	No
itemId	string	N/A	No
role	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"RelatedServiceOrderItem"	Yes

Table 4.576: Fields of RelatedServiceOrderItem\_FVO.

## 4.577 RelatedServiceOrderItem\_MVO

Field	Type	Format	Required
serviceOrderHref	string	N/A	No
serviceOrderId	string	N/A	No
itemAction	OrderItemActionType	N/A	No
itemId	string	N/A	No
role	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"RelatedServiceOrderItem"	Yes

Table 4.577: Fields of RelatedServiceOrderItem\_MVO.

## 4.578 RelationshipCharacteristic

A characteristic property or distinguishing feature of this relationship.

Field	Type	Format	Required
id	string	N/A	No
name	string	N/A	No
deviation	string	N/A	No
valueType	string	N/A	No
relationshipCharacteristic-Value	array	CharacteristicValueSpecification	No

Table 4.578: Fields of RelationshipCharacteristic.

## 4.579 RelativeTimePeriod

A period of time relative to another.

Field	Type	Format	Required
endDateTime	string	date-time	No
startDateTime	string	date-time	No
startOffset	string	duration	No
startAnchor	string	N/A	No
endOffset	string	duration	No
endAnchor	string	N/A	No

Table 4.579: Fields of RelativeTimePeriod.



## 4.580 ReportContentItem

Single item of the performance monitoring results in case result format was set to payload. Each item contains the timeframe of the collected data and a list of values measured in that timeframe.

Field	Type	Format	Required
measurementTime	MeasurementTime	N/A	Yes
measurementDataPoints	array	ResultPayload	No

Table 4.580: Fields of ReportContentItem.

## 4.581 ReportingTimeframe

Specifies the date range between which data points will be included in the report.

Field	Type	Format	Required
reportingStartDate	string	date-time	No
reportingEndDate	string	date-time	No

Table 4.581: Fields of ReportingTimeframe.

## 4.582 Resource

Field	Type	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
description	string	N/A	No
category	string	N/A	No
endOperatingDate	string	date-time	No
administrativeState	ResourceAdministrativeStateType	N/A	No
operationalState	ResourceOperationalStateType	N/A	No
resourceStatus	ResourceStatusType	N/A	No
usageState	ResourceUsageStateType	N/A	No
validFor	TimePeriod	N/A	No
note	array	Note	No
resourceOrderItem	array	RelatedResourceOrderItem	No
place	array	RelatedPlaceRef	No
relatedParty	array	RelatedPartyRefOrPartyRoleRef	No
supportingResource	array	ResourceRefOrValue	No
resourceRelationship	array	ResourceRelationship	No
resourceCharacteristic	array	Characteristic	No
attachment	array	AttachmentOrDocumentRef	No
resourceSpecification	ResourceSpecificationRef	N/A	No
startOperatingDate	string	date-time	No
resourceVersion	string	N/A	No
activationFeature	array	Feature	No
intent	IntentRef	N/A	No
externalIdentifier	array	ExternalIdentifier	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No



Field	Type	Format	Required
@type	string	oneOf["LogicalResource", "PhysicalResource", "Resource", "ResourceCollection"]	Yes

Table 4.582: Fields of Resource.

## 4.583 ResourceAdministrativeStateType

ResourceAdministrativeStateType enumerations; values defined by ITU X.731: 'locked': The resource is administratively prohibited from performing services for its users; 'shutdown': Use of the resource is administratively permitted to existing instances of use only. While the system remains in the shutting down state the manager may at any time cause the managed object to revert to the unlocked state; 'unlocked': The resource is administratively permitted to perform services for its users. This is independent of its inherent operability.

Field	Type	Format	Required
ResourceAdministrativeStateType	string	oneOf[locked, unlocked, shutdown]	No

Table 4.583: Fields of ResourceAdministrativeStateType.

## 4.584 ResourceCandidateRef

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
version	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"ResourceCandidateRef"	Yes

Table 4.584: Fields of ResourceCandidateRef.

## 4.585 ResourceCandidateRef\_FVO

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
version	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"ResourceCandidateRef"	Yes

Table 4.585: Fields of ResourceCandidateRef\_FVO.

## 4.586 ResourceCandidateRef\_MVO

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
version	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"ResourceCandidateRef"	Yes

Table 4.586: Fields of ResourceCandidateRef\_MVO.



## 4.587 ResourceCollection

Field	Type	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
description	string	N/A	No
category	string	N/A	No
endOperatingDate	string	date-time	No
administrativeState	ResourceAdministrativeStateType	N/A	No
operationalState	ResourceOperationalStateType	N/A	No
resourceStatus	ResourceStatusType	N/A	No
usageState	ResourceUsageStateType	N/A	No
validFor	TimePeriod	N/A	No
note	array	Note	No
resourceOrderItem	array	RelatedResourceOrderItem	No
place	array	RelatedPlaceRef	No
relatedParty	array	RelatedPartyRefOrPartyRoleRef	No
supportingResource	array	ResourceRefOrValue	No
resourceRelationship	array	ResourceRelationship	No
resourceCharacteristic	array	Characteristic	No
attachment	array	AttachmentOrDocumentRef	No
resourceSpecification	ResourceSpecificationRef	N/A	No
startOperatingDate	string	date-time	No
resourceVersion	string	N/A	No
activationFeature	array	Feature	No
intent	IntentRef	N/A	No
externalIdentifier	array	ExternalIdentifier	No
containedResource	array	ResourceRefOrValue	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"ResourceCollection"	Yes



Field	Type	Format	Required
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Table 4.587: Fields of ResourceCollection.

## 4.588 ResourceCollection\_FVO

Field	Type	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
description	string	N/A	No
category	string	N/A	No
endOperatingDate	string	date-time	No
administrativeState	ResourceAdministrativeStateType	N/A	No
operationalState	ResourceOperationalStateType	N/A	No
resourceStatus	ResourceStatusType	N/A	No
usageState	ResourceUsageStateType	N/A	No
validFor	TimePeriod	N/A	No
note	array	Note_FVO	No
resourceOrderItem	array	RelatedResourceOrderItem_FVO	No
place	array	RelatedPlaceRef_FVO	No
relatedParty	array	RelatedPartyRefOrPartyRoleRef_FVO	No
supportingResource	array	ResourceRefOrValue_FVO	No
resourceRelationship	array	ResourceRelationship_FVO	No
resourceCharacteristic	array	Characteristic_FVO	No
attachment	array	AttachmentOrDocumentRef	No
resourceSpecification	ResourceSpecificationRef_FVO	N/A	No
startOperatingDate	string	date-time	No
resourceVersion	string	N/A	No
activationFeature	array	Feature_FVO	No
intent	IntentRef_FVO	N/A	No
externalIdentifier	array	ExternalIdentifier_FVO	No
containedResource	array	ResourceRefOrValue_FVO	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No



Field	Type	Format	Required
@type	string	"ResourceCollection"	Yes

Table 4.588: Fields of ResourceCollection\_FVO.

## 4.589 ResourceCollection\_MVO

Field	Type	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
description	string	N/A	No
category	string	N/A	No
endOperatingDate	string	date-time	No
administrativeState	ResourceAdministrativeStateType	N/A	No
operationalState	ResourceOperationalStateType	N/A	No
resourceStatus	ResourceStatusType	N/A	No
usageState	ResourceUsageStateType	N/A	No
validFor	TimePeriod	N/A	No
note	array	Note_MVO	No
resourceOrderItem	array	RelatedResourceOrderItem_MVO	No
place	array	RelatedPlaceRef_MVO	No
relatedParty	array	RelatedPartyRefOrPartyRoleRef_MVO	No
supportingResource	array	ResourceRefOrValue_MVO	No
resourceRelationship	array	ResourceRelationship_MVO	No
resourceCharacteristic	array	Characteristic_MVO	No
attachment	array	AttachmentOrDocumentRef	No
resourceSpecification	ResourceSpecificationRef_MVO	N/A	No
startOperatingDate	string	date-time	No
resourceVersion	string	N/A	No
activationFeature	array	Feature_MVO	No
intent	IntentRef_MVO	N/A	No
externalIdentifier	array	ExternalIdentifier_MVO	No
containedResource	array	ResourceRefOrValue_MVO	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No

Field	Type	Format	Required
@type	string	"ResourceCollection"	Yes

Table 4.589: Fields of ResourceCollection\_MVO.

