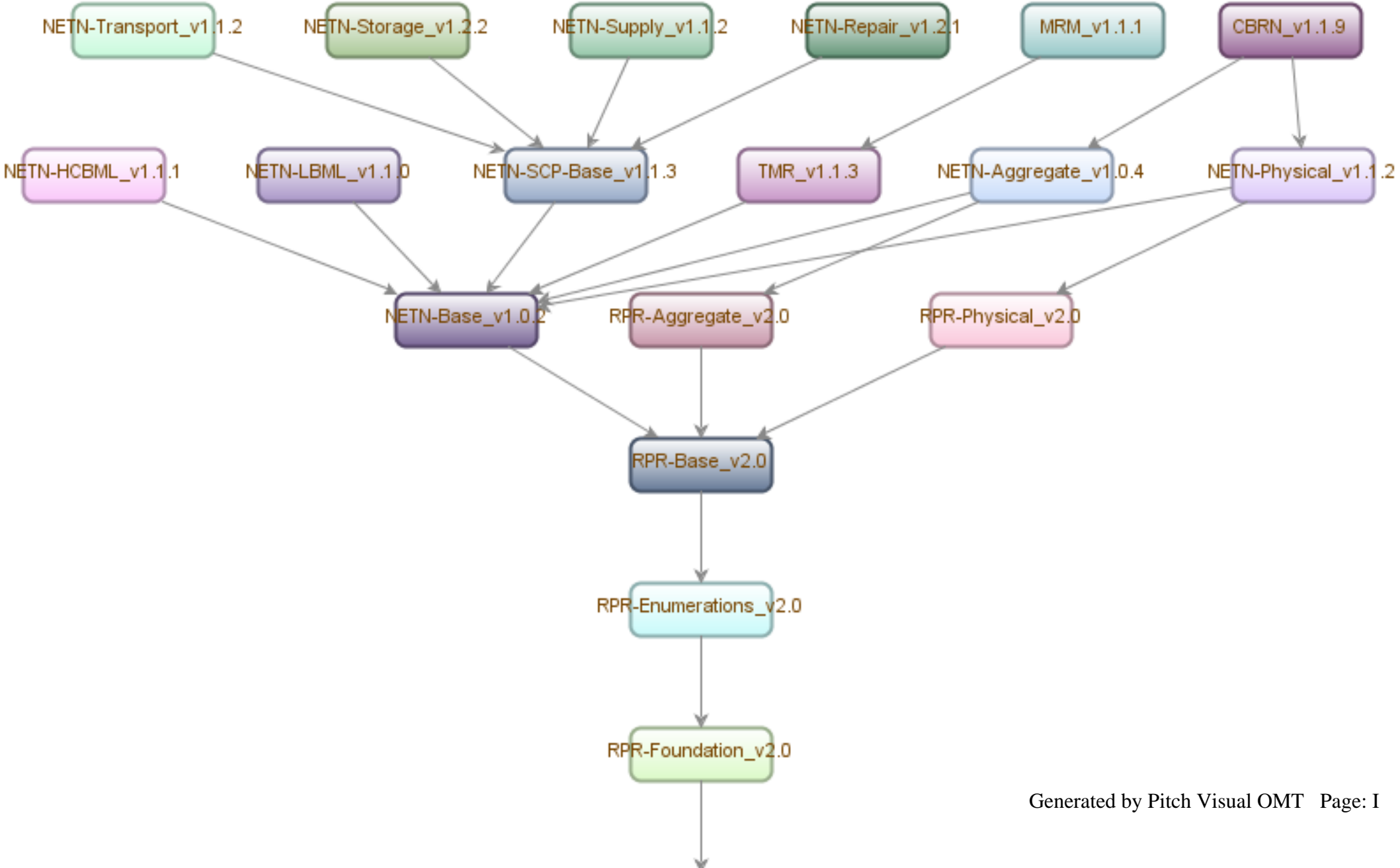


# Project NETN FOM v2.0



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# 1. Module NETN-Base\_v1.0.2

## Information

<b>Name:</b>	NETN-Base
<b>Type:</b>	FOM
<b>Version:</b>	1.0
<b>Modification Date:</b>	2013-10-24
<b>Security Classification:</b>	unclassified
<b>Purpose:</b>	
<b>Application Domain:</b>	Training
<b>Description:</b>	Base module for NETN FOM v2 modules. Mainly datatypes for use in other NETN FOM modules
<b>Use Limitation:</b>	
<b>Other:</b>	

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## References

<b>Dependency</b>	RPR-Base_v2.0
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## Use History

Datatypes is collected from FOM modules in NETN FOM v1. NETN_AggDeagg_v1.07_2010 NETN_Service_Consumer_Provider_v1.0.3_2010 NETN_Logistics_v1.1.2_2010
v1.0.0 - First version in NETN FOM v2
v1.0.1 - Added array data type: ArrayOfWorldLocation3 (moved from NETN_Aggregate FOM module)

v1.0.2 - Renamed data type, new name: ArrayOfWorldLocationStruct3.  
Updated References, Dependency

## Dependencies

RPR-Base\_v2.0

RPR-Enumerations\_v2.0

RPR-Foundation\_v2.0

## ***1.1. Datatypes***

### ***1.1.1. Simple Datatypes***

#### **TimeSecInt64**

Representation: HLAinteger64BE  
Units: Second  
Resolution: 1  
Accuracy: NA  
Semantics: Number of seconds since 1 January 1970

#### **CounterInt32**

Representation: HLAinteger32BE  
Units: NA  
Resolution: 1  
Accuracy: NA  
Semantics: A counter

#### **QuantityFloat32**

Representation: HLAfloat32BE  
Units: NA  
Resolution: NA  
Accuracy: NA  
Semantics: The number of units

## 1.1.2. Enumerated Datatypes

### ActiveStatusEnum8

Representation: HLAoctet

Semantics: *An inactive object should not be shown on C4I systems and can not move or interact with other objects.*

Enumerator	Value
Other	0
Active	1
Inactive	2

### AggregateMissionEnum16

Representation: HLAinteger16BE

Semantics: *The specific value that represents the general class or nature of activity (from JC3IEDM action-event-category-code)*

Enumerator	Value
Abdication	1
Accident	2
AccidentAircraftGround	3
Accident_Mine	4
Accident_Traffic	5
Accident_Weapon	6
Accident_Workplace	7
Advancing	8
AerialEngagement	9
AerialShootDown	10
AirAssault	11
AirborneAssault	12
AircraftCrash	13



Enumerator	Value
AircraftLanding	14
AircraftLaunchActivity	15
AircraftLoss	16
AirspaceViolation	17
AlertCancellation	18
Ambush	19
AmphibiousOperation	20
ArmsProduction	21
ArmsTrade	22
Arresting_Legal	23
ArrestingOrObstructing	24
Arson	25
ArtilleryFire	26
Assassination	27
Assembling	28
AssistingACriminal	29
AtmosphericPollution	30
Attack_Deliberate	31
Attack_Diversion	32
Attack_Electronic	33
Attack_Hasty	34
Attack_Main	35
Attack_NotOtherwiseSpecified	36
Attack_Supporting	37
AttemptedMurder	38
AttemptedRape	39
AttemptedRobbery	40

Enumerator	Value
AttemptedSuicide	41
Avoiding	42
BellyLanding	43
Blocking	44
Bombing	45
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Bombing_Deliberate	47
BoobyTrapDiscovery	48
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BorderCrossing_Illegal	51
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BorderCrossing_Planned	53
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BorderRaid	56
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Canalise	61
Capture	62
CarrierLaunch	63
CarrierRecovery	64
CBRN-EVENT	65
CeremonyOrParade	66
CivilDemonstration_Illegal	67

Enumerator	Value
CivilDemonstration_Legal	68
CivilDisobedience	69
CivilUnrest	70
CivilWar	71
Clearing_Air	72
Clearing_LandCombat	73
Clearing_Obstacle	74
Clearing_RadioNet	75
CodewordExecution	76
Collision_Mid-Air	77
Collision_Obstacle	78
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ConductingRearwardPassageOfLines	89
ConductingRecreationalActivities	90
ConductingRoadService	91
ConductingSocialEvents	92
ConductingSportingEvents	93
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Enumerator	Value
ConsolidatingOfAPosition	95
Constructing	96
Containing	97
Cooperating	98
CounterAttack	99
CounterAttackByFire	100
Counter-BatteryFire	101
CoupDetat	102
Covering	103
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Defeat	113
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Deflecting	115
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Demonstration	118
Denying	119
Deploying	120
Destroying	121

Enumerator	Value
Disease	122
Disengaging	123
Disrupting	124
Distributing	125
Diversion	126
Drive-ByShooting	127
Drought	128
DrugConsumption_Illegal	129
DrugDistribution_Illegal	130
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DrugOperation	132
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EarlyWarningAlert	135
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EnemyContact	140
Engaging	141
Enveloping	142
Epidemic	143
EquipmentFailure	144
Escaping	145
Escorting	146
Evacuating	147
Execution	148

Enumerator	Value
Exploitation	149
Explosion	150
Famine	151
Fire	152
Firefighting	153
Fix	154
Fix_Acoustic	155
Fix_Electromagnetic	156
Fix_Electro-Optical	157
Flood	158
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Hijacking_LandVehicle	171
Hijacking_NotOtherwiseSpecified	172
Hijacking_Plane	173
Hold_Defensive	174
Hold_Offensive	175

Enumerator	Value
HostageTaking	176
HumanRightsViolation	177
Hunting	178
Identifying	179
Illumination	180
IndirectFire	181
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IndustrialEspionageIncident	183
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Locating	200
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Maintaining	202

Enumerator	Value
Marking	203
MartialLawImplementation	204
MassingOfForces	205
MassiveDeportationOrBanishment	206
MedicalEvacuation	207
MilitaryMobilisation	208
Mine-Laying	209
MissingIndividual	210
MissionStaging	211
MortarFire	212
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NationalElection	216
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Neutralize_Combat	224
Neutralize_Explosive	225
Obscure	226
Observing	227
Occupying	228
Oceans_SeasOrWaterPollution	229



Enumerator	Value
OffensiveOrCounteroffensive	230
OrganisedCrime	231
OutbreakOfRacialOrTribalOrEthnicWarfare	232
Patrolling	233
PeaceConference	234
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Penetrating	236
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Procuring	245
Protection_Electronic	246
ProvidingAccommodation	247
ProvidingAgriculturalSupport	248
ProvidingBedding	249
ProvidingCamps	250
ProvidingConstructionServices	251
ProvidingDecontaminationServices	252
ProvidingEducationServices	253
ProvidingHealthcareServices	254
ProvidingHostNationSupport	255
ProvidingInfrastructure	256

Enumerator	Value
ProvidingLaundryServices	257
ProvidingRepairServices	258
ProvidingSecurityServices	259
ProvidingShelter	260
ProvidingStorageServices	261
ProvidingTransshipmentServices	262
Proxy-Bombing	263
PsychologicalOperation	264
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Reorganising	283

Enumerator	Value
Repairing	284
Resting	285
Resupplying	286
Retain	287
Retire	288
Revolution	289
Riot	290
Robbery	291
RocketFire	292
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ServingAsABridgeheadForce	301
ServingAsAFlankGuard	302
ServingAsAMainBody	303
ServingAsAnAdvanceGuard	304
ServingAsAnIn-PlaceForce	305
ServingAsARearGuard	306
ServingAsAReserve	307
SettingUp	308
Shooting	309
SniperAttack	310

Enumerator	Value
SpaceAccident	311
Spying	312
StateOfWar	313
Strafing_Aerial	314
Strike	315
Suicide	316
Supporting	317
Suppressing	318
Surrender	319
Surveillance_Electronic	320
SuspensionOfHostilities	321
Terrorism	322
Threaten	323
Torture	324
Transporting	325
Traversing	326
TreatyViolation	327
Troublemaking_Agitating	328
Troublemaking_Bullying	329
Troublemaking_Harassing	330
Troublemaking_Hooliganism	331
Troublemaking_Inciting	332
Troublemaking_Intimidating	333
Turning	334
UnexplodedOrdnanceDiscovery	335
VandalismOrRapeOrLootOrRansackOrPlunderOrSack	336
Verifying	337

Enumerator	Value
VesselSinking	338
VolcanicEruption	339
WarOrCrisisAlert	340
WarOrMilitaryConference	341
WarCrime	342
WeaponFiring	343
Withdrawal	344
WithdrawalUnderPressure	345
Witnessing	346
NotOtherwiseSpecified	347

### DamageStatusEnhancedEnum32

Representation: HLAinteger32BE

Semantics: *The damage status of an object*

Enumerator	Value
NoDamage	0
SlightDamage	1
ModerateDamage	2
SignificantDamage	3
Destroyed	4

### 1.1.3. Array Datatypes

#### Callsign

Element Type: HLAUnicodeChar

Cardinality: Dynamic

Encoding: HLAVariableArray

Semantics: *Unique identifier for an entity. A more user friendly identifier than UUID, used in Logistics protocol for Consumer and Provider.*

#### NETN\_ArrayOfEntityTypeStruct

Element Type: EntityTypeStruct

Cardinality: [1..2147483647]

Encoding: HLAVariableArray

Semantics: *One or more entity types.*

#### UuidArrayOfHLAbyte16

Element Type: HLAbyte

Cardinality: 16

Encoding: HLAfixedArray

Semantics: *16 bytes in the UUID.*

*A universally unique identifier (UUID), standardized by the Open Software Foundation (OSF) as part of the Distributed Computing Environment (DCE).*

*A UUID is a 16-byte (128-bit) number. In its canonical form, a UUID is represented by 32 hexadecimal digits, displayed in five groups separated by hyphens, in the form 8-4-4-4-12 for a total of 36 characters (32 digits and four hyphens). For example:  
550e8400-e29b-41d4-a716-446655440000*

#### ArrayOfUuid

Element Type: [UuidArrayOfHLAbyte16](#)

Cardinality: Dynamic

Encoding: HLVariableArray

Semantics: *Array with UUIDs*

### **NETN\_ArrayOfSupplyStruct**

Element Type: [NETN\\_SupplyStruct](#)

Cardinality: Dynamic

Encoding: HLVariableArray

Semantics: *Array with NETN SupplyStructs*

### **ArrayOfWorldLocationStruct3**

Element Type: WorldLocationStruct

Cardinality: [3..2147483647]

Encoding: HLVariableArray

Semantics: *3 or more locations, specifying a region (area)*

## 1.1.4. Fixed Record Datatypes

### NETN\_EventIdentifier

Encoding: HLAfixedRecord

Semantics: *Uniquely identifies an event from an entity.*

Name	Type	Semantic
EventCount	<a href="#">CounterInt32</a>	<i>EventCount shall be set to one for each exercise and incremented by one for NETN event. In the case where all possible values are exhausted, the numbers may be reused beginning again at one.</i>
IssuingObjectIdentifier	<a href="#">Callsign</a>	<i>Callsign for the entity which issued the event.</i>

### NETN\_SupplyStruct

Encoding: HLAfixedRecord

Semantics: *Same definition as RPR2 SupplyStruct.*

Name	Type	Semantic
SupplyType	EntityTypeStruct	<i>The type of supply (as described in the Bit Encoded Values for Use with Protocols for Distributed Interactive Simulation Applications)</i>
Quantity	<a href="#">QuantityFloat32</a>	<i>The number of units of the supply type. The unit measure depends on the supply type and shall use the SI units of measurement used for such supplies.</i>



## 2. Module NETN-Aggregate\_v1.0.4

### Information

<b>Name:</b>	NETN-Aggregate
<b>Type:</b>	FOM
<b>Version:</b>	1.0
<b>Modification Date:</b>	2014-10-16
<b>Security Classification:</b>	unclassified
<b>Purpose:</b>	
<b>Application Domain:</b>	Training
<b>Description:</b>	Object class from NETN FOM v1, module: AggDeagg
<b>Use Limitation:</b>	
<b>Other:</b>	

### Primary author Point Of Contact

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### References

<b>Dependency</b>	NETN-Base_v1.0
<b>Dependency</b>	RPR-Aggregate_v2.0

### Use History

v1.0.0 - Initial, object class and datatypes from NETN_AggDeagg_v1.0.7_2010 FOM module in NETN FOM v1
V1.0.1 - Changed name on basic data types from RPR2 Base
v1.0.2 - Moved array data type ArrayOfWorldLocation3 to NETN-Base FOM module
v1.0.3 - Updated References, Dependency
v1.0.4 - Fixed misspellings in semantics

**Dependencies**

RPR-Aggregate_v2.0
NETN-Base_v1.0.2
RPR-Base_v2.0
RPR-Enumerations_v2.0
RPR-Foundation_v2.0

2.1. Object Classes



2.1.1. NETN\_Aggregate

Full Name: HLAobjectRoot.BaseEntity.AggregateEntity.NETN\_Aggregate  
Sharing: Publish/Subscribe  
Semantics: Aggregate extensions for NETN  
Attributes:

UnitPersonnel	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	<a href="#">ArrayOfResourceStatus</a>	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	This summarizes the health status of personnel comprising the aggregate.					
Callsign	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	HLAunicodeString	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Static	N/A				
	Semantics					
	The name of the object.					
VisualSignature	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	<a href="#">VisualSignatureStruct</a>	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	Describes the unit's susceptibility to electro-optical detection.					

SourceUnit	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	HLAunicodeString	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	Aggregate from which this aggregate was spawned.					
Mission	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	MissionStruct	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	The operational task the aggregate has been ordered to perform.					
Mounted	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	QuantityFloat64	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	The percentage of aggregate personnel travelling on or in their organic transport.					
UnitSupplies	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	NETN_ArrayOfSupplyStruct	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	The type and quantities of supplies available (on hand) to the unit.					
HigherHeadquarters	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	UuidArrayOfHLAbyte16	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	A pointer to the aggregate's superior unit or headquarters. The highest level unit or headquarters on each side will publish its own UniqueID as its HigherHeadquarters value.					

CombatValue	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	<a href="#">CombatValueFloat64</a>	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	A summary value (in percent) of unit effectiveness based on level of training, leadership, moral, personnel and equipment operational status, etc.					
WeaponsControlOrder	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	<a href="#">WeaponControlOrderEnum8</a>	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	Describes current Weapon Control Order Free, Tight, or Hold.					
SupportUnit	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	<a href="#">SupportRelationshipStruct</a>	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	Identifies unit(s) which support the aggregate logistically, or with a specified combat or combat support relationship, e.g. a Direct Support or General Support Artillery unit.					
Activity	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	<a href="#">AggregateMissionEnum16</a>	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	The current activity of the aggregate. This may differ from the mission due to casualties, readiness, etc.					
Symbol	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	HLAunicodeString	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	The APP6A code for the aggregate.					

CaptureStatus	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	<a href="#">CaptureStatusEnum8</a>	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	The status of an aggregate with respect to its control or influence over its own activities.					
UnitEquipment	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	<a href="#">ArrayOfResourceStatus</a>	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	This summarizes the health status of the equipment comprising the aggregate.					
Echelon	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	<a href="#">EchelonEnum8</a>	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Static	N/A				
	Semantics					
	The level of command of the aggregate.					
HUMINTSignature	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	<a href="#">HUMINTSignatureStruct</a>	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	Describes the unit's susceptibility to human intelligence (HUMINT), i.e. information collected and provided by human sources.					
ElectronicSignature	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	<a href="#">ElectronicSignatureStruct</a>	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	Describes the aggregate's susceptibility to electronic detection both as a summary value and by identifying aggregate sensors together with their operational status.					

Footprint	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	<a href="#">ArrayOfWorldLocationStruct3</a>	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	The region occupied by the aggregate. the region is defined as that bounded by line segments connecting the listed world locations.					
CoverStatus	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	<a href="#">CoverStatusStruct</a>	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	Describes the unit's protection from the effects of weapons fire.					
EntityList	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	<a href="#">EntityListVariableLengthStruct</a>	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	Provides data on entities comprising the aggregate.					
Status	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	<a href="#">ActiveStatusEnum8</a>	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	If an instance shall be taken into account by federates					
UniqueID	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	<a href="#">UuidArrayOfHLAbyte16</a>	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Static	NA				
	Semantics					
	The unique identifier of the object.					

<b>EmbeddedUnitList</b>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	<a href="#">ArrayOfUuid</a>	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The list of objects carried by this aggregate.</i>					
<b>AggregateMarking</b> <i>Inherited from AggregateEntity in RPR-Aggregate_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	AggregateMarkingStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>A unique marking or combination of characters used to distinguish the aggregate from other aggregates.</i>					
<b>AggregateState</b> <i>Inherited from AggregateEntity in RPR-Aggregate_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	AggregateStateEnum8	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>An indicator of the extent of association of objects form an operating group.</i>					
<b>Dimensions</b> <i>Inherited from AggregateEntity in RPR-Aggregate_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	DimensionStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>AggSizeChange</i>				
	<b>Semantics</b>					
	<i>The size of the area covered by the units in the aggregate.</i>					
<b>EntityIdentifiers</b> <i>Inherited from AggregateEntity in RPR-Aggregate_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RTIobjectIdArray	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The identification of entities that are contained within the aggregate.</i>					



<b>ForceIdentifier</b> <i>Inherited from AggregateEntity in RPR-Aggregate_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	ForceIdentifierEnum8	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The identification of the force that the aggregate belongs to.</i>					
<b>Formation</b> <i>Inherited from AggregateEntity in RPR-Aggregate_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	FormationEnum32	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The category of positional arrangement of the entities within the aggregate.</i>					
<b>NumberOfSilentEntities</b> <i>Inherited from AggregateEntity in RPR-Aggregate_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	Integer16	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The number of elements in the SilentEntities list.</i>					
<b>NumberOfVariableDatums</b> <i>Inherited from AggregateEntity in RPR-Aggregate_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	UnsignedInteger32	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The number of records in the VariableDatums structure.</i>					
<b>SilentAggregates</b> <i>Inherited from AggregateEntity in RPR-Aggregate_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	SilentAggregateStructLengthlessArray	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The numbers and types, of silent aggregates contained in the aggregate. Silent aggregates are sub-aggregates that are in the aggregate, but that are not separately represented in the virtual world.</i>					

<b>SilentEntities</b>  <i>Inherited from AggregateEntity in RPR-Aggregate_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	SilentEntityStructLengthlessArray	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The numbers and types, of silent entities in the aggregate. Silent entities are entities that are in the aggregate, but that are not separately represented in the virtual world.</i>					
<b>SubAggregateIdentifiers</b>  <i>Inherited from AggregateEntity in RPR-Aggregate_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RTIObjectIdArray	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The identifications of aggregates represented in the virtual world that are contained in the aggregate.</i>					
<b>VariableDatums</b>  <i>Inherited from AggregateEntity in RPR-Aggregate_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	VariableDatumStructLengthlessArray	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Extra data that describes the aggregate.</i>					
<b>EntityType</b>  <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	EntityTypeStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Static	<i>NA</i>				
	<b>Semantics</b>					
	<i>The category of the entity.</i>					
<b>EntityIdentifier</b>  <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	EntityIdentifierStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Static	<i>NA</i>				
	<b>Semantics</b>					
	<i>The unique identifier for the entity instance.</i>					

<b>IsPartOf</b>  <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	IsPartOfStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Defines if the entity if a constituent part of another entity (denoted the host entity). If the entity is a constituent part of another entity then the HostEntityIdentifier shall be set to the EntityIdentifier of the host entity and the HostRTIObjectIdentifier shall be set to the RTI object instance ID of the host entity. If the entity is not a constituent part of another entity then the HostEntityIdentifier shall be set to 0.0.0 and the HostRTIObjectIdentifier shall be set to the empty string.</i>					
<b>Spatial</b>  <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	SpatialVariantStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i> RPRnoteBase10 RPRnoteBase11 RPRnoteBase12 RPRnoteBase13 RPRnoteBase14				
	<b>Semantics</b>					
	<i>Spatial state stored in one variant record attribute.</i>					
<b>RelativeSpatial</b>  <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	SpatialVariantStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i> RPRnoteBase10 RPRnoteBase11 RPRnoteBase12 RPRnoteBase13 RPRnoteBase14				
	<b>Semantics</b>					
	<i>Relative spatial state stored in one variant record attribute.</i>					
<b>HLAprivilegeToDeleteObject</b>  <i>Inherited from HLAobjectRoot in MIM</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	HLAtoken	PS	DA	TS	HLAreliable	
	<b>Update type</b>	<b>Update Condition</b>				
	Static	NA				
	<b>Semantics</b>					

## **2.2. Datatypes**

### **2.2.1. Simple Datatypes**

#### **FacingDegreesFloat32**

Representation: HLAfloat32BE

Units: degrees

Resolution: NA

Accuracy: perfect

Semantics:

#### **RangeFloat32**

Representation: HLAfloat32BE

Units: meters

Resolution: NA

Accuracy: perfect

Semantics: Range of sensor

#### **CombatValueFloat64**

Representation: HLAfloat64BE

Units: percent

Resolution: NA

Accuracy: NA

Semantics: Percent of unit effectiveness

#### **QuantityFloat64**

Representation: HLAfloat64BE

Units: NA

Resolution: NA

Accuracy: NA

Semantics:        The number of units

### **PercentageUint32**

Representation:   RPRunsignedInteger32BE

Units:            percent

Resolution:       1

Accuracy:        perfect

Semantics:        A simple datatype using units of percent.

## 2.2.2. Enumerated Datatypes

### WeaponControlOrderEnum8

Representation: HLAoctet

Semantics: *The enumerations for weapon control*

Enumerator	Value
WeaponsFree	1
WeaponsHold	3
Other	0
WeaponsTight	2

### CaptureStatusEnum8

Representation: HLAoctet

Semantics: *The status of a person or unit with respect to their control or influence over their own activities*

Enumerator	Value
Not-Captured	1
Captured	2
AttemptingSurrender	3
Other	0

### EchelonEnum8

Representation: HLAoctet

Semantics: *The specific value that represents the relative size of the commonly accepted configuration of military formations (from JC3IEDM echelon-size-code)*

Enumerator	Value
Army	1
ArmyGroup	2
Battalion	3

Enumerator	Value
BattalionGroup	4
BattleGroup	5
Brigade	6
BrigadeGroup	7
Company	8
CompanyGroup	9
Corps	10
Division	11
Fleet	12
Flight	13
Platoon	14
Regiment	15
Region	16
Section	17
Squad	18
SquadronAir	19
SquadronMaritime	20
TaskElementNavy	21
TaskForceNavy	22
TaskGroupNavy	23
TaskUnitNavy	24
TeamFireteamCrew	25
Wing	26
NotKnown	27
NotOtherwiseSpecified	28

## SupportRelationshipEnum8

Representation: HLAoctet

Semantics: *Enumeration of different support relationships*

Enumerator	Value
Engineering	5
GeneralSupportArtillery	4
Logistics	1
Other	0
DirectSupportArtillery	2
DirectSupportReinforcingArtillery	3

**CoverEnum8**

Representation: HLAoctet

Semantics: *The type of cover utilized by an aggregate*

Enumerator	Value
StrongPoints	5
FightingPositionsWithOverheadCover	4
CrewServedWeaponsPositions	3
Other	0
HastyFightingPositions	1
IndividualFightingPositions	2

**EntityCategoryEnum32**

Representation: RPRunsignedInteger32BE

Semantics: *Category of entity*

Enumerator	Value
Invalid	0
EquipmentEntity	1
PersonnelEntity	2



Enumerator	Value
EmitterEntity	3
RadioEntity	4

## ConcealmentEnum32

Representation: RPRunsignedInteger32BE

Semantics: *The reason for the objects concealment*

Enumerator	Value
Invalid	0
InOpen	1
MountedInternally	2
MountedExternally	3
UnderNet	4
UnderGround	5
InsideStructure	6
FightingPositionCovered	7
FightingPositionUncovered	8

## UpdateTypeEnum32

Representation: RPRunsignedInteger32BE

Semantics: *Used to create, change, or delete an EntityList.*

Enumerator	Value
Invalid	0
Create	1
Update	2
Addition	3
Delete	4

SensorStateEnum32

Representation: RPRunsignedInteger32BE  
Semantics: *The emission states of aggregate sensors*

Enumerator	Value
OnButNotEmitting	2
Off	1
Other	0
OnAndEmitting	3

### 2.2.3. Array Datatypes

#### ArrayOfResourceStatus

Element Type: [ResourceStatusNumberStruct](#)

Cardinality: [1..2147483647]

Encoding: HLVariableArray

Semantics: *The array of health states for a named resource.*

#### ArrayOfEntityStruct

Element Type: [EntityStruct](#)

Cardinality: [1..2147483647]

Encoding: HLVariableArray

Semantics: *Data for one or more entities that comprise an entity list.*

#### ArrayOfSensorStruct

Element Type: [SensorStruct](#)

Cardinality: [1..2147483647]

Encoding: HLVariableArray

Semantics: *Array with definitio0ns of sensors, 1+ cardinality*

## 2.2.4. Fixed Record Datatypes

### VisualSignatureStruct

Encoding: HLAfixedRecord

Semantics:

Name	Type	Semantic
DVOSignaturePercent	<a href="#">PercentageUInt32</a>	<i>A summary percentage of an aggregates susceptibility to detection by direct view optics, i.e. the human eye, binoculars, or telescopes. A unit with zero percent signature would be concealed from DVO detection.</i>
I2SignaturePercent	<a href="#">PercentageUInt32</a>	<i>A summary percentage of an aggregates susceptibility to detection by Image Intensifying sensors. A unit with zero percent signature would be invisible to image intensifiers (I2).</i>
ThermalSignaturePercent	<a href="#">PercentageUInt32</a>	<i>A summary percentage of an aggregates susceptibility to detection by thermal sensors. A unit with zero percent signature would be invisible to thermal sensors.</i>

### MissionStruct

Encoding: HLAfixedRecord

Semantics: *The operational task the aggregate has been ordered to perform, the time the mission was assigned, and the estimated completion time.*

Name	Type	Semantic
StartTime	<a href="#">TimeSecInt64</a>	<i>An optional field providing the mission start time</i>
EndTime	<a href="#">TimeSecInt64</a>	<i>An optional field providing the mission estimated end time</i>
MissionEnum	<a href="#">AggregateMissionEnum16</a>	<i>The mission assigned to the aggregate</i>

### SupportRelationshipStruct

Encoding: HLAfixedRecord

Semantics: *Identifies unit(s) which support the aggregate logistically, or with a specified combat or combat support relationship, e.g. a Direct Support or General Support Artillery unit.*

Name	Type	Semantic
SupportConsumer	<a href="#">UuidArrayOfHLAbyte16</a>	<i>The unique ID of the consumer of the support.</i>

Name	Type	Semantic
SupportProvider	<a href="#">UuidArrayOfHLAbyte16</a>	<i>The unique ID of the provider of the support.</i>
SupportType	<a href="#">SupportRelationshipEnum8</a>	<i>The type of support provided by the supporting unit.</i>

## HUMINTSignatureStruct

Encoding: HLAfixedRecord

Semantics: *Describes the unit's susceptibility to human intelligence (HUMINT), i.e. information collected and provided by human sources.*

Name	Type	Semantic
HUMINTSignaturePercent	<a href="#">PercentageUInt32</a>	<i>A summary percentage of an aggregates susceptibility to detection by human intelligence collectors. Zero percent signature means an aggregate is impervious to HUMINT.</i>

## ElectronicSignatureStruct

Encoding: HLAfixedRecord

Semantics: *A summary percentage of an aggregates susceptibility to detection of its electronic emissions. Zero percent means that the aggregate has no electronic emissions.*

Name	Type	Semantic
ElectronicSignaturePercent	<a href="#">PercentageUInt32</a>	<i>A summary percentage of an aggregates susceptibility to detection of its electronic emissions. Zero percent means that the aggregate has no electronic emissions.</i>
SensorArray	<a href="#">ArrayOfSensorStruct</a>	<i>A list of sensors owned by the aggregate together with their respective operational status and range</i>

## CoverStatusStruct

Encoding: HLAfixedRecord

Semantics:

Name	Type	Semantic
CoverStatusPercent	<a href="#">PercentageUInt32</a>	<i>The percentage of protection enjoyed by an aggregate. A unit with 100 percent cover would be impervious to the effects of weapons fire</i>
CoverTypeEnum	<a href="#">CoverEnum8</a>	<i>An optional field describing the type of cover employed by the aggregate</i>