## 4.590 ResourceFunctionSpecification

Field	Type	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
description	string	N/A	No
version	string	N/A	No
validFor	TimePeriod	N/A	No
isBundle	boolean	N/A	No
lastUpdate	string	date-time	No
lifecycleStatus	string	N/A	No
category	string	N/A	No
targetResourceSchema	TargetResourceSchema	N/A	No
featureSpecification	array	FeatureSpecification	No
attachment	array	AttachmentOrDocumentRef	No
relatedParty	array	RelatedPartyRefOrPartyRoleRef	No
resourceSpecCharacteristic	array	CharacteristicSpecification	No
resourceSpecRelationship	array	ResourceSpecificationRelationship	No
intentSpecification	IntentSpecificationRef	N/A	No
externalIdentifier	array	ExternalIdentifier	No
connectionPointSpecification	array	ConnectionPointSpecificationRef	No
connectivitySpecification	array	ResourceGraphSpecification	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"ResourceFunctionSpecification"	Yes

Table 4.590: Fields of ResourceFunctionSpecification.

## 4.591 ResourceGraphSpecification

Field	Type	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
description	string	N/A	No
graphSpecificationRelationship	array	ResourceGraphSpecificationRelationship	No
connectionSpecification	array	ConnectionSpecification	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"ResourceGraphSpecification"	Yes

Table 4.591: Fields of ResourceGraphSpecification.



## 4.592 ResourceGraphSpecificationRef

Resource graph specification reference.

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"ResourceGraphSpecifica- tionRef"	Yes

Table 4.592: Fields of ResourceGraphSpecificationRef.

## 4.593 ResourceGraphSpecificationRelationship

Describes link between resource graph specifications.

Field	Type	Format	Required
relationshipType	string	oneOf[adjacency, connectivity]	No
resourceGraph	ResourceGraphSpecificationRef	N/A	No

Table 4.593: Fields of ResourceGraphSpecificationRelationship.

## 4.594 ResourceOperationalStateType

ResourceOperationalStateType enumerations; values defined by ITU X.731: 'disable': The resource is totally inoperable and unable to provide service to the user(s); 'enable': The resource is partially or fully operable and available for use.

Field	Type	Format	Required
ResourceOperationalState-Type	string	oneOf[enable, disable]	No

Table 4.594: Fields of ResourceOperationalStateType.

## 4.595 ResourceRef

Resource reference, for when Resource is used by other entities.

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"ResourceRef"	Yes

Table 4.595: Fields of ResourceRef.

## 4.596 ResourceRefOrValue

The polymorphic attributes @type, @schemaLocation & @referredType are related to the Resource entity and not the ResourceRefOrValue class itself

Field	Type	Format	Required
@type	string	oneOf["Resource", "ResourceRef", "ResourceCollection", "PhysicalResource", "LogicalResource"]	Yes

Table 4.596: Fields of ResourceRefOrValue.

## 4.597 ResourceRefOrValue\_FVO

The polymorphic attributes @type, @schemaLocation & @referredType are related to the Resource entity and not the ResourceRefOrValue class itself

Field	Type	Format	Required
@type	string	oneOf["Resource", "ResourceRef", "ResourceCollection", "PhysicalResource", "LogicalResource"]	Yes

Table 4.597: Fields of ResourceRefOrValue\_FVO.

## 4.598 ResourceRefOrValue\_MVO

The polymorphic attributes @type, @schemaLocation & @referredType are related to the Resource entity and not the ResourceRefOrValue class itself

Field	Type	Format	Required
@type	string	oneOf["Resource", "ResourceRef", "ResourceCollection", "PhysicalResource", "LogicalResource"]	Yes

Table 4.598: Fields of ResourceRefOrValue\_MVO.

## 4.599 ResourceRef\_FVO

Resource reference, for when Resource is used by other entities.

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"ResourceRef"	Yes

Table 4.599: Fields of ResourceRef\_FVO.



## 4.600 ResourceRef\_MVO

Resource reference, for when Resource is used by other entities.

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"ResourceRef"	Yes

Table 4.600: Fields of ResourceRef\_MVO.

## 4.601 ResourceRelationship

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
resourceRelationshipCharacteristic	array	Characteristic	No
resource	ResourceRefOrValue	N/A	No
relationshipType	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"ResourceRelationship"	Yes

Table 4.601: Fields of ResourceRelationship.

## 4.602 ResourceRelationship\_FVO

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
resourceRelationshipCharacteristic	array	Characteristic_FVO	No
resource	ResourceRefOrValue_FVO	N/A	Yes
relationshipType	string	N/A	Yes
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"ResourceRelationship"	Yes

Table 4.602: Fields of ResourceRelationship\_FVO.

## 4.603 ResourceRelationship\_MVO

Field	Type	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
resourceRelationshipCharacteristic	array	Characteristic_MVO	No
resource	ResourceRefOrValue_MVO	N/A	No
relationshipType	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"ResourceRelationship"	Yes

Table 4.603: Fields of ResourceRelationship\_MVO.

## 4.604 ResourceSpecification

Field	Type	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
description	string	N/A	No
version	string	N/A	No
validFor	TimePeriod	N/A	No
isBundle	boolean	N/A	No
lastUpdate	string	date-time	No
lifecycleStatus	string	N/A	No
category	string	N/A	No
targetResourceSchema	TargetResourceSchema	N/A	No
featureSpecification	array	FeatureSpecification	No
attachment	array	AttachmentOrDocumentRef	No
relatedParty	array	RelatedPartyRefOrPartyRoleRef	No
resourceSpecCharacteristic	array	CharacteristicSpecification	No
resourceSpecRelationship	array	ResourceSpecificationRelationship	No
intentSpecification	IntentSpecificationRef	N/A	No
externalIdentifier	array	ExternalIdentifier	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	oneOf["ResourceSpecification", "PhysicalResourceSpecification", "LogicalResourceSpecification", "ResourceFunctionSpecification"]	Yes

Table 4.604: Fields of ResourceSpecification.

## 4.605 ResourceSpecificationRef

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
version	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"ResourceSpecificationRef"	Yes

Table 4.605: Fields of ResourceSpecificationRef.

## 4.606 ResourceSpecificationRef\_FVO

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
version	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"ResourceSpecificationRef"	Yes

Table 4.606: Fields of ResourceSpecificationRef\_FVO.

## 4.607 ResourceSpecificationRef\_MVO

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
version	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"ResourceSpecificationRef"	Yes

Table 4.607: Fields of ResourceSpecificationRef\_MVO.



## 4.608 ResourceSpecificationRelationship

Field	Type	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
relationshipType	string	N/A	No
role	string	N/A	No
defaultQuantity	integer	N/A	No
maximumQuantity	integer	N/A	No
minimumQuantity	integer	N/A	No
characteristic	array	CharacteristicSpecification	No
validFor	TimePeriod	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"ResourceSpecificationRelationship"	Yes

Table 4.608: Fields of ResourceSpecificationRelationship.

## 4.609 ResourceSpecificationRelationship\_FVO

Field	Type	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
relationshipType	string	N/A	No
role	string	N/A	No
defaultQuantity	integer	N/A	No
maximumQuantity	integer	N/A	No
minimumQuantity	integer	N/A	No
characteristic	array	CharacteristicSpecification_FVO	No
validFor	TimePeriod	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"ResourceSpecificationRelationship"	Yes

Table 4.609: Fields of ResourceSpecificationRelationship\_FVO.

## 4.610 ResourceSpecificationRelationship\_MVO

Field	Type	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
relationshipType	string	N/A	No
role	string	N/A	No
defaultQuantity	integer	N/A	No
maximumQuantity	integer	N/A	No
minimumQuantity	integer	N/A	No
characteristic	array	CharacteristicSpecification_MVO	No
validFor	TimePeriod	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"ResourceSpecificationRelationship"	Yes

Table 4.610: Fields of ResourceSpecificationRelationship\_MVO.

## 4.611 ResourceSpecification\_FVO

Field	Type	Format	Required
id	string	N/A	No
name	string	N/A	Yes
description	string	N/A	No
version	string	N/A	No
validFor	TimePeriod	N/A	No
isBundle	boolean	N/A	No
lastUpdate	string	date-time	No
lifecycleStatus	string	N/A	No
category	string	N/A	No
targetResourceSchema	TargetResourceSchema_FVO	N/A	No
featureSpecification	array	FeatureSpecification_FVO	No
attachment	array	AttachmentOrDocumentRef	No
relatedParty	array	RelatedPartyRefOrPartyRoleRef_FVO	No
resourceSpecCharacteristic	array	CharacteristicSpecification_FVO	No
resourceSpecRelationship	array	ResourceSpecificationRelationship_FVO	No
intentSpecification	IntentSpecificationRef_FVO	N/A	No
externalIdentifier	array	ExternalIdentifier_FVO	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"ResourceSpecification"	Yes

Table 4.611: Fields of ResourceSpecification\_FVO.

## 4.612 ResourceSpecification\_MVO

Field	Type	Format	Required
name	string	N/A	No
description	string	N/A	No
version	string	N/A	No
validFor	TimePeriod	N/A	No
isBundle	boolean	N/A	No
lastUpdate	string	date-time	No
lifecycleStatus	string	N/A	No
category	string	N/A	No
targetResourceSchema	TargetResourceSchema_MVO	N/A	No
featureSpecification	array	FeatureSpecification_MVO	No
attachment	array	AttachmentOrDocumentRef	No
relatedParty	array	RelatedPartyRefOrPartyRoleRef_MVO	No
resourceSpecCharacteristic	array	CharacteristicSpecification_MVO	No
resourceSpecRelationship	array	ResourceSpecificationRelationship_MVO	No
intentSpecification	IntentSpecificationRef_MVO	N/A	No
externalIdentifier	array	ExternalIdentifier_MVO	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"ResourceSpecification"	Yes

Table 4.612: Fields of ResourceSpecification\_MVO.

## 4.613 ResourceStatusType

ResourceStatusType enumerations

Field	Type	Format	Required
ResourceStatusType	string	oneOf[alarm, available, installed, not exists, pendingRemoval, planned, reserved, standby, suspended, unknown]	No

Table 4.613: Fields of ResourceStatusType.

## 4.614 ResourceUsageStateType

ResourceUsageStateType enumerations; values defined by ITU X.731: 'idle': The resource is not currently in use; 'active': The resource is in use, and has sufficient spare operating capacity to provide for additional users simultaneously; 'busy': The resource is in use, but it has no spare operating capacity to provide for additional users at this instant.

Field	Type	Format	Required
ResourceUsageStateType	string	oneOf[idle, active, busy]	No

Table 4.614: Fields of ResourceUsageStateType.

## 4.615 Resource\_FVO

Field	Type	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
description	string	N/A	No
category	string	N/A	No
endOperatingDate	string	date-time	No
administrativeState	ResourceAdministrativeStateType	N/A	No
operationalState	ResourceOperationalStateType	N/A	No
resourceStatus	ResourceStatusType	N/A	No
usageState	ResourceUsageStateType	N/A	No
validFor	TimePeriod	N/A	No
note	array	Note_FVO	No
resourceOrderItem	array	RelatedResourceOrderItem_FVO	No
place	array	RelatedPlaceRef_FVO	No
relatedParty	array	RelatedPartyRefOrPartyRoleRef_FVO	No
supportingResource	array	ResourceRefOrValue_FVO	No
resourceRelationship	array	ResourceRelationship_FVO	No
resourceCharacteristic	array	Characteristic_FVO	No
attachment	array	AttachmentOrDocumentRef	No
resourceSpecification	ResourceSpecificationRef_FVO	N/A	No
startOperatingDate	string	date-time	No
resourceVersion	string	N/A	No
activationFeature	array	Feature_FVO	No
intent	IntentRef_FVO	N/A	No
externalIdentifier	array	ExternalIdentifier_FVO	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No





Field	Type	Format	Required
@type	string	oneOf["LogicalResource", "PhysicalResource", "Resource", "ResourceCollection"]	Yes

Table 4.615: Fields of Resource\_FVO.

## 4.616 Resource\_MVO

Field	Type	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
description	string	N/A	No
category	string	N/A	No
endOperatingDate	string	date-time	No
administrativeState	ResourceAdministrativeStateType	N/A	No
operationalState	ResourceOperationalStateType	N/A	No
resourceStatus	ResourceStatusType	N/A	No
usageState	ResourceUsageStateType	N/A	No
validFor	TimePeriod	N/A	No
note	array	Note_MVO	No
resourceOrderItem	array	RelatedResourceOrderItem_MVO	No
place	array	RelatedPlaceRef_MVO	No
relatedParty	array	RelatedPartyRefOrPartyRoleRef_MVO	No
supportingResource	array	ResourceRefOrValue_MVO	No
resourceRelationship	array	ResourceRelationship_MVO	No
resourceCharacteristic	array	Characteristic_MVO	No
attachment	array	AttachmentOrDocumentRef	No
resourceSpecification	ResourceSpecificationRef_MVO	N/A	No
startOperatingDate	string	date-time	No
resourceVersion	string	N/A	No
activationFeature	array	Feature_MVO	No
intent	IntentRef_MVO	N/A	No
externalIdentifier	array	ExternalIdentifier_MVO	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No

Field	Type	Format	Required
@type	string	oneOf["LogicalResource", "PhysicalResource", "Resource", "ResourceCollection"]	Yes

Table 4.616: Fields of Resource\_MVO.

## 4.617 ResponseTime

The response time for an inquiry. At least the maximum estimated time must be filled on creation, the actual value is filled on completion.

Field	Type	Format	Required
minimum	string	date-time	No
average	string	date-time	No
maximum	string	date-time	Yes
actual	string	date-time	No

Table 4.617: Fields of ResponseTime.

## 4.618 ResultFormat

List of possible result formats that define how Seller/Server will deliver Performance Report to the Buyer/Client.

Field	Type	Format	Required
ResultFormat	string	oneOf[payload, attachment]	No

Table 4.618: Fields of ResultFormat.

## 4.619 ResultPayload

ResultPayload is used as an extension point for MEF-specific service performance monitoring results. The @type attribute is used as a discriminator.

Field	Type	Format	Required
@type	string	N/A	Yes

Table 4.619: Fields of ResultPayload.

## 4.620 ResumePerformanceJob

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
performanceJob	PerformanceJobRef	N/A	Yes
resumptionReason	string	N/A	No
creationDate	string	date-time	Yes
resumptionDeniedReason	string	N/A	No
state	PerformanceJobPro- cessStateType	N/A	Yes

Table 4.620: Fields of ResumePerformanceJob.

## 4.621 ResumePerformanceJob\_Common

Request for resumption of an existing Performance Job

Field	Type	Format	Required
performanceJob	PerformanceJobRef	N/A	Yes
resumptionReason	string	N/A	No

Table 4.621: Fields of ResumePerformanceJob\_Common.



## 4.622 ResumePerformanceJob\_Create

Field	Type	Format	Required
performanceJob	PerformanceJobRef	N/A	Yes
resumptionReason	string	N/A	No

Table 4.622: Fields of ResumePerformanceJob\_Create.

## 4.623 ResumePerformanceJob\_Find

This class represents a single list item for the response of `listResumePerformanceJob`

Field	Type	Format	Required
id	string	N/A	Yes
creationDate	string	date-time	Yes
performanceJob	PerformanceJobRef	N/A	Yes
state	PerformanceJobPro- cessStateType	N/A	Yes

Table 4.623: Fields of ResumePerformanceJob\_Find.

## 4.624 ScheduleDefinition

The schedule definition for running jobs.

Field	Type	Format	Required
scheduleDefinitionStartTime	string	date-time	No
scheduleDefinitionEndTime	string	date-time	No
recurringFrequency	RecurringFrequency	N/A	No
scheduleDefinitionHour-Range	array	HourRange	No
monthlyScheduleDay-OfWeekDefinition	MonthlyScheduleDay-OfWeekDefinition	N/A	No
weeklyScheduledDefinition	array	DayOfWeek	No

Table 4.624: Fields of ScheduleDefinition.

## 4.625 Service

Field	Type	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
description	string	N/A	No
isEnabled	boolean	N/A	No
hasStarted	boolean	N/A	No
startMode	string	N/A	No
isStateful	boolean	N/A	No
startDate	string	date-time	No
endDate	string	date-time	No
serviceOrderItem	array	RelatedServiceOrderItem	No
note	array	Note	No
serviceType	string	N/A	No
isBundle	boolean	N/A	No
category	string	N/A	No
feature	array	Feature	No
relatedEntity	array	RelatedEntity	No
externalIdentifier	array	ExternalIdentifier	No
serviceCharacteristic	array	Characteristic	No
serviceRelationship	array	ServiceRelationship	No
supportingService	array	ServiceRefOrValue	No
supportingResource	array	ResourceRef	No
relatedParty	array	RelatedPartyRefOrPartyRoleRef	No
place	array	RelatedPlaceRefOrValue	No
state	ServiceStateType	N/A	No
operatingStatus	ServiceOperatingStatusType	N/A	No
serviceSpecification	ServiceSpecificationRef	N/A	No
serviceDate	string	N/A	No
intent	IntentRefOrValue	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No



Field	Type	Format	Required
@type	string	"Service"	Yes

Table 4.625: Fields of Service.