## EntityListVariableLengthStruct

Encoding: HLAfixedRecord

Semantics: *Provides data on one or more entities comprising the aggregate. This includes the initial list of all entities and subsequent updates as entities on the list experience change.*

Name	Type	Semantic
UpdateType	<a href="#">UpdateTypeEnum32</a>	<i>Indicates whether this update creates the list or modifies its' values</i>
EntityList	<a href="#">ArrayOfEntityStruct</a>	<i>Data about one or more entities comprising the list.</i>

## ResourceStatusNumberStruct

Encoding: HLAfixedRecord

Semantics: *The name of a resource and the number of instances of that resource by health status.*

Name	Type	Semantic
NumberHealthyOrIntact	<a href="#">QuantityFloat64</a>	<i>The number of healthy or intact resources</i>
NumberSlightlyDamaged	<a href="#">QuantityFloat64</a>	<i>The number of slightly damaged resources</i>
NumberModeratelyDamaged	<a href="#">QuantityFloat64</a>	<i>The number of moderately damaged resources</i>
NumberSignificantlyDamaged	<a href="#">QuantityFloat64</a>	<i>The number of significantly damaged resources</i>
NumberDestroyed	<a href="#">QuantityFloat64</a>	<i>The number of destroyed or consumed resources</i>
ResourceName	HLAUnicodeString	<i>The name of the resource</i>

## EntityStruct

Encoding: HLAfixedRecord

Semantics: *An entity represented to the federation as part of the aggregate object which owns it.*

Name	Type	Semantic
Callsign	HLAUnicodeString	<i>The unique identifier of the object.</i>
EntityCategory	<a href="#">EntityCategoryEnum32</a>	<i>Indicates whether the entity is equipment, person, emitter, etc.</i>
EntityStatus	<a href="#">DamageStatusEnhancedEnum32</a>	<i>The damage state of the entity.</i>
IsDistinctObject	RPRboolean	<i>OPTIONAL. A BaseEntity object has been created to represent this entity (true) or not (false). Default is false.</i>

Name	Type	Semantic
IsUnavailable	RPRboolean	<i>OPTIONAL. This entity is in use by another object (true) or not (false). Default is false.</i>
Facing	<a href="#">FacingDegreesFloat32</a>	<i>OPTIONAL. Direction is measured in degrees clockwise from orientation of unit. Default is 0.</i>
Concealment	<a href="#">ConcealmentEnum32</a>	<i>OPTIONAL. Indicates whether the entity is concealed and, if so, how</i>
OffsetLocation	RelativePositionStruct	<i>The entity location given as an offset from the location of the aggregate unit in meters.</i>

## SensorStruct

Encoding: HLAfixedRecord

Semantics: *Defines a sensor, operational status, damage status, coverage and ID*

Name	Type	Semantic
SensorStateEnum	<a href="#">SensorStateEnum32</a>	<i>The operational status of the sensor</i>
SensorDamageState	DamageStatusEnum32	<i>The damage status of the sensor</i>
SensorCoverage	<a href="#">RangeFloat32</a>	<i>The maximum range of the sensor</i>
SensorID	HLAUnicodeString	<i>A sensor owned by the aggregate</i>

## 3. Module NETN-Physical\_v1.1.2

### Information

<b>Name:</b>	NETN-Physical
<b>Type:</b>	FOM
<b>Version:</b>	v1.1.2
<b>Modification Date:</b>	2014-09-25
<b>Security Classification:</b>	unclassified
<b>Purpose:</b>	
<b>Application Domain:</b>	Training
<b>Description:</b>	Object class inherit from RPR Physical. Object classes and datatypes from NETN FOM v1, module: AggDeagg
<b>Use Limitation:</b>	
<b>Other:</b>	

### Primary author Point Of Contact

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### References

<b>Dependency</b>	NETN-Base_v1.1
<b>Dependency</b>	RPR2-Physical_v2.0

### Use History

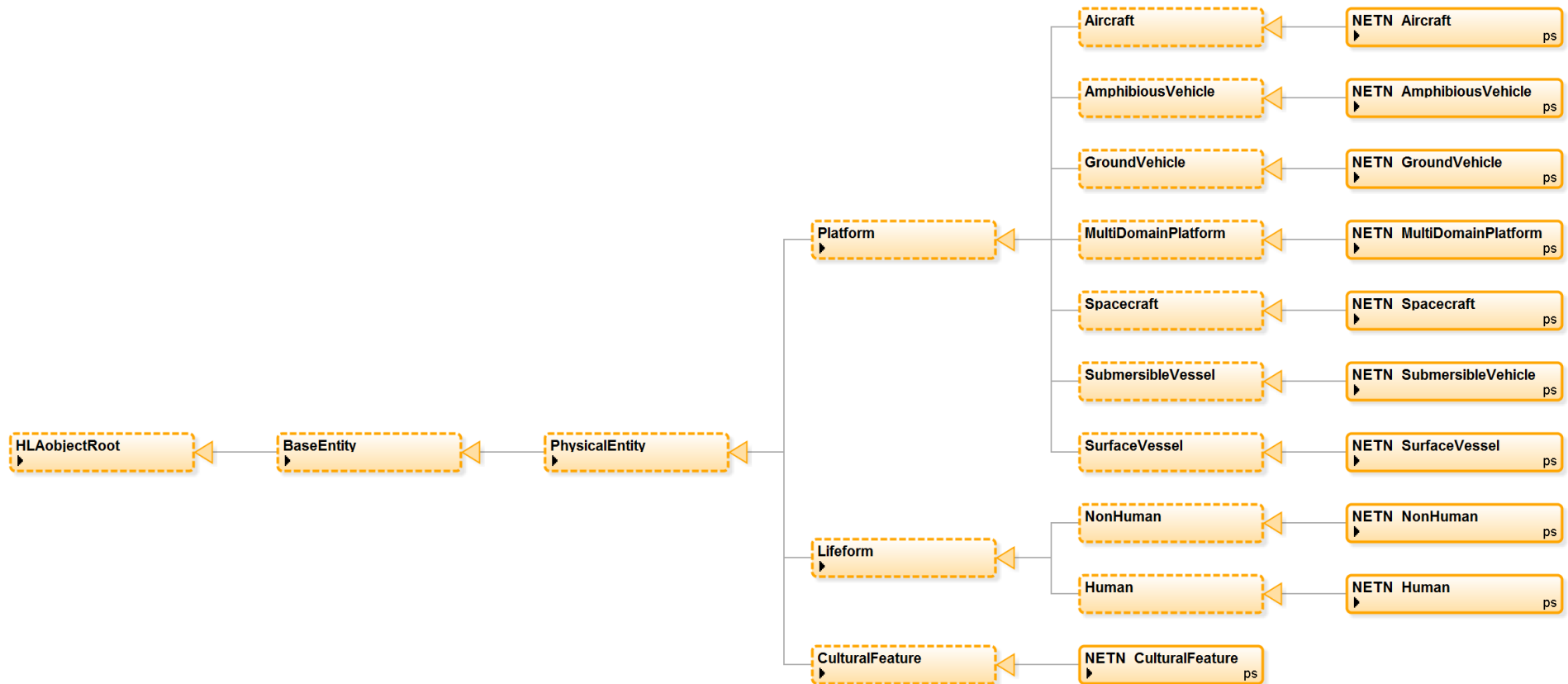
v1.0.0 - Initial, object classes and datatypes from FOM modules in NETN FOM v1
v1.1.0 - Added object class NETN_CulturalFeature
v1.1.1 - Updated References, Dependency
v1.1.2 - Update of semantics, spell corrections



**Dependencies**

RPR-Physical_v2.0
NETN-Base_v1.0.2
RPR-Base_v2.0
RPR-Enumerations_v2.0
RPR-Foundation_v2.0

### 3.1. Object Classes



#### 3.1.1. NETN\_Aircraft

Full Name: HLAObjectRoot.BaseEntity.PhysicalEntity.Platform.Aircraft.NETN\_Aircraft

Sharing: Publish/Subscribe

Semantics: *Extensions for NETN*

Attributes:

Callsign	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	HLAunicodeString	PS		RO	HLAbestEffort	
	Update type	Update Condition				
	Static	N/A				
	Semantics					
	The name of the object.					
Status	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	<a href="#">ActiveStatusEnum8</a>	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	If an instance shall be taken into account by federates					
Activity	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	<a href="#">AggregateMissionEnum16</a>	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	The activity of the object.					
EmbeddedUnitList	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	<a href="#">ArrayOfUuid</a>	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	List of unique IDs of on-board elements.					

UniqueID	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	UuidArrayOfHLAbyte16	PS		RO	HLAbestEffort	
	Update type	Update Condition				
	Static	NA				
	Semantics					
	The unique identifier of the object. Required value. If not assigned by the ORBAT specification or similar, shall a value be assigned, either randomized or generated from the Marking or EntityIdentifier attribute value.					
AfterburnerOn  Inherited from Platform in RPR-Physical_v2.0	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	RPRboolean	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	Whether the entity's afterburner is on or not.					
AntiCollisionLightsOn  Inherited from Platform in RPR-Physical_v2.0	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	RPRboolean	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	Whether the entity's anti-collision lights are on or not.					
BlackOutBrakeLightsOn  Inherited from Platform in RPR-Physical_v2.0	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	RPRboolean	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	Whether the entity's black out brake lights are on or not.					

<b>BlackOutLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's black out lights are on or not.</i>					
<b>BrakeLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's brake lights are on or not.</i>					
<b>FormationLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's formation lights are on or not.</i>					
<b>HatchState</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	HatchStateEnum32	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The state of the entity's (main) hatch.</i>					
<b>HeadLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's headlights are on or not.</i>					

<b>InteriorLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's internal lights are on or not.</i>					
<b>LandingLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's landing lights are on or not.</i>					
<b>LauncherRaised</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's weapon launcher is in the raised position.</i>					
<b>NavigationLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's navigation lights are on or not.</i>					
<b>RampDeployed</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has deployed a ramp or not.</i>					

<b>RunningLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's running lights are on or not.</i>					
<b>SpotLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's spotlights are on or not.</i>					
<b>TailLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's tail lights are on or not.</i>					
<b>AcousticSignatureIndex</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	Integer16	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Index used to obtain the acoustics (sound through air) signature state of the entity.</i>					
<b>AlternateEntityType</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	EntityTypeStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Static	NA				
	<b>Semantics</b>					
	<i>The category of entity to be used when viewed by entities on the 'opposite' side.</i>					

<b>ArticulatedParametersArray</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	ArticulatedParameterStructLengthlessArray	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Identification of the visible parts, and their states, of the entity which are capable of independent motion.</i>					
<b>CamouflageType</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	CamouflageEnum32	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The type of camouflage in use (if any).</i>					
<b>DamageState</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	DamageStatusEnum32	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The state of damage of the entity.</i>					
<b>EngineSmokeOn</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's engine is generating smoke or not.</i>					
<b>FirePowerDisabled</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's main weapon system has been disabled or not.</i>					



<b>FlamesPresent</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity is on fire (with visible flames) or not.</i>					
<b>ForceIdentifier</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	ForceIdentifierEnum8	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The identification of the force that the entity belongs to.</i>					
<b>HasAmmunitionSupplyCap</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has the capability to supply other entities with ammunition.</i>					
<b>HasFuelSupplyCap</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has the capability to supply other entities with fuel or not.</i>					
<b>HasRecoveryCap</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has the capability to recover other entities or not.</i>					

<b>HasRepairCap</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has the capability to repair other entities or not.</i>					
<b>Immobilized</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity is immobilized or not.</i>					
<b>InfraredSignatureIndex</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	Integer16	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Index used to obtain the infra-red signature state of the entity.</i>					
<b>IsConcealed</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity is concealed or not.</i>					
<b>LiveEntityMeasuredSpeed</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	VelocityDecimeterPerSecondInteger16	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The entity's own measurement of speed (e.g. air speed for aircraft).</i>					

<b>Marking</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	MarkingStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>A unique marking or combination of characters used to distinguish the entity from other entities.</i>					
<b>PowerPlantOn</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's power plant is on or not.</i>					
<b>PropulsionSystemsData</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	PropulsionSystemDataStructLengthlessArray	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The basic operating data of the propulsion systems aboard the entity.</i>					
<b>RadarCrossSectionSignatureIndex</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	Integer16	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Index used to obtain the radar cross section signature state of the entity.</i>					
<b>SmokePlumePresent</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity is generating smoke or not (intentional or unintentional).</i>					

<b>TentDeployed</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has deployed tent or not.</i>					
<b>TrailingEffectsCode</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	TrailingEffectsCodeEnum32	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The type and size of any trail that the entity is making.</i>					
<b>VectoringNozzleSystemData</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	VectoringNozzleSystemDataStructLengthlessArray	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The basic operational data for the vectoring nozzle systems aboard the entity.</i>					
<b>EntityType</b> <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	EntityTypeStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Static	<i>NA</i>				
	<b>Semantics</b>					
	<i>The category of the entity.</i>					
<b>EntityIdentifier</b> <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	EntityIdentifierStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Static	<i>NA</i>				
	<b>Semantics</b>					
	<i>The unique identifier for the entity instance.</i>					

<b>IsPartOf</b>  <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	IsPartOfStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Defines if the entity if a constituent part of another entity (denoted the host entity). If the entity is a constituent part of another entity then the HostEntityIdentifier shall be set to the EntityIdentifier of the host entity and the HostRTIObjectIdentifier shall be set to the RTI object instance ID of the host entity. If the entity is not a constituent part of another entity then the HostEntityIdentifier shall be set to 0.0.0 and the HostRTIObjectIdentifier shall be set to the empty string.</i>					
<b>Spatial</b>  <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	SpatialVariantStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i> RPRnoteBase10 RPRnoteBase11 RPRnoteBase12 RPRnoteBase13 RPRnoteBase14				
	<b>Semantics</b>					
	<i>Spatial state stored in one variant record attribute.</i>					
<b>RelativeSpatial</b>  <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	SpatialVariantStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i> RPRnoteBase10 RPRnoteBase11 RPRnoteBase12 RPRnoteBase13 RPRnoteBase14				
	<b>Semantics</b>					
	<i>Relative spatial state stored in one variant record attribute.</i>					
<b>HLAprivilegeToDeleteObject</b>  <i>Inherited from HLAobjectRoot in MIM</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	HLAtoken	PS	DA	TS	HLAreliable	
	<b>Update type</b>	<b>Update Condition</b>				
	Static	NA				
	<b>Semantics</b>					

### 3.1.2. NETN\_AmphibiousVehicle

Full Name: HLAobjectRoot.BaseEntity.PhysicalEntity.Platform.AmphibiousVehicle.NETN\_AmphibiousVehicle

Sharing: Publish/Subscribe

Semantics: *Extensions for NETN*

## Attributes:

Callsign	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	HLAunicodeString	PS		RO	HLAbestEffort	
	Update type	Update Condition				
	Static	N/A				
	Semantics					
	The name of the object.					
Status	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	<a href="#">ActiveStatusEnum8</a>	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	If an instance shall be taken into account by federates					
Activity	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	<a href="#">AggregateMissionEnum16</a>	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	The activity of the object.					
EmbeddedUnitList	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	<a href="#">ArrayOfUuid</a>	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	List of unique IDs of on-board elements					

UniqueID	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	UuidArrayOfHLAbyte16	PS		RO	HLAbestEffort	
	Update type	Update Condition				
	Static	NA				
	Semantics					
	The unique identifier of the object. Required value. If not assigned by the ORBAT specification or similar, shall a value be assigned, either randomized or generated from the Marking or EntityIdentifier attribute value.					
AfterburnerOn  Inherited from Platform in RPR-Physical_v2.0	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	RPRboolean	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	Whether the entity's afterburner is on or not.					
AntiCollisionLightsOn  Inherited from Platform in RPR-Physical_v2.0	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	RPRboolean	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	Whether the entity's anti-collision lights are on or not.					
BlackOutBrakeLightsOn  Inherited from Platform in RPR-Physical_v2.0	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	RPRboolean	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	Whether the entity's black out brake lights are on or not.					

<b>BlackOutLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's black out lights are on or not.</i>					
<b>BrakeLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's brake lights are on or not.</i>					
<b>FormationLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's formation lights are on or not.</i>					
<b>HatchState</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	HatchStateEnum32	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The state of the entity's (main) hatch.</i>					
<b>HeadLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's headlights are on or not.</i>					



<b>InteriorLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's internal lights are on or not.</i>					
<b>LandingLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's landing lights are on or not.</i>					
<b>LauncherRaised</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's weapon launcher is in the raised position.</i>					
<b>NavigationLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's navigation lights are on or not.</i>					
<b>RampDeployed</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has deployed a ramp or not.</i>					

<b>RunningLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's running lights are on or not.</i>					
<b>SpotLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's spotlights are on or not.</i>					
<b>TailLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's tail lights are on or not.</i>					
<b>AcousticSignatureIndex</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	Integer16	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Index used to obtain the acoustics (sound through air) signature state of the entity.</i>					
<b>AlternateEntityType</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	EntityTypeStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Static	NA				
	<b>Semantics</b>					
	<i>The category of entity to be used when viewed by entities on the 'opposite' side.</i>					

<b>ArticulatedParametersArray</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	ArticulatedParameterStructLengthlessArray	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Identification of the visible parts, and their states, of the entity which are capable of independent motion.</i>					
<b>CamouflageType</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	CamouflageEnum32	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The type of camouflage in use (if any).</i>					
<b>DamageState</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	DamageStatusEnum32	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The state of damage of the entity.</i>					
<b>EngineSmokeOn</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's engine is generating smoke or not.</i>					
<b>FirePowerDisabled</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's main weapon system has been disabled or not.</i>					

<b>FlamesPresent</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity is on fire (with visible flames) or not.</i>					
<b>ForceIdentifier</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	ForceIdentifierEnum8	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The identification of the force that the entity belongs to.</i>					
<b>HasAmmunitionSupplyCap</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has the capability to supply other entities with ammunition.</i>					
<b>HasFuelSupplyCap</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has the capability to supply other entities with fuel or not.</i>					
<b>HasRecoveryCap</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has the capability to recover other entities or not.</i>					

<b>HasRepairCap</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has the capability to repair other entities or not.</i>					
<b>Immobilized</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity is immobilized or not.</i>					
<b>InfraredSignatureIndex</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	Integer16	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Index used to obtain the infra-red signature state of the entity.</i>					
<b>IsConcealed</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity is concealed or not.</i>					
<b>LiveEntityMeasuredSpeed</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	VelocityDecimeterPerSecondInteger16	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The entity's own measurement of speed (e.g. air speed for aircraft).</i>					

<b>Marking</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	MarkingStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>A unique marking or combination of characters used to distinguish the entity from other entities.</i>					
<b>PowerPlantOn</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's power plant is on or not.</i>					
<b>PropulsionSystemsData</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	PropulsionSystemDataStructLengthlessArray	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The basic operating data of the propulsion systems aboard the entity.</i>					
<b>RadarCrossSectionSignatureIndex</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	Integer16	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Index used to obtain the radar cross section signature state of the entity.</i>					
<b>SmokePlumePresent</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity is generating smoke or not (intentional or unintentional).</i>					

<b>TentDeployed</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has deployed tent or not.</i>					
<b>TrailingEffectsCode</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	TrailingEffectsCodeEnum32	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The type and size of any trail that the entity is making.</i>					
<b>VectoringNozzleSystemData</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	VectoringNozzleSystemDataStructLengthlessArray	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The basic operational data for the vectoring nozzle systems aboard the entity.</i>					
<b>EntityType</b> <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	EntityTypeStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Static	<i>NA</i>				
	<b>Semantics</b>					
	<i>The category of the entity.</i>					
<b>EntityIdentifier</b> <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	EntityIdentifierStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Static	<i>NA</i>				
	<b>Semantics</b>					
	<i>The unique identifier for the entity instance.</i>					

<b>IsPartOf</b>  <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	IsPartOfStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Defines if the entity if a constituent part of another entity (denoted the host entity). If the entity is a constituent part of another entity then the HostEntityIdentifier shall be set to the EntityIdentifier of the host entity and the HostRTIObjectIdentifier shall be set to the RTI object instance ID of the host entity. If the entity is not a constituent part of another entity then the HostEntityIdentifier shall be set to 0.0.0 and the HostRTIObjectIdentifier shall be set to the empty string.</i>					
<b>Spatial</b>  <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	SpatialVariantStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i> RPRnoteBase10 RPRnoteBase11 RPRnoteBase12 RPRnoteBase13 RPRnoteBase14				
	<b>Semantics</b>					
	<i>Spatial state stored in one variant record attribute.</i>					
<b>RelativeSpatial</b>  <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	SpatialVariantStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i> RPRnoteBase10 RPRnoteBase11 RPRnoteBase12 RPRnoteBase13 RPRnoteBase14				
	<b>Semantics</b>					
	<i>Relative spatial state stored in one variant record attribute.</i>					
<b>HLAprivilegeToDeleteObject</b>  <i>Inherited from HLAobjectRoot in MIM</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	HLAtoken	PS	DA	TS	HLAreliable	
	<b>Update type</b>	<b>Update Condition</b>				
	Static	NA				
	<b>Semantics</b>					

### 3.1.3. NETN\_GroundVehicle

Full Name: HLAobjectRoot.BaseEntity.PhysicalEntity.Platform.GroundVehicle.NETN\_GroundVehicle

Sharing: Publish/Subscribe

Semantics: *Extensions for NETN*



Attributes:

Callsign	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	HLAunicodeString	PS		RO	HLAbestEffort	
	Update type	Update Condition				
	Static	NA				
	Semantics					
	The name of the object.					
Status	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	<a href="#">ActiveStatusEnum8</a>	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	If an instance shall be taken into account by federates					
Activity	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	<a href="#">AggregateMissionEnum16</a>	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	The activity of the object.					
EmbeddedUnitList	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	<a href="#">ArrayOfUuid</a>	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	List of unique IDs of on-board elements					

UniqueID	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	UuidArrayOfHLAbyte16	PS		RO	HLAbestEffort	
	Update type	Update Condition				
	Static	NA				
	Semantics					
	The unique identifier of the object. Required value. If not assigned by the ORBAT specification or similar, shall a value be assigned, either randomized or generated from the Marking or EntityIdentifier attribute value.					
AfterburnerOn  Inherited from Platform in RPR-Physical_v2.0	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	RPRboolean	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	Whether the entity's afterburner is on or not.					
AntiCollisionLightsOn  Inherited from Platform in RPR-Physical_v2.0	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	RPRboolean	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	Whether the entity's anti-collision lights are on or not.					
BlackOutBrakeLightsOn  Inherited from Platform in RPR-Physical_v2.0	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	RPRboolean	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	Whether the entity's black out brake lights are on or not.					

<b>BlackOutLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's black out lights are on or not.</i>					
<b>BrakeLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's brake lights are on or not.</i>					
<b>FormationLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's formation lights are on or not.</i>					
<b>HatchState</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	HatchStateEnum32	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The state of the entity's (main) hatch.</i>					
<b>HeadLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's headlights are on or not.</i>					

<b>InteriorLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's internal lights are on or not.</i>					
<b>LandingLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's landing lights are on or not.</i>					
<b>LauncherRaised</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's weapon launcher is in the raised position.</i>					
<b>NavigationLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's navigation lights are on or not.</i>					
<b>RampDeployed</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has deployed a ramp or not.</i>					

<b>RunningLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's running lights are on or not.</i>					
<b>SpotLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's spotlights are on or not.</i>					
<b>TailLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's tail lights are on or not.</i>					
<b>AcousticSignatureIndex</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	Integer16	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Index used to obtain the acoustics (sound through air) signature state of the entity.</i>					
<b>AlternateEntityType</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	EntityTypeStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Static	NA				
	<b>Semantics</b>					
	<i>The category of entity to be used when viewed by entities on the 'opposite' side.</i>					

<b>ArticulatedParametersArray</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	ArticulatedParameterStructLengthlessArray	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Identification of the visible parts, and their states, of the entity which are capable of independent motion.</i>					
<b>CamouflageType</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	CamouflageEnum32	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The type of camouflage in use (if any).</i>					
<b>DamageState</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	DamageStatusEnum32	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The state of damage of the entity.</i>					
<b>EngineSmokeOn</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's engine is generating smoke or not.</i>					
<b>FirePowerDisabled</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's main weapon system has been disabled or not.</i>					

<b>FlamesPresent</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity is on fire (with visible flames) or not.</i>					
<b>ForceIdentifier</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	ForceIdentifierEnum8	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The identification of the force that the entity belongs to.</i>					
<b>HasAmmunitionSupplyCap</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has the capability to supply other entities with ammunition.</i>					
<b>HasFuelSupplyCap</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has the capability to supply other entities with fuel or not.</i>					
<b>HasRecoveryCap</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has the capability to recover other entities or not.</i>					

<b>HasRepairCap</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has the capability to repair other entities or not.</i>					
<b>Immobilized</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity is immobilized or not.</i>					
<b>InfraredSignatureIndex</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	Integer16	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Index used to obtain the infra-red signature state of the entity.</i>					
<b>IsConcealed</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity is concealed or not.</i>					
<b>LiveEntityMeasuredSpeed</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	VelocityDecimeterPerSecondInteger16	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The entity's own measurement of speed (e.g. air speed for aircraft).</i>					



<b>Marking</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	MarkingStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>A unique marking or combination of characters used to distinguish the entity from other entities.</i>					
<b>PowerPlantOn</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's power plant is on or not.</i>					
<b>PropulsionSystemsData</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	PropulsionSystemDataStructLengthlessArray	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The basic operating data of the propulsion systems aboard the entity.</i>					
<b>RadarCrossSectionSignatureIndex</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	Integer16	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Index used to obtain the radar cross section signature state of the entity.</i>					
<b>SmokePlumePresent</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity is generating smoke or not (intentional or unintentional).</i>					

<b>TentDeployed</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has deployed tent or not.</i>					
<b>TrailingEffectsCode</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	TrailingEffectsCodeEnum32	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The type and size of any trail that the entity is making.</i>					
<b>VectoringNozzleSystemData</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	VectoringNozzleSystemDataStructLengthlessArray	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The basic operational data for the vectoring nozzle systems aboard the entity.</i>					
<b>EntityType</b>  <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	EntityTypeStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Static	<i>NA</i>				
	<b>Semantics</b>					
	<i>The category of the entity.</i>					
<b>EntityIdentifier</b>  <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	EntityIdentifierStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Static	<i>NA</i>				
	<b>Semantics</b>					
	<i>The unique identifier for the entity instance.</i>					

<b>IsPartOf</b>  <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	IsPartOfStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Defines if the entity if a constituent part of another entity (denoted the host entity). If the entity is a constituent part of another entity then the HostEntityIdentifier shall be set to the EntityIdentifier of the host entity and the HostRTIObjectIdentifier shall be set to the RTI object instance ID of the host entity. If the entity is not a constituent part of another entity then the HostEntityIdentifier shall be set to 0.0.0 and the HostRTIObjectIdentifier shall be set to the empty string.</i>					
<b>Spatial</b>  <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	SpatialVariantStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i> RPRnoteBase10 RPRnoteBase11 RPRnoteBase12 RPRnoteBase13 RPRnoteBase14				
	<b>Semantics</b>					
	<i>Spatial state stored in one variant record attribute.</i>					
<b>RelativeSpatial</b>  <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	SpatialVariantStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i> RPRnoteBase10 RPRnoteBase11 RPRnoteBase12 RPRnoteBase13 RPRnoteBase14				
	<b>Semantics</b>					
	<i>Relative spatial state stored in one variant record attribute.</i>					
<b>HLAprivilegeToDeleteObject</b>  <i>Inherited from HLAobjectRoot in MIM</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	HLAtoken	PS	DA	TS	HLAreliable	
	<b>Update type</b>	<b>Update Condition</b>				
	Static	NA				
	<b>Semantics</b>					

### 3.1.4. NETN\_MultiDomainPlatform

Full Name: HLAobjectRoot.BaseEntity.PhysicalEntity.Platform.MultiDomainPlatform.NETN\_MultiDomainPlatform

Sharing: Publish/Subscribe

Semantics: *Extensions for NETN*

## Attributes:

Callsign	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	HLAunicodeString	PS		RO	HLAbestEffort	
	Update type	Update Condition				
	Static	NA				
	Semantics					
	The name of the object.					
Status	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	<a href="#">ActiveStatusEnum8</a>	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	If an instance shall be taken into account by federates					
Activity	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	<a href="#">AggregateMissionEnum16</a>	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	The activity of the object.					
EmbeddedUnitList	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	<a href="#">ArrayOfUuid</a>	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	List of unique IDs of on-board elements					

UniqueID	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	UuidArrayOfHLAbyte16	PS		RO	HLAbestEffort	
	Update type	Update Condition				
	Static	NA				
	Semantics					
	The unique identifier of the object. Required value. If not assigned by the ORBAT specification or similar, shall a value be assigned, either randomized or generated from the Marking or EntityIdentifier attribute value.					
AfterburnerOn  Inherited from Platform in RPR-Physical_v2.0	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	RPRboolean	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	Whether the entity's afterburner is on or not.					
AntiCollisionLightsOn  Inherited from Platform in RPR-Physical_v2.0	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	RPRboolean	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	Whether the entity's anti-collision lights are on or not.					
BlackOutBrakeLightsOn  Inherited from Platform in RPR-Physical_v2.0	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	RPRboolean	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	Whether the entity's black out brake lights are on or not.					