## 4.626 ServiceCandidateRef

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
version	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"ServiceCandidateRef"	Yes

Table 4.626: Fields of ServiceCandidateRef.

## 4.627 ServiceCandidateRef\_FVO

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
version	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"ServiceCandidateRef"	Yes

Table 4.627: Fields of ServiceCandidateRef\_FVO.

## 4.628 ServiceCandidateRef\_MVO

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
version	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"ServiceCandidateRef"	Yes

Table 4.628: Fields of ServiceCandidateRef\_MVO.



## 4.629 ServiceLevelObjective

Service level objectives are defined in terms of parameters and metrics, thresholds, and tolerances associated with the parameters.

Field	Type	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
conformancePeriod	TimePeriod	N/A	No
conformanceTarget	string	N/A	No
graceTimes	string	N/A	No
thresholdTarget	string	N/A	No
tolerancePeriod	TimeInterval	N/A	No
toleranceTarget	string	N/A	No
validFor	TimePeriod	N/A	No
keyIndicator	KeyIndicator	N/A	No
consequence	array	ServiceLevelSpecConsequence	No
threshold	array	ServiceLevelObjectiveThreshold	No
applicability	array	ApplicableTimePeriod	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	N/A	No

Table 4.629: Fields of ServiceLevelObjective.

## 4.630 ServiceLevelObjectiveRef

A set of Service Level Objectives that are contained in the Service Level Specification.

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No
@referredType	string	N/A	No

Table 4.630: Fields of ServiceLevelObjectiveRef.

## 4.631 ServiceLevelObjectiveThreshold

A threshold base entity containing threshold rules. This entity is mandatory.

Field	Type	Format	Required
id	string	N/A	No
name	string	N/A	No
description	string	N/A	No
thresholdType	string	oneOf[LogicDefinition, PreDefined]	No
consequence	array	ServiceLevelSpecConsequence	No
thresholdCondition	string	oneOf[Raise, Clear]	No
applicability	array	ApplicableTimePeriod	No
upperBound	Quantity	N/A	No
lowerBound	Quantity	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	N/A	No

Table 4.631: Fields of ServiceLevelObjectiveThreshold.

## 4.632 ServiceLevelObjective\_Create

Service level objectives are defined in terms of parameters and metrics, thresholds, and tolerances associated with the parameters.

Field	Type	Format	Required
name	string	N/A	No
conformancePeriod	TimePeriod	N/A	No
conformanceTarget	string	N/A	Yes
graceTimes	string	N/A	No
thresholdTarget	string	N/A	No
tolerancePeriod	TimeInterval	N/A	No
toleranceTarget	string	N/A	No
validFor	TimePeriod	N/A	No
keyIndicator	KeyIndicator	N/A	Yes
consequence	array	ServiceLevelSpecConsequence	No
threshold	array	ServiceLevelObjectiveThreshold	No
applicability	array	ApplicableTimePeriod	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	N/A	No

Table 4.632: Fields of ServiceLevelObjective\_Create.

## 4.633 ServiceLevelObjective\_Update

Service level objectives are defined in terms of parameters and metrics, thresholds, and tolerances associated with the parameters.

Field	Type	Format	Required
name	string	N/A	No
conformancePeriod	TimePeriod	N/A	No
conformanceTarget	string	N/A	No
graceTimes	string	N/A	No
thresholdTarget	string	N/A	No
tolerancePeriod	TimeInterval	N/A	No
toleranceTarget	string	N/A	No
keyIndicator	KeyIndicator	N/A	No
consequence	array	ServiceLevelSpecConsequence	No
threshold	array	ServiceLevelObjectiveThreshold	No
applicability	array	ApplicableTimePeriod	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	N/A	No

Table 4.633: Fields of ServiceLevelObjective\_Update.

## 4.634 ServiceLevelSpecConsequence

A target/threshold crossing or a target/threshold ceased to be crossing results in a consequence.

Field	Type	Format	Required
name	string	N/A	No
description	string	N/A	No
prescribedAction	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	N/A	No

Table 4.634: Fields of ServiceLevelSpecConsequence.

## 4.635 ServiceLevelSpecification

A Service Level Specification represents a pre-defined or negotiated set of Service Level Objectives. In addition, certain consequences are associated with not meeting the Service Level Objectives. Service Level Agreements are expressed in terms of Service Level Specifications.

Field	Type	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
description	string	N/A	No
relatedServiceLevelObjective	array	ServiceLevelObjectiveRef	No
validFor	TimePeriod	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.635: Fields of ServiceLevelSpecification.

## 4.636 ServiceLevelSpecificationRef

A Service Level Specification represents a pre-defined or negotiated set of Service Level Objectives. In addition, certain consequences are associated with not meeting the Service Level Objectives. Service Level Agreements are expressed in terms of Service Level Specifications.

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"ServiceLevelSpecification-Ref"	Yes

Table 4.636: Fields of ServiceLevelSpecificationRef.



## 4.637 ServiceLevelSpecificationRef\_FVO

A Service Level Specification represents a pre-defined or negotiated set of Service Level Objectives. In addition, certain consequences are associated with not meeting the Service Level Objectives. Service Level Agreements are expressed in terms of Service Level Specifications.

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"ServiceLevelSpecification-Ref"	Yes

Table 4.637: Fields of ServiceLevelSpecificationRef\_FVO.

## 4.638 ServiceLevelSpecificationRef\_MVO

A Service Level Specification represents a pre-defined or negotiated set of Service Level Objectives. In addition, certain consequences are associated with not meeting the Service Level Objectives. Service Level Agreements are expressed in terms of Service Level Specifications.

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"ServiceLevelSpecification-Ref"	Yes

Table 4.638: Fields of ServiceLevelSpecificationRef\_MVO.

## 4.639 ServiceLevelSpecification\_Create

A Service Level Specification represents a pre-defined or negotiated set of Service Level Objectives. In addition, certain consequences are associated with not meeting the Service Level Objectives. Service Level Agreements are expressed in terms of Service Level Specifications. Skipped properties: id,href

Field	Type	Format	Required
name	string	N/A	Yes
description	string	N/A	No
relatedServiceLevelObjective	array	ServiceLevelObjectiveRef	Yes
validFor	TimePeriod	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.639: Fields of ServiceLevelSpecification\_Create.

## 4.640 ServiceLevelSpecification\_Update

A Service Level Specification represents a pre-defined or negotiated set of Service Level Objectives. In addition, certain consequences are associated with not meeting the Service Level Objectives. Service Level Agreements are expressed in terms of Service Level Specifications. Skipped properties: id,href,validFor

Field	Type	Format	Required
name	string	N/A	No
description	string	N/A	No
relatedServiceLevelObjective	array	ServiceLevelObjectiveRef	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.640: Fields of ServiceLevelSpecification\_Update.

## 4.641 ServiceOperatingStatusType

Valid values for the Operating status of the service

Field	Type	Format	Required
ServiceOperatingStatusType	string	oneOf[pending, configured, starting, running, degraded, failed, limited, stopping, stopped, unknown]	No

Table 4.641: Fields of ServiceOperatingStatusType.

## 4.642 ServicePayloadSpecificAttributes

ServicePayloadSpecificAttributes is used as an extension point for MEF-specific service performance monitoring configuration. It includes a definition of service/entity and applicable performance monitoring objectives. The `@type` attribute is used as a discriminator.

Field	Type	Format	Required
@type	string	N/A	Yes

Table 4.642: Fields of ServicePayloadSpecificAttributes.

## 4.643 ServiceRef

Service reference, for when Service is used by other entities.

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"ServiceRef"	Yes

Table 4.643: Fields of ServiceRef.

## 4.644 ServiceRefOrValue

The polymorphic attributes @type, @schemaLocation & @referredType are related to the Service entity and not the ServiceRefOrValue class itself

Field	Type	Format	Required
@type	string	oneOf["Service", "ServiceRef"]	Yes

Table 4.644: Fields of ServiceRefOrValue.



## 4.645 ServiceRefOrValue\_FVO

The polymorphic attributes @type, @schemaLocation & @referredType are related to the Service entity and not the ServiceRefOrValue class itself

Field	Type	Format	Required
@type	string	oneOf["Service", "ServiceRef"]	Yes

Table 4.645: Fields of ServiceRefOrValue\_FVO.

## 4.646 ServiceRefOrValue\_MVO

The polymorphic attributes @type, @schemaLocation & @referredType are related to the Service entity and not the ServiceRefOrValue class itself

Field	Type	Format	Required
@type	string	oneOf["Service", "ServiceRef"]	Yes

Table 4.646: Fields of ServiceRefOrValue\_MVO.

## 4.647 ServiceRef\_FVO

Service reference, for when Service is used by other entities.

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"ServiceRef"	Yes

Table 4.647: Fields of ServiceRef\_FVO.

## 4.648 ServiceRef\_MVO

Service reference, for when Service is used by other entities.

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"ServiceRef"	Yes

Table 4.648: Fields of ServiceRef\_MVO.

## 4.649 ServiceRelationship

Field	Type	Format	Required
serviceRelationshipCharacteristic	array	Characteristic	No
service	ServiceRefOrValue	N/A	No
relationshipType	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"ServiceRelationship"	Yes

Table 4.649: Fields of ServiceRelationship.

## 4.650 ServiceRelationship\_FVO

Field	Type	Format	Required
serviceRelationshipCharacteristic	array	Characteristic_FVO	No
service	ServiceRefOrValue_FVO	N/A	No
relationshipType	string	N/A	Yes
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"ServiceRelationship"	Yes

Table 4.650: Fields of ServiceRelationship\_FVO.

## 4.651 ServiceRelationship\_MVO

Field	Type	Format	Required
serviceRelationshipCharacteristic	array	Characteristic_MVO	No
service	ServiceRefOrValue_MVO	N/A	No
relationshipType	string	N/A	Yes
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"ServiceRelationship"	Yes

Table 4.651: Fields of ServiceRelationship\_MVO.

## 4.652 ServiceSpecification

Field	Type	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
description	string	N/A	No
lastUpdate	string	date-time	No
lifecycleStatus	string	N/A	No
isBundle	boolean	N/A	No
validFor	TimePeriod	N/A	No
version	string	N/A	No
attachment	array	AttachmentOrDocumentRef	No
targetEntitySchema	TargetEntitySchema	N/A	No
specCharacteristic	array	CharacteristicSpecification	No
relatedParty	array	RelatedPartyRefOrPartyRoleRef	No
constraint	array	ConstraintRef	No
entitySpecRelationship	array	EntitySpecificationRelationship	No
resourceSpecification	array	ResourceSpecificationRef	No
serviceLevelSpecification	array	ServiceLevelSpecificationRef	No
serviceSpecRelationship	array	EntityRelationship	No
intentSpecification	IntentSpecificationRef	N/A	No
featureSpecification	array	FeatureSpecification	No
category	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"ServiceSpecification"	Yes

Table 4.652: Fields of ServiceSpecification.



## 4.653 ServiceSpecificationRef

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
version	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"ServiceSpecificationRef"	Yes

Table 4.653: Fields of ServiceSpecificationRef.

## 4.654 ServiceSpecificationRef\_FVO

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
version	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"ServiceSpecificationRef"	Yes

Table 4.654: Fields of ServiceSpecificationRef\_FVO.

## 4.655 ServiceSpecificationRef\_MVO

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
version	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"ServiceSpecificationRef"	Yes

Table 4.655: Fields of ServiceSpecificationRef\_MVO.

## 4.656 ServiceSpecification\_FVO

Field	Type	Format	Required
id	string	N/A	Yes
name	string	N/A	Yes
description	string	N/A	No
lastUpdate	string	date-time	No
lifecycleStatus	string	N/A	No
isBundle	boolean	N/A	No
validFor	TimePeriod	N/A	No
version	string	N/A	No
attachment	array	AttachmentOrDocumentRef	No
targetEntitySchema	TargetEntitySchema_FVO	N/A	No
specCharacteristic	array	CharacteristicSpecifica- tion_FVO	No
relatedParty	array	RelatedPartyRefOrPartyRol- eRef_FVO	No
constraint	array	ConstraintRef_FVO	No
entitySpecRelationship	array	EntitySpecificationRelation- ship_FVO	No
resourceSpecification	array	ResourceSpecification- Ref_FVO	No
serviceLevelSpecification	array	ServiceLevelSpecification- Ref_FVO	No
serviceSpecRelationship	array	EntityRelationship_FVO	No
intentSpecification	IntentSpecificationRef_FVO	N/A	No
featureSpecification	array	FeatureSpecification_FVO	No
category	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	Yes
@type	string	"ServiceSpecification"	Yes

Table 4.656: Fields of ServiceSpecification\_FVO.

## 4.657 ServiceSpecification\_MVO

Field	Type	Format	Required
name	string	N/A	No
description	string	N/A	No
lastUpdate	string	date-time	No
lifecycleStatus	string	N/A	No
isBundle	boolean	N/A	No
validFor	TimePeriod	N/A	No
version	string	N/A	No
attachment	array	AttachmentOrDocumentRef	No
targetEntitySchema	TargetEntitySchema_MVO	N/A	No
specCharacteristic	array	CharacteristicSpecification_MVO	No
relatedParty	array	RelatedPartyRefOrPartyRoleRef_MVO	No
constraint	array	ConstraintRef_MVO	No
entitySpecRelationship	array	EntitySpecificationRelationship_MVO	No
resourceSpecification	array	ResourceSpecificationRef_MVO	No
serviceLevelSpecification	array	ServiceLevelSpecificationRef_MVO	No
serviceSpecRelationship	array	EntityRelationship_MVO	No
intentSpecification	IntentSpecificationRef_MVO	N/A	No
featureSpecification	array	FeatureSpecification_MVO	No
category	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"ServiceSpecification"	Yes

Table 4.657: Fields of ServiceSpecification\_MVO.

## 4.658 ServiceStateType

Valid values for the lifecycle state of the service

Field	Type	Format	Required
ServiceStateType	string	oneOf[feasibilityChecked, designed, reserved, inactive, active, terminated, suspended]	No

Table 4.658: Fields of ServiceStateType.

## 4.659 Service\_FVO

Field	Type	Format	Required
id	string	N/A	No
name	string	N/A	No
description	string	N/A	No
isEnabled	boolean	N/A	No
hasStarted	boolean	N/A	No
startMode	string	N/A	No
isStateful	boolean	N/A	No
startDate	string	date-time	No
endDate	string	date-time	No
serviceOrderItem	array	RelatedService-OrderItem_FVO	No
note	array	Note_FVO	No
serviceType	string	N/A	No
isBundle	boolean	N/A	No
category	string	N/A	No
feature	array	Feature_FVO	No
relatedEntity	array	RelatedEntity_FVO	No
externalIdentifier	array	ExternalIdentifier_FVO	No
serviceCharacteristic	array	Characteristic_FVO	No
serviceRelationship	array	ServiceRelationship_FVO	No
supportingService	array	ServiceRefOrValue_FVO	No
supportingResource	array	ResourceRef_FVO	No
relatedParty	array	RelatedPartyRefOrPartyRoleRef_FVO	No
place	array	RelatedPlaceRefOrValue_FVO	No
state	ServiceStateType	N/A	Yes
serviceSpecification	ServiceSpecification-Ref_FVO	N/A	Yes
intent	IntentRefOrValue_FVO	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"Service"	Yes



Field	Type	Format	Required
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Table 4.659: Fields of Service\_FVO.



## 4.660 Service\_MVO

Field	Type	Format	Required
name	string	N/A	No
description	string	N/A	No
isEnabled	boolean	N/A	No
hasStarted	boolean	N/A	No
startMode	string	N/A	No
isStateful	boolean	N/A	No
startDate	string	date-time	No
endDate	string	date-time	No
serviceOrderItem	array	RelatedService-OrderItem_MVO	No
note	array	Note_MVO	No
serviceType	string	N/A	No
isBundle	boolean	N/A	No
category	string	N/A	No
feature	array	Feature_MVO	No
relatedEntity	array	RelatedEntity_MVO	No
externalIdentifier	array	ExternalIdentifier_MVO	No
serviceCharacteristic	array	Characteristic_MVO	No
serviceRelationship	array	ServiceRelationship_MVO	No
supportingService	array	ServiceRefOrValue_MVO	No
supportingResource	array	ResourceRef_MVO	No
relatedParty	array	RelatedPartyRefOrPartyRoleRef_MVO	No
place	array	RelatedPlaceRefOrValue_MVO	No
state	ServiceStateType	N/A	No
operatingStatus	ServiceOperatingStatusType	N/A	No
serviceSpecification	ServiceSpecification-Ref_MVO	N/A	No
intent	IntentRefOrValue_MVO	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"Service"	Yes



Field	Type	Format	Required
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Table 4.660: Fields of Service\_MVO.