<b>BlackOutLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's black out lights are on or not.</i>					
<b>BrakeLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's brake lights are on or not.</i>					
<b>FormationLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's formation lights are on or not.</i>					
<b>HatchState</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	HatchStateEnum32	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The state of the entity's (main) hatch.</i>					
<b>HeadLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's headlights are on or not.</i>					

<b>InteriorLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's internal lights are on or not.</i>					
<b>LandingLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's landing lights are on or not.</i>					
<b>LauncherRaised</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's weapon launcher is in the raised position.</i>					
<b>NavigationLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's navigation lights are on or not.</i>					
<b>RampDeployed</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has deployed a ramp or not.</i>					

<b>RunningLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's running lights are on or not.</i>					
<b>SpotLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's spotlights are on or not.</i>					
<b>TailLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's tail lights are on or not.</i>					
<b>AcousticSignatureIndex</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	Integer16	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Index used to obtain the acoustics (sound through air) signature state of the entity.</i>					
<b>AlternateEntityType</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	EntityTypeStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Static	NA				
	<b>Semantics</b>					
	<i>The category of entity to be used when viewed by entities on the 'opposite' side.</i>					



<b>ArticulatedParametersArray</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	ArticulatedParameterStructLengthlessArray	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Identification of the visible parts, and their states, of the entity which are capable of independent motion.</i>					
<b>CamouflageType</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	CamouflageEnum32	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The type of camouflage in use (if any).</i>					
<b>DamageState</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	DamageStatusEnum32	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The state of damage of the entity.</i>					
<b>EngineSmokeOn</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's engine is generating smoke or not.</i>					
<b>FirePowerDisabled</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's main weapon system has been disabled or not.</i>					

<b>FlamesPresent</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity is on fire (with visible flames) or not.</i>					
<b>ForceIdentifier</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	ForceIdentifierEnum8	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The identification of the force that the entity belongs to.</i>					
<b>HasAmmunitionSupplyCap</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has the capability to supply other entities with ammunition.</i>					
<b>HasFuelSupplyCap</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has the capability to supply other entities with fuel or not.</i>					
<b>HasRecoveryCap</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has the capability to recover other entities or not.</i>					

<b>HasRepairCap</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has the capability to repair other entities or not.</i>					
<b>Immobilized</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity is immobilized or not.</i>					
<b>InfraredSignatureIndex</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	Integer16	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Index used to obtain the infra-red signature state of the entity.</i>					
<b>IsConcealed</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity is concealed or not.</i>					
<b>LiveEntityMeasuredSpeed</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	VelocityDecimeterPerSecondInteger16	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The entity's own measurement of speed (e.g. air speed for aircraft).</i>					

<b>Marking</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	MarkingStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>A unique marking or combination of characters used to distinguish the entity from other entities.</i>					
<b>PowerPlantOn</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's power plant is on or not.</i>					
<b>PropulsionSystemsData</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	PropulsionSystemDataStructLengthlessArray	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The basic operating data of the propulsion systems aboard the entity.</i>					
<b>RadarCrossSectionSignatureIndex</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	Integer16	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Index used to obtain the radar cross section signature state of the entity.</i>					
<b>SmokePlumePresent</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity is generating smoke or not (intentional or unintentional).</i>					

<b>TentDeployed</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has deployed tent or not.</i>					
<b>TrailingEffectsCode</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	TrailingEffectsCodeEnum32	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The type and size of any trail that the entity is making.</i>					
<b>VectoringNozzleSystemData</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	VectoringNozzleSystemDataStructLengthlessArray	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The basic operational data for the vectoring nozzle systems aboard the entity.</i>					
<b>EntityType</b>  <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	EntityTypeStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Static	<i>NA</i>				
	<b>Semantics</b>					
	<i>The category of the entity.</i>					
<b>EntityIdentifier</b>  <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	EntityIdentifierStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Static	<i>NA</i>				
	<b>Semantics</b>					
	<i>The unique identifier for the entity instance.</i>					

<b>IsPartOf</b>  <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	IsPartOfStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Defines if the entity if a constituent part of another entity (denoted the host entity). If the entity is a constituent part of another entity then the HostEntityIdentifier shall be set to the EntityIdentifier of the host entity and the HostRTIObjectIdentifier shall be set to the RTI object instance ID of the host entity. If the entity is not a constituent part of another entity then the HostEntityIdentifier shall be set to 0.0.0 and the HostRTIObjectIdentifier shall be set to the empty string.</i>					
<b>Spatial</b>  <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	SpatialVariantStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i> RPRnoteBase10 RPRnoteBase11 RPRnoteBase12 RPRnoteBase13 RPRnoteBase14				
	<b>Semantics</b>					
	<i>Spatial state stored in one variant record attribute.</i>					
<b>RelativeSpatial</b>  <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	SpatialVariantStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i> RPRnoteBase10 RPRnoteBase11 RPRnoteBase12 RPRnoteBase13 RPRnoteBase14				
	<b>Semantics</b>					
	<i>Relative spatial state stored in one variant record attribute.</i>					
<b>HLAprivilegeToDeleteObject</b>  <i>Inherited from HLAobjectRoot in MIM</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	HLAtoken	PS	DA	TS	HLAreliable	
	<b>Update type</b>	<b>Update Condition</b>				
	Static	NA				
	<b>Semantics</b>					

### 3.1.5. NETN\_Spacecraft

Full Name: HLAobjectRoot.BaseEntity.PhysicalEntity.Platform.Spacecraft.NETN\_Spacecraft

Sharing: Publish/Subscribe

Semantics: *Extensions for NETN*

## Attributes:

Callsign	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	HLAunicodeString	PS		RO	HLAbestEffort	
	Update type	Update Condition				
	Static	NA				
	Semantics					
	The name of the object.					
Status	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	<a href="#">ActiveStatusEnum8</a>	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	If an instance shall be taken into account by federates					
Activity	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	<a href="#">AggregateMissionEnum16</a>	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	The activity of the object.					
EmbeddedUnitList	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	<a href="#">ArrayOfUuid</a>	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	List of unique IDs of on-board elements					

UniqueID	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	UuidArrayOfHLAbyte16	PS		RO	HLAbestEffort	
	Update type	Update Condition				
	Static	NA				
	Semantics					
	The unique identifier of the object. Required value. If not assigned by the ORBAT specification or similar, shall a value be assigned, either randomized or generated from the Marking or EntityIdentifier attribute value.					
AfterburnerOn  Inherited from Platform in RPR-Physical_v2.0	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	RPRboolean	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	Whether the entity's afterburner is on or not.					
AntiCollisionLightsOn  Inherited from Platform in RPR-Physical_v2.0	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	RPRboolean	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	Whether the entity's anti-collision lights are on or not.					
BlackOutBrakeLightsOn  Inherited from Platform in RPR-Physical_v2.0	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	RPRboolean	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	Whether the entity's black out brake lights are on or not.					



<b>BlackOutLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's black out lights are on or not.</i>					
<b>BrakeLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's brake lights are on or not.</i>					
<b>FormationLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's formation lights are on or not.</i>					
<b>HatchState</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	HatchStateEnum32	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The state of the entity's (main) hatch.</i>					
<b>HeadLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's headlights are on or not.</i>					

<b>InteriorLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's internal lights are on or not.</i>					
<b>LandingLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's landing lights are on or not.</i>					
<b>LauncherRaised</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's weapon launcher is in the raised position.</i>					
<b>NavigationLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's navigation lights are on or not.</i>					
<b>RampDeployed</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has deployed a ramp or not.</i>					

<b>RunningLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's running lights are on or not.</i>					
<b>SpotLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's spotlights are on or not.</i>					
<b>TailLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's tail lights are on or not.</i>					
<b>AcousticSignatureIndex</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	Integer16	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Index used to obtain the acoustics (sound through air) signature state of the entity.</i>					
<b>AlternateEntityType</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	EntityTypeStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Static	NA				
	<b>Semantics</b>					
	<i>The category of entity to be used when viewed by entities on the 'opposite' side.</i>					

<b>ArticulatedParametersArray</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	ArticulatedParameterStructLengthlessArray	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Identification of the visible parts, and their states, of the entity which are capable of independent motion.</i>					
<b>CamouflageType</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	CamouflageEnum32	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The type of camouflage in use (if any).</i>					
<b>DamageState</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	DamageStatusEnum32	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The state of damage of the entity.</i>					
<b>EngineSmokeOn</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's engine is generating smoke or not.</i>					
<b>FirePowerDisabled</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's main weapon system has been disabled or not.</i>					

<b>FlamesPresent</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity is on fire (with visible flames) or not.</i>					
<b>ForceIdentifier</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	ForceIdentifierEnum8	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The identification of the force that the entity belongs to.</i>					
<b>HasAmmunitionSupplyCap</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has the capability to supply other entities with ammunition.</i>					
<b>HasFuelSupplyCap</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has the capability to supply other entities with fuel or not.</i>					
<b>HasRecoveryCap</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has the capability to recover other entities or not.</i>					

<b>HasRepairCap</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has the capability to repair other entities or not.</i>					
<b>Immobilized</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity is immobilized or not.</i>					
<b>InfraredSignatureIndex</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	Integer16	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Index used to obtain the infra-red signature state of the entity.</i>					
<b>IsConcealed</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity is concealed or not.</i>					
<b>LiveEntityMeasuredSpeed</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	VelocityDecimeterPerSecondInteger16	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The entity's own measurement of speed (e.g. air speed for aircraft).</i>					

<b>Marking</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	MarkingStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>A unique marking or combination of characters used to distinguish the entity from other entities.</i>					
<b>PowerPlantOn</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's power plant is on or not.</i>					
<b>PropulsionSystemsData</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	PropulsionSystemDataStructLengthlessArray	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The basic operating data of the propulsion systems aboard the entity.</i>					
<b>RadarCrossSectionSignatureIndex</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	Integer16	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Index used to obtain the radar cross section signature state of the entity.</i>					
<b>SmokePlumePresent</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity is generating smoke or not (intentional or unintentional).</i>					

<b>TentDeployed</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has deployed tent or not.</i>					
<b>TrailingEffectsCode</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	TrailingEffectsCodeEnum32	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The type and size of any trail that the entity is making.</i>					
<b>VectoringNozzleSystemData</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	VectoringNozzleSystemDataStructLengthlessArray	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The basic operational data for the vectoring nozzle systems aboard the entity.</i>					
<b>EntityType</b> <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	EntityTypeStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Static	<i>NA</i>				
	<b>Semantics</b>					
	<i>The category of the entity.</i>					
<b>EntityIdentifier</b> <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	EntityIdentifierStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Static	<i>NA</i>				
	<b>Semantics</b>					
	<i>The unique identifier for the entity instance.</i>					



<b>IsPartOf</b>  <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	IsPartOfStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Defines if the entity if a constituent part of another entity (denoted the host entity). If the entity is a constituent part of another entity then the HostEntityIdentifier shall be set to the EntityIdentifier of the host entity and the HostRTIObjectIdentifier shall be set to the RTI object instance ID of the host entity. If the entity is not a constituent part of another entity then the HostEntityIdentifier shall be set to 0.0.0 and the HostRTIObjectIdentifier shall be set to the empty string.</i>					
<b>Spatial</b>  <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	SpatialVariantStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i> <small>RPRnoteBase10 RPRnoteBase11 RPRnoteBase12 RPRnoteBase13 RPRnoteBase14</small>				
	<b>Semantics</b>					
	<i>Spatial state stored in one variant record attribute.</i>					
<b>RelativeSpatial</b>  <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	SpatialVariantStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i> <small>RPRnoteBase10 RPRnoteBase11 RPRnoteBase12 RPRnoteBase13 RPRnoteBase14</small>				
	<b>Semantics</b>					
	<i>Relative spatial state stored in one variant record attribute.</i>					
<b>HLAprivilegeToDeleteObject</b>  <i>Inherited from HLAobjectRoot in MIM</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	HLAtoken	PS	DA	TS	HLAreliable	
	<b>Update type</b>	<b>Update Condition</b>				
	Static	<i>NA</i>				
	<b>Semantics</b>					

### 3.1.6. NETN\_SubmersibleVehicle

Full Name: HLAobjectRoot.BaseEntity.PhysicalEntity.Platform.SubmersibleVessel.NETN\_SubmersibleVehicle

Sharing: Publish/Subscribe

Semantics: *Extensions for NETN*

## Attributes:

Callsign	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	HLAunicodeString	PS		RO	HLAbestEffort	
	Update type	Update Condition				
	Static	NA				
	Semantics					
	The name of the object.					
Status	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	<a href="#">ActiveStatusEnum8</a>	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	If an instance shall be taken into account by federates					
Activity	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	<a href="#">AggregateMissionEnum16</a>	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	The activity of the object.					
EmbeddedUnitList	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	<a href="#">ArrayOfUuid</a>	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	List of unique IDs of on-board elements					

UniqueID	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	UuidArrayOfHLAbyte16	PS		RO	HLAbestEffort	
	Update type	Update Condition				
	Static	NA				
	Semantics					
	The unique identifier of the object. Required value. If not assigned by the ORBAT specification or similar, shall a value be assigned, either randomized or generated from the Marking or EntityIdentifier attribute value.					
AfterburnerOn  Inherited from Platform in RPR-Physical_v2.0	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	RPRboolean	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	Whether the entity's afterburner is on or not.					
AntiCollisionLightsOn  Inherited from Platform in RPR-Physical_v2.0	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	RPRboolean	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	Whether the entity's anti-collision lights are on or not.					
BlackOutBrakeLightsOn  Inherited from Platform in RPR-Physical_v2.0	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	RPRboolean	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	Whether the entity's black out brake lights are on or not.					

<b>BlackOutLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's black out lights are on or not.</i>					
<b>BrakeLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's brake lights are on or not.</i>					
<b>FormationLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's formation lights are on or not.</i>					
<b>HatchState</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	HatchStateEnum32	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The state of the entity's (main) hatch.</i>					
<b>HeadLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's headlights are on or not.</i>					

<b>InteriorLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's internal lights are on or not.</i>					
<b>LandingLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's landing lights are on or not.</i>					
<b>LauncherRaised</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's weapon launcher is in the raised position.</i>					
<b>NavigationLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's navigation lights are on or not.</i>					
<b>RampDeployed</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has deployed a ramp or not.</i>					

<b>RunningLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's running lights are on or not.</i>					
<b>SpotLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's spotlights are on or not.</i>					
<b>TailLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's tail lights are on or not.</i>					
<b>AcousticSignatureIndex</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	Integer16	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Index used to obtain the acoustics (sound through air) signature state of the entity.</i>					
<b>AlternateEntityType</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	EntityTypeStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Static	NA				
	<b>Semantics</b>					
	<i>The category of entity to be used when viewed by entities on the 'opposite' side.</i>					

<b>ArticulatedParametersArray</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	ArticulatedParameterStructLengthlessArray	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Identification of the visible parts, and their states, of the entity which are capable of independent motion.</i>					
<b>CamouflageType</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	CamouflageEnum32	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The type of camouflage in use (if any).</i>					
<b>DamageState</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	DamageStatusEnum32	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The state of damage of the entity.</i>					
<b>EngineSmokeOn</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's engine is generating smoke or not.</i>					
<b>FirePowerDisabled</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's main weapon system has been disabled or not.</i>					

<b>FlamesPresent</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity is on fire (with visible flames) or not.</i>					
<b>ForceIdentifier</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	ForceIdentifierEnum8	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The identification of the force that the entity belongs to.</i>					
<b>HasAmmunitionSupplyCap</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has the capability to supply other entities with ammunition.</i>					
<b>HasFuelSupplyCap</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has the capability to supply other entities with fuel or not.</i>					
<b>HasRecoveryCap</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has the capability to recover other entities or not.</i>					



<b>HasRepairCap</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has the capability to repair other entities or not.</i>					
<b>Immobilized</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity is immobilized or not.</i>					
<b>InfraredSignatureIndex</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	Integer16	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Index used to obtain the infra-red signature state of the entity.</i>					
<b>IsConcealed</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity is concealed or not.</i>					
<b>LiveEntityMeasuredSpeed</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	VelocityDecimeterPerSecondInteger16	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The entity's own measurement of speed (e.g. air speed for aircraft).</i>					

<b>Marking</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	MarkingStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>A unique marking or combination of characters used to distinguish the entity from other entities.</i>					
<b>PowerPlantOn</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's power plant is on or not.</i>					
<b>PropulsionSystemsData</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	PropulsionSystemDataStructLengthlessArray	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The basic operating data of the propulsion systems aboard the entity.</i>					
<b>RadarCrossSectionSignatureIndex</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	Integer16	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Index used to obtain the radar cross section signature state of the entity.</i>					
<b>SmokePlumePresent</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity is generating smoke or not (intentional or unintentional).</i>					

<b>TentDeployed</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has deployed tent or not.</i>					
<b>TrailingEffectsCode</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	TrailingEffectsCodeEnum32	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The type and size of any trail that the entity is making.</i>					
<b>VectoringNozzleSystemData</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	VectoringNozzleSystemDataStructLengthlessArray	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The basic operational data for the vectoring nozzle systems aboard the entity.</i>					
<b>EntityType</b>  <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	EntityTypeStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Static	<i>NA</i>				
	<b>Semantics</b>					
	<i>The category of the entity.</i>					
<b>EntityIdentifier</b>  <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	EntityIdentifierStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Static	<i>NA</i>				
	<b>Semantics</b>					
	<i>The unique identifier for the entity instance.</i>					

<b>IsPartOf</b>  <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	IsPartOfStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Defines if the entity if a constituent part of another entity (denoted the host entity). If the entity is a constituent part of another entity then the HostEntityIdentifier shall be set to the EntityIdentifier of the host entity and the HostRTIObjectIdentifier shall be set to the RTI object instance ID of the host entity. If the entity is not a constituent part of another entity then the HostEntityIdentifier shall be set to 0.0.0 and the HostRTIObjectIdentifier shall be set to the empty string.</i>					
<b>Spatial</b>  <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	SpatialVariantStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i> <small>RPRnoteBase10 RPRnoteBase11 RPRnoteBase12 RPRnoteBase13 RPRnoteBase14</small>				
	<b>Semantics</b>					
	<i>Spatial state stored in one variant record attribute.</i>					
<b>RelativeSpatial</b>  <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	SpatialVariantStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i> <small>RPRnoteBase10 RPRnoteBase11 RPRnoteBase12 RPRnoteBase13 RPRnoteBase14</small>				
	<b>Semantics</b>					
	<i>Relative spatial state stored in one variant record attribute.</i>					
<b>HLAprivilegeToDeleteObject</b>  <i>Inherited from HLAobjectRoot in MIM</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	HLAtoken	PS	DA	TS	HLAreliable	
	<b>Update type</b>	<b>Update Condition</b>				
	Static	<i>NA</i>				
	<b>Semantics</b>					

### 3.1.7. NETN\_SurfaceVessel

Full Name: HLAobjectRoot.BaseEntity.PhysicalEntity.Platform.SurfaceVessel.NETN\_SurfaceVessel

Sharing: Publish/Subscribe

Semantics: *Extensions for NETN*

## Attributes:

Callsign	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	HLAunicodeString	PS		RO	HLAbestEffort	
	Update type	Update Condition				
	Static	NA				
	Semantics					
	The name of the object.					
Status	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	<a href="#">ActiveStatusEnum8</a>	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	If an instance shall be taken into account by federates					
Activity	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	<a href="#">AggregateMissionEnum16</a>	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	The activity of the object.					
EmbeddedUnitList	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	<a href="#">ArrayOfUuid</a>	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	List of unique IDs of on-board elements					

UniqueID	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	UuidArrayOfHLAbyte16	PS		RO	HLAbestEffort	
	Update type	Update Condition				
	Static	NA				
	Semantics					
	The unique identifier of the object. Required value. If not assigned by the ORBAT specification or similar, shall a value be assigned, either randomized or generated from the Marking or EntityIdentifier attribute value.					
AfterburnerOn  Inherited from Platform in RPR-Physical_v2.0	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	RPRboolean	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	Whether the entity's afterburner is on or not.					
AntiCollisionLightsOn  Inherited from Platform in RPR-Physical_v2.0	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	RPRboolean	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	Whether the entity's anti-collision lights are on or not.					
BlackOutBrakeLightsOn  Inherited from Platform in RPR-Physical_v2.0	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	RPRboolean	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	Whether the entity's black out brake lights are on or not.					

<b>BlackOutLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's black out lights are on or not.</i>					
<b>BrakeLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's brake lights are on or not.</i>					
<b>FormationLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's formation lights are on or not.</i>					
<b>HatchState</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	HatchStateEnum32	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The state of the entity's (main) hatch.</i>					
<b>HeadLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's headlights are on or not.</i>					

<b>InteriorLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's internal lights are on or not.</i>					
<b>LandingLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's landing lights are on or not.</i>					
<b>LauncherRaised</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's weapon launcher is in the raised position.</i>					
<b>NavigationLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's navigation lights are on or not.</i>					
<b>RampDeployed</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has deployed a ramp or not.</i>					



<b>RunningLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's running lights are on or not.</i>					
<b>SpotLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's spotlights are on or not.</i>					
<b>TailLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's tail lights are on or not.</i>					
<b>AcousticSignatureIndex</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	Integer16	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Index used to obtain the acoustics (sound through air) signature state of the entity.</i>					
<b>AlternateEntityType</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	EntityTypeStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Static	NA				
	<b>Semantics</b>					
	<i>The category of entity to be used when viewed by entities on the 'opposite' side.</i>					

<b>ArticulatedParametersArray</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	ArticulatedParameterStructLengthlessArray	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Identification of the visible parts, and their states, of the entity which are capable of independent motion.</i>					
<b>CamouflageType</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	CamouflageEnum32	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The type of camouflage in use (if any).</i>					
<b>DamageState</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	DamageStatusEnum32	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The state of damage of the entity.</i>					
<b>EngineSmokeOn</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's engine is generating smoke or not.</i>					
<b>FirePowerDisabled</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's main weapon system has been disabled or not.</i>					

<b>FlamesPresent</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity is on fire (with visible flames) or not.</i>					
<b>ForceIdentifier</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	ForceIdentifierEnum8	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The identification of the force that the entity belongs to.</i>					
<b>HasAmmunitionSupplyCap</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has the capability to supply other entities with ammunition.</i>					
<b>HasFuelSupplyCap</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has the capability to supply other entities with fuel or not.</i>					
<b>HasRecoveryCap</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has the capability to recover other entities or not.</i>					

<b>HasRepairCap</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has the capability to repair other entities or not.</i>					
<b>Immobilized</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity is immobilized or not.</i>					
<b>InfraredSignatureIndex</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	Integer16	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Index used to obtain the infra-red signature state of the entity.</i>					
<b>IsConcealed</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity is concealed or not.</i>					
<b>LiveEntityMeasuredSpeed</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	VelocityDecimeterPerSecondInteger16	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The entity's own measurement of speed (e.g. air speed for aircraft).</i>					

<b>Marking</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	MarkingStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>A unique marking or combination of characters used to distinguish the entity from other entities.</i>					
<b>PowerPlantOn</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's power plant is on or not.</i>					
<b>PropulsionSystemsData</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	PropulsionSystemDataStructLengthlessArray	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The basic operating data of the propulsion systems aboard the entity.</i>					
<b>RadarCrossSectionSignatureIndex</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	Integer16	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Index used to obtain the radar cross section signature state of the entity.</i>					
<b>SmokePlumePresent</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity is generating smoke or not (intentional or unintentional).</i>					

<b>TentDeployed</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has deployed tent or not.</i>					
<b>TrailingEffectsCode</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	TrailingEffectsCodeEnum32	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The type and size of any trail that the entity is making.</i>					
<b>VectoringNozzleSystemData</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	VectoringNozzleSystemDataStructLengthlessArray	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The basic operational data for the vectoring nozzle systems aboard the entity.</i>					
<b>EntityType</b>  <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	EntityTypeStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Static	<i>NA</i>				
	<b>Semantics</b>					
	<i>The category of the entity.</i>					
<b>EntityIdentifier</b>  <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	EntityIdentifierStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Static	<i>NA</i>				
	<b>Semantics</b>					
	<i>The unique identifier for the entity instance.</i>					

<b>IsPartOf</b>  <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	IsPartOfStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Defines if the entity if a constituent part of another entity (denoted the host entity). If the entity is a constituent part of another entity then the HostEntityIdentifier shall be set to the EntityIdentifier of the host entity and the HostRTIObjectIdentifier shall be set to the RTI object instance ID of the host entity. If the entity is not a constituent part of another entity then the HostEntityIdentifier shall be set to 0.0.0 and the HostRTIObjectIdentifier shall be set to the empty string.</i>					
<b>Spatial</b>  <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	SpatialVariantStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i> RPRnoteBase10 RPRnoteBase11 RPRnoteBase12 RPRnoteBase13 RPRnoteBase14				
	<b>Semantics</b>					
	<i>Spatial state stored in one variant record attribute.</i>					
<b>RelativeSpatial</b>  <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	SpatialVariantStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i> RPRnoteBase10 RPRnoteBase11 RPRnoteBase12 RPRnoteBase13 RPRnoteBase14				
	<b>Semantics</b>					
	<i>Relative spatial state stored in one variant record attribute.</i>					
<b>HLAprivilegeToDeleteObject</b>  <i>Inherited from HLAobjectRoot in MIM</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	HLAtoken	PS	DA	TS	HLAreliable	
	<b>Update type</b>	<b>Update Condition</b>				
	Static	NA				
	<b>Semantics</b>					

### 3.1.8. NETN\_NonHuman

Full Name: HLAobjectRoot.BaseEntity.PhysicalEntity.Lifeform.NonHuman.NETN\_NonHuman

Sharing: Publish/Subscribe

Semantics: *Extensions for NETN*

## Attributes:

Callsign	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	HLAunicodeString	PS		RO	HLAbestEffort	
	Update type	Update Condition				
	Static	NA				
	Semantics					
	The name of the object.					
Status	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	<a href="#">ActiveStatusEnum8</a>	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	If an instance shall be taken into account by federates					
Activity	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	<a href="#">AggregateMissionEnum16</a>	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	The activity of the object.					
UniqueID	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	<a href="#">UuidArrayOfHLAbyte16</a>	PS		RO	HLAbestEffort	
	Update type	Update Condition				
	Static	NA				
	Semantics					
	The unique identifier of the object. Required value. If not assigned by the ORBAT specification or similar, shall a value be assigned, either randomized or generated from the Marking or EntityIdentifier attribute value.					



<b>FlashLightsOn</b> <i>Inherited from Lifeform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the lifeform's flash lights are on or not.</i>					
<b>StanceCode</b> <i>Inherited from Lifeform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	StanceCodeEnum32	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The stance of the lifeform.</i>					
<b>PrimaryWeaponState</b> <i>Inherited from Lifeform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	WeaponStateEnum32	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The state of the soldier's primary weapon system.</i>					
<b>SecondaryWeaponState</b> <i>Inherited from Lifeform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	WeaponStateEnum32	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The state of the soldier's secondary weapon system.</i>					
<b>ComplianceState</b> <i>Inherited from Lifeform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	ComplianceStateEnum32	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The compliance of the lifeform.</i>					

<b>AcousticSignatureIndex</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	Integer16	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Index used to obtain the acoustics (sound through air) signature state of the entity.</i>					
<b>AlternateEntityType</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	EntityTypeStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Static	<i>NA</i>				
	<b>Semantics</b>					
	<i>The category of entity to be used when viewed by entities on the 'opposite' side.</i>					
<b>ArticulatedParametersArray</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	ArticulatedParameterStructLengthlessArray	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Identification of the visible parts, and their states, of the entity which are capable of independent motion.</i>					
<b>CamouflageType</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	CamouflageEnum32	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The type of camouflage in use (if any).</i>					
<b>DamageState</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	DamageStatusEnum32	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The state of damage of the entity.</i>					

<b>EngineSmokeOn</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's engine is generating smoke or not.</i>					
<b>FirePowerDisabled</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's main weapon system has been disabled or not.</i>					
<b>FlamesPresent</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity is on fire (with visible flames) or not.</i>					
<b>ForceIdentifier</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	ForceIdentifierEnum8	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The identification of the force that the entity belongs to.</i>					
<b>HasAmmunitionSupplyCap</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has the capability to supply other entities with ammunition.</i>					

<b>HasFuelSupplyCap</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has the capability to supply other entities with fuel or not.</i>					
<b>HasRecoveryCap</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has the capability to recover other entities or not.</i>					
<b>HasRepairCap</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has the capability to repair other entities or not.</i>					
<b>Immobilized</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity is immobilized or not.</i>					
<b>InfraredSignatureIndex</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	Integer16	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Index used to obtain the infra-red signature state of the entity.</i>					

<b>IsConcealed</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity is concealed or not.</i>					
<b>LiveEntityMeasuredSpeed</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	VelocityDecimeterPerSecondInteger16	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The entity's own measurement of speed (e.g. air speed for aircraft).</i>					
<b>Marking</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	MarkingStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>A unique marking or combination of characters used to distinguish the entity from other entities.</i>					
<b>PowerPlantOn</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's power plant is on or not.</i>					
<b>PropulsionSystemsData</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	PropulsionSystemDataStructLengthlessArray	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The basic operating data of the propulsion systems aboard the entity.</i>					

<b>RadarCrossSectionSignatureIndex</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	Integer16	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Index used to obtain the radar cross section signature state of the entity.</i>					
<b>SmokePlumePresent</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity is generating smoke or not (intentional or unintentional).</i>					
<b>TentDeployed</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has deployed tent or not.</i>					
<b>TrailingEffectsCode</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	TrailingEffectsCodeEnum32	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The type and size of any trail that the entity is making.</i>					
<b>VectoringNozzleSystemData</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	VectoringNozzleSystemDataStructLengthlessArray	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The basic operational data for the vectoring nozzle systems aboard the entity.</i>					

<b>EntityType</b> <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	EntityTypeStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Static	NA				
	<b>Semantics</b>					
	<i>The category of the entity.</i>					
<b>EntityIdentifier</b> <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	EntityIdentifierStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Static	NA				
	<b>Semantics</b>					
	<i>The unique identifier for the entity instance.</i>					
<b>IsPartOf</b> <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	IsPartOfStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	On change				
	<b>Semantics</b>					
	<i>Defines if the entity if a constituent part of another entity (denoted the host entity). If the entity is a constituent part of another entity then the HostEntityIdentifier shall be set to the EntityIdentifier of the host entity and the HostRTIObjectIdentifier shall be set to the RTI object instance ID of the host entity. If the entity is not a constituent part of another entity then the HostEntityIdentifier shall be set to 0.0.0 and the HostRTIObjectIdentifier shall be set to the empty string.</i>					
<b>Spatial</b> <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	SpatialVariantStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	On change RPRnoteBase10 RPRnoteBase11 RPRnoteBase12 RPRnoteBase13 RPRnoteBase14				
	<b>Semantics</b>					
	<i>Spatial state stored in one variant record attribute.</i>					

<b>RelativeSpatial</b> <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	SpatialVariantStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i> RPRnoteBase10 RPRnoteBase11 RPRnoteBase12 RPRnoteBase13 RPRnoteBase14				
	<b>Semantics</b>					
	<i>Relative spatial state stored in one variant record attribute.</i>					
<b>HLAprivilegeToDeleteObject</b> <i>Inherited from HLAobjectRoot in MIM</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	HLAtoken	PS	DA	TS	HLAreliable	
	<b>Update type</b>	<b>Update Condition</b>				
	Static	NA				
	<b>Semantics</b>					

### 3.1.9. NETN\_Human

Full Name: HLAobjectRoot.BaseEntity.PhysicalEntity.Lifeform.Human.NETN\_Human

Sharing: Publish/Subscribe

Semantics: *Extensions for NETN*

Attributes:

Callsign	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	HLAunicodeString	PS		RO	HLAbestEffort	
	Update type	Update Condition				
	Static	NA				
	Semantics					
	The name of the object.					
Status	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	<a href="#">ActiveStatusEnum8</a>	PS		RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	If an instance shall be taken into account by federates					



Activity	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	<a href="#">AggregateMissionEnum16</a>	PS		RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	The activity of the object.					
UniqueID	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	<a href="#">UuidArrayOfHLAbyte16</a>	PS		RO	HLAbestEffort	
	Update type	Update Condition				
	Static	NA				
	Semantics					
	The unique identifier of the object. Required value. If not assigned by the ORBAT specification or similar, shall a value be assigned, either randomized or generated from the Marking or EntityIdentifier attribute value.					
FlashLightsOn <i>Inherited from Lifeform in RPR-Physical_v2.0</i>	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	RPRboolean	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	Whether the lifeform's flash lights are on or not.					
StanceCode <i>Inherited from Lifeform in RPR-Physical_v2.0</i>	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	StanceCodeEnum32	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	The stance of the lifeform.					

<b>PrimaryWeaponState</b> <i>Inherited from Lifeform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	WeaponStateEnum32	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The state of the soldier's primary weapon system.</i>					
<b>SecondaryWeaponState</b> <i>Inherited from Lifeform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	WeaponStateEnum32	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The state of the soldier's secondary weapon system.</i>					
<b>ComplianceState</b> <i>Inherited from Lifeform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	ComplianceStateEnum32	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The compliance of the lifeform.</i>					
<b>AcousticSignatureIndex</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	Integer16	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Index used to obtain the acoustics (sound through air) signature state of the entity.</i>					
<b>AlternateEntityType</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	EntityTypeStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Static	NA				
	<b>Semantics</b>					
	<i>The category of entity to be used when viewed by entities on the 'opposite' side.</i>					

<b>ArticulatedParametersArray</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	ArticulatedParameterStructLengthlessArray	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Identification of the visible parts, and their states, of the entity which are capable of independent motion.</i>					
<b>CamouflageType</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	CamouflageEnum32	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The type of camouflage in use (if any).</i>					
<b>DamageState</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	DamageStatusEnum32	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The state of damage of the entity.</i>					
<b>EngineSmokeOn</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's engine is generating smoke or not.</i>					
<b>FirePowerDisabled</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's main weapon system has been disabled or not.</i>					

<b>FlamesPresent</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity is on fire (with visible flames) or not.</i>					
<b>ForceIdentifier</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	ForceIdentifierEnum8	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The identification of the force that the entity belongs to.</i>					
<b>HasAmmunitionSupplyCap</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has the capability to supply other entities with ammunition.</i>					
<b>HasFuelSupplyCap</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has the capability to supply other entities with fuel or not.</i>					
<b>HasRecoveryCap</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has the capability to recover other entities or not.</i>					

<b>HasRepairCap</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has the capability to repair other entities or not.</i>					
<b>Immobilized</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity is immobilized or not.</i>					
<b>InfraredSignatureIndex</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	Integer16	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Index used to obtain the infra-red signature state of the entity.</i>					
<b>IsConcealed</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity is concealed or not.</i>					
<b>LiveEntityMeasuredSpeed</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	VelocityDecimeterPerSecondInteger16	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The entity's own measurement of speed (e.g. air speed for aircraft).</i>					

<b>Marking</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	MarkingStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>A unique marking or combination of characters used to distinguish the entity from other entities.</i>					
<b>PowerPlantOn</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's power plant is on or not.</i>					
<b>PropulsionSystemsData</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	PropulsionSystemDataStructLengthlessArray	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The basic operating data of the propulsion systems aboard the entity.</i>					
<b>RadarCrossSectionSignatureIndex</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	Integer16	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Index used to obtain the radar cross section signature state of the entity.</i>					
<b>SmokePlumePresent</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity is generating smoke or not (intentional or unintentional).</i>					

<b>TentDeployed</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has deployed tent or not.</i>					
<b>TrailingEffectsCode</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	TrailingEffectsCodeEnum32	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The type and size of any trail that the entity is making.</i>					
<b>VectoringNozzleSystemData</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	VectoringNozzleSystemDataStructLengthlessArray	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The basic operational data for the vectoring nozzle systems aboard the entity.</i>					
<b>EntityType</b>  <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	EntityTypeStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Static	<i>NA</i>				
	<b>Semantics</b>					
	<i>The category of the entity.</i>					
<b>EntityIdentifier</b>  <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	EntityIdentifierStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Static	<i>NA</i>				
	<b>Semantics</b>					
	<i>The unique identifier for the entity instance.</i>					

<b>IsPartOf</b>  <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	IsPartOfStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Defines if the entity if a constituent part of another entity (denoted the host entity). If the entity is a constituent part of another entity then the HostEntityIdentifier shall be set to the EntityIdentifier of the host entity and the HostRTIObjectIdentifier shall be set to the RTI object instance ID of the host entity. If the entity is not a constituent part of another entity then the HostEntityIdentifier shall be set to 0.0.0 and the HostRTIObjectIdentifier shall be set to the empty string.</i>					
<b>Spatial</b>  <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	SpatialVariantStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i> RPRnoteBase10 RPRnoteBase11 RPRnoteBase12 RPRnoteBase13 RPRnoteBase14				
	<b>Semantics</b>					
	<i>Spatial state stored in one variant record attribute.</i>					
<b>RelativeSpatial</b>  <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	SpatialVariantStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i> RPRnoteBase10 RPRnoteBase11 RPRnoteBase12 RPRnoteBase13 RPRnoteBase14				
	<b>Semantics</b>					
	<i>Relative spatial state stored in one variant record attribute.</i>					
<b>HLAprivilegeToDeleteObject</b>  <i>Inherited from HLAobjectRoot in MIM</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	HLAtoken	PS	DA	TS	HLAreliable	
	<b>Update type</b>	<b>Update Condition</b>				
	Static	NA				
	<b>Semantics</b>					

### 3.1.10. NETN\_CulturalFeature

Full Name: HLAobjectRoot.BaseEntity.PhysicalEntity.CulturalFeature.NETN\_CulturalFeature

Sharing: Publish/Subscribe

Semantics: *Extensions for NETN*



## Attributes:

UniqueID	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	<a href="#">UuidArrayOfHLAByte16</a>	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Static	NA				
	Semantics					
	The unique identifier of the object. Required value. If not assigned by the ORBAT specification or similar, shall a value be assigned, either randomized or generated from the Marking or EntityIdentifier attribute value.					
Callsign	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	HLAUnicodeString	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Static	NA				
	Semantics					
	Name of the object.					
Status	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	<a href="#">ActiveStatusEnum8</a>	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	If an instance shall be taken into account by federates.					
Activity	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	<a href="#">AggregateMissionEnum16</a>	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	The activity of the object.					

<b>EmbeddedUnitList</b>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	<a href="#">ArrayOfUuid</a>	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>List of unique IDs of on-board elements</i>					
<b>ExternalLightsOn</b> <i>Inherited from CulturalFeature in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the cultural feature's external lights are on or not.</i>					
<b>InternalHeatSourceOn</b> <i>Inherited from CulturalFeature in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the cultural feature's internal heat source is on or not.</i>					
<b>InternalLightsOn</b> <i>Inherited from CulturalFeature in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the cultural feature's internal lights are on or not.</i>					
<b>AcousticSignatureIndex</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	Integer16	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Index used to obtain the acoustics (sound through air) signature state of the entity.</i>					

<b>AlternateEntityType</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	EntityTypeStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Static	NA				
	<b>Semantics</b>					
	<i>The category of entity to be used when viewed by entities on the 'opposite' side.</i>					
<b>ArticulatedParametersArray</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	ArticulatedParameterStructLengthlessArray	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Identification of the visible parts, and their states, of the entity which are capable of independent motion.</i>					
<b>CamouflageType</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	CamouflageEnum32	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The type of camouflage in use (if any).</i>					
<b>DamageState</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	DamageStatusEnum32	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The state of damage of the entity.</i>					
<b>EngineSmokeOn</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's engine is generating smoke or not.</i>					

<b>FirePowerDisabled</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's main weapon system has been disabled or not.</i>					
<b>FlamesPresent</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity is on fire (with visible flames) or not.</i>					
<b>ForceIdentifier</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	ForceIdentifierEnum8	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The identification of the force that the entity belongs to.</i>					
<b>HasAmmunitionSupplyCap</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has the capability to supply other entities with ammunition.</i>					
<b>HasFuelSupplyCap</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has the capability to supply other entities with fuel or not.</i>					

<b>HasRecoveryCap</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has the capability to recover other entities or not.</i>					
<b>HasRepairCap</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has the capability to repair other entities or not.</i>					
<b>Immobilized</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity is immobilized or not.</i>					
<b>InfraredSignatureIndex</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	Integer16	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Index used to obtain the infra-red signature state of the entity.</i>					
<b>IsConcealed</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity is concealed or not.</i>					

<b>LiveEntityMeasuredSpeed</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>		<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	VelocityDecimeterPerSecondInteger16		PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>					
	Conditional	<i>On change</i>					
	<b>Semantics</b>						
	<i>The entity's own measurement of speed (e.g. air speed for aircraft).</i>						
<b>Marking</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>		<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	MarkingStruct		PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>					
	Conditional	<i>On change</i>					
	<b>Semantics</b>						
	<i>A unique marking or combination of characters used to distinguish the entity from other entities.</i>						
<b>PowerPlantOn</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>		<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean		PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>					
	Conditional	<i>On change</i>					
	<b>Semantics</b>						
	<i>Whether the entity's power plant is on or not.</i>						
<b>PropulsionSystemsData</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>		<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	PropulsionSystemDataStructLengthlessArray		PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>					
	Conditional	<i>On change</i>					
	<b>Semantics</b>						
	<i>The basic operating data of the propulsion systems aboard the entity.</i>						
<b>RadarCrossSectionSignatureIndex</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>		<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	Integer16		PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>					
	Conditional	<i>On change</i>					
	<b>Semantics</b>						
	<i>Index used to obtain the radar cross section signature state of the entity.</i>						

<b>SmokePlumePresent</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity is generating smoke or not (intentional or unintentional).</i>					
<b>TentDeployed</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has deployed tent or not.</i>					
<b>TrailingEffectsCode</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	TrailingEffectsCodeEnum32	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The type and size of any trail that the entity is making.</i>					
<b>VectoringNozzleSystemData</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	VectoringNozzleSystemDataStructLengthlessArray	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The basic operational data for the vectoring nozzle systems aboard the entity.</i>					
<b>EntityType</b>  <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	EntityTypeStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Static	<i>NA</i>				
	<b>Semantics</b>					
	<i>The category of the entity.</i>					

<b>EntityIdentifier</b> <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	EntityIdentifierStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Static	NA				
	<b>Semantics</b>					
	<i>The unique identifier for the entity instance.</i>					
<b>IsPartOf</b> <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	IsPartOfStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Defines if the entity if a constituent part of another entity (denoted the host entity). If the entity is a constituent part of another entity then the HostEntityIdentifier shall be set to the EntityIdentifier of the host entity and the HostRTIObjectIdentifier shall be set to the RTI object instance ID of the host entity. If the entity is not a constituent part of another entity then the HostEntityIdentifier shall be set to 0.0.0 and the HostRTIObjectIdentifier shall be set to the empty string.</i>					
<b>Spatial</b> <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	SpatialVariantStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i> RPRnoteBase10 RPRnoteBase11 RPRnoteBase12 RPRnoteBase13 RPRnoteBase14				
	<b>Semantics</b>					
	<i>Spatial state stored in one variant record attribute.</i>					
<b>RelativeSpatial</b> <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	SpatialVariantStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i> RPRnoteBase10 RPRnoteBase11 RPRnoteBase12 RPRnoteBase13 RPRnoteBase14				
	<b>Semantics</b>					
	<i>Relative spatial state stored in one variant record attribute.</i>					



<b>HLAprivilegeToDeleteObject</b> <i>Inherited from HLAobjectRoot in MIM</i>	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	HLAtoken	PS	DA	TS	HLAreliable	
	Update type	Update Condition				
	Static	NA				
	Semantics					

## 4. Module NETN-SCP-Base\_v1.1.3

### Information

<b>Name:</b>	New Module
<b>Type:</b>	FOM
<b>Version:</b>	1.1
<b>Modification Date:</b>	2014-05-26
<b>Security Classification:</b>	unclassified
<b>Purpose:</b>	
<b>Application Domain:</b>	Training
<b>Description:</b>	Base for NETN Logistics FOM modules: Supply, Storage, Repair and Transport
<b>Use Limitation:</b>	
<b>Other:</b>	

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### References

<b>Dependency</b>	NETN-Base_v1.0
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### Use History

v1.0.0 - Initial, interaction and object classes and datatypes from FOM modules in NETN FOM v1
v1.1.0 - Interaction class RejectOffer: Added parameter Reason. Interaction class CancelService: added parameter Reason. Moved fixed record AppointmentStruct from Transport module to this module.
v1.1.1 - Updated semantics
v1.1.2 - Updated References, Dependency

v1.1.3 - Replaced the datatype in parameter ServiceID to NETN\_ServiceIdentifier.  
The format is the equal to the previous but names on fields is changed (buffer compatible).

**Dependencies**

NETN-Base_v1.0.2
RPR-Base_v2.0
RPR-Enumerations_v2.0
RPR-Foundation_v2.0

4.1. Object Classes



4.1.1. SCP\_Facility COPY-rpr2base\_7

Full Name: HLAobjectRoot.BaseEntity.SCP\_Facility  
Sharing: Publish/Subscribe  
Semantics: *Logistics Facility dedicated for supplying, storing, repairing, and other services.*  
Attributes:

DamageState	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	DamageStatusEnum32	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	Damage State of Facility					
Callsign	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	HLAunicodeString	PS		RO	HLAbestEffort	
	Update type	Update Condition				
	Static	N/A				
	Semantics					
	Name of the Facility					

IsOperational	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	HLAboolean	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	The operational status of the facility (true = is operational)					
ForceIdentifier	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	ForceIdentifierEnum8	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	Force identifier of owner					
StorageList	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	<a href="#">NETN_ArrayOfSupplyStruct</a>	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	List of the material contained in the facility					
PlatformList	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	<a href="#">ArrayOfUuid</a>	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	Description of platforms located within the facility					
UniqueID	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	<a href="#">UuidArrayOfHLAbyte16</a>	PS		RO	HLAbestEffort	
	Update type	Update Condition				
	Static	N/A				
	Semantics					
	The unique identifier for the facility					

<b>EntityType</b> <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	EntityTypeStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Static	NA				
	<b>Semantics</b>					
	<i>The category of the entity.</i>					
<b>EntityIdentifier</b> <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	EntityIdentifierStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Static	NA				
	<b>Semantics</b>					
	<i>The unique identifier for the entity instance.</i>					
<b>IsPartOf</b> <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	IsPartOfStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	On change				
	<b>Semantics</b>					
	<i>Defines if the entity if a constituent part of another entity (denoted the host entity). If the entity is a constituent part of another entity then the HostEntityIdentifier shall be set to the EntityIdentifier of the host entity and the HostRTIObjectIdentifier shall be set to the RTI object instance ID of the host entity. If the entity is not a constituent part of another entity then the HostEntityIdentifier shall be set to 0.0.0 and the HostRTIObjectIdentifier shall be set to the empty string.</i>					
<b>Spatial</b> <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	SpatialVariantStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	On change RPRnoteBase10 RPRnoteBase11 RPRnoteBase12 RPRnoteBase13 RPRnoteBase14				
	<b>Semantics</b>					
	<i>Spatial state stored in one variant record attribute.</i>					

<b>RelativeSpatial</b> <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	SpatialVariantStruct	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	<i>On change</i> <small>RPRnoteBase10 RPRnoteBase11 RPRnoteBase12 RPRnoteBase13 RPRnoteBase14</small>				
	Semantics					
	<i>Relative spatial state stored in one variant record attribute.</i>					
<b>HLAprivilegeToDeleteObject</b> <i>Inherited from HLAobjectRoot in MIM</i>	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	HLAtoken	PS	DA	TS	HLAreliable	
	Update type	Update Condition				
	Static	NA				
	Semantics					

## 4.2. Interaction Classes

### 4.2.1. HLAinteractionRoot

Full Name: HLAinteractionRoot

Sharing:

Transportation type: HLAreliable

Order: Receive

Dimensions:

Semantics:

Parameters: -

### 4.2.2. SCP\_Service

Full Name: HLAinteractionRoot.SCP\_Service

Sharing:

Transportation type: HLAreliable

Order: Receive

Dimensions:

Semantics: *The SCP\_Service interaction class is the base class for all NETN Service Consumer-Provider Pattern interactions. It contains the basic required parameters (not optional) that are always sent.*

Parameters:

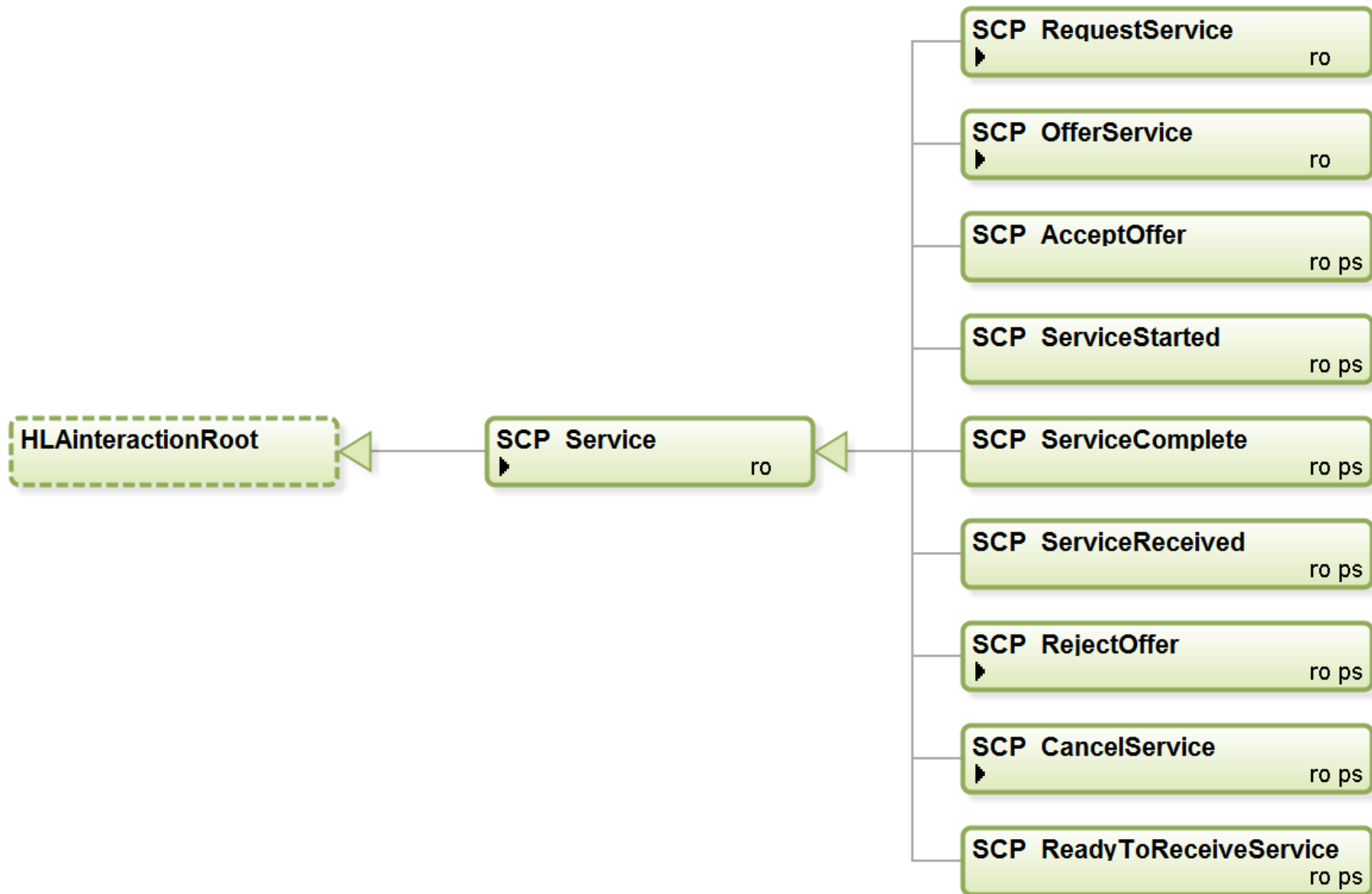
Name	Datatype	Semantics
<b>ServiceID</b>	<a href="#">NETN_ServiceIdentifier</a>	Unique identifier for a service
<b>Consumer</b>	<a href="#">Callsign</a>	Entity that has requested the service
<b>Provider</b>	<a href="#">Callsign</a>	Providing or intended provider entity. If no provider is specified and the request is a common request shall en empty string be used as the Callsign.
<b>ServiceType</b>	<a href="#">SCP_ServiceTypeEnum8</a>	Enumerated value describing the type of service

### 4.2.3. SCP\_RequestService

Full Name: HLAinteractionRoot.SCP\_Service.SCP\_RequestService

Sharing:





Transportation type: HLAreliable

Order: Receive

Dimensions:

Semantics: *The request for a service is always initiated by a SCP\_RequestService. Subclasses of this interaction for specific types of services may include parameters for detailing the requirements of this request. This may include information when, where and how the service is to be delivered.*

Parameters:

Name	Datatype	Semantics
<b>RequestTimeout</b>	<a href="#">TimeSecInt64</a>	Wallclock time. The timeout time in seconds after 1 January 1970.
<b>ServiceID</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">NETN_ServiceIdentifier</a>	Unique identifier for a service
<b>Consumer</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">Callsign</a>	Entity that has requested the service
<b>Provider</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">Callsign</a>	Providing or intended provider entity. If no provider is specified and the request is a common request shall an empty string be used as the Callsign.
<b>ServiceType</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">SCP_ServiceTypeEnum8</a>	Enumerated value describing the type of service

#### 4.2.4. SCP\_OfferService

Full Name: HLAIinteractionRoot.SCP\_Service.SCP\_OfferService

Sharing:

Transportation type: HLAreliable

Order: Receive

Dimensions:

Semantics: *The SCP\_OfferService is usually a response to a SCP\_RequestService and contains information with respect to the providing entities ability to deliver the requested service. This ability is expressed as either an offer to provide the service or no offer. Subclasses of this interaction for specific types of offers should contain more detailed description of the offer. This may include information about when, where, how the service can be delivered.*

Parameters:

Name	Datatype	Semantics
<b>IsOffering</b>	HLAboolean	Defines if the requested service is offered (=true) or not (=false). (Not Optional)

Name	Datatype	Semantics
<b>RequestTimeout</b>	<a href="#">TimeSecInt64</a>	Wallclock time. The timeout time in seconds after 1 January 1970.
<b>ServiceID</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">NETN_ServiceIdentifier</a>	Unique identifier for a service
<b>Consumer</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">Callsign</a>	Entity that has requested the service
<b>Provider</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">Callsign</a>	Providing or intended provider entity. If no provider is specified and the request is a common request shall en empty string be used as the Callsign.
<b>ServiceType</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">SCP_ServiceTypeEnum8</a>	Enumerated value describing the type of service

#### 4.2.5. SCP\_AcceptOffer

Full Name: HLAinteractionRoot.SCP\_Service.SCP\_AcceptOffer

Sharing: Publish/Subscribe

Transportation type: HLAREliable

Order: Receive

Dimensions:

Semantics: *The SCP\_AcceptOffer is used to accept an offer made by a service providing entity as indicated in a SCP\_OfferService interaction. By issuing a SCP\_AcceptOffer interaction the service consuming entity enters a contract for service delivery with the service producing entity.*

*The SCP\_AcceptOffer interaction does not define any additional parameters but subclasses may include parameters with additional information.*

Parameters:

Name	Datatype	Semantics
<b>ServiceID</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">NETN_ServiceIdentifier</a>	Unique identifier for a service
<b>Consumer</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">Callsign</a>	Entity that has requested the service
<b>Provider</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">Callsign</a>	Providing or intended provider entity. If no provider is specified and the request is a common request shall en empty string be used as the Callsign.

Name	Datatype	Semantics
<b>ServiceType</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">SCP_ServiceTypeEnum8</a>	<i>Enumerated value describing the type of service</i>

#### 4.2.6. SCP\_ServiceStarted

Full Name: HLAIinteractionRoot.SCP\_Service.SCP\_ServiceStarted

Sharing: Publish/Subscribe

Transportation type: HLAReliable

Order: Receive

Dimensions:

Semantics: *The SCP\_ServiceStarted interaction is issued by a service providing entity to inform about the start of service delivery. The time of service delivery start may be significantly later then receiving a indication from the consumer that the service delivery can start.*

*The SCP\_ServiceStarted interaction does not define any additional parameters.*

Parameters:

Name	Datatype	Semantics
<b>ServiceID</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">NETN_ServiceIdentifier</a>	<i>Unique identifier for a service</i>
<b>Consumer</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">Callsign</a>	<i>Entity that has requested the service</i>
<b>Provider</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">Callsign</a>	<i>Providing or intended provider entity. If no provider is specified and the request is a common request shall en empty string be used as the Callsign.</i>
<b>ServiceType</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">SCP_ServiceTypeEnum8</a>	<i>Enumerated value describing the type of service</i>

#### 4.2.7. SCP\_ServiceComplete

Full Name: HLAIinteractionRoot.SCP\_Service.SCP\_ServiceComplete

Sharing: Publish/Subscribe

Transportation type: HLAReliable

Order: Receive

Dimensions:

Semantics: *The SCP\_ServiceCompleted interaction is used by a service providing entity to inform the service consuming entity that the service has been delivered.*

*The SCP\_ServiceCompleted interaction does not define any additional parameters.*

Parameters:

Name	Datatype	Semantics
<b>ServiceID</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">NETN_ServiceIdentifier</a>	<i>Unique identifier for a service</i>
<b>Consumer</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">Callsign</a>	<i>Entity that has requested the service</i>
<b>Provider</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">Callsign</a>	<i>Providing or intended provider entity. If no provider is specified and the request is a common request shall an empty string be used as the Callsign.</i>
<b>ServiceType</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">SCP_ServiceTypeEnum8</a>	<i>Enumerated value describing the type of service</i>

#### 4.2.8. SCP\_ServiceReceived

Full Name: HLAinteractionRoot.SCP\_Service.SCP\_ServiceReceived

Sharing: Publish/Subscribe

Transportation type: HLAreliable

Order: Receive

Dimensions:

Semantics: *The NETN\_ServiceReceived interaction is used by a service consuming entity to inform the service providing entity that the service has been delivered.*

*The NETN\_ServiceReceived interaction does not define any additional parameters.*

Parameters:

Name	Datatype	Semantics
<b>ServiceID</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">NETN_ServiceIdentifier</a>	<i>Unique identifier for a service</i>
<b>Consumer</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">Callsign</a>	<i>Entity that has requested the service</i>

Name	Datatype	Semantics
<b>Provider</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">Callsign</a>	<i>Providing or intended provider entity. If no provider is specified and the request is a common request shall en empty string be used as the Callsign.</i>
<b>ServiceType</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">SCP_ServiceTypeEnum8</a>	<i>Enumerated value describing the type of service</i>

#### 4.2.9. SCP\_RejectOffer

Full Name: HLAinteractionRoot.SCP\_Service.SCP\_RejectOffer

Sharing: Publish/Subscribe

Transportation type: HLAreliable

Order: Receive

Dimensions:

Semantics: *The SCP\_RejectOffer is used to reject an offer made by a service providing entity as indicated in a SCP\_OfferService interaction. By issuing a SCP\_RejectOffer interaction the service consuming entity informs the providing entity that the offer has been rejected.*

Parameters:

Name	Datatype	Semantics
<b>Reason</b>	HLAASCIIstring	<i>Allows to inform about the reason of the cancel (free text)</i>
<b>ServiceID</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">NETN_ServiceIdentifier</a>	<i>Unique identifier for a service</i>
<b>Consumer</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">Callsign</a>	<i>Entity that has requested the service</i>
<b>Provider</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">Callsign</a>	<i>Providing or intended provider entity. If no provider is specified and the request is a common request shall en empty string be used as the Callsign.</i>
<b>ServiceType</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">SCP_ServiceTypeEnum8</a>	<i>Enumerated value describing the type of service</i>

#### 4.2.10. SCP\_CancelService

Full Name: HLAinteractionRoot.SCP\_Service.SCP\_CancelService

Sharing: Publish/Subscribe

Transportation type: HLAreliable

Order: Receive

Dimensions:

Semantics: *The SCP\_CancelService interaction is used by either a service consuming entity or a service providing entity to inform about early termination of the service delivery or in some cases termination of the service request before delivery has begun.*

Parameters:

Name	Datatype	Semantics
<b>Reason</b>	HLAASCIIstring	<i>Allows to inform about the reason of the cancel (free text)</i>
<b>ServiceID</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">NETN_ServiceIdentifier</a>	<i>Unique identifier for a service</i>
<b>Consumer</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">Callsign</a>	<i>Entity that has requested the service</i>
<b>Provider</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">Callsign</a>	<i>Providing or intended provider entity. If no provider is specified and the request is a common request shall en empty string be used as the Callsign.</i>
<b>ServiceType</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">SCP_ServiceTypeEnum8</a>	<i>Enumerated value describing the type of service</i>

#### 4.2.11. SCP\_ReadyToReceiveService

Full Name: HLAinteractionRoot.SCP\_Service.SCP\_ReadyToReceiveService

Sharing: Publish/Subscribe

Transportation type: HLAreliable

Order: Receive

Dimensions:

Semantics: *The SCP\_ReadyToReceiveService interaction is issued by a service consuming entity to indicate that the start of service delivery can start. The time of service delivery start may be significantly later then indicating ready for service delivery.*

*The SCP\_ReadyToReceiveService interaction does not define any additional parameters.*

Parameters:

Name	Datatype	Semantics
<b>ServiceID</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">NETN_ServiceIdentifier</a>	<i>Unique identifier for a service</i>

Name	Datatype	Semantics
<b>Consumer</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">Callsign</a>	<i>Entity that has requested the service</i>
<b>Provider</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">Callsign</a>	<i>Providing or intended provider entity. If no provider is specified and the request is a common request shall an empty string be used as the Callsign.</i>
<b>ServiceType</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">SCP_ServiceTypeEnum8</a>	<i>Enumerated value describing the type of service</i>



## 4.3. Datatypes

### 4.3.1. Enumerated Datatypes

#### SCP\_ServiceTypeEnum8

Representation: HLAoctet

Semantics: *Description of NETN services, extension of RPR2 ServiceTypeEnum8*

Enumerator	Value
Other	0
Resupply	1
Repair	2
Storage	3
Transport	4
CombatAdjudication	5

#### OfferTypeEnum32

Representation: HLAinteger32BE

Semantics: *Type of the offer (With restriction, positive, negative)*

Enumerator	Value
RequestAcknowledgeWithRestriction	0
RequestAcknowledgePositive	1
RequestAcknowledgeNegative	2

## 4.3.2. Array Datatypes

### ServiceDescription

Element Type: HLAUnicodeChar

Cardinality: Dynamic

Encoding: HLAVariableArray

Semantics: *A name associated with the service, e.g. name of the service, the issuing federate or entity (Callsign).*

### 4.3.3. Fixed Record Datatypes

#### AppointmentStruct

Encoding: HLAfixedRecord

Semantics: *Date ; Time and Location of an appointment.  
When date and time is set to zero (0), implies no date-time specification*

Name	Type	Semantic
DateTime	<a href="#">TimeSecInt64</a>	<i>Date time in second since 1 january 1970 for the appointment</i>
Location	WorldLocationStruct	<i>Location of the appointment</i>

#### NETN\_ServiceIdentifier

Encoding: HLAfixedRecord

Semantics: *An ID associated with the service, shall be unique in the federation execution.  
E.g. generate the federate id as a string and use this in the ServiceDescription.*

Name	Type	Semantic
EventCount	<a href="#">CounterInt32</a>	<i>EventCount shall start at one (1) and then incremented by one (1) for a new NETN Service Provider event and service specified in field Service.  In the case where all possible values are exhausted, the numbers may be reused beginning again at one.</i>
Service	<a href="#">ServiceDescription</a>	<i>A name associated with the service, e.g. name of the service, the issuing federate or entity (Callsign).</i>

## 4.4. Notes

### COPY-rpr2base\_7

Semantics: *Federates shall send the time at which the data is valid in the user defined tag with every attribute values update and interaction. The time shall be in the first 8 bytes (octets) of the user defined tag, using the DIS timestamp field format (see section 5.2.31 of IEEE 1278.1-1995) converted into hexadecimal ASCII character representation (0-9 and A-F). The ordering of the characters shall be in accordance with section 5.1.1 of IEEE 1278.1-1995, that is most significant octet first, with the most significant bits first (i.e. the character for bits 4-7 precedes the character for bits 0-3).*

*All federates shall transmit this field, even if they do not use it themselves, so that other federates can use its value to compensate for network transport delays.*

## 5. Module NETN-Repair\_v1.2.1

### Information

<b>Name:</b>	NETN-Repair
<b>Type:</b>	FOM
<b>Version:</b>	1.2
<b>Modification Date:</b>	2014-05-26
<b>Security Classification:</b>	unclassified
<b>Purpose:</b>	
<b>Application Domain:</b>	Training
<b>Description:</b>	NETN Logistics, Maintenance Pattern, Repair Service
<b>Use Limitation:</b>	
<b>Other:</b>	

### Primary author Point Of Contact

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<b>Organization:</b>	Pitch Technologies
<b>Telephone:</b>	+46 13 4705506
<b>Email:</b>	lennart.olsson@pitch.se

### References

<b>Dependency</b>	NETN-SCP-Base_v1.1
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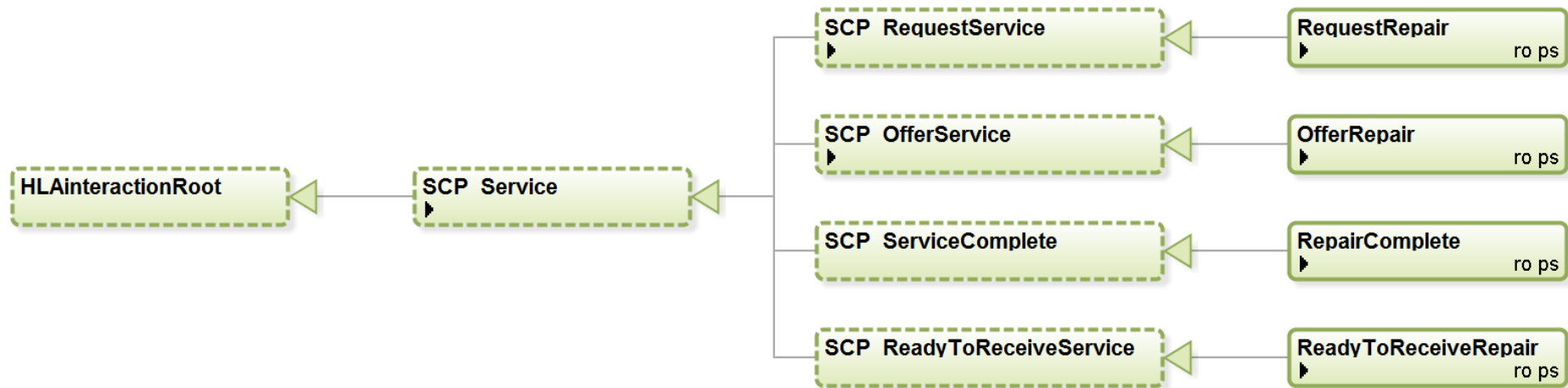
### Use History

v1.0.0 - Initial, interaction classes and datatypes from FOM modules in NETN FOM v1
v1.1.0 - Interaction class RequestRepair: Added parameter Appointment as an optional parameter. Interaction class OfferRepair: Added parameter Appointment as an optional parameter.
v1.1.1 - Semantics updates
V1.2.1 - Added new interactions, ReadyToReceiveRepair and RepairComplete