## 4.661 Skill

Skills evaluated for an individual with a level and possibly with a limited validity when an obsolescence is defined (Ex: the first-aid certificate first level is limited to one year and an update training is required each year to keep the level).

Field	Type	Format	Required
skillCode	string	N/A	No
skillName	string	N/A	No
evaluatedLevel	string	N/A	No
comment	string	N/A	No
validFor	TimePeriod	N/A	No

Table 4.661: Fields of Skill.

## 4.662 SocialContactMedium

Field	Type	Format	Required
id	string	N/A	No
preferred	boolean	N/A	No
contactType	string	N/A	No
validFor	TimePeriod	N/A	No
socialNetworkId	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	N/A	Yes

Table 4.662: Fields of SocialContactMedium.

## 4.663 SocialContactMedium\_FVO

Field	Type	Format	Required
id	string	N/A	No
preferred	boolean	N/A	No
contactType	string	N/A	No
validFor	TimePeriod	N/A	No
socialNetworkId	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	N/A	Yes

Table 4.663: Fields of SocialContactMedium\_FVO.

## 4.664 SocialContactMedium\_MVO

Field	Type	Format	Required
id	string	N/A	No
preferred	boolean	N/A	No
contactType	string	N/A	No
validFor	TimePeriod	N/A	No
socialNetworkId	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	N/A	Yes

Table 4.664: Fields of SocialContactMedium\_MVO.

## 4.665 StandardIdentifier

Field	Type	Format	Required
id	string	N/A	No
href	string	uri	No
format	string	N/A	No
value	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"StandardIdentifier"	Yes

Table 4.665: Fields of StandardIdentifier.

## 4.666 StandardIdentifier\_FVO

Field	Type	Format	Required
id	string	N/A	No
format	string	N/A	No
value	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"StandardIdentifier"	Yes

Table 4.666: Fields of StandardIdentifier\_FVO.



## 4.667 StandardIdentifier\_MVO

Field	Type	Format	Required
format	string	N/A	No
value	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"StandardIdentifier"	Yes

Table 4.667: Fields of StandardIdentifier\_MVO.

## 4.668 StatusChange

Field	Type	Format	Required
statusChangeDate	string	date-time	No
statusChangeReason	string	N/A	No
status	TroubleTicketStatusType	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"StatusChange"	Yes

Table 4.668: Fields of StatusChange.

## 4.669 StatusChange\_MVO

Field	Type	Format	Required
statusChangeDate	string	date-time	No
statusChangeReason	string	N/A	No
status	TroubleTicketStatusType	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"StatusChange"	Yes

Table 4.669: Fields of StatusChange\_MVO.

## 4.670 StringArrayCharacteristic

Field	Type	Format	Required
id	string	N/A	No
name	string	N/A	No
valueType	string	N/A	No
characteristicRelationship	array	CharacteristicRelationship	No
unitOfMeasure	string	N/A	No
value	array	string	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"StringArrayCharacteristic"	Yes

Table 4.670: Fields of StringArrayCharacteristic.

## 4.671 StringArrayCharacteristicValueSpecification

Field	Type	Format	Required
valueType	string	N/A	No
isDefault	boolean	N/A	No
unitOfMeasure	string	N/A	No
validFor	TimePeriod	N/A	No
valueFrom	integer	N/A	No
valueTo	integer	N/A	No
rangeInterval	string	N/A	No
regex	string	N/A	No
value	array	string	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"StringArrayCharacteristic-ValueSpecification"	Yes

Table 4.671: Fields of StringArrayCharacteristicValueSpecification.

## 4.672 StringArrayCharacteristicValueSpecification\_FVO

Field	Type	Format	Required
valueType	string	N/A	No
isDefault	boolean	N/A	No
unitOfMeasure	string	N/A	No
validFor	TimePeriod	N/A	No
valueFrom	integer	N/A	No
valueTo	integer	N/A	No
rangeInterval	string	N/A	No
regex	string	N/A	No
value	array	string	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"StringArrayCharacteristic-ValueSpecification"	Yes

Table 4.672: Fields of StringArrayCharacteristicValueSpecification\_FVO.

## 4.673 StringArrayCharacteristicValueSpecification\_MVO

Field	Type	Format	Required
valueType	string	N/A	No
isDefault	boolean	N/A	No
unitOfMeasure	string	N/A	No
validFor	TimePeriod	N/A	No
valueFrom	integer	N/A	No
valueTo	integer	N/A	No
rangeInterval	string	N/A	No
regex	string	N/A	No
value	array	string	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"StringArrayCharacteristic-ValueSpecification"	Yes

Table 4.673: Fields of StringArrayCharacteristicValueSpecification\_MVO.

## 4.674 StringArrayCharacteristic\_FVO

Field	Type	Format	Required
id	string	N/A	No
name	string	N/A	Yes
valueType	string	N/A	No
characteristicRelationship	array	CharacteristicRelationship_FVO	No
unitOfMeasure	string	N/A	No
value	array	string	Yes
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"StringArrayCharacteristic"	Yes

Table 4.674: Fields of StringArrayCharacteristic\_FVO.



## 4.675 StringArrayCharacteristic\_MVO

Field	Type	Format	Required
id	string	N/A	No
name	string	N/A	No
valueType	string	N/A	No
characteristicRelationship	array	CharacteristicRelationship_MVO	No
unitOfMeasure	string	N/A	No
value	array	string	Yes
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"StringArrayCharacteristic"	Yes

Table 4.675: Fields of StringArrayCharacteristic\_MVO.

## 4.676 StringCharacteristic

Field	Type	Format	Required
id	string	N/A	No
name	string	N/A	No
valueType	string	N/A	No
characteristicRelationship	array	CharacteristicRelationship	No
unitOfMeasure	string	N/A	No
value	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"StringCharacteristic"	Yes

Table 4.676: Fields of StringCharacteristic.

## 4.677 StringCharacteristicValueSpecification

Field	Type	Format	Required
valueType	string	N/A	No
isDefault	boolean	N/A	No
unitOfMeasure	string	N/A	No
validFor	TimePeriod	N/A	No
valueFrom	integer	N/A	No
valueTo	integer	N/A	No
rangeInterval	string	N/A	No
regex	string	N/A	No
value	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"StringCharacteristicValue-Specification"	Yes

Table 4.677: Fields of StringCharacteristicValueSpecification.

## 4.678 StringCharacteristicValueSpecification\_FVO

Field	Type	Format	Required
valueType	string	N/A	No
isDefault	boolean	N/A	No
unitOfMeasure	string	N/A	No
validFor	TimePeriod	N/A	No
valueFrom	integer	N/A	No
valueTo	integer	N/A	No
rangeInterval	string	N/A	No
regex	string	N/A	No
value	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"StringCharacteristicValue-Specification"	Yes

Table 4.678: Fields of StringCharacteristicValueSpecification\_FVO.

## 4.679 StringCharacteristicValueSpecification\_MVO

Field	Type	Format	Required
valueType	string	N/A	No
isDefault	boolean	N/A	No
unitOfMeasure	string	N/A	No
validFor	TimePeriod	N/A	No
valueFrom	integer	N/A	No
valueTo	integer	N/A	No
rangeInterval	string	N/A	No
regex	string	N/A	No
value	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"StringCharacteristicValue-Specification"	Yes

Table 4.679: Fields of StringCharacteristicValueSpecification\_MVO.

## 4.680 StringCharacteristic\_FVO

Field	Type	Format	Required
id	string	N/A	No
name	string	N/A	Yes
valueType	string	N/A	No
characteristicRelationship	array	CharacteristicRelationship_FVO	No
unitOfMeasure	string	N/A	No
value	string	N/A	Yes
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"StringCharacteristic"	Yes

Table 4.680: Fields of StringCharacteristic\_FVO.

## 4.681 StringCharacteristic\_MVO

Field	Type	Format	Required
id	string	N/A	No
name	string	N/A	No
valueType	string	N/A	No
characteristicRelationship	array	CharacteristicRelationship_MVO	No
unitOfMeasure	string	N/A	No
value	string	N/A	Yes
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"StringCharacteristic"	Yes

Table 4.681: Fields of StringCharacteristic\_MVO.