**Dependencies**

NETN-SCP-Base_v1.1.3
NETN-Base_v1.0.2
RPR-Base_v2.0
RPR-Enumerations_v2.0
RPR-Foundation_v2.0

## 5.1. Interaction Classes



### 5.1.1. HLAinteractionRoot

Full Name: HLAinteractionRoot

Sharing:

Transportation type: HLAREliable

Order: Receive

Dimensions:

Semantics:

Parameters: -

### 5.1.2. SCP\_Service

Full Name: HLAinteractionRoot.SCP\_Service

Sharing:

Transportation type: HLAREliable

Order: Receive

Dimensions:

Semantics:

Parameters:

Name	Datatype	Semantics
<b>ServiceID</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">NETN_ServiceIdentifier</a>	<i>Unique identifier for a service</i>
<b>Consumer</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">Callsign</a>	<i>Entity that has requested the service</i>
<b>Provider</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">Callsign</a>	<i>Providing or intended provider entity. If no provider is specified and the request is a common request shall en empty string be used as the Callsign.</i>
<b>ServiceType</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">SCP_ServiceTypeEnum8</a>	<i>Enumerated value describing the type of service</i>

### 5.1.3. SCP\_RequestService

Full Name: HLAinteractionRoot.SCP\_Service.SCP\_RequestService

Sharing:

Transportation type: HLAreliable

Order: Receive

Dimensions:

Semantics:

Parameters:

Name	Datatype	Semantics
<b>RequestTimeout</b> <i>Inherited from SCP_RequestService in NETN-SCP-Base_v1.1.3</i>	<a href="#">TimeSecInt64</a>	<i>Wallclock time. The timeout time in seconds after 1 January 1970.</i>
<b>ServiceID</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">NETN_ServiceIdentifier</a>	<i>Unique identifier for a service</i>
<b>Consumer</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">Callsign</a>	<i>Entity that has requested the service</i>
<b>Provider</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">Callsign</a>	<i>Providing or intended provider entity. If no provider is specified and the request is a common request shall en empty string be used as the Callsign.</i>



Name	Datatype	Semantics
<b>ServiceType</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">SCP_ServiceTypeEnum8</a>	<i>Enumerated value describing the type of service</i>

#### 5.1.4. RequestRepair

Full Name: HLAinteractionRoot.SCP\_Service.SCP\_RequestService.RequestRepair

Sharing: Publish/Subscribe

Transportation type: HLAREliable

Order: Receive

Dimensions:

Semantics: *Sent by the consumer when a repair for needed. Specifies entity and type of repair*

Parameters:

Name	Datatype	Semantics
<b>RepairData</b>	<a href="#">ArrayOfRepairStruct</a>	<i>List of all requested repairs.</i>
<b>Appointment</b>	<a href="#">AppointmentStruct</a>	<i>Time and location for the exchange of the service. Optional</i>
<b>RequestTimeOut</b> <i>Inherited from SCP_RequestService in NETN-SCP-Base_v1.1.3</i>	<a href="#">TimeSecInt64</a>	<i>Wallclock time. The timeout time in seconds after 1 January 1970.</i>
<b>ServiceID</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">NETN_ServiceIdentifier</a>	<i>Unique identifier for a service</i>
<b>Consumer</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">Callsign</a>	<i>Entity that has requested the service</i>
<b>Provider</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">Callsign</a>	<i>Providing or intended provider entity. If no provider is specified and the request is a common request shall en empty string be used as the Callsign.</i>
<b>ServiceType</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">SCP_ServiceTypeEnum8</a>	<i>Enumerated value describing the type of service</i>

#### 5.1.5. SCP\_OfferService

Full Name: HLAinteractionRoot.SCP\_Service.SCP\_OfferService

Sharing:

Transportation type: HLAREliable

Order: Receive

Dimensions:

Semantics:

Parameters:

Name	Datatype	Semantics
<b>IsOffering</b> <i>Inherited from SCP_OfferService in NETN-SCP-Base_v1.1.3</i>	HLAboolean	<i>Defines if the requested service is offered (=true) or not (=false). (Not Optional)</i>
<b>RequestTimeout</b> <i>Inherited from SCP_OfferService in NETN-SCP-Base_v1.1.3</i>	<a href="#">TimeSecInt64</a>	<i>Wallclock time. The timeout time in seconds after 1 January 1970.</i>
<b>ServiceID</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">NETN_ServiceIdentifier</a>	<i>Unique identifier for a service</i>
<b>Consumer</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">Callsign</a>	<i>Entity that has requested the service</i>
<b>Provider</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">Callsign</a>	<i>Providing or intended provider entity. If no provider is specified and the request is a common request shall an empty string be used as the Callsign.</i>
<b>ServiceType</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">SCP_ServiceTypeEnum8</a>	<i>Enumerated value describing the type of service</i>

### 5.1.6. OfferRepair

Full Name: HLAinteractionRoot.SCP\_Service.SCP\_OfferService.OfferRepair

Sharing: Publish/Subscribe

Transportation type: HLAREliable

Order: Receive

Dimensions:

Semantics: *The OfferRepair interaction class shall be sent by a federate simulating the service providing entity in response to a RequestRepair interaction.*

Parameters:

Name	Datatype	Semantics
<b>RepairData</b>	<a href="#">ArrayOfRepairStruct</a>	<i>List of the type of repairs offered. May be different from the list of requested repairs. List of all offered repairs if isOffering = true otherwise Undefined</i>
<b>Appointment</b>	<a href="#">AppointmentStruct</a>	<i>Time and location for the exchange of the service. Optional</i>

Name	Datatype	Semantics
<b>IsOffering</b> <i>Inherited from SCP_OfferService in NETN-SCP-Base_v1.1.3</i>	HLABoolean	<i>Defines if the requested service is offered (=true) or not (=false). (Not Optional)</i>
<b>RequestTimeout</b> <i>Inherited from SCP_OfferService in NETN-SCP-Base_v1.1.3</i>	<a href="#">TimeSecInt64</a>	<i>Wallclock time. The timeout time in seconds after 1 January 1970.</i>
<b>ServiceID</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">NETN_ServiceIdentifier</a>	<i>Unique identifier for a service</i>
<b>Consumer</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">Callsign</a>	<i>Entity that has requested the service</i>
<b>Provider</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">Callsign</a>	<i>Providing or intended provider entity. If no provider is specified and the request is a common request shall en empty string be used as the Callsign.</i>
<b>ServiceType</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">SCP_ServiceTypeEnum8</a>	<i>Enumerated value describing the type of service</i>

### 5.1.7. SCP\_ServiceComplete

Full Name: HLAinteractionRoot.SCP\_Service.SCP\_ServiceComplete

Sharing:

Transportation type: HLAREliable

Order: Receive

Dimensions:

Semantics:

Parameters:

Name	Datatype	Semantics
<b>ServiceID</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">NETN_ServiceIdentifier</a>	<i>Unique identifier for a service</i>
<b>Consumer</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">Callsign</a>	<i>Entity that has requested the service</i>
<b>Provider</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">Callsign</a>	<i>Providing or intended provider entity. If no provider is specified and the request is a common request shall en empty string be used as the Callsign.</i>

Name	Datatype	Semantics
<b>ServiceType</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">SCP_ServiceTypeEnum8</a>	<i>Enumerated value describing the type of service</i>

### 5.1.8. RepairComplete

Full Name: HLInteractionRoot.SCP\_Service.SCP\_ServiceComplete.RepairComplete

Sharing: Publish/Subscribe

Transportation type: HLReliable

Order: Receive

Dimensions:

Semantics: *This interaction is sent by the provider when the repair service is delivered to the consumer*

Parameters:

Name	Datatype	Semantics
<b>RepairData</b>	<a href="#">ArrayOfRepairStruct</a>	<i>List of the type of repairs done. May be different from the list of requested repairs.</i>
<b>ServiceID</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">NETN_ServiceIdentifier</a>	<i>Unique identifier for a service</i>
<b>Consumer</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">Callsign</a>	<i>Entity that has requested the service</i>
<b>Provider</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">Callsign</a>	<i>Providing or intended provider entity. If no provider is specified and the request is a common request shall an empty string be used as the Callsign.</i>
<b>ServiceType</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">SCP_ServiceTypeEnum8</a>	<i>Enumerated value describing the type of service</i>

### 5.1.9. SCP\_ReadyToReceiveService

Full Name: HLInteractionRoot.SCP\_Service.SCP\_ReadyToReceiveService

Sharing:

Transportation type: HLReliable

Order: Receive

Dimensions:

Semantics:

Parameters:

Name	Datatype	Semantics
<b>ServiceID</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">NETN_ServiceIdentifier</a>	<i>Unique identifier for a service</i>
<b>Consumer</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">Callsign</a>	<i>Entity that has requested the service</i>
<b>Provider</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">Callsign</a>	<i>Providing or intended provider entity. If no provider is specified and the request is a common request shall en empty string be used as the Callsign.</i>
<b>ServiceType</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">SCP_ServiceTypeEnum8</a>	<i>Enumerated value describing the type of service</i>

#### 5.1.10. ReadyToReceiveRepair

Full Name: HLAinteractionRoot.SCP\_Service.SCP\_ReadyToReceiveService.ReadyToReceiveRepair

Sharing: Publish/Subscribe

Transportation type: HLAreliable

Order: Receive

Dimensions:

Semantics: *This interaction is sent when the consumer is ready to receive the repair service.  
(At same location as the provider)*

Parameters:

Name	Datatype	Semantics
<b>RepairData</b>	<a href="#">ArrayOfRepairStruct</a>	<i>The repairs, by type, that the consumer is able to accept at the time it declares ReadyToReceive.</i>
<b>ServiceID</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">NETN_ServiceIdentifier</a>	<i>Unique identifier for a service</i>
<b>Consumer</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">Callsign</a>	<i>Entity that has requested the service</i>
<b>Provider</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">Callsign</a>	<i>Providing or intended provider entity. If no provider is specified and the request is a common request shall en empty string be used as the Callsign.</i>
<b>ServiceType</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">SCP_ServiceTypeEnum8</a>	<i>Enumerated value describing the type of service</i>

## 5.2. Datatypes

### 5.2.1. Enumerated Datatypes

#### NETN\_RepairTypeEnum16

Representation: HLAinteger16BE

Semantics: *Same enumeration as RPR2 RepairTypeEnum16.*

Enumerator	Value
NoRepairsPerformed	0
AllRequestedRepairsPerformed	1
MotorOrEngine	10
Starter	20
Alternator	30
Generator	40
Battery	50
EngineCoolantLeak	60
FuelFilter	70
TransmissionOilLeak	80
EngineOilLeak	90
Pumps	100
Filters	110
Transmission	120
Brakes	130
SuspensionSystem	140
OilFilter	150
Hull	1000
Airframe	1010
TruckBody	1020

Enumerator	Value
TankBody	1030
TrailerBody	1040
Turret	1050
Propeller	1500
EnvironmentalFilters	1520
Wheels	1540
Tire	1550
Track	1560
GunElevationDrive	2000
GunStabilizationSystem	2010
GunnersPrimarySight_lt_GPS_gt_	2020
CommandersExtensionToTheGPS	2030
LoadingMechanism	2040
GunnersAuxiliarySight	2050
GunnersControlPanel	2060
GunnersControlAssemblyHandle_slsh_Handles	2070
CommandersControlHandles_slsh_Assembly	2090
CommandersWeaponStation	2100
CommandersIndependentThermalViewer_lt_CITV_gt_	2110
GeneralWeapons	2120
FuelTransferPump	4000
FuelLines	4010
Gauges	4020
GeneralFuelSystem	4030
ElectronicWarfareSystems	4500
DetectionSystems	4600
ElectronicWarfareRadioFrequency	4610

Enumerator	Value
ElectronicWarfareMicrowave	4620
ElectronicWarfareInfrared	4630
ElectronicWarfareLaser	4640
RangeFinders	4700
Range-OnlyRadar	4710
LaserRangeFinder	4720
ElectronicSystems	4800
ElectronicSystemsRadioFrequency	4810
ElectronicSystemsMicrowave	4820
ElectronicSystemsInfrared	4830
ElectronicSystemsLaser	4840
Radios	5000
CommunicationSystems	5010
Intercoms	5100
Encoders	5200
EncryptionDevices	5250
Decoders	5300
DecryptionDevices	5350
Computers	5500
NavigationAndControlSystems	6000
FireControlSystems	6500
AirSupply	8000
LifeSupportFilters	8010
LifeSupportWaterSupply	8020
RefrigerationSystem	8030
ChemicalBiologicalAndRadiologicalProtection	8040
WaterWashDownSystems	8050



Enumerator	Value
DecontaminationSystems	8060
HydraulicSystemWaterSupply	9000
CoolingSystem	9010
Winches	9020
Catapults	9030
Cranes	9040
Launchers	9050
LifeBoats	10000
LandingCraft	10010
EjectionSeats	10020
OtherAuxiliaryCraftToBeDefined	10030

## 5.2.2. Array Datatypes

### ArrayOfRepairStruct

Element Type: [RepairStruct](#)

Cardinality: Dynamic

Encoding: HLVariableArray

Semantics: *List of repair descriptions (equipment and type of repairs).*

### ArrayOfRepairTypeEnum

Element Type: [NETN\\_RepairTypeEnum16](#)

Cardinality: Dynamic

Encoding: HLVariableArray

Semantics: *List of repair types*

5.2.3. Fixed Record Datatypes

RepairStruct

Encoding: HLAfixedRecord  
Semantics: Repairs associated with a specific material

Name	Type	Semantic
MaterialID	<a href="#">UuidArrayOfHLAbyte16</a>	UUID for the material.
Repairs	<a href="#">ArrayOfRepairTypeEnum</a>	List of the types of repair associated with the material.

## 6. Module NETN-Storage\_v1.2.2

### Information

<b>Name:</b>	NETN-Storage
<b>Type:</b>	FOM
<b>Version:</b>	1.2
<b>Modification Date:</b>	2013-10-24
<b>Security Classification:</b>	unclassified
<b>Purpose:</b>	
<b>Application Domain:</b>	Training
<b>Description:</b>	NETN Logistics, Supply Pattern, Storage Service
<b>Use Limitation:</b>	
<b>Other:</b>	

### Primary author Point Of Contact

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### References

<b>Dependency</b>	NETN-SCP-Base_v1.1
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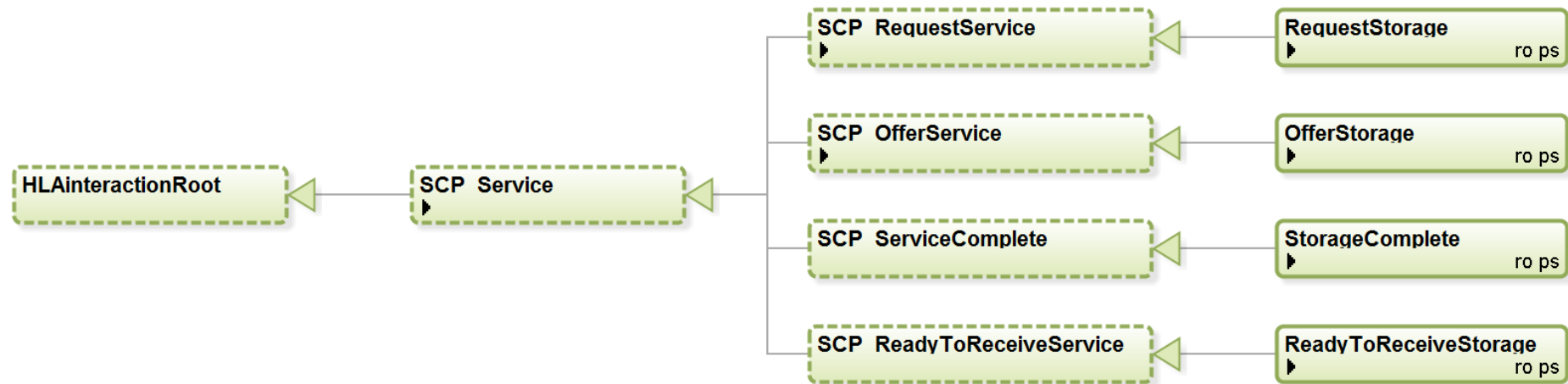
### Use History

v1.0.0 - Initial, Interaction classes from NETN FOM v1, NETN_Logistics_v1.1.2
v1.1.0 - Removed interaction StorageStarted. Interaction class RequestStorage: Added parameter Appointment as an optional parameter. Interaction class OfferStorage: Added parameter Appointment as an optional parameter.
v1.2.0 - Added two interactions, StorageComplete and ReadyToReceiveStorage
v1.2.1 - Updated semantics
v1.2.2 - Updated References, Dependency

**Dependencies**

NETN-SCP-Base_v1.1.3
NETN-Base_v1.0.2
RPR-Base_v2.0
RPR-Enumerations_v2.0
RPR-Foundation_v2.0

## 6.1. Interaction Classes



### 6.1.1. HLAinteractionRoot

Full Name: HLAinteractionRoot

Sharing:

Transportation type: HLAreliable

Order: Receive

Dimensions:

Semantics:

Parameters: -

### 6.1.2. SCP\_Service

Full Name: HLAinteractionRoot.SCP\_Service

Sharing:

Transportation type: HLAreliable

Order: Receive

Dimensions:

Semantics:

Parameters:

Name	Datatype	Semantics
<b>ServiceID</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">NETN_ServiceIdentifier</a>	<i>Unique identifier for a service</i>
<b>Consumer</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">Callsign</a>	<i>Entity that has requested the service</i>
<b>Provider</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">Callsign</a>	<i>Providing or intended provider entity. If no provider is specified and the request is a common request shall en empty string be used as the Callsign.</i>
<b>ServiceType</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">SCP_ServiceTypeEnum8</a>	<i>Enumerated value describing the type of service</i>

**6.1.3. SCP\_RequestService**

Full Name: HLAinteractionRoot.SCP\_Service.SCP\_RequestService

Sharing:

Transportation type: HLAreliable

Order: Receive

Dimensions:

Semantics:

Parameters:

Name	Datatype	Semantics
<b>RequestTimeout</b> <i>Inherited from SCP_RequestService in NETN-SCP-Base_v1.1.3</i>	<a href="#">TimeSecInt64</a>	<i>Wallclock time. The timeout time in seconds after 1 January 1970.</i>
<b>ServiceID</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">NETN_ServiceIdentifier</a>	<i>Unique identifier for a service</i>
<b>Consumer</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">Callsign</a>	<i>Entity that has requested the service</i>
<b>Provider</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">Callsign</a>	<i>Providing or intended provider entity. If no provider is specified and the request is a common request shall en empty string be used as the Callsign.</i>

Name	Datatype	Semantics
<b>ServiceType</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">SCP_ServiceTypeEnum8</a>	<i>Enumerated value describing the type of service</i>

#### 6.1.4. RequestStorage

Full Name: HLAinteractionRoot.SCP\_Service.SCP\_RequestService.RequestStorage

Sharing: Publish/Subscribe

Transportation type: HLAREliable

Order: Receive

Dimensions:

Semantics: *RequestStorage is used by a consumer to initiate a request for storage of supplies. The amount and type of material is included in the request.*

Parameters:

Name	Datatype	Semantics
<b>SuppliesData</b>	<a href="#">NETN_ArrayOfSupplyStruct</a>	<i>Specifies the supply (type and quantity)</i>
<b>LoadingDoneByProvider</b>	HLAboolean	<i>Proposes whether the service provider (LoadingDoneByProvider = true) or the service consumer (LoadingDoneByProvider = false) takes care of the (un)loading of the material. Default value is true.</i>
<b>Appointment</b>	<a href="#">AppointmentStruct</a>	<i>The time and location for the exchange of the service. Optional</i>
<b>RequestTimeOut</b> <i>Inherited from SCP_RequestService in NETN-SCP-Base_v1.1.3</i>	<a href="#">TimeSecInt64</a>	<i>Wallclock time. The timeout time in seconds after 1 January 1970.</i>
<b>ServiceID</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">NETN_ServiceIdentifier</a>	<i>Unique identifier for a service</i>
<b>Consumer</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">Callsign</a>	<i>Entity that has requested the service</i>
<b>Provider</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">Callsign</a>	<i>Providing or intended provider entity. If no provider is specified and the request is a common request shall an empty string be used as the Callsign.</i>
<b>ServiceType</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">SCP_ServiceTypeEnum8</a>	<i>Enumerated value describing the type of service</i>

#### 6.1.5. SCP\_OfferService



Full Name: HLAinteractionRoot.SCP\_Service.SCP\_OfferService

Sharing:

Transportation type: HLAreliable

Order: Receive

Dimensions:

Semantics:

Parameters:

Name	Datatype	Semantics
<b>IsOffering</b> <i>Inherited from SCP_OfferService in NETN-SCP-Base_v1.1.3</i>	HLAboolean	<i>Defines if the requested service is offered (=true) or not (=false). (Not Optional)</i>
<b>RequestTimeout</b> <i>Inherited from SCP_OfferService in NETN-SCP-Base_v1.1.3</i>	<a href="#">TimeSecInt64</a>	<i>Wallclock time. The timeout time in seconds after 1 January 1970.</i>
<b>ServiceID</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">NETN_ServiceIdentifier</a>	<i>Unique identifier for a service</i>
<b>Consumer</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">Callsign</a>	<i>Entity that has requested the service</i>
<b>Provider</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">Callsign</a>	<i>Providing or intended provider entity. If no provider is specified and the request is a common request shall an empty string be used as the Callsign.</i>
<b>ServiceType</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">SCP_ServiceTypeEnum8</a>	<i>Enumerated value describing the type of service</i>

### 6.1.6. OfferStorage

Full Name: HLAinteractionRoot.SCP\_Service.SCP\_OfferService.OfferStorage

Sharing: Publish/Subscribe

Transportation type: HLAreliable

Order: Receive

Dimensions:

Semantics: *OfferStorage is used by a storage service provider to indicate which (amount and type) of the requested material can be stored.*

Parameters:

Name	Datatype	Semantics
<b>SuppliesData</b>	<a href="#">NETN_ArrayOfSupplyStruct</a>	<i>Specifies the supply (type and quantity)</i>
<b>LoadingDoneByProvider</b>	HLABoolean	<i>Determines whether the service provider (LoadingDoneByProvider = true) or the service consumer (LoadingDoneByProvider = false) takes care of the (un)loading of the material. Default value is true.</i>
<b>Appointment</b>	<a href="#">AppointmentStruct</a>	<i>The time and location for the exchange of the service. Optional</i>
<b>IsOffering</b> <i>Inherited from SCP_OfferService in NETN-SCP-Base_v1.1.3</i>	HLABoolean	<i>Defines if the requested service is offered (=true) or not (=false). (Not Optional)</i>
<b>RequestTimeout</b> <i>Inherited from SCP_OfferService in NETN-SCP-Base_v1.1.3</i>	<a href="#">TimeSecInt64</a>	<i>Wallclock time. The timeout time in seconds after 1 January 1970.</i>
<b>ServiceID</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">NETN_ServiceIdentifier</a>	<i>Unique identifier for a service</i>
<b>Consumer</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">Callsign</a>	<i>Entity that has requested the service</i>
<b>Provider</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">Callsign</a>	<i>Providing or intended provider entity. If no provider is specified and the request is a common request shall an empty string be used as the Callsign.</i>
<b>ServiceType</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">SCP_ServiceTypeEnum8</a>	<i>Enumerated value describing the type of service</i>

### 6.1.7. SCP\_ServiceComplete

Full Name: HLAinteractionRoot.SCP\_Service.SCP\_ServiceComplete

Sharing:

Transportation type: HLAReliable

Order: Receive

Dimensions:

Semantics:

Parameters:

Name	Datatype	Semantics
<b>ServiceID</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">NETN_ServiceIdentifier</a>	<i>Unique identifier for a service</i>

Name	Datatype	Semantics
<b>Consumer</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">Callsign</a>	<i>Entity that has requested the service</i>
<b>Provider</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">Callsign</a>	<i>Providing or intended provider entity. If no provider is specified and the request is a common request shall en empty string be used as the Callsign.</i>
<b>ServiceType</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">SCP_ServiceTypeEnum8</a>	<i>Enumerated value describing the type of service</i>

### 6.1.8. StorageComplete

Full Name: HLAinteractionRoot.SCP\_Service.SCP\_ServiceComplete.StorageComplete

Sharing: Publish/Subscribe

Transportation type: HLAreliable

Order: Receive

Dimensions:

Semantics: *This interaction is sent by the provider when the supply is delivered to the provider*

Parameters:

Name	Datatype	Semantics
<b>SuppliesData</b>	<a href="#">NETN_ArrayOfSupplyStruct</a>	<i>This interaction is sent by the provider when all supply is received by the provider</i>
<b>ServiceID</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">NETN_ServiceIdentifier</a>	<i>Unique identifier for a service</i>
<b>Consumer</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">Callsign</a>	<i>Entity that has requested the service</i>
<b>Provider</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">Callsign</a>	<i>Providing or intended provider entity. If no provider is specified and the request is a common request shall en empty string be used as the Callsign.</i>
<b>ServiceType</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">SCP_ServiceTypeEnum8</a>	<i>Enumerated value describing the type of service</i>

### 6.1.9. SCP\_ReadyToReceiveService

Full Name: HLAinteractionRoot.SCP\_Service.SCP\_ReadyToReceiveService

Sharing:

Transportation type: HLAreliable

Order: Receive

Dimensions:

Semantics:

Parameters:

Name	Datatype	Semantics
<b>ServiceID</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">NETN_ServiceIdentifier</a>	<i>Unique identifier for a service</i>
<b>Consumer</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">Callsign</a>	<i>Entity that has requested the service</i>
<b>Provider</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">Callsign</a>	<i>Providing or intended provider entity. If no provider is specified and the request is a common request shall an empty string be used as the Callsign.</i>
<b>ServiceType</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">SCP_ServiceTypeEnum8</a>	<i>Enumerated value describing the type of service</i>

**6.1.10. ReadyToReceiveStorage**

Full Name: HLAIinteractionRoot.SCP\_Service.SCP\_ReadyToReceiveService.ReadyToReceiveStorage

Sharing: Publish/Subscribe

Transportation type: HLAreliable

Order: Receive

Dimensions:

Semantics: *This interaction is sent when the consumer is ready to deliver the supply (receive storage).  
(At same location as the provider)*

Parameters:

Name	Datatype	Semantics
<b>SuppliesData</b>	<a href="#">NETN_ArrayOfSupplyStruct</a>	<i>This interaction is sent when the consumer is ready to transfer the supply. (At same location as the provider)</i>
<b>ServiceID</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">NETN_ServiceIdentifier</a>	<i>Unique identifier for a service</i>
<b>Consumer</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">Callsign</a>	<i>Entity that has requested the service</i>

Name	Datatype	Semantics
<b>Provider</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">Callsign</a>	<i>Providing or intended provider entity. If no provider is specified and the request is a common request shall en empty string be used as the Callsign.</i>
<b>ServiceType</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">SCP_ServiceTypeEnum8</a>	<i>Enumerated value describing the type of service</i>

## 7. Module NETN-Supply\_v1.1.2

### Information

<b>Name:</b>	NETN-Supply
<b>Type:</b>	FOM
<b>Version:</b>	1.1
<b>Modification Date:</b>	2013-10-24
<b>Security Classification:</b>	unclassified
<b>Purpose:</b>	
<b>Application Domain:</b>	Training
<b>Description:</b>	NETN Logistics, Supply Pattern, Supply Service. Replaces RPR Supply logistics
<b>Use Limitation:</b>	
<b>Other:</b>	

### Primary author Point Of Contact

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<b>Organization:</b>	Pitch Technologies
<b>Telephone:</b>	+46 13 4705506
<b>Email:</b>	lennart.olsson@pitch.se

### References

<b>Dependency</b>	NETN-SCP-Base_v1.1
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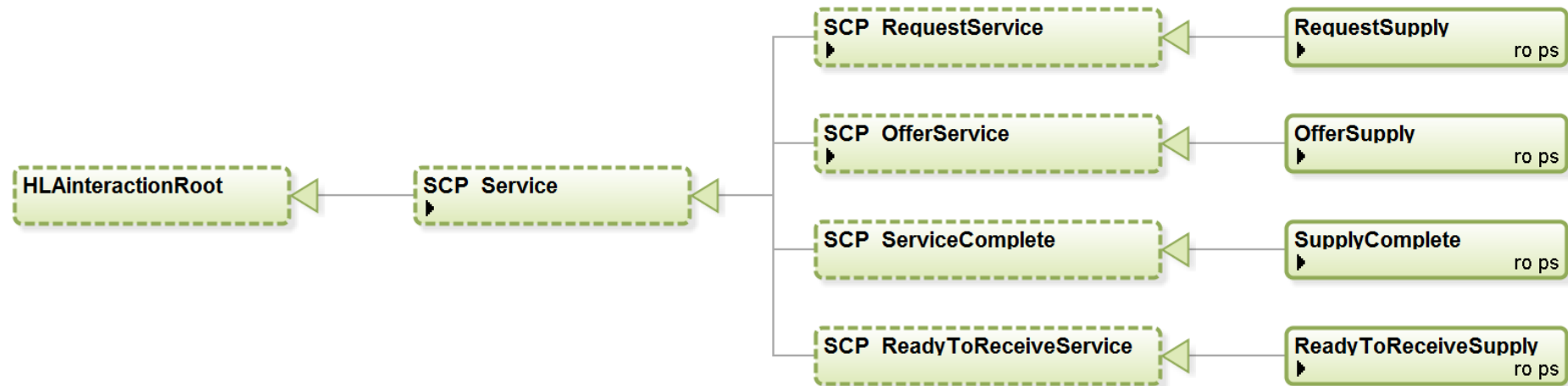
### Use History

v1.0.0 - Initial, interaction classes and datatypes from FOM modules in NETN FOM v1
v1.1.0 - Interaction class RequestSupply: Added parameter Appointment as an optional parameter. Interaction class OfferSupply: Added parameter Appointment as an optional parameter.
v1.1.1 - Update of semantics
v1.1.2 - Updated References, Dependency

**Dependencies**

NETN-SCP-Base_v1.1.3
NETN-Base_v1.0.2
RPR-Base_v2.0
RPR-Enumerations_v2.0
RPR-Foundation_v2.0

## 7.1. Interaction Classes



### 7.1.1. HLAinteractionRoot

Full Name: HLAinteractionRoot

Sharing:

Transportation type: HLAreliable

Order: Receive

Dimensions:

Semantics:

Parameters: -

### 7.1.2. SCP\_Service

Full Name: HLAinteractionRoot.SCP\_Service

Sharing:

Transportation type: HLAreliable

Order: Receive



Dimensions:

Semantics:

Parameters:

Name	Datatype	Semantics
<b>ServiceID</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">NETN_ServiceIdentifier</a>	<i>Unique identifier for a service</i>
<b>Consumer</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">Callsign</a>	<i>Entity that has requested the service</i>
<b>Provider</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">Callsign</a>	<i>Providing or intended provider entity. If no provider is specified and the request is a common request shall en empty string be used as the Callsign.</i>
<b>ServiceType</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">SCP_ServiceTypeEnum8</a>	<i>Enumerated value describing the type of service</i>

**7.1.3. SCP\_RequestService**

Full Name: HLAinteractionRoot.SCP\_Service.SCP\_RequestService

Sharing:

Transportation type: HLAreliable

Order: Receive

Dimensions:

Semantics:

Parameters:

Name	Datatype	Semantics
<b>RequestTimeout</b> <i>Inherited from SCP_RequestService in NETN-SCP-Base_v1.1.3</i>	<a href="#">TimeSecInt64</a>	<i>Wallclock time. The timeout time in seconds after 1 January 1970.</i>
<b>ServiceID</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">NETN_ServiceIdentifier</a>	<i>Unique identifier for a service</i>
<b>Consumer</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">Callsign</a>	<i>Entity that has requested the service</i>
<b>Provider</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">Callsign</a>	<i>Providing or intended provider entity. If no provider is specified and the request is a common request shall en empty string be used as the Callsign.</i>

Name	Datatype	Semantics
<b>ServiceType</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">SCP_ServiceTypeEnum8</a>	<i>Enumerated value describing the type of service</i>

#### 7.1.4. RequestSupply

Full Name: HLAinteractionRoot.SCP\_Service.SCP\_RequestService.RequestSupply

Sharing: Publish/Subscribe

Transportation type: HLAREliable

Order: Receive

Dimensions:

Semantics: *RequestSupply is used by a consumer to initiate a request for supply from a supply service provider. The amount and type of material is included in the request. In this request the consumer propose whether the loading is done by the provider or by the consumer.*

Parameters:

Name	Datatype	Semantics
<b>SuppliesData</b>	<a href="#">NETN_ArrayOfSupplyStruct</a>	<i>List of type and quantity of supplies requested.</i>
<b>LoadingDoneByProvider</b>	HLAboolean	<i>Proposes whether the service provider (LoadingDoneByProvider = true) or the service consumer (LoadingDoneByProvider = false) takes care of the (un)loading of the material. Default value is true.</i>
<b>Appointment</b>	<a href="#">AppointmentStruct</a>	<i>Time and location for the exchange of the service. Optional</i>
<b>RequestTimeOut</b> <i>Inherited from SCP_RequestService in NETN-SCP-Base_v1.1.3</i>	<a href="#">TimeSecInt64</a>	<i>Wallclock time. The timeout time in seconds after 1 January 1970.</i>
<b>ServiceID</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">NETN_ServiceIdentifier</a>	<i>Unique identifier for a service</i>
<b>Consumer</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">Callsign</a>	<i>Entity that has requested the service</i>
<b>Provider</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">Callsign</a>	<i>Providing or intended provider entity. If no provider is specified and the request is a common request shall an empty string be used as the Callsign.</i>
<b>ServiceType</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">SCP_ServiceTypeEnum8</a>	<i>Enumerated value describing the type of service</i>

**7.1.5. SCP\_OfferService**

Full Name: HLAinteractionRoot.SCP\_Service.SCP\_OfferService

Sharing:

Transportation type: HLAreliable

Order: Receive

Dimensions:

Semantics:

Parameters:

Name	Datatype	Semantics
<b>IsOffering</b> <i>Inherited from SCP_OfferService in NETN-SCP-Base_v1.1.3</i>	HLAboolean	<i>Defines if the requested service is offered (=true) or not (=false). (Not Optional)</i>
<b>RequestTimeout</b> <i>Inherited from SCP_OfferService in NETN-SCP-Base_v1.1.3</i>	<a href="#">TimeSecInt64</a>	<i>Wallclock time. The timeout time in seconds after 1 January 1970.</i>
<b>ServiceID</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">NETN_ServiceIdentifier</a>	<i>Unique identifier for a service</i>
<b>Consumer</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">Callsign</a>	<i>Entity that has requested the service</i>
<b>Provider</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">Callsign</a>	<i>Providing or intended provider entity. If no provider is specified and the request is a common request shall en empty string be used as the Callsign.</i>
<b>ServiceType</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">SCP_ServiceTypeEnum8</a>	<i>Enumerated value describing the type of service</i>

**7.1.6. OfferSupply**

Full Name: HLAinteractionRoot.SCP\_Service.SCP\_OfferService.OfferSupply

Sharing: Publish/Subscribe

Transportation type: HLAreliable

Order: Receive

Dimensions:

Semantics: *OfferSupply is used by a supply service provider to indicate which of the requested materials (amount and type) can be offered. In this request the consumer decides whether the loading is done by the provider or by the consumer.*

Parameters:

Name	Datatype	Semantics
<b>SuppliesData</b>	<a href="#">NETN_ArrayOfSupplyStruct</a>	List of type and quantity of supplies offered. May be different from the list of requested supplies. All offered supplies if isOffering = true otherwise Undefined
<b>LoadingDoneByProvider</b>	HLAboolean	Determines whether the service provider (LoadingDoneByProvider = true) or the service consumer (LoadingDoneByProvider = false) takes care of the (un)loading of the material. Default value is true.
<b>Appointment</b>	<a href="#">AppointmentStruct</a>	Time and location for the exchange of the service. Optional
<b>IsOffering</b> <i>Inherited from SCP_OfferService in NETN-SCP-Base_v1.1.3</i>	HLAboolean	Defines if the requested service is offered (=true) or not (=false). (Not Optional)
<b>RequestTimeout</b> <i>Inherited from SCP_OfferService in NETN-SCP-Base_v1.1.3</i>	<a href="#">TimeSecInt64</a>	Wallclock time. The timeout time in seconds after 1 January 1970.
<b>ServiceID</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">NETN_ServiceIdentifier</a>	Unique identifier for a service
<b>Consumer</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">Callsign</a>	Entity that has requested the service
<b>Provider</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">Callsign</a>	Providing or intended provider entity. If no provider is specified and the request is a common request shall an empty string be used as the Callsign.
<b>ServiceType</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">SCP_ServiceTypeEnum8</a>	Enumerated value describing the type of service

#### 7.1.7. SCP\_ServiceComplete

Full Name: HLAinteractionRoot.SCP\_Service.SCP\_ServiceComplete

Sharing:

Transportation type: HLAreliable

Order: Receive

Dimensions:

Semantics:

## Parameters:

Name	Datatype	Semantics
<b>ServiceID</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">NETN_ServiceIdentifier</a>	<i>Unique identifier for a service</i>
<b>Consumer</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">Callsign</a>	<i>Entity that has requested the service</i>
<b>Provider</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">Callsign</a>	<i>Providing or intended provider entity. If no provider is specified and the request is a common request shall en empty string be used as the Callsign.</i>
<b>ServiceType</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">SCP_ServiceTypeEnum8</a>	<i>Enumerated value describing the type of service</i>

## 7.1.8. SupplyComplete

Full Name: HLAinteractionRoot.SCP\_Service.SCP\_ServiceComplete.SupplyComplete

Sharing: Publish/Subscribe

Transportation type: HLAreliable

Order: Receive

Dimensions:

Semantics: *This interaction is sent by the provider when the supply is delivered to the consumer*

## Parameters:

Name	Datatype	Semantics
<b>SuppliesData</b>	<a href="#">NETN_ArrayOfSupplyStruct</a>	<i>The amount of supplies, by type, that were transferred from provider to consumer.</i>
<b>ServiceID</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">NETN_ServiceIdentifier</a>	<i>Unique identifier for a service</i>
<b>Consumer</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">Callsign</a>	<i>Entity that has requested the service</i>
<b>Provider</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">Callsign</a>	<i>Providing or intended provider entity. If no provider is specified and the request is a common request shall en empty string be used as the Callsign.</i>
<b>ServiceType</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">SCP_ServiceTypeEnum8</a>	<i>Enumerated value describing the type of service</i>

### 7.1.9. SCP\_ReadyToReceiveService

Full Name: HLInteractionRoot.SCP\_Service.SCP\_ReadyToReceiveService

Sharing:

Transportation type: HLAreliable

Order: Receive

Dimensions:

Semantics:

Parameters:

Name	Datatype	Semantics
<b>ServiceID</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">NETN_ServiceIdentifier</a>	<i>Unique identifier for a service</i>
<b>Consumer</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">Callsign</a>	<i>Entity that has requested the service</i>
<b>Provider</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">Callsign</a>	<i>Providing or intended provider entity. If no provider is specified and the request is a common request shall en empty string be used as the Callsign.</i>
<b>ServiceType</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">SCP_ServiceTypeEnum8</a>	<i>Enumerated value describing the type of service</i>

### 7.1.10. ReadyToReceiveSupply

Full Name: HLInteractionRoot.SCP\_Service.SCP\_ReadyToReceiveService.ReadyToReceiveSupply

Sharing: Publish/Subscribe

Transportation type: HLAreliable

Order: Receive

Dimensions:

Semantics: *This interaction is sent when the consumer is ready to receive the supply. (At same location as the provider)*

Parameters:

Name	Datatype	Semantics
<b>SuppliesData</b>	<a href="#">NETN_ArrayOfSupplyStruct</a>	<i>The amount of supplies, by type, that the consumer is able to accept at the time it declares ReadyToReceive.</i>

Name	Datatype	Semantics
<b>ServiceID</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">NETN_ServiceIdentifier</a>	<i>Unique identifier for a service</i>
<b>Consumer</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">Callsign</a>	<i>Entity that has requested the service</i>
<b>Provider</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">Callsign</a>	<i>Providing or intended provider entity. If no provider is specified and the request is a common request shall an empty string be used as the Callsign.</i>
<b>ServiceType</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">SCP_ServiceTypeEnum8</a>	<i>Enumerated value describing the type of service</i>

## 8. Module NETN-Transport\_v1.1.2

### Information

<b>Name:</b>	NETN-Transport
<b>Type:</b>	FOM
<b>Version:</b>	1.1
<b>Modification Date:</b>	2013-10-24
<b>Security Classification:</b>	unclassified
<b>Purpose:</b>	
<b>Application Domain:</b>	Training
<b>Description:</b>	NETN Logistics, Transport Pattern
<b>Use Limitation:</b>	
<b>Other:</b>	

### References

<b>Dependency</b>	NETN-SCP-Base_v1.1
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### Use History

v1.0.0 - Initial, interaction classes and datatypes from FOM modules in NETN FOM v1
v1.0.1 - Updated datatypes DataEDStruct and DataTStruct, switch order on fields.
v1.1.0 - Removed Interaction Classes: RejectOfferTransport and CancelTransport. Moved fixed record AppointmentStruct to module NETN-SCP-Base
v1.1.1 - Update of semantics
v1.1.2 - Updated References, Dependency

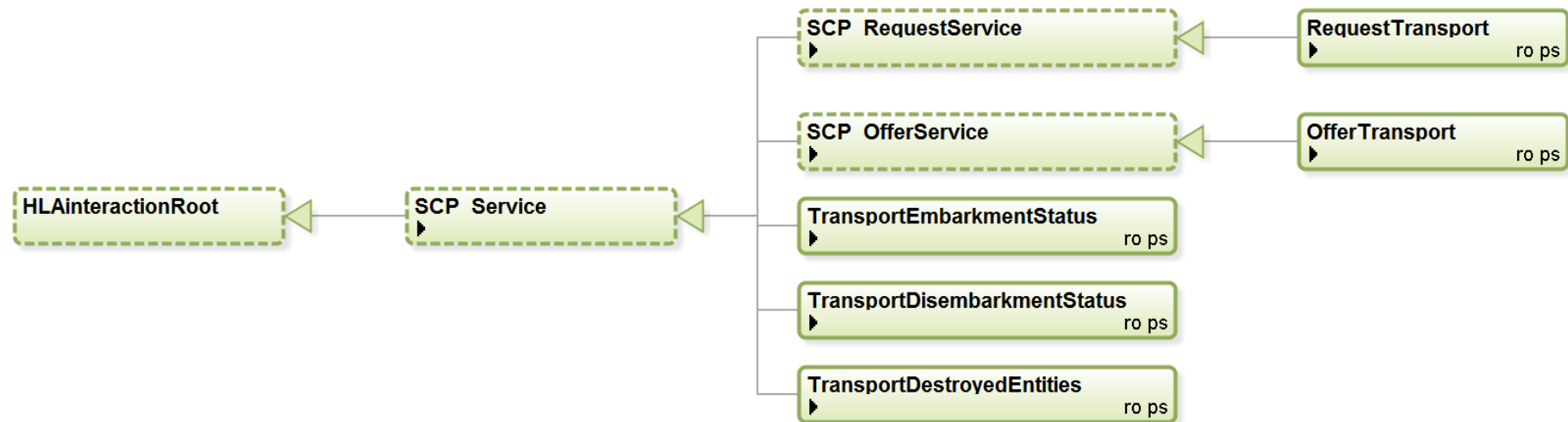
### Dependencies

NETN-SCP-Base_v1.1.3
NETN-Base_v1.0.2
RPR-Base_v2.0
RPR-Enumerations_v2.0



RPR-Foundation_v2.0
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## 8.1. Interaction Classes



### 8.1.1. HLAinteractionRoot

Full Name: HLAinteractionRoot

Sharing:

Transportation type: HLAreliable

Order: Receive

Dimensions:

Semantics:

Parameters: -

### 8.1.2. SCP\_Service

Full Name: HLAinteractionRoot.SCP\_Service

Sharing:

Transportation type: HLAreliable

Order: Receive

Dimensions:

Semantics:

Parameters:

Name	Datatype	Semantics
<b>ServiceID</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">NETN_ServiceIdentifier</a>	<i>Unique identifier for a service</i>
<b>Consumer</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">Callsign</a>	<i>Entity that has requested the service</i>
<b>Provider</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">Callsign</a>	<i>Providing or intended provider entity. If no provider is specified and the request is a common request shall en empty string be used as the Callsign.</i>
<b>ServiceType</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">SCP_ServiceTypeEnum8</a>	<i>Enumerated value describing the type of service</i>

### 8.1.3. SCP\_RequestService

Full Name: HLInteractionRoot.SCP\_Service.SCP\_RequestService

Sharing:

Transportation type: HLReliable

Order: Receive

Dimensions:

Semantics:

Parameters:

Name	Datatype	Semantics
<b>RequestTimeOut</b> <i>Inherited from SCP_RequestService in NETN-SCP-Base_v1.1.3</i>	<a href="#">TimeSecInt64</a>	<i>Wallclock time. The timeout time in seconds after 1 January 1970.</i>
<b>ServiceID</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">NETN_ServiceIdentifier</a>	<i>Unique identifier for a service</i>
<b>Consumer</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">Callsign</a>	<i>Entity that has requested the service</i>

Name	Datatype	Semantics
<b>Provider</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">Callsign</a>	<i>Providing or intended provider entity. If no provider is specified and the request is a common request shall en empty string be used as the Callsign.</i>
<b>ServiceType</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">SCP_ServiceTypeEnum8</a>	<i>Enumerated value describing the type of service</i>

#### 8.1.4. RequestTransport

Full Name: HLAinteractionRoot.SCP\_Service.SCP\_RequestService.RequestTransport

Sharing: Publish/Subscribe

Transportation type: HLAreliable

Order: Receive

Dimensions:

Semantics: *A request for a Transport support.  
The request to transport, embark or disembark a platform is initiated by a RequestTransport interaction;*

Parameters:

Name	Datatype	Semantics
<b>TransportData</b>	<a href="#">TransportStruct</a>	<i>Data for the transport. Transported units and appointment data</i>
<b>RequestTimeOut</b> <i>Inherited from SCP_RequestService in NETN-SCP-Base_v1.1.3</i>	<a href="#">TimeSecInt64</a>	<i>Wallclock time. The timeout time in seconds after 1 January 1970.</i>
<b>ServiceID</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">NETN_ServiceIdentifier</a>	<i>Unique identifier for a service</i>
<b>Consumer</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">Callsign</a>	<i>Entity that has requested the service</i>
<b>Provider</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">Callsign</a>	<i>Providing or intended provider entity. If no provider is specified and the request is a common request shall en empty string be used as the Callsign.</i>
<b>ServiceType</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">SCP_ServiceTypeEnum8</a>	<i>Enumerated value describing the type of service</i>

#### 8.1.5. SCP\_OfferService

Full Name: HLAinteractionRoot.SCP\_Service.SCP\_OfferService

Sharing:

Transportation type: HLAreliable

Order: Receive

Dimensions:

Semantics:

Parameters:

Name	Datatype	Semantics
<b>IsOffering</b> <i>Inherited from SCP_OfferService in NETN-SCP-Base_v1.1.3</i>	HLAboolean	<i>Defines if the requested service is offered (=true) or not (=false). (Not Optional)</i>
<b>RequestTimeout</b> <i>Inherited from SCP_OfferService in NETN-SCP-Base_v1.1.3</i>	<a href="#">TimeSecInt64</a>	<i>Wallclock time. The timeout time in seconds after 1 January 1970.</i>
<b>ServiceID</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">NETN_ServiceIdentifier</a>	<i>Unique identifier for a service</i>
<b>Consumer</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">Callsign</a>	<i>Entity that has requested the service</i>
<b>Provider</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">Callsign</a>	<i>Providing or intended provider entity. If no provider is specified and the request is a common request shall an empty string be used as the Callsign.</i>
<b>ServiceType</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">SCP_ServiceTypeEnum8</a>	<i>Enumerated value describing the type of service</i>

### 8.1.6. OfferTransport

Full Name: HLAIinteractionRoot.SCP\_Service.SCP\_OfferService.OfferTransport

Sharing: Publish/Subscribe

Transportation type: HLAreliable

Order: Receive

Dimensions:

Semantics: *An Offer for a Transport support.  
The OfferTransport interaction shall be sent by the service providing federate in response to a RequestTransport interaction.*

Parameters:

Name	Datatype	Semantics
<b>TransportData</b>	<a href="#">TransportStruct</a>	<i>Data for the transport</i>
<b>OfferType</b>	<a href="#">OfferTypeEnum32</a>	<i>Provide high level information about the acceptance of the request (Partial, Full)</i>
<b>Transporters</b>	<a href="#">ArrayOfUuid</a>	<i>Platform list with transporters</i>
<b>IsOffering</b> <i>Inherited from SCP_OfferService in NETN-SCP-Base_v1.1.3</i>	HLAboolean	<i>Defines if the requested service is offered (=true) or not (=false). (Not Optional)</i>
<b>RequestTimeout</b> <i>Inherited from SCP_OfferService in NETN-SCP-Base_v1.1.3</i>	<a href="#">TimeSecInt64</a>	<i>Wallclock time. The timeout time in seconds after 1 January 1970.</i>
<b>ServiceID</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">NETN_ServiceIdentifier</a>	<i>Unique identifier for a service</i>
<b>Consumer</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">Callsign</a>	<i>Entity that has requested the service</i>
<b>Provider</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">Callsign</a>	<i>Providing or intended provider entity. If no provider is specified and the request is a common request shall an empty string be used as the Callsign.</i>
<b>ServiceType</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">SCP_ServiceTypeEnum8</a>	<i>Enumerated value describing the type of service</i>

### 8.1.7. TransportEmbarkmentStatus

Full Name: HLAinteractionRoot.SCP\_Service.TransportEmbarkmentStatus

Sharing: Publish/Subscribe

Transportation type: HLAreliable

Order: Receive

Dimensions:

Semantics: *The TransportEmbarkmentStatus interaction shall be sent by the service provider federate, to inform the service consumer of the embarkment state, after the SCP\_ServiceStarted interaction*

Parameters:

Name	Datatype	Semantics
<b>EmbarkedObjects</b>	<a href="#">ArrayOfUuid</a>	<i>Allows to follow the elements managed by the provider</i>
<b>TransportUnitIdentifier</b>	<a href="#">UuidArrayOfHLAbyte16</a>	<i>Callsign of transporter</i>

Name	Datatype	Semantics
<b>ServiceID</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">NETN_ServiceIdentifier</a>	<i>Unique identifier for a service</i>
<b>Consumer</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">Callsign</a>	<i>Entity that has requested the service</i>
<b>Provider</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">Callsign</a>	<i>Providing or intended provider entity. If no provider is specified and the request is a common request shall en empty string be used as the Callsign.</i>
<b>ServiceType</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">SCP_ServiceTypeEnum8</a>	<i>Enumerated value describing the type of service</i>

### 8.1.8. TransportDisembarkmentStatus

Full Name: HLAinteractionRoot.SCP\_Service.TransportDisembarkmentStatus

Sharing: Publish/Subscribe

Transportation type: HLAreliable

Order: Receive

Dimensions:

Semantics: *The TransportDisembarkmentStatus interaction shall be sent by the service provider federate, to inform the service consumer of the disembarkment state, after the SCP\_ServiceStarted interaction*

Parameters:

Name	Datatype	Semantics
<b>DisembarkedObjects</b>	<a href="#">ArrayOfUuid</a>	<i>Allows to follow the elements managed by the provider</i>
<b>TransportUnitIdentifier</b>	<a href="#">UuidArrayOfHLAbyte16</a>	<i>Callsign of transporter</i>
<b>ServiceID</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">NETN_ServiceIdentifier</a>	<i>Unique identifier for a service</i>
<b>Consumer</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">Callsign</a>	<i>Entity that has requested the service</i>
<b>Provider</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">Callsign</a>	<i>Providing or intended provider entity. If no provider is specified and the request is a common request shall en empty string be used as the Callsign.</i>
<b>ServiceType</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">SCP_ServiceTypeEnum8</a>	<i>Enumerated value describing the type of service</i>

### 8.1.9. TransportDestroyedEntities

Full Name: HLAinteractionRoot.SCP\_Service.TransportDestroyedEntities

Sharing: Publish/Subscribe

Transportation type: HLAReliable

Order: Receive

Dimensions:

Semantics: *The TransportDestroyedEntities interaction is used by the service provider federate to give information on managed element to the consumer. This interaction is used only if the provider simulate the destruction of elements managed*

Parameters:

Name	Datatype	Semantics
<b>DestroyedObjects</b>	<a href="#">ArrayOfUuid</a>	<i>Allows to follow the elements managed by the provider</i>
<b>ServiceID</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">NETN_ServiceIdentifier</a>	<i>Unique identifier for a service</i>
<b>Consumer</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">Callsign</a>	<i>Entity that has requested the service</i>
<b>Provider</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">Callsign</a>	<i>Providing or intended provider entity. If no provider is specified and the request is a common request shall an empty string be used as the Callsign.</i>
<b>ServiceType</b> <i>Inherited from SCP_Service in NETN-SCP-Base_v1.1.3</i>	<a href="#">SCP_ServiceTypeEnum8</a>	<i>Enumerated value describing the type of service</i>



## 8.2. Datatypes

### 8.2.1. Enumerated Datatypes

#### TransportTypeEnum32

Representation: HLAinteger32BE

Semantics: *Type of action, transport, embark or disembark*

Enumerator	Value
Transport	0
Embarkment	1
Disembarkment	2

## 8.2.2. Fixed Record Datatypes

### DataEDStruct

Encoding: HLAfixedRecord

Semantics: *Defines the entities to transport, where and when for embarkment or disembarmment*

Name	Type	Semantic
ObjectsToManage	<a href="#">ArrayOfUuid</a>	<i>List with the units to be landing or boarding</i>
Appointment	<a href="#">AppointmentStruct</a>	<i>Expected location for the landing or boarding</i>

### DataTStruct

Encoding: HLAfixedRecord

Semantics: *Defines the entities to transport, where and when for pickup and dropoff*

Name	Type	Semantic
ObjectsToManage	<a href="#">ArrayOfUuid</a>	<i>List with the units to be Transport</i>
Appointment	<a href="#">AppointmentStruct</a>	<i>Expected location for the boarding</i>
FinalAppointment	<a href="#">AppointmentStruct</a>	<i>Expected location for the landing</i>

### 8.2.3. Variant Record Datatypes

#### TransportStruct

Encoding: HLAvariantRecord

Discriminant name: TransportType

Discriminant type: [TransportTypeEnum32](#)

Semantics: *Transport data*

Name	Enumerator	Type	Semantics
DataTransport	Transport	<a href="#">DataTStruct</a>	<i>Data for transport</i>
DataEmbarkment	Embarkment	<a href="#">DataEDStruct</a>	<i>Data for embarkment</i>
DataDisembarkment	Disembarkment	<a href="#">DataEDStruct</a>	<i>Data for Disembarkment</i>

## 9. Module CBRN\_v1.1.9

### Information

<b>Name:</b>	CBRN
<b>Type:</b>	FOM
<b>Version:</b>	v1.1.9
<b>Modification Date:</b>	2014-12-17
<b>Security Classification:</b>	Unclassified
<b>Purpose:</b>	
<b>Application Domain:</b>	Training
<b>Description:</b>	The CBRN FOM module specifies objects and interactions necessary to enable CBRN modelling.
<b>Use Limitation:</b>	
<b>Other:</b>	

### Primary author Point Of Contact

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<b>Organization:</b>	Defence Science and Technology Laboratory (dstl)
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### References

<b>Dependency</b>	NETN-Base_v1.0
<b>Dependency</b>	NETN-Physical_v1.1
<b>Dependency</b>	RPR-Base_v2.0
<b>Dependency</b>	RPR-Physical_v2.0

### Use History

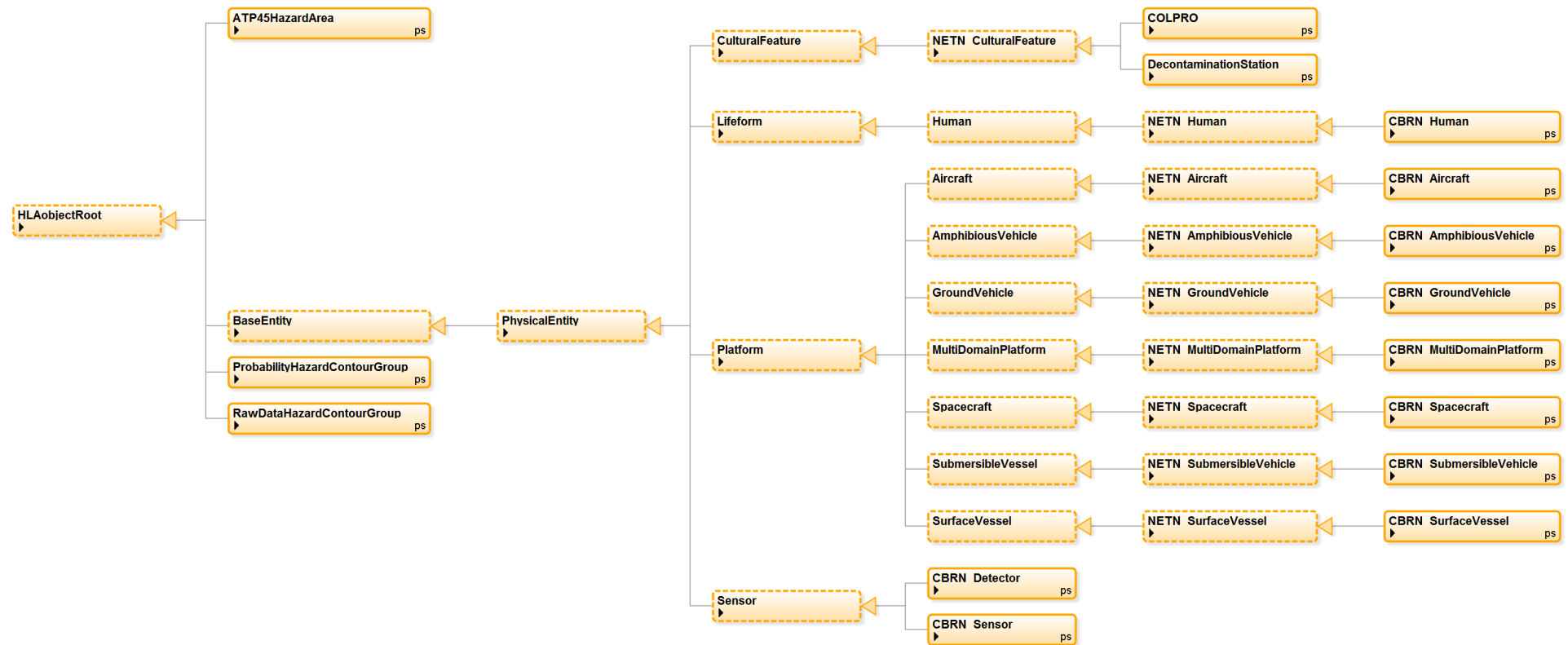
v1.0.0 - Initial; object, interaction classes and datatypes.
v1.0.1 - Added semantics.
v1.0.2 - Added missing QuantityUInt32 simple data type, fixed IPEEnum values.

v1.1.0 - Added new attributes to ATP45HazardArea, CBRN_Sensor and CBRN_Detector. Added parent interaction type to COLPROUpdate and DecontaminationStationUpdate. Re-used existing RPR and NETN simple data types. Renamed several data types and attribute names.
v1.1.1 - Added references to dependencies.
v1.1.2 - Added ValidityTime attribute to ATP45HazardArea.
v1.1.3 - Updated the description.
v1.1.4 - Added CBRN_PlatformUpdate interaction.
v1.1.5 - Updated semantics.
v1.1.6 - Standardised on Agent for agent name. Used correct naming convention for CBRN_FacilityUpdate.
v1.1.7 - Changed update conditions for certain attributes. Added UniqueID attributes to hazard contours.
v1.1.8 - Added TIC agents to AgentTypeEnum16.
v1.1.9 - Added POC information.

## Dependencies

NETN-Aggregate_v1.0.4
NETN-Physical_v1.1.2
RPR-Aggregate_v2.0
NETN-Base_v1.0.2
RPR-Physical_v2.0
RPR-Base_v2.0
RPR-Enumerations_v2.0
RPR-Foundation_v2.0

## 9.1. Object Classes



### 9.1.1. ATP45HazardArea

Full Name: HLAObjectRoot.ATP45HazardArea

Sharing: Publish/Subscribe

Semantics: *Represents the footprint generated by a CBRN warning and reporting simulation. This follows the NATO ATP-45 doctrine to generate a hazard area.*

Attributes:

Time	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	<a href="#">TimeSecInt64</a>	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	Simulation time at which this hazard area was generated.					
ValidityTime	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	TimeSecondInteger32	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	Duration (in seconds) from the Time attribute that this hazard area prediction is valid.					
Locations	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	<a href="#">ArrayOfWorldLocationStruct3</a>	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	Array of locations that define the hazard area					
ATP45HazardAreaType	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	<a href="#">ATP45HazardAreaTypeEnum8</a>	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Static	N/A				
	Semantics					
	This hazard area's type					
AgentClass	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	<a href="#">AgentClassEnum8</a>	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Static	N/A				
	Semantics					
	The agent class					

UniqueID	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	<a href="#">UuidArrayOfHLAByte16</a>	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Static	N/A				
	Semantics					
	Unique representation of the area's ID.					
HLAprivilegeToDeleteObject <i>Inherited from HLAobjectRoot in MIM</i>	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	HLAtoken	PS	DA	TS	HLAreliable	
	Update type	Update Condition				
	Static	NA				
	Semantics					

### 9.1.2. COLPRO

Full Name: HLAobjectRoot.BaseEntity.PhysicalEntity.CulturalFeature.NETN\_CulturalFeature.COLPRO

Sharing: Publish/Subscribe

Semantics: *Represents a feature that provides Collective Protection (COLPRO) against a CBRN threat.*

Attributes:

NumberEntities	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	<a href="#">QuantityUInt32</a>	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Static	N/A				
	Semantics					
	The number of entities that this COLPRO can handle.					
Protection	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	<a href="#">ArrayOfProtectionEffectivenessStruct</a>	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Static	N/A				
	Semantics					
	The effectiveness that this COLPRO offers for each agent.					