## 4.682 Supplier

When business partner is the Supplier

Field	Type	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
description	string	N/A	No
role	string	N/A	No
engagedParty	PartyRef	N/A	No
partyRoleSpecification	PartyRoleSpecificationRef	N/A	No
characteristic	array	Characteristic	No
account	array	AccountRef	No
agreement	array	AgreementRef	No
contactMedium	array	ContactMedium	No
paymentMethod	array	PaymentMethodRef	No
creditProfile	array	CreditProfile	No
relatedParty	array	RelatedPartyOrPartyRole	No
status	string	N/A	No
statusReason	string	N/A	No
validFor	TimePeriod	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"Supplier"	Yes

Table 4.682: Fields of Supplier.



## 4.683 Supplier\_FVO

When business partner is the Supplier

Field	Type	Format	Required
id	string	N/A	No
name	string	N/A	Yes
description	string	N/A	No
role	string	N/A	No
engagedParty	PartyRef_FVO	N/A	Yes
partyRoleSpecification	PartyRoleSpecification-Ref_FVO	N/A	No
characteristic	array	Characteristic_FVO	No
account	array	AccountRef_FVO	No
agreement	array	AgreementRef_FVO	No
contactMedium	array	ContactMedium_FVO	No
paymentMethod	array	PaymentMethodRef_FVO	No
creditProfile	array	CreditProfile_FVO	No
relatedParty	array	RelatedPartyOrParty-Role_FVO	No
status	string	N/A	No
statusReason	string	N/A	No
validFor	TimePeriod	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"Supplier"	Yes

Table 4.683: Fields of Supplier\_FVO.

## 4.684 Supplier\_MVO

When business partner is the Supplier

Field	Type	Format	Required
name	string	N/A	Yes
description	string	N/A	No
role	string	N/A	No
engagedParty	PartyRef_MVO	N/A	Yes
partyRoleSpecification	PartyRoleSpecification-Ref_MVO	N/A	No
characteristic	array	Characteristic_MVO	No
account	array	AccountRef_MVO	No
agreement	array	AgreementRef_MVO	No
contactMedium	array	ContactMedium_MVO	No
paymentMethod	array	PaymentMethodRef_MVO	No
creditProfile	array	CreditProfile_MVO	No
relatedParty	array	RelatedPartyOrParty-Role_MVO	No
status	string	N/A	No
statusReason	string	N/A	No
validFor	TimePeriod	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"Supplier"	Yes

Table 4.684: Fields of Supplier\_MVO.

## 4.685 SuspendPerformanceJob

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
performanceJob	PerformanceJobRef	N/A	Yes
suspensionReason	string	N/A	No
creationDate	string	date-time	Yes
state	PerformanceJobPro- cessStateType	N/A	Yes
suspensionDeniedReason	string	N/A	No

Table 4.685: Fields of SuspendPerformanceJob.

## 4.686 SuspendPerformanceJob\_Common

Request for suspension of an existing Performance Job

Field	Type	Format	Required
performanceJob	PerformanceJobRef	N/A	Yes
suspensionReason	string	N/A	No

Table 4.686: Fields of SuspendPerformanceJob\_Common.

## 4.687 SuspendPerformanceJob\_Create

Field	Type	Format	Required
performanceJob	PerformanceJobRef	N/A	Yes
suspensionReason	string	N/A	No

Table 4.687: Fields of SuspendPerformanceJob\_Create.

## 4.688 SuspendPerformanceJob\_Find

This class represents a single list item for the response of `listSuspendPerformanceJob`

Field	Type	Format	Required
id	string	N/A	Yes
creationDate	string	date-time	Yes
performanceJob	PerformanceJobRef	N/A	Yes
state	PerformanceJobPro- cessStateType	N/A	Yes

Table 4.688: Fields of SuspendPerformanceJob\_Find.

## 4.689 TargetEntitySchema

The reference object to the schema and type of target entity which is described by a specification

Field	Type	Format	Required
@schemaLocation	string	N/A	No
@type	string	N/A	No

Table 4.689: Fields of TargetEntitySchema.

## 4.690 TargetEntitySchema\_FVO

The reference object to the schema and type of target entity which is described by a specification

Field	Type	Format	Required
@schemaLocation	string	N/A	Yes
@type	string	N/A	Yes

Table 4.690: Fields of TargetEntitySchema\_FVO.



## 4.691 TargetEntitySchema\_MVO

The reference object to the schema and type of target entity which is described by a specification

Field	Type	Format	Required
@schemaLocation	string	N/A	No
@type	string	N/A	No

Table 4.691: Fields of TargetEntitySchema\_MVO.

## 4.692 TargetProductSchema

The reference object to the schema and type of target product which is described by product specification

Field	Type	Format	Required
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.692: Fields of TargetProductSchema.

## 4.693 TargetProductSchema\_FVO

The reference object to the schema and type of target product which is described by product specification

Field	Type	Format	Required
@schemaLocation	string	uri	Yes
@type	string	N/A	Yes

Table 4.693: Fields of TargetProductSchema\_FVO.

## 4.694 TargetProductSchema\_MVO

The reference object to the schema and type of target product which is described by product specification

Field	Type	Format	Required
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.694: Fields of TargetProductSchema\_MVO.

## 4.695 TargetResourceSchema

The reference object to the schema and type of target resource which is described by resource specification

Field	Type	Format	Required
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.695: Fields of TargetResourceSchema.

## 4.696 TargetResourceSchema\_FVO

The reference object to the schema and type of target resource which is described by resource specification

Field	Type	Format	Required
@schemaLocation	string	uri	Yes
@type	string	N/A	Yes

Table 4.696: Fields of TargetResourceSchema\_FVO.

## 4.697 TargetResourceSchema\_MVO

The reference object to the schema and type of target resource which is described by resource specification

Field	Type	Format	Required
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.697: Fields of TargetResourceSchema\_MVO.

## 4.698 TaskStateType

Possible values for the state of a task

Field	Type	Format	Required
TaskStateType	string	oneOf[accepted, terminatedWithError, inProgress, done]	No

Table 4.698: Fields of TaskStateType.



## 4.699 TaxDefinition

Field	Type	Format	Required
id	string	N/A	No
name	string	N/A	No
validFor	TimePeriod	N/A	No
jurisdictionName	string	N/A	No
jurisdictionLevel	string	N/A	No
taxType	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"TaxDefinition"	Yes

Table 4.699: Fields of TaxDefinition.

## 4.700 TaxDefinition\_FVO

Field	Type	Format	Required
id	string	N/A	No
name	string	N/A	No
validFor	TimePeriod	N/A	No
jurisdictionName	string	N/A	No
jurisdictionLevel	string	N/A	No
taxType	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"TaxDefinition"	Yes

Table 4.700: Fields of TaxDefinition\_FVO.

## 4.701 TaxDefinition\_MVO

Field	Type	Format	Required
id	string	N/A	No
name	string	N/A	No
validFor	TimePeriod	N/A	No
jurisdictionName	string	N/A	No
jurisdictionLevel	string	N/A	No
taxType	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"TaxDefinition"	Yes

Table 4.701: Fields of TaxDefinition\_MVO.

## 4.702 TaxExemptionCertificate

Field	Type	Format	Required
id	string	N/A	No
taxDefinition	array	TaxDefinition	No
validFor	TimePeriod	N/A	No
certificateNumber	string	N/A	No
issuingJurisdiction	string	N/A	No
reason	string	N/A	No
attachment	AttachmentOrDocumentRef	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"TaxExemptionCertificate"	Yes

Table 4.702: Fields of TaxExemptionCertificate.

## 4.703 TaxExemptionCertificate\_FVO

Field	Type	Format	Required
id	string	N/A	No
taxDefinition	array	TaxDefinition_FVO	No
validFor	TimePeriod	N/A	No
certificateNumber	string	N/A	No
issuingJurisdiction	string	N/A	No
reason	string	N/A	No
attachment	AttachmentOrDocumentRef	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"TaxExemptionCertificate"	Yes

Table 4.703: Fields of TaxExemptionCertificate\_FVO.

## 4.704 TaxExemptionCertificate\_MVO

Field	Type	Format	Required
id	string	N/A	No
taxDefinition	array	TaxDefinition_MVO	No
validFor	TimePeriod	N/A	No
certificateNumber	string	N/A	No
issuingJurisdiction	string	N/A	No
reason	string	N/A	No
attachment	AttachmentOrDocumentRef	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"TaxExemptionCertificate"	Yes

Table 4.704: Fields of TaxExemptionCertificate\_MVO.

## 4.705 TaxItem

Field	Type	Format	Required
taxAmount	Money	N/A	No
taxCategory	string	N/A	No
taxRate	number	float	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"TaxItem"	Yes

Table 4.705: Fields of TaxItem.