<b>UniqueID</b>  <i>Inherited from NETN_CulturalFeature in NETN-Physical_v1.1.2</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	<a href="#">UuidArrayOfHLAByte16</a>	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Static	NA				
	<b>Semantics</b>					
	<i>The unique identifier of the object. Required value. If not assigned by the ORBAT specification or similar, shall a value be assigned, either randomized or generated from the Marking or EntityIdentifier attribute value.</i>					
<b>Callsign</b>  <i>Inherited from NETN_CulturalFeature in NETN-Physical_v1.1.2</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	HLAunicodeString	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Static	NA				
	<b>Semantics</b>					
	<i>Name of the object.</i>					
<b>Status</b>  <i>Inherited from NETN_CulturalFeature in NETN-Physical_v1.1.2</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	<a href="#">ActiveStatusEnum8</a>	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>If an instance shall be taken into account by federates.</i>					
<b>Activity</b>  <i>Inherited from NETN_CulturalFeature in NETN-Physical_v1.1.2</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	<a href="#">AggregateMissionEnum16</a>	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The activity of the object.</i>					

<b>EmbeddedUnitList</b>  <i>Inherited from NETN_CulturalFeature in NETN-Physical_v1.1.2</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	<a href="#">ArrayOfUuid</a>	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>List of unique IDs of on-board elements</i>					
<b>ExternalLightsOn</b>  <i>Inherited from CulturalFeature in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the cultural feature's external lights are on or not.</i>					
<b>InternalHeatSourceOn</b>  <i>Inherited from CulturalFeature in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the cultural feature's internal heat source is on or not.</i>					
<b>InternalLightsOn</b>  <i>Inherited from CulturalFeature in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the cultural feature's internal lights are on or not.</i>					
<b>AcousticSignatureIndex</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	Integer16	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Index used to obtain the acoustics (sound through air) signature state of the entity.</i>					

<b>AlternateEntityType</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	EntityTypeStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Static	NA				
	<b>Semantics</b>					
	<i>The category of entity to be used when viewed by entities on the 'opposite' side.</i>					
<b>ArticulatedParametersArray</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	ArticulatedParameterStructLengthlessArray	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Identification of the visible parts, and their states, of the entity which are capable of independent motion.</i>					
<b>CamouflageType</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	CamouflageEnum32	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The type of camouflage in use (if any).</i>					
<b>DamageState</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	DamageStatusEnum32	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The state of damage of the entity.</i>					
<b>EngineSmokeOn</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's engine is generating smoke or not.</i>					

<b>FirePowerDisabled</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's main weapon system has been disabled or not.</i>					
<b>FlamesPresent</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity is on fire (with visible flames) or not.</i>					
<b>ForceIdentifier</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	ForceIdentifierEnum8	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The identification of the force that the entity belongs to.</i>					
<b>HasAmmunitionSupplyCap</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has the capability to supply other entities with ammunition.</i>					
<b>HasFuelSupplyCap</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has the capability to supply other entities with fuel or not.</i>					

<b>HasRecoveryCap</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has the capability to recover other entities or not.</i>					
<b>HasRepairCap</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has the capability to repair other entities or not.</i>					
<b>Immobilized</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity is immobilized or not.</i>					
<b>InfraredSignatureIndex</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	Integer16	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Index used to obtain the infra-red signature state of the entity.</i>					
<b>IsConcealed</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity is concealed or not.</i>					

<b>LiveEntityMeasuredSpeed</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	VelocityDecimeterPerSecondInteger16	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The entity's own measurement of speed (e.g. air speed for aircraft).</i>					
<b>Marking</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	MarkingStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>A unique marking or combination of characters used to distinguish the entity from other entities.</i>					
<b>PowerPlantOn</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's power plant is on or not.</i>					
<b>PropulsionSystemsData</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	PropulsionSystemDataStructLengthlessArray	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The basic operating data of the propulsion systems aboard the entity.</i>					
<b>RadarCrossSectionSignatureIndex</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	Integer16	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Index used to obtain the radar cross section signature state of the entity.</i>					

<b>SmokePlumePresent</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity is generating smoke or not (intentional or unintentional).</i>					
<b>TentDeployed</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has deployed tent or not.</i>					
<b>TrailingEffectsCode</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	TrailingEffectsCodeEnum32	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The type and size of any trail that the entity is making.</i>					
<b>VectoringNozzleSystemData</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	VectoringNozzleSystemDataStructLengthlessArray	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The basic operational data for the vectoring nozzle systems aboard the entity.</i>					
<b>EntityType</b>  <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	EntityTypeStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Static	<i>NA</i>				
	<b>Semantics</b>					
	<i>The category of the entity.</i>					

<b>EntityIdentifier</b> <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	EntityIdentifierStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Static	NA				
	<b>Semantics</b>					
	<i>The unique identifier for the entity instance.</i>					
<b>IsPartOf</b> <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	IsPartOfStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Defines if the entity if a constituent part of another entity (denoted the host entity). If the entity is a constituent part of another entity then the HostEntityIdentifier shall be set to the EntityIdentifier of the host entity and the HostRTIObjectIdentifier shall be set to the RTI object instance ID of the host entity. If the entity is not a constituent part of another entity then the HostEntityIdentifier shall be set to 0.0.0 and the HostRTIObjectIdentifier shall be set to the empty string.</i>					
<b>Spatial</b> <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	SpatialVariantStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i> RPRnoteBase10 RPRnoteBase11 RPRnoteBase12 RPRnoteBase13 RPRnoteBase14				
	<b>Semantics</b>					
	<i>Spatial state stored in one variant record attribute.</i>					
<b>RelativeSpatial</b> <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	SpatialVariantStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i> RPRnoteBase10 RPRnoteBase11 RPRnoteBase12 RPRnoteBase13 RPRnoteBase14				
	<b>Semantics</b>					
	<i>Relative spatial state stored in one variant record attribute.</i>					



<b>HLAprivilegeToDeleteObject</b> <i>Inherited from HLAobjectRoot in MIM</i>	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	HLAtoken	PS	DA	TS	HLAreliable	
	Update type	Update Condition				
	Static	NA				
	Semantics					

### 9.1.3. DecontaminationStation

Full Name: HLAobjectRoot.BaseEntity.PhysicalEntity.CulturalFeature.NETN\_CulturalFeature.DecontaminationStation

Sharing: Publish/Subscribe

Semantics: *Represents a feature that provides treatment for CBRN exposure.*

Attributes:

NumberEntities	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	<a href="#">QuantityUInt32</a>	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Static	N/A				
	Semantics					
	The number of entities that this decontamination station can handle.					
DecontaminationPeriod	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	TimeSecondInteger32	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Static	N/A				
	Semantics					
	Duration in seconds it takes to decontaminate an entity.					
Treatments	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	<a href="#">ArrayOfTreatmentStruct</a>	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	The types of treatment that this decontamination station currently offers.					

<b>UniqueID</b>  <i>Inherited from NETN_CulturalFeature in NETN-Physical_v1.1.2</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	<a href="#">UuidArrayOfHLAByte16</a>	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Static	NA				
	<b>Semantics</b>					
	<i>The unique identifier of the object. Required value. If not assigned by the ORBAT specification or similar, shall a value be assigned, either randomized or generated from the Marking or EntityIdentifier attribute value.</i>					
<b>Callsign</b>  <i>Inherited from NETN_CulturalFeature in NETN-Physical_v1.1.2</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	HLAunicodeString	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Static	NA				
	<b>Semantics</b>					
	<i>Name of the object.</i>					
<b>Status</b>  <i>Inherited from NETN_CulturalFeature in NETN-Physical_v1.1.2</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	<a href="#">ActiveStatusEnum8</a>	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>If an instance shall be taken into account by federates.</i>					
<b>Activity</b>  <i>Inherited from NETN_CulturalFeature in NETN-Physical_v1.1.2</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	<a href="#">AggregateMissionEnum16</a>	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The activity of the object.</i>					

<b>EmbeddedUnitList</b>  <i>Inherited from NETN_CulturalFeature in NETN-Physical_v1.1.2</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	<a href="#">ArrayOfUuid</a>	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>List of unique IDs of on-board elements</i>					
<b>ExternalLightsOn</b>  <i>Inherited from CulturalFeature in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the cultural feature's external lights are on or not.</i>					
<b>InternalHeatSourceOn</b>  <i>Inherited from CulturalFeature in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the cultural feature's internal heat source is on or not.</i>					
<b>InternalLightsOn</b>  <i>Inherited from CulturalFeature in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the cultural feature's internal lights are on or not.</i>					
<b>AcousticSignatureIndex</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	Integer16	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Index used to obtain the acoustics (sound through air) signature state of the entity.</i>					

<b>AlternateEntityType</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	EntityTypeStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Static	NA				
	<b>Semantics</b>					
	<i>The category of entity to be used when viewed by entities on the 'opposite' side.</i>					
<b>ArticulatedParametersArray</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	ArticulatedParameterStructLengthlessArray	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Identification of the visible parts, and their states, of the entity which are capable of independent motion.</i>					
<b>CamouflageType</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	CamouflageEnum32	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The type of camouflage in use (if any).</i>					
<b>DamageState</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	DamageStatusEnum32	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The state of damage of the entity.</i>					
<b>EngineSmokeOn</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's engine is generating smoke or not.</i>					

<b>FirePowerDisabled</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's main weapon system has been disabled or not.</i>					
<b>FlamesPresent</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity is on fire (with visible flames) or not.</i>					
<b>ForceIdentifier</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	ForceIdentifierEnum8	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The identification of the force that the entity belongs to.</i>					
<b>HasAmmunitionSupplyCap</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has the capability to supply other entities with ammunition.</i>					
<b>HasFuelSupplyCap</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has the capability to supply other entities with fuel or not.</i>					

<b>HasRecoveryCap</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has the capability to recover other entities or not.</i>					
<b>HasRepairCap</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has the capability to repair other entities or not.</i>					
<b>Immobilized</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity is immobilized or not.</i>					
<b>InfraredSignatureIndex</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	Integer16	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Index used to obtain the infra-red signature state of the entity.</i>					
<b>IsConcealed</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity is concealed or not.</i>					

<b>LiveEntityMeasuredSpeed</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	VelocityDecimeterPerSecondInteger16	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The entity's own measurement of speed (e.g. air speed for aircraft).</i>					
<b>Marking</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	MarkingStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>A unique marking or combination of characters used to distinguish the entity from other entities.</i>					
<b>PowerPlantOn</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's power plant is on or not.</i>					
<b>PropulsionSystemsData</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	PropulsionSystemDataStructLengthlessArray	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The basic operating data of the propulsion systems aboard the entity.</i>					
<b>RadarCrossSectionSignatureIndex</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	Integer16	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Index used to obtain the radar cross section signature state of the entity.</i>					

<b>SmokePlumePresent</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity is generating smoke or not (intentional or unintentional).</i>					
<b>TentDeployed</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has deployed tent or not.</i>					
<b>TrailingEffectsCode</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	TrailingEffectsCodeEnum32	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The type and size of any trail that the entity is making.</i>					
<b>VectoringNozzleSystemData</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	VectoringNozzleSystemDataStructLengthlessArray	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The basic operational data for the vectoring nozzle systems aboard the entity.</i>					
<b>EntityType</b>  <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	EntityTypeStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Static	<i>NA</i>				
	<b>Semantics</b>					
	<i>The category of the entity.</i>					



<b>EntityIdentifier</b> <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	EntityIdentifierStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Static	NA				
	<b>Semantics</b>					
	<i>The unique identifier for the entity instance.</i>					
<b>IsPartOf</b> <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	IsPartOfStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Defines if the entity if a constituent part of another entity (denoted the host entity). If the entity is a constituent part of another entity then the HostEntityIdentifier shall be set to the EntityIdentifier of the host entity and the HostRTIObjectIdentifier shall be set to the RTI object instance ID of the host entity. If the entity is not a constituent part of another entity then the HostEntityIdentifier shall be set to 0.0.0 and the HostRTIObjectIdentifier shall be set to the empty string.</i>					
<b>Spatial</b> <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	SpatialVariantStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i> RPRnoteBase10 RPRnoteBase11 RPRnoteBase12 RPRnoteBase13 RPRnoteBase14				
	<b>Semantics</b>					
	<i>Spatial state stored in one variant record attribute.</i>					
<b>RelativeSpatial</b> <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	SpatialVariantStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i> RPRnoteBase10 RPRnoteBase11 RPRnoteBase12 RPRnoteBase13 RPRnoteBase14				
	<b>Semantics</b>					
	<i>Relative spatial state stored in one variant record attribute.</i>					

<b>HLAprivilegeToDeleteObject</b> <i>Inherited from HLAobjectRoot in MIM</i>	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	HLAtoken	PS	DA	TS	HLAreliable	
	Update type	Update Condition				
	Static	NA				
	Semantics					

#### 9.1.4. CBRN\_Human

Full Name: HLAobjectRoot.BaseEntity.PhysicalEntity.Lifeform.Human.NETN\_Human.CBRN\_Human

Sharing: Publish/Subscribe

Semantics: *Extension of NETN\_Human to provide CBRN modelling.*

Attributes:

Exposures	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	<a href="#">ArrayOfCBRNEExposureStruct</a>	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	Array of agents to which this entity has been exposed to. Defaults to an empty array.					
Treatments	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	<a href="#">ArrayOfTreatmentStruct</a>	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	The types of treatment that this entity has used. Defaults to an empty array.					
TriageLevel	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	<a href="#">CBRNDamageEnum8</a>	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	Triage level of this entity. Defaults to Uninjured.					

IPEType	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	<a href="#">IPETTypeEnum8</a>	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	Type of IPE that the entity has donned. Defaults to None.					
Callsign  <i>Inherited from NETN_Human in NETN-Physical_v1.1.2</i>	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	HLAunicodeString	PS		RO	HLAbestEffort	
	Update type	Update Condition				
	Static	NA				
	Semantics					
	The name of the object.					
Status  <i>Inherited from NETN_Human in NETN-Physical_v1.1.2</i>	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	<a href="#">ActiveStatusEnum8</a>	PS		RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	If an instance shall be taken into account by federates					
Activity  <i>Inherited from NETN_Human in NETN-Physical_v1.1.2</i>	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	<a href="#">AggregateMissionEnum16</a>	PS		RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	The activity of the object.					

<b>UniqueID</b>  <i>Inherited from NETN_Human in NETN-Physical_v1.1.2</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	<a href="#">UuidArrayOfHLAbyte16</a>	PS		RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Static	NA				
	<b>Semantics</b>					
	<i>The unique identifier of the object. Required value. If not assigned by the ORBAT specification or similar, shall a value be assigned, either randomized or generated from the Marking or EntityIdentifier attribute value.</i>					
<b>FlashLightsOn</b>  <i>Inherited from Lifeform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the lifeform's flash lights are on or not.</i>					
<b>StanceCode</b>  <i>Inherited from Lifeform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	StanceCodeEnum32	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The stance of the lifeform.</i>					
<b>PrimaryWeaponState</b>  <i>Inherited from Lifeform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	WeaponStateEnum32	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The state of the soldier's primary weapon system.</i>					

<b>SecondaryWeaponState</b> <i>Inherited from Lifeform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	WeaponStateEnum32	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The state of the soldier's secondary weapon system.</i>					
<b>ComplianceState</b> <i>Inherited from Lifeform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	ComplianceStateEnum32	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The compliance of the lifeform.</i>					
<b>AcousticSignatureIndex</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	Integer16	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Index used to obtain the acoustics (sound through air) signature state of the entity.</i>					
<b>AlternateEntityType</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	EntityTypeStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Static	NA				
	<b>Semantics</b>					
	<i>The category of entity to be used when viewed by entities on the 'opposite' side.</i>					
<b>ArticulatedParametersArray</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	ArticulatedParameterStructLengthlessArray	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Identification of the visible parts, and their states, of the entity which are capable of independent motion.</i>					

<b>CamouflageType</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	CamouflageEnum32	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The type of camouflage in use (if any).</i>					
<b>DamageState</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	DamageStatusEnum32	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The state of damage of the entity.</i>					
<b>EngineSmokeOn</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's engine is generating smoke or not.</i>					
<b>FirePowerDisabled</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's main weapon system has been disabled or not.</i>					
<b>FlamesPresent</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity is on fire (with visible flames) or not.</i>					

<b>ForceIdentifier</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	ForceIdentifierEnum8	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The identification of the force that the entity belongs to.</i>					
<b>HasAmmunitionSupplyCap</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has the capability to supply other entities with ammunition.</i>					
<b>HasFuelSupplyCap</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has the capability to supply other entities with fuel or not.</i>					
<b>HasRecoveryCap</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has the capability to recover other entities or not.</i>					
<b>HasRepairCap</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has the capability to repair other entities or not.</i>					

<b>Immobilized</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity is immobilized or not.</i>					
<b>InfraredSignatureIndex</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	Integer16	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Index used to obtain the infra-red signature state of the entity.</i>					
<b>IsConcealed</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity is concealed or not.</i>					
<b>LiveEntityMeasuredSpeed</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	VelocityDecimeterPerSecondInteger16	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The entity's own measurement of speed (e.g. air speed for aircraft).</i>					
<b>Marking</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	MarkingStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>A unique marking or combination of characters used to distinguish the entity from other entities.</i>					



<b>PowerPlantOn</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's power plant is on or not.</i>					
<b>PropulsionSystemsData</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	PropulsionSystemDataStructLengthlessArray	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The basic operating data of the propulsion systems aboard the entity.</i>					
<b>RadarCrossSectionSignatureIndex</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	Integer16	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Index used to obtain the radar cross section signature state of the entity.</i>					
<b>SmokePlumePresent</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity is generating smoke or not (intentional or unintentional).</i>					
<b>TentDeployed</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has deployed tent or not.</i>					

<b>TrailingEffectsCode</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	TrailingEffectsCodeEnum32	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The type and size of any trail that the entity is making.</i>					
<b>VectoringNozzleSystemData</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	VectoringNozzleSystemDataStructLengthlessArray	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The basic operational data for the vectoring nozzle systems aboard the entity.</i>					
<b>EntityType</b> <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	EntityTypeStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Static	<i>NA</i>				
	<b>Semantics</b>					
	<i>The category of the entity.</i>					
<b>EntityIdentifier</b> <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	EntityIdentifierStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Static	<i>NA</i>				
	<b>Semantics</b>					
	<i>The unique identifier for the entity instance.</i>					

<b>IsPartOf</b>  <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	IsPartOfStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Defines if the entity if a constituent part of another entity (denoted the host entity). If the entity is a constituent part of another entity then the HostEntityIdentifier shall be set to the EntityIdentifier of the host entity and the HostRTIObjectIdentifier shall be set to the RTI object instance ID of the host entity. If the entity is not a constituent part of another entity then the HostEntityIdentifier shall be set to 0.0.0 and the HostRTIObjectIdentifier shall be set to the empty string.</i>					
<b>Spatial</b>  <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	SpatialVariantStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i> RPRnoteBase10 RPRnoteBase11 RPRnoteBase12 RPRnoteBase13 RPRnoteBase14				
	<b>Semantics</b>					
	<i>Spatial state stored in one variant record attribute.</i>					
<b>RelativeSpatial</b>  <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	SpatialVariantStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i> RPRnoteBase10 RPRnoteBase11 RPRnoteBase12 RPRnoteBase13 RPRnoteBase14				
	<b>Semantics</b>					
	<i>Relative spatial state stored in one variant record attribute.</i>					
<b>HLAprivilegeToDeleteObject</b>  <i>Inherited from HLAobjectRoot in MIM</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	HLAtoken	PS	DA	TS	HLAreliable	
	<b>Update type</b>	<b>Update Condition</b>				
	Static	NA				
	<b>Semantics</b>					

### 9.1.5. CBRN\_Aircraft

Full Name: HLAobjectRoot.BaseEntity.PhysicalEntity.Platform.Aircraft.NETN\_Aircraft.CBRN\_Aircraft

Sharing: Publish/Subscribe

Semantics: *Extension of NETN\_Aircraft to provide CBRN modelling.*

## Attributes:

Contamination	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	<a href="#">ArrayOfAgentMassStruct</a>	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	CBRN hazardous agent inside vehicle due to embedded units.					
Callsign  <i>Inherited from NETN_Aircraft in NETN-Physical_v1.1.2</i>	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	HLAunicodeString	PS		RO	HLAbestEffort	
	Update type	Update Condition				
	Static	N/A				
	Semantics					
	The name of the object.					
Status  <i>Inherited from NETN_Aircraft in NETN-Physical_v1.1.2</i>	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	<a href="#">ActiveStatusEnum8</a>	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	If an instance shall be taken into account by federates					
Activity  <i>Inherited from NETN_Aircraft in NETN-Physical_v1.1.2</i>	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	<a href="#">AggregateMissionEnum16</a>	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	The activity of the object.					
EmbeddedUnitList  <i>Inherited from NETN_Aircraft in NETN-Physical_v1.1.2</i>	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	<a href="#">ArrayOfUuid</a>	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	List of unique IDs of on-board elements.					

<b>UniqueID</b>  <i>Inherited from NETN_Aircraft in NETN-Physical_v1.1.2</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	<a href="#">UuidArrayOfHLAbyte16</a>	PS		RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Static	NA				
	<b>Semantics</b>					
	<i>The unique identifier of the object. Required value. If not assigned by the ORBAT specification or similar, shall a value be assigned, either randomized or generated from the Marking or EntityIdentifier attribute value.</i>					

<b>AfterburnerOn</b>  <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's afterburner is on or not.</i>					

<b>AntiCollisionLightsOn</b>  <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's anti-collision lights are on or not.</i>					

<b>BlackOutBrakeLightsOn</b>  <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's black out brake lights are on or not.</i>					

<b>BlackOutLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's black out lights are on or not.</i>					
<b>BrakeLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's brake lights are on or not.</i>					
<b>FormationLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's formation lights are on or not.</i>					
<b>HatchState</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	HatchStateEnum32	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The state of the entity's (main) hatch.</i>					
<b>HeadLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's headlights are on or not.</i>					

<b>InteriorLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's internal lights are on or not.</i>					
<b>LandingLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's landing lights are on or not.</i>					
<b>LauncherRaised</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's weapon launcher is in the raised position.</i>					
<b>NavigationLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's navigation lights are on or not.</i>					
<b>RampDeployed</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has deployed a ramp or not.</i>					

<b>RunningLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's running lights are on or not.</i>					
<b>SpotLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's spotlights are on or not.</i>					
<b>TailLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's tail lights are on or not.</i>					
<b>AcousticSignatureIndex</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	Integer16	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Index used to obtain the acoustics (sound through air) signature state of the entity.</i>					
<b>AlternateEntityType</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	EntityTypeStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Static	NA				
	<b>Semantics</b>					
	<i>The category of entity to be used when viewed by entities on the 'opposite' side.</i>					



<b>ArticulatedParametersArray</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	ArticulatedParameterStructLengthlessArray	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Identification of the visible parts, and their states, of the entity which are capable of independent motion.</i>					
<b>CamouflageType</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	CamouflageEnum32	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The type of camouflage in use (if any).</i>					
<b>DamageState</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	DamageStatusEnum32	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The state of damage of the entity.</i>					
<b>EngineSmokeOn</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's engine is generating smoke or not.</i>					
<b>FirePowerDisabled</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's main weapon system has been disabled or not.</i>					

<b>FlamesPresent</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity is on fire (with visible flames) or not.</i>					
<b>ForceIdentifier</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	ForceIdentifierEnum8	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The identification of the force that the entity belongs to.</i>					
<b>HasAmmunitionSupplyCap</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has the capability to supply other entities with ammunition.</i>					
<b>HasFuelSupplyCap</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has the capability to supply other entities with fuel or not.</i>					
<b>HasRecoveryCap</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has the capability to recover other entities or not.</i>					

<b>HasRepairCap</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has the capability to repair other entities or not.</i>					
<b>Immobilized</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity is immobilized or not.</i>					
<b>InfraredSignatureIndex</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	Integer16	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Index used to obtain the infra-red signature state of the entity.</i>					
<b>IsConcealed</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity is concealed or not.</i>					
<b>LiveEntityMeasuredSpeed</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	VelocityDecimeterPerSecondInteger16	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The entity's own measurement of speed (e.g. air speed for aircraft).</i>					

<b>Marking</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	MarkingStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>A unique marking or combination of characters used to distinguish the entity from other entities.</i>					
<b>PowerPlantOn</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's power plant is on or not.</i>					
<b>PropulsionSystemsData</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	PropulsionSystemDataStructLengthlessArray	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The basic operating data of the propulsion systems aboard the entity.</i>					
<b>RadarCrossSectionSignatureIndex</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	Integer16	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Index used to obtain the radar cross section signature state of the entity.</i>					
<b>SmokePlumePresent</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity is generating smoke or not (intentional or unintentional).</i>					

<b>TentDeployed</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has deployed tent or not.</i>					
<b>TrailingEffectsCode</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	TrailingEffectsCodeEnum32	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The type and size of any trail that the entity is making.</i>					
<b>VectoringNozzleSystemData</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	VectoringNozzleSystemDataStructLengthlessArray	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The basic operational data for the vectoring nozzle systems aboard the entity.</i>					
<b>EntityType</b>  <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	EntityTypeStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Static	<i>NA</i>				
	<b>Semantics</b>					
	<i>The category of the entity.</i>					
<b>EntityIdentifier</b>  <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	EntityIdentifierStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Static	<i>NA</i>				
	<b>Semantics</b>					
	<i>The unique identifier for the entity instance.</i>					

<b>IsPartOf</b>  <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	IsPartOfStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Defines if the entity if a constituent part of another entity (denoted the host entity). If the entity is a constituent part of another entity then the HostEntityIdentifier shall be set to the EntityIdentifier of the host entity and the HostRTIObjectIdentifier shall be set to the RTI object instance ID of the host entity. If the entity is not a constituent part of another entity then the HostEntityIdentifier shall be set to 0.0.0 and the HostRTIObjectIdentifier shall be set to the empty string.</i>					
<b>Spatial</b>  <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	SpatialVariantStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i> RPRnoteBase10 RPRnoteBase11 RPRnoteBase12 RPRnoteBase13 RPRnoteBase14				
	<b>Semantics</b>					
	<i>Spatial state stored in one variant record attribute.</i>					
<b>RelativeSpatial</b>  <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	SpatialVariantStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i> RPRnoteBase10 RPRnoteBase11 RPRnoteBase12 RPRnoteBase13 RPRnoteBase14				
	<b>Semantics</b>					
	<i>Relative spatial state stored in one variant record attribute.</i>					
<b>HLAprivilegeToDeleteObject</b>  <i>Inherited from HLAobjectRoot in MIM</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	HLAtoken	PS	DA	TS	HLAreliable	
	<b>Update type</b>	<b>Update Condition</b>				
	Static	NA				
	<b>Semantics</b>					

#### 9.1.6. CBRN\_AmphibiousVehicle

Full Name: HLAobjectRoot.BaseEntity.PhysicalEntity.Platform.AmphibiousVehicle.NETN\_AmphibiousVehicle.CBRN\_AmphibiousVehicle

Sharing: Publish/Subscribe

Semantics: *Extension of NETN\_AmphibiousVehicle to provide CBRN modelling.*

Attributes:

Contamination	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	<a href="#">ArrayOfAgentMassStruct</a>	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	CBRN hazardous agent inside vehicle due to embedded units.					
Callsign  <i>Inherited from NETN_AmphibiousVehicle in NETN-Physical_v1.1.2</i>	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	HLAunicodeString	PS		RO	HLAbestEffort	
	Update type	Update Condition				
	Static	N/A				
	Semantics					
	The name of the object.					
Status  <i>Inherited from NETN_AmphibiousVehicle in NETN-Physical_v1.1.2</i>	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	<a href="#">ActiveStatusEnum8</a>	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	If an instance shall be taken into account by federates					
Activity  <i>Inherited from NETN_AmphibiousVehicle in NETN-Physical_v1.1.2</i>	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	<a href="#">AggregateMissionEnum16</a>	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	The activity of the object.					

<b>EmbeddedUnitList</b>  <i>Inherited from NETN_AmphibiousVehicle in NETN-Physical_v1.1.2</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	<a href="#">ArrayOfUuid</a>	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>List of unique IDs of on-board elements</i>					
<b>UniqueID</b>  <i>Inherited from NETN_AmphibiousVehicle in NETN-Physical_v1.1.2</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	<a href="#">UuidArrayOfHLAbyte16</a>	PS		RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Static	<i>NA</i>				
	<b>Semantics</b>					
	<i>The unique identifier of the object. Required value. If not assigned by the ORBAT specification or similar, shall a value be assigned, either randomized or generated from the Marking or EntityIdentifier attribute value.</i>					
<b>AfterburnerOn</b>  <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's afterburner is on or not.</i>					
<b>AntiCollisionLightsOn</b>  <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's anti-collision lights are on or not.</i>					



<b>BlackOutBrakeLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's black out brake lights are on or not.</i>					
<b>BlackOutLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's black out lights are on or not.</i>					
<b>BrakeLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's brake lights are on or not.</i>					
<b>FormationLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's formation lights are on or not.</i>					
<b>HatchState</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	HatchStateEnum32	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The state of the entity's (main) hatch.</i>					

<b>HeadLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's headlights are on or not.</i>					
<b>InteriorLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's internal lights are on or not.</i>					
<b>LandingLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's landing lights are on or not.</i>					
<b>LauncherRaised</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's weapon launcher is in the raised position.</i>					
<b>NavigationLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's navigation lights are on or not.</i>					

<b>RampDeployed</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has deployed a ramp or not.</i>					
<b>RunningLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's running lights are on or not.</i>					
<b>SpotLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's spotlights are on or not.</i>					
<b>TailLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's tail lights are on or not.</i>					
<b>AcousticSignatureIndex</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	Integer16	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Index used to obtain the acoustics (sound through air) signature state of the entity.</i>					

<b>AlternateEntityType</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	EntityTypeStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Static	NA				
	<b>Semantics</b>					
	<i>The category of entity to be used when viewed by entities on the 'opposite' side.</i>					
<b>ArticulatedParametersArray</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	ArticulatedParameterStructLengthlessArray	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Identification of the visible parts, and their states, of the entity which are capable of independent motion.</i>					
<b>CamouflageType</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	CamouflageEnum32	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The type of camouflage in use (if any).</i>					
<b>DamageState</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	DamageStatusEnum32	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The state of damage of the entity.</i>					
<b>EngineSmokeOn</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's engine is generating smoke or not.</i>					

<b>FirePowerDisabled</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's main weapon system has been disabled or not.</i>					
<b>FlamesPresent</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity is on fire (with visible flames) or not.</i>					
<b>ForceIdentifier</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	ForceIdentifierEnum8	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The identification of the force that the entity belongs to.</i>					
<b>HasAmmunitionSupplyCap</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has the capability to supply other entities with ammunition.</i>					
<b>HasFuelSupplyCap</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has the capability to supply other entities with fuel or not.</i>					

<b>HasRecoveryCap</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has the capability to recover other entities or not.</i>					
<b>HasRepairCap</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has the capability to repair other entities or not.</i>					
<b>Immobilized</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity is immobilized or not.</i>					
<b>InfraredSignatureIndex</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	Integer16	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Index used to obtain the infra-red signature state of the entity.</i>					
<b>IsConcealed</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity is concealed or not.</i>					

<b>LiveEntityMeasuredSpeed</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>		<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	VelocityDecimeterPerSecondInteger16		PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>					
	Conditional	<i>On change</i>					
	<b>Semantics</b>						
	<i>The entity's own measurement of speed (e.g. air speed for aircraft).</i>						
<b>Marking</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>		<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	MarkingStruct		PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>					
	Conditional	<i>On change</i>					
	<b>Semantics</b>						
	<i>A unique marking or combination of characters used to distinguish the entity from other entities.</i>						
<b>PowerPlantOn</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>		<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean		PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>					
	Conditional	<i>On change</i>					
	<b>Semantics</b>						
	<i>Whether the entity's power plant is on or not.</i>						
<b>PropulsionSystemsData</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>		<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	PropulsionSystemDataStructLengthlessArray		PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>					
	Conditional	<i>On change</i>					
	<b>Semantics</b>						
	<i>The basic operating data of the propulsion systems aboard the entity.</i>						
<b>RadarCrossSectionSignatureIndex</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>		<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	Integer16		PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>					
	Conditional	<i>On change</i>					
	<b>Semantics</b>						
	<i>Index used to obtain the radar cross section signature state of the entity.</i>						

<b>SmokePlumePresent</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity is generating smoke or not (intentional or unintentional).</i>					
<b>TentDeployed</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has deployed tent or not.</i>					
<b>TrailingEffectsCode</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	TrailingEffectsCodeEnum32	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The type and size of any trail that the entity is making.</i>					
<b>VectoringNozzleSystemData</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	VectoringNozzleSystemDataStructLengthlessArray	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The basic operational data for the vectoring nozzle systems aboard the entity.</i>					
<b>EntityType</b>  <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	EntityTypeStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Static	<i>NA</i>				
	<b>Semantics</b>					
	<i>The category of the entity.</i>					