## 4.706 ThresholdRef

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"ThresholdRef"	Yes

Table 4.706: Fields of ThresholdRef.



## 4.707 TimeInterval

An interval of time from start- to endTime. If a time zone is required, it must be determined from the context.

Field	Type	Format	Required
startTime	string	time	Yes
endTime	string	time	Yes

Table 4.707: Fields of TimeInterval.

## 4.708 TimePeriod

A period of time, either as a deadline (endTime only) a startTime only, or both

Field	Type	Format	Required
endTime	string	date-time	No
startTime	string	date-time	No

Table 4.708: Fields of TimePeriod.

## 4.709 Topic

Is a event channel provided by the Event Streaming API

Field	Type	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
contentQuery	string	N/A	No
headerQuery	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	uri	No
@type	string	N/A	No

Table 4.709: Fields of Topic.

## 4.710 TotalPrice

An amount, usually of money, that represents the actual price to be paid by a Customer for current group of inquiry results.

Field	Type	Format	Required
name	string	N/A	No
description	string	N/A	No
priceType	string	N/A	Yes
recurringChargePeriod	string	N/A	No
unitOfMeasure	string	N/A	No
price	Price	N/A	Yes

Table 4.710: Fields of TotalPrice.

## 4.711 TroubleTicket

Field	Type	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
description	string	N/A	No
severity	string	N/A	No
ticketType	string	N/A	No
attachment	array	AttachmentOrDocumentRef	No
channel	ChannelRef	N/A	No
creationDate	string	date-time	No
requestedResolutionDate	string	date-time	No
expectedResolutionDate	string	date-time	No
resolutionDate	string	date-time	No
externalIdentifier	array	ExternalIdentifier	No
lastUpdate	string	date-time	No
note	array	Note	No
priority	string	N/A	No
relatedEntity	array	RelatedEntity	No
relatedParty	array	RelatedPartyRefOrPartyRoleRef	No
status	TroubleTicketStatusType	N/A	No
statusChangeDate	string	date-time	No
statusChangeReason	string	N/A	No
statusChangeHistory	array	StatusChange	No
troubleTicketRelationship	array	TroubleTicketRelationship	No
troubleTicketSpecification	TroubleTicketSpecification-Ref	N/A	No
troubleTicketCharacteristic	array	Characteristic	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"TroubleTicket"	Yes

Table 4.711: Fields of TroubleTicket.

## 4.712 TroubleTicketRelationship

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
relationshipType	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"TroubleTicketRelationship"	Yes

Table 4.712: Fields of TroubleTicketRelationship.

## 4.713 TroubleTicketRelationship\_FVO

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
relationshipType	string	N/A	Yes
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"TroubleTicketRelationship"	Yes

Table 4.713: Fields of TroubleTicketRelationship\_FVO.

## 4.714 TroubleTicketRelationship\_MVO

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
relationshipType	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"TroubleTicketRelationship"	Yes

Table 4.714: Fields of TroubleTicketRelationship\_MVO.



## 4.715 TroubleTicketSpecification

Field	Type	Format	Required
id	string	N/A	No
href	string	uri	No
name	string	N/A	No
description	string	N/A	No
lifecycleStatus	string	N/A	No
specCharacteristic	array	CharacteristicSpecification	No
relatedParty	array	RelatedPartyRefOrPartyRoleRef	No
validFor	TimePeriod	N/A	No
version	string	N/A	No
creationDate	string	date-time	No
lastUpdate	string	date-time	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"TroubleTicketSpecification"	Yes

Table 4.715: Fields of TroubleTicketSpecification.

## 4.716 TroubleTicketSpecificationRef

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
version	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"TroubleTicketSpecification-Ref"	Yes

Table 4.716: Fields of TroubleTicketSpecificationRef.

## 4.717 TroubleTicketSpecificationRef\_FVO

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
version	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"TroubleTicketSpecification-Ref"	Yes

Table 4.717: Fields of TroubleTicketSpecificationRef\_FVO.

## 4.718 TroubleTicketSpecificationRef\_MVO

Field	Type	Format	Required
id	string	N/A	Yes
href	string	uri	No
name	string	N/A	No
version	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@referredType	string	N/A	No
@type	string	"TroubleTicketSpecification-Ref"	Yes

Table 4.718: Fields of TroubleTicketSpecificationRef\_MVO.

## 4.719 TroubleTicketSpecification\_FVO

Field	Type	Format	Required
id	string	N/A	No
name	string	N/A	Yes
description	string	N/A	No
lifecycleStatus	string	N/A	No
specCharacteristic	array	CharacteristicSpecification_FVO	No
relatedParty	array	RelatedPartyRefOrPartyRoleRef_FVO	No
validFor	TimePeriod	N/A	No
version	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"TroubleTicketSpecification"	Yes

Table 4.719: Fields of TroubleTicketSpecification\_FVO.

## 4.720 TroubleTicketSpecification\_MVO

Field	Type	Format	Required
name	string	N/A	No
description	string	N/A	No
lifecycleStatus	string	N/A	No
specCharacteristic	array	CharacteristicSpecification_MVO	No
relatedParty	array	RelatedPartyRefOrPartyRoleRef_MVO	No
validFor	TimePeriod	N/A	No
version	string	N/A	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"TroubleTicketSpecification"	Yes

Table 4.720: Fields of TroubleTicketSpecification\_MVO.

## 4.721 TroubleTicketStatusType

Possible values for the status of the trouble ticket

Field	Type	Format	Required
TroubleTicketStatusType	string	oneOf[acknowledged, rejected, pending, held, inProgress, cancelled, closed, resolved]	No

Table 4.721: Fields of TroubleTicketStatusType.

## 4.722 TroubleTicket\_FVO

Field	Type	Format	Required
id	string	N/A	No
name	string	N/A	No
description	string	N/A	Yes
severity	string	N/A	Yes
ticketType	string	N/A	Yes
attachment	array	AttachmentOrDocumentRef	No
channel	ChannelRef_FVO	N/A	No
requestedResolutionDate	string	date-time	No
expectedResolutionDate	string	date-time	No
resolutionDate	string	date-time	No
externalIdentifier	array	ExternalIdentifier_FVO	No
note	array	Note_FVO	No
priority	string	N/A	No
relatedEntity	array	RelatedEntity_FVO	No
relatedParty	array	RelatedPartyRefOrPartyRoleRef_FVO	No
status	TroubleTicketStatusType	N/A	No
statusChangeDate	string	date-time	No
statusChangeReason	string	N/A	No
troubleTicketRelationship	array	TroubleTicketRelationship_FVO	No
troubleTicketSpecification	TroubleTicketSpecification-Ref_FVO	N/A	No
troubleTicketCharacteristic	array	Characteristic_FVO	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"TroubleTicket"	Yes

Table 4.722: Fields of TroubleTicket\_FVO.



## 4.723 TroubleTicket\_MVO

Field	Type	Format	Required
name	string	N/A	No
description	string	N/A	No
severity	string	N/A	No
ticketType	string	N/A	No
attachment	array	AttachmentOrDocumentRef	No
channel	ChannelRef_MVO	N/A	No
requestedResolutionDate	string	date-time	No
expectedResolutionDate	string	date-time	No
resolutionDate	string	date-time	No
externalIdentifier	array	ExternalIdentifier_MVO	No
note	array	Note_MVO	No
priority	string	N/A	No
relatedEntity	array	RelatedEntity_MVO	No
relatedParty	array	RelatedPartyRefOrPartyRoleRef_MVO	No
status	TroubleTicketStatusType	N/A	No
statusChangeReason	string	N/A	No
statusChangeHistory	array	StatusChange_MVO	No
troubleTicketRelationship	array	TroubleTicketRelationship_MVO	No
troubleTicketSpecification	TroubleTicketSpecification-Ref_MVO	N/A	No
troubleTicketCharacteristic	array	Characteristic_MVO	No
@baseType	string	N/A	No
@schemaLocation	string	N/A	No
@type	string	"TroubleTicket"	Yes

Table 4.723: Fields of TroubleTicket\_MVO.

## 4.724 UsageEstimation

The estimated usage of a product. The customer may provide this to allow the provider to optimize the returned products.

Field	Type	Format	Required
name	string	N/A	No
value	integer	N/A	No
unitOfMeasure	string	N/A	No
recurringChargePeriod	string	N/A	No
recurringChargePeriodLength	integer	N/A	No

Table 4.724: Fields of UsageEstimation.

**Last Page of Document**