<b>EntityIdentifier</b> <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	EntityIdentifierStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Static	NA				
	<b>Semantics</b>					
	<i>The unique identifier for the entity instance.</i>					
<b>IsPartOf</b> <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	IsPartOfStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Defines if the entity if a constituent part of another entity (denoted the host entity). If the entity is a constituent part of another entity then the HostEntityIdentifier shall be set to the EntityIdentifier of the host entity and the HostRTIObjectIdentifier shall be set to the RTI object instance ID of the host entity. If the entity is not a constituent part of another entity then the HostEntityIdentifier shall be set to 0.0.0 and the HostRTIObjectIdentifier shall be set to the empty string.</i>					
<b>Spatial</b> <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	SpatialVariantStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i> RPRnoteBase10 RPRnoteBase11 RPRnoteBase12 RPRnoteBase13 RPRnoteBase14				
	<b>Semantics</b>					
	<i>Spatial state stored in one variant record attribute.</i>					
<b>RelativeSpatial</b> <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	SpatialVariantStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i> RPRnoteBase10 RPRnoteBase11 RPRnoteBase12 RPRnoteBase13 RPRnoteBase14				
	<b>Semantics</b>					
	<i>Relative spatial state stored in one variant record attribute.</i>					

<b>HLAprivilegeToDeleteObject</b> <i>Inherited from HLAobjectRoot in MIM</i>	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	HLAtoken	PS	DA	TS	HLAreliable	
	Update type	Update Condition				
	Static	NA				
	Semantics					

### 9.1.7. CBRN\_GroundVehicle

Full Name: HLAobjectRoot.BaseEntity.PhysicalEntity.Platform.GroundVehicle.NETN\_GroundVehicle.CBRN\_GroundVehicle

Sharing: Publish/Subscribe

Semantics: *Extension of NETN\_GroundVehicle to provide CBRN modelling.*

Attributes:

Contamination	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	<a href="#">ArrayOfAgentMassStruct</a>	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	CBRN hazardous agent inside vehicle due to embedded units.					
Callsign  <i>Inherited from NETN_GroundVehicle in NETN-Physical_v1.1.2</i>	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	HLAunicodeString	PS		RO	HLAbestEffort	
	Update type	Update Condition				
	Static	NA				
	Semantics					
	The name of the object.					
Status  <i>Inherited from NETN_GroundVehicle in NETN-Physical_v1.1.2</i>	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	<a href="#">ActiveStatusEnum8</a>	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	If an instance shall be taken into account by federates					

<b>Activity</b>  <i>Inherited from NETN_GroundVehicle in NETN-Physical_v1.1.2</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	<a href="#">AggregateMissionEnum16</a>	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	<b>Conditional</b>	<i>On change</i>				
	<b>Semantics</b>					
	<i>The activity of the object.</i>					
<b>EmbeddedUnitList</b>  <i>Inherited from NETN_GroundVehicle in NETN-Physical_v1.1.2</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	<a href="#">ArrayOfUuid</a>	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	<b>Conditional</b>	<i>On change</i>				
	<b>Semantics</b>					
	<i>List of unique IDs of on-board elements</i>					
<b>UniqueID</b>  <i>Inherited from NETN_GroundVehicle in NETN-Physical_v1.1.2</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	<a href="#">UuidArrayOfHLAbyte16</a>	PS		RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	<b>Static</b>	<i>NA</i>				
	<b>Semantics</b>					
	<i>The unique identifier of the object. Required value. If not assigned by the ORBAT specification or similar, shall a value be assigned, either randomized or generated from the Marking or EntityIdentifier attribute value.</i>					
<b>AfterburnerOn</b>  <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	<b>Conditional</b>	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's afterburner is on or not.</i>					

<b>AntiCollisionLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's anti-collision lights are on or not.</i>					
<b>BlackOutBrakeLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's black out brake lights are on or not.</i>					
<b>BlackOutLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's black out lights are on or not.</i>					
<b>BrakeLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's brake lights are on or not.</i>					
<b>FormationLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's formation lights are on or not.</i>					

<b>HatchState</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	HatchStateEnum32	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The state of the entity's (main) hatch.</i>					
<b>HeadLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's headlights are on or not.</i>					
<b>InteriorLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's internal lights are on or not.</i>					
<b>LandingLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's landing lights are on or not.</i>					
<b>LauncherRaised</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's weapon launcher is in the raised position.</i>					

<b>NavigationLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's navigation lights are on or not.</i>					
<b>RampDeployed</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has deployed a ramp or not.</i>					
<b>RunningLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's running lights are on or not.</i>					
<b>SpotLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's spotlights are on or not.</i>					
<b>TailLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's tail lights are on or not.</i>					

<b>AcousticSignatureIndex</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	Integer16	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Index used to obtain the acoustics (sound through air) signature state of the entity.</i>					
<b>AlternateEntityType</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	EntityTypeStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Static	<i>NA</i>				
	<b>Semantics</b>					
	<i>The category of entity to be used when viewed by entities on the 'opposite' side.</i>					
<b>ArticulatedParametersArray</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	ArticulatedParameterStructLengthlessArray	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Identification of the visible parts, and their states, of the entity which are capable of independent motion.</i>					
<b>CamouflageType</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	CamouflageEnum32	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The type of camouflage in use (if any).</i>					
<b>DamageState</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	DamageStatusEnum32	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The state of damage of the entity.</i>					

<b>EngineSmokeOn</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's engine is generating smoke or not.</i>					
<b>FirePowerDisabled</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's main weapon system has been disabled or not.</i>					
<b>FlamesPresent</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity is on fire (with visible flames) or not.</i>					
<b>ForceIdentifier</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	ForceIdentifierEnum8	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The identification of the force that the entity belongs to.</i>					
<b>HasAmmunitionSupplyCap</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has the capability to supply other entities with ammunition.</i>					



<b>HasFuelSupplyCap</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has the capability to supply other entities with fuel or not.</i>					
<b>HasRecoveryCap</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has the capability to recover other entities or not.</i>					
<b>HasRepairCap</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has the capability to repair other entities or not.</i>					
<b>Immobilized</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity is immobilized or not.</i>					
<b>InfraredSignatureIndex</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	Integer16	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Index used to obtain the infra-red signature state of the entity.</i>					

<b>IsConcealed</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity is concealed or not.</i>					
<b>LiveEntityMeasuredSpeed</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	VelocityDecimeterPerSecondInteger16	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The entity's own measurement of speed (e.g. air speed for aircraft).</i>					
<b>Marking</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	MarkingStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>A unique marking or combination of characters used to distinguish the entity from other entities.</i>					
<b>PowerPlantOn</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's power plant is on or not.</i>					
<b>PropulsionSystemsData</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	PropulsionSystemDataStructLengthlessArray	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The basic operating data of the propulsion systems aboard the entity.</i>					

<b>RadarCrossSectionSignatureIndex</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	Integer16	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Index used to obtain the radar cross section signature state of the entity.</i>					
<b>SmokePlumePresent</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity is generating smoke or not (intentional or unintentional).</i>					
<b>TentDeployed</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has deployed tent or not.</i>					
<b>TrailingEffectsCode</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	TrailingEffectsCodeEnum32	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The type and size of any trail that the entity is making.</i>					
<b>VectoringNozzleSystemData</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	VectoringNozzleSystemDataStructLengthlessArray	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The basic operational data for the vectoring nozzle systems aboard the entity.</i>					

<b>EntityType</b> <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	EntityTypeStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Static	NA				
	<b>Semantics</b>					
	<i>The category of the entity.</i>					
<b>EntityIdentifier</b> <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	EntityIdentifierStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Static	NA				
	<b>Semantics</b>					
	<i>The unique identifier for the entity instance.</i>					
<b>IsPartOf</b> <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	IsPartOfStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	On change				
	<b>Semantics</b>					
	<i>Defines if the entity if a constituent part of another entity (denoted the host entity). If the entity is a constituent part of another entity then the HostEntityIdentifier shall be set to the EntityIdentifier of the host entity and the HostRTIObjectIdentifier shall be set to the RTI object instance ID of the host entity. If the entity is not a constituent part of another entity then the HostEntityIdentifier shall be set to 0.0.0 and the HostRTIObjectIdentifier shall be set to the empty string.</i>					
<b>Spatial</b> <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	SpatialVariantStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	On change RPRnoteBase10 RPRnoteBase11 RPRnoteBase12 RPRnoteBase13 RPRnoteBase14				
	<b>Semantics</b>					
	<i>Spatial state stored in one variant record attribute.</i>					

<b>RelativeSpatial</b>  <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	SpatialVariantStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i> RPRnoteBase10 RPRnoteBase11 RPRnoteBase12 RPRnoteBase13 RPRnoteBase14				
	<b>Semantics</b>					
	<i>Relative spatial state stored in one variant record attribute.</i>					
<b>HLAprivilegeToDeleteObject</b>  <i>Inherited from HLAobjectRoot in MIM</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	HLAtoken	PS	DA	TS	HLAreliable	
	<b>Update type</b>	<b>Update Condition</b>				
	Static	NA				
	<b>Semantics</b>					

### 9.1.8. CBRN\_MultiDomainPlatform

Full Name: HLAobjectRoot.BaseEntity.PhysicalEntity.Platform.MultiDomainPlatform.NETN\_MultiDomainPlatform.CBRN\_MultiDomainPlatform

Sharing: Publish/Subscribe

Semantics: *Extension of NETN\_MultiDomainPlatform to provide CBRN modelling.*

Attributes:

Contamination	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	<a href="#">ArrayOfAgentMassStruct</a>	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	CBRN hazardous agent inside vehicle due to embedded units.					
Callsign  <i>Inherited from NETN_MultiDomainPlatform in NETN-Physical_v1.1.2</i>	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	HLAunicodeString	PS		RO	HLAbestEffort	
	Update type	Update Condition				
	Static	NA				
	Semantics					
	The name of the object.					

<b>Status</b>  <i>Inherited from NETN_MultiDomainPlatform in NETN-Physical_v1.1.2</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	<a href="#">ActiveStatusEnum8</a>	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>If an instance shall be taken into account by federates</i>					
<b>Activity</b>  <i>Inherited from NETN_MultiDomainPlatform in NETN-Physical_v1.1.2</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	<a href="#">AggregateMissionEnum16</a>	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The activity of the object.</i>					
<b>EmbeddedUnitList</b>  <i>Inherited from NETN_MultiDomainPlatform in NETN-Physical_v1.1.2</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	<a href="#">ArrayOfUuid</a>	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>List of unique IDs of on-board elements</i>					
<b>UniqueID</b>  <i>Inherited from NETN_MultiDomainPlatform in NETN-Physical_v1.1.2</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	<a href="#">UuidArrayOfHLAbyte16</a>	PS		RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Static	NA				
	<b>Semantics</b>					
	<i>The unique identifier of the object. Required value. If not assigned by the ORBAT specification or similar, shall a value be assigned, either randomized or generated from the Marking or EntityIdentifier attribute value.</i>					

<b>AfterburnerOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's afterburner is on or not.</i>					
<b>AntiCollisionLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's anti-collision lights are on or not.</i>					
<b>BlackOutBrakeLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's black out brake lights are on or not.</i>					
<b>BlackOutLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's black out lights are on or not.</i>					
<b>BrakeLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's brake lights are on or not.</i>					

<b>FormationLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's formation lights are on or not.</i>					
<b>HatchState</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	HatchStateEnum32	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The state of the entity's (main) hatch.</i>					
<b>HeadLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's headlights are on or not.</i>					
<b>InteriorLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's internal lights are on or not.</i>					
<b>LandingLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's landing lights are on or not.</i>					



<b>LauncherRaised</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's weapon launcher is in the raised position.</i>					
<b>NavigationLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's navigation lights are on or not.</i>					
<b>RampDeployed</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has deployed a ramp or not.</i>					
<b>RunningLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's running lights are on or not.</i>					
<b>SpotLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's spotlights are on or not.</i>					

<b>TailLightsOn</b>  <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's tail lights are on or not.</i>					
<b>AcousticSignatureIndex</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	Integer16	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Index used to obtain the acoustics (sound through air) signature state of the entity.</i>					
<b>AlternateEntityType</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	EntityTypeStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Static	<i>NA</i>				
	<b>Semantics</b>					
	<i>The category of entity to be used when viewed by entities on the 'opposite' side.</i>					
<b>ArticulatedParametersArray</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	ArticulatedParameterStructLengthlessArray	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Identification of the visible parts, and their states, of the entity which are capable of independent motion.</i>					
<b>CamouflageType</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	CamouflageEnum32	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The type of camouflage in use (if any).</i>					

<b>DamageState</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	DamageStatusEnum32	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The state of damage of the entity.</i>					
<b>EngineSmokeOn</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's engine is generating smoke or not.</i>					
<b>FirePowerDisabled</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's main weapon system has been disabled or not.</i>					
<b>FlamesPresent</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity is on fire (with visible flames) or not.</i>					
<b>ForceIdentifier</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	ForceIdentifierEnum8	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The identification of the force that the entity belongs to.</i>					

<b>HasAmmunitionSupplyCap</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has the capability to supply other entities with ammunition.</i>					
<b>HasFuelSupplyCap</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has the capability to supply other entities with fuel or not.</i>					
<b>HasRecoveryCap</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has the capability to recover other entities or not.</i>					
<b>HasRepairCap</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has the capability to repair other entities or not.</i>					
<b>Immobilized</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity is immobilized or not.</i>					

<b>InfraredSignatureIndex</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	Integer16	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Index used to obtain the infra-red signature state of the entity.</i>					
<b>IsConcealed</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity is concealed or not.</i>					
<b>LiveEntityMeasuredSpeed</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	VelocityDecimeterPerSecondInteger16	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The entity's own measurement of speed (e.g. air speed for aircraft).</i>					
<b>Marking</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	MarkingStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>A unique marking or combination of characters used to distinguish the entity from other entities.</i>					
<b>PowerPlantOn</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's power plant is on or not.</i>					

<b>PropulsionSystemsData</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	PropulsionSystemDataStructLengthlessArray	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The basic operating data of the propulsion systems aboard the entity.</i>					
<b>RadarCrossSectionSignatureIndex</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	Integer16	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Index used to obtain the radar cross section signature state of the entity.</i>					
<b>SmokePlumePresent</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity is generating smoke or not (intentional or unintentional).</i>					
<b>TentDeployed</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has deployed tent or not.</i>					
<b>TrailingEffectsCode</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	TrailingEffectsCodeEnum32	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The type and size of any trail that the entity is making.</i>					

<b>VectoringNozzleSystemData</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	VectoringNozzleSystemDataStructLengthlessArray	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The basic operational data for the vectoring nozzle systems aboard the entity.</i>					
<b>EntityType</b>  <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	EntityTypeStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Static	<i>NA</i>				
	<b>Semantics</b>					
	<i>The category of the entity.</i>					
<b>EntityIdentifier</b>  <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	EntityIdentifierStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Static	<i>NA</i>				
	<b>Semantics</b>					
	<i>The unique identifier for the entity instance.</i>					
<b>IsPartOf</b>  <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	IsPartOfStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Defines if the entity if a constituent part of another entity (denoted the host entity). If the entity is a constituent part of another entity then the HostEntityIdentifier shall be set to the EntityIdentifier of the host entity and the HostRTIObjectIdentifier shall be set to the RTI object instance ID of the host entity. If the entity is not a constituent part of another entity then the HostEntityIdentifier shall be set to 0.0.0 and the HostRTIObjectIdentifier shall be set to the empty string.</i>					

<b>Spatial</b> <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	SpatialVariantStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i> RPRnoteBase10 RPRnoteBase11 RPRnoteBase12 RPRnoteBase13 RPRnoteBase14				
	<b>Semantics</b>					
	<i>Spatial state stored in one variant record attribute.</i>					
<b>RelativeSpatial</b> <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	SpatialVariantStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i> RPRnoteBase10 RPRnoteBase11 RPRnoteBase12 RPRnoteBase13 RPRnoteBase14				
	<b>Semantics</b>					
	<i>Relative spatial state stored in one variant record attribute.</i>					
<b>HLAprivilegeToDeleteObject</b> <i>Inherited from HLAobjectRoot in MIM</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	HLAtoken	PS	DA	TS	HLAreliable	
	<b>Update type</b>	<b>Update Condition</b>				
	Static	NA				
	<b>Semantics</b>					

### 9.1.9. CBRN\_Spacecraft

Full Name: HLAobjectRoot.BaseEntity.PhysicalEntity.Platform.Spacecraft.NETN\_Spacecraft.CBRN\_Spacecraft

Sharing: Publish/Subscribe

Semantics: *Extension of NETN\_Spacecraft to provide CBRN modelling.*

Attributes:

Contamination	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	<a href="#">ArrayOfAgentMassStruct</a>	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	CBRN hazardous agent inside vehicle due to embedded units.					



<b>Callsign</b>  <i>Inherited from NETN_Spacecraft in NETN-Physical_v1.1.2</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	HLAunicodeString	PS		RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Static	NA				
	<b>Semantics</b>					
	<i>The name of the object.</i>					
<b>Status</b>  <i>Inherited from NETN_Spacecraft in NETN-Physical_v1.1.2</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	<a href="#">ActiveStatusEnum8</a>	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>If an instance shall be taken into account by federates</i>					
<b>Activity</b>  <i>Inherited from NETN_Spacecraft in NETN-Physical_v1.1.2</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	<a href="#">AggregateMissionEnum16</a>	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The activity of the object.</i>					
<b>EmbeddedUnitList</b>  <i>Inherited from NETN_Spacecraft in NETN-Physical_v1.1.2</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	<a href="#">ArrayOfUuid</a>	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>List of unique IDs of on-board elements</i>					

<b>UniqueID</b>  <i>Inherited from NETN_Spacecraft in NETN-Physical_v1.1.2</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	<a href="#">UuidArrayOfHLAbyte16</a>	PS		RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Static	NA				
	<b>Semantics</b>					
	<i>The unique identifier of the object. Required value. If not assigned by the ORBAT specification or similar, shall a value be assigned, either randomized or generated from the Marking or EntityIdentifier attribute value.</i>					

<b>AfterburnerOn</b>  <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's afterburner is on or not.</i>					

<b>AntiCollisionLightsOn</b>  <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's anti-collision lights are on or not.</i>					

<b>BlackOutBrakeLightsOn</b>  <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's black out brake lights are on or not.</i>					

<b>BlackOutLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's black out lights are on or not.</i>					
<b>BrakeLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's brake lights are on or not.</i>					
<b>FormationLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's formation lights are on or not.</i>					
<b>HatchState</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	HatchStateEnum32	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The state of the entity's (main) hatch.</i>					
<b>HeadLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's headlights are on or not.</i>					

<b>InteriorLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's internal lights are on or not.</i>					
<b>LandingLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's landing lights are on or not.</i>					
<b>LauncherRaised</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's weapon launcher is in the raised position.</i>					
<b>NavigationLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's navigation lights are on or not.</i>					
<b>RampDeployed</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has deployed a ramp or not.</i>					

<b>RunningLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's running lights are on or not.</i>					
<b>SpotLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's spotlights are on or not.</i>					
<b>TailLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's tail lights are on or not.</i>					
<b>AcousticSignatureIndex</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	Integer16	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Index used to obtain the acoustics (sound through air) signature state of the entity.</i>					
<b>AlternateEntityType</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	EntityTypeStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Static	NA				
	<b>Semantics</b>					
	<i>The category of entity to be used when viewed by entities on the 'opposite' side.</i>					

<b>ArticulatedParametersArray</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	ArticulatedParameterStructLengthlessArray	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Identification of the visible parts, and their states, of the entity which are capable of independent motion.</i>					
<b>CamouflageType</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	CamouflageEnum32	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The type of camouflage in use (if any).</i>					
<b>DamageState</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	DamageStatusEnum32	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The state of damage of the entity.</i>					
<b>EngineSmokeOn</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's engine is generating smoke or not.</i>					
<b>FirePowerDisabled</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's main weapon system has been disabled or not.</i>					

<b>FlamesPresent</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity is on fire (with visible flames) or not.</i>					
<b>ForceIdentifier</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	ForceIdentifierEnum8	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The identification of the force that the entity belongs to.</i>					
<b>HasAmmunitionSupplyCap</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has the capability to supply other entities with ammunition.</i>					
<b>HasFuelSupplyCap</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has the capability to supply other entities with fuel or not.</i>					
<b>HasRecoveryCap</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has the capability to recover other entities or not.</i>					

<b>HasRepairCap</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has the capability to repair other entities or not.</i>					
<b>Immobilized</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity is immobilized or not.</i>					
<b>InfraredSignatureIndex</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	Integer16	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Index used to obtain the infra-red signature state of the entity.</i>					
<b>IsConcealed</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity is concealed or not.</i>					
<b>LiveEntityMeasuredSpeed</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	VelocityDecimeterPerSecondInteger16	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The entity's own measurement of speed (e.g. air speed for aircraft).</i>					



<b>Marking</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	MarkingStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>A unique marking or combination of characters used to distinguish the entity from other entities.</i>					
<b>PowerPlantOn</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's power plant is on or not.</i>					
<b>PropulsionSystemsData</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	PropulsionSystemDataStructLengthlessArray	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The basic operating data of the propulsion systems aboard the entity.</i>					
<b>RadarCrossSectionSignatureIndex</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	Integer16	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Index used to obtain the radar cross section signature state of the entity.</i>					
<b>SmokePlumePresent</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity is generating smoke or not (intentional or unintentional).</i>					

<b>TentDeployed</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has deployed tent or not.</i>					
<b>TrailingEffectsCode</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	TrailingEffectsCodeEnum32	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The type and size of any trail that the entity is making.</i>					
<b>VectoringNozzleSystemData</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	VectoringNozzleSystemDataStructLengthlessArray	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The basic operational data for the vectoring nozzle systems aboard the entity.</i>					
<b>EntityType</b>  <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	EntityTypeStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Static	<i>NA</i>				
	<b>Semantics</b>					
	<i>The category of the entity.</i>					
<b>EntityIdentifier</b>  <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	EntityIdentifierStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Static	<i>NA</i>				
	<b>Semantics</b>					
	<i>The unique identifier for the entity instance.</i>					

<b>IsPartOf</b>  <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	IsPartOfStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Defines if the entity if a constituent part of another entity (denoted the host entity). If the entity is a constituent part of another entity then the HostEntityIdentifier shall be set to the EntityIdentifier of the host entity and the HostRTIObjectIdentifier shall be set to the RTI object instance ID of the host entity. If the entity is not a constituent part of another entity then the HostEntityIdentifier shall be set to 0.0.0 and the HostRTIObjectIdentifier shall be set to the empty string.</i>					
<b>Spatial</b>  <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	SpatialVariantStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i> RPRnoteBase10 RPRnoteBase11 RPRnoteBase12 RPRnoteBase13 RPRnoteBase14				
	<b>Semantics</b>					
	<i>Spatial state stored in one variant record attribute.</i>					
<b>RelativeSpatial</b>  <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	SpatialVariantStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i> RPRnoteBase10 RPRnoteBase11 RPRnoteBase12 RPRnoteBase13 RPRnoteBase14				
	<b>Semantics</b>					
	<i>Relative spatial state stored in one variant record attribute.</i>					
<b>HLAprivilegeToDeleteObject</b>  <i>Inherited from HLAobjectRoot in MIM</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	HLAtoken	PS	DA	TS	HLAreliable	
	<b>Update type</b>	<b>Update Condition</b>				
	Static	NA				
	<b>Semantics</b>					

**9.1.10. CBRN\_SubmersibleVehicle**

Full Name: HLAobjectRoot.BaseEntity.PhysicalEntity.Platform.SubmersibleVessel.NETN\_SubmersibleVehicle.CBRN\_SubmersibleVehicle

Sharing: Publish/Subscribe

Semantics: *Extension of NETN\_SubmersibleVehicle to provide CBRN modelling.*

Attributes:

Contamination	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	<a href="#">ArrayOfAgentMassStruct</a>	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	CBRN hazardous agent inside vehicle due to embedded units.					
Callsign  <i>Inherited from NETN_SubmersibleVehicle in NETN-Physical_v1.1.2</i>	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	HLAunicodeString	PS		RO	HLAbestEffort	
	Update type	Update Condition				
	Static	NA				
	Semantics					
	The name of the object.					
Status  <i>Inherited from NETN_SubmersibleVehicle in NETN-Physical_v1.1.2</i>	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	<a href="#">ActiveStatusEnum8</a>	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	If an instance shall be taken into account by federates					
Activity  <i>Inherited from NETN_SubmersibleVehicle in NETN-Physical_v1.1.2</i>	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	<a href="#">AggregateMissionEnum16</a>	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	The activity of the object.					

<b>EmbeddedUnitList</b>  <i>Inherited from NETN_SubmersibleVehicle in NETN-Physical_v1.1.2</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	<a href="#">ArrayOfUuid</a>	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>List of unique IDs of on-board elements</i>					
<b>UniqueID</b>  <i>Inherited from NETN_SubmersibleVehicle in NETN-Physical_v1.1.2</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	<a href="#">UuidArrayOfHLAbyte16</a>	PS		RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Static	<i>NA</i>				
	<b>Semantics</b>					
	<i>The unique identifier of the object. Required value. If not assigned by the ORBAT specification or similar, shall a value be assigned, either randomized or generated from the Marking or EntityIdentifier attribute value.</i>					
<b>AfterburnerOn</b>  <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's afterburner is on or not.</i>					
<b>AntiCollisionLightsOn</b>  <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's anti-collision lights are on or not.</i>					

<b>BlackOutBrakeLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's black out brake lights are on or not.</i>					
<b>BlackOutLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's black out lights are on or not.</i>					
<b>BrakeLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's brake lights are on or not.</i>					
<b>FormationLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's formation lights are on or not.</i>					
<b>HatchState</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	HatchStateEnum32	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The state of the entity's (main) hatch.</i>					

<b>HeadLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's headlights are on or not.</i>					
<b>InteriorLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's internal lights are on or not.</i>					
<b>LandingLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's landing lights are on or not.</i>					
<b>LauncherRaised</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's weapon launcher is in the raised position.</i>					
<b>NavigationLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's navigation lights are on or not.</i>					

<b>RampDeployed</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has deployed a ramp or not.</i>					
<b>RunningLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's running lights are on or not.</i>					
<b>SpotLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's spotlights are on or not.</i>					
<b>TailLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's tail lights are on or not.</i>					
<b>AcousticSignatureIndex</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	Integer16	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Index used to obtain the acoustics (sound through air) signature state of the entity.</i>					



<b>AlternateEntityType</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	EntityTypeStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Static	NA				
	<b>Semantics</b>					
	<i>The category of entity to be used when viewed by entities on the 'opposite' side.</i>					
<b>ArticulatedParametersArray</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	ArticulatedParameterStructLengthlessArray	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Identification of the visible parts, and their states, of the entity which are capable of independent motion.</i>					
<b>CamouflageType</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	CamouflageEnum32	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The type of camouflage in use (if any).</i>					
<b>DamageState</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	DamageStatusEnum32	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The state of damage of the entity.</i>					
<b>EngineSmokeOn</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's engine is generating smoke or not.</i>					

<b>FirePowerDisabled</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's main weapon system has been disabled or not.</i>					
<b>FlamesPresent</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity is on fire (with visible flames) or not.</i>					
<b>ForceIdentifier</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	ForceIdentifierEnum8	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The identification of the force that the entity belongs to.</i>					
<b>HasAmmunitionSupplyCap</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has the capability to supply other entities with ammunition.</i>					
<b>HasFuelSupplyCap</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has the capability to supply other entities with fuel or not.</i>					

<b>HasRecoveryCap</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has the capability to recover other entities or not.</i>					
<b>HasRepairCap</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has the capability to repair other entities or not.</i>					
<b>Immobilized</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity is immobilized or not.</i>					
<b>InfraredSignatureIndex</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	Integer16	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Index used to obtain the infra-red signature state of the entity.</i>					
<b>IsConcealed</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity is concealed or not.</i>					

<b>LiveEntityMeasuredSpeed</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	VelocityDecimeterPerSecondInteger16	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The entity's own measurement of speed (e.g. air speed for aircraft).</i>					
<b>Marking</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	MarkingStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>A unique marking or combination of characters used to distinguish the entity from other entities.</i>					
<b>PowerPlantOn</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's power plant is on or not.</i>					
<b>PropulsionSystemsData</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	PropulsionSystemDataStructLengthlessArray	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The basic operating data of the propulsion systems aboard the entity.</i>					
<b>RadarCrossSectionSignatureIndex</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	Integer16	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Index used to obtain the radar cross section signature state of the entity.</i>					

<b>SmokePlumePresent</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity is generating smoke or not (intentional or unintentional).</i>					
<b>TentDeployed</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has deployed tent or not.</i>					
<b>TrailingEffectsCode</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	TrailingEffectsCodeEnum32	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The type and size of any trail that the entity is making.</i>					
<b>VectoringNozzleSystemData</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	VectoringNozzleSystemDataStructLengthlessArray	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The basic operational data for the vectoring nozzle systems aboard the entity.</i>					
<b>EntityType</b>  <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	EntityTypeStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Static	<i>NA</i>				
	<b>Semantics</b>					
	<i>The category of the entity.</i>					

<b>EntityIdentifier</b> <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	EntityIdentifierStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Static	NA				
	<b>Semantics</b>					
	<i>The unique identifier for the entity instance.</i>					
<b>IsPartOf</b> <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	IsPartOfStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Defines if the entity if a constituent part of another entity (denoted the host entity). If the entity is a constituent part of another entity then the HostEntityIdentifier shall be set to the EntityIdentifier of the host entity and the HostRTIObjectIdentifier shall be set to the RTI object instance ID of the host entity. If the entity is not a constituent part of another entity then the HostEntityIdentifier shall be set to 0.0.0 and the HostRTIObjectIdentifier shall be set to the empty string.</i>					
<b>Spatial</b> <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	SpatialVariantStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i> RPRnoteBase10 RPRnoteBase11 RPRnoteBase12 RPRnoteBase13 RPRnoteBase14				
	<b>Semantics</b>					
	<i>Spatial state stored in one variant record attribute.</i>					
<b>RelativeSpatial</b> <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	SpatialVariantStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i> RPRnoteBase10 RPRnoteBase11 RPRnoteBase12 RPRnoteBase13 RPRnoteBase14				
	<b>Semantics</b>					
	<i>Relative spatial state stored in one variant record attribute.</i>					

<b>HLAprivilegeToDeleteObject</b> <i>Inherited from HLAobjectRoot in MIM</i>	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	HLAtoken	PS	DA	TS	HLAreliable	
	Update type	Update Condition				
	Static	NA				
	Semantics					

### 9.1.11. CBRN\_SurfaceVessel

Full Name: HLAobjectRoot.BaseEntity.PhysicalEntity.Platform.SurfaceVessel.NETN\_SurfaceVessel.CBRN\_SurfaceVessel

Sharing: Publish/Subscribe

Semantics: *Extension of NETN\_SurfaceVessel to provide CBRN modelling.*

Attributes:

Contamination	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	<a href="#">ArrayOfAgentMassStruct</a>	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	CBRN hazardous agent inside vehicle due to embedded units.					
Callsign  <i>Inherited from NETN_SurfaceVessel in NETN-Physical_v1.1.2</i>	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	HLAunicodeString	PS		RO	HLAbestEffort	
	Update type	Update Condition				
	Static	NA				
	Semantics					
	The name of the object.					
Status  <i>Inherited from NETN_SurfaceVessel in NETN-Physical_v1.1.2</i>	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	<a href="#">ActiveStatusEnum8</a>	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	If an instance shall be taken into account by federates					

<b>Activity</b>  <i>Inherited from NETN_SurfaceVessel in NETN-Physical_v1.1.2</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	<a href="#">AggregateMissionEnum16</a>	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	<b>Conditional</b>	<i>On change</i>				
	<b>Semantics</b>					
	<i>The activity of the object.</i>					
<b>EmbeddedUnitList</b>  <i>Inherited from NETN_SurfaceVessel in NETN-Physical_v1.1.2</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	<a href="#">ArrayOfUuid</a>	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	<b>Conditional</b>	<i>On change</i>				
	<b>Semantics</b>					
	<i>List of unique IDs of on-board elements</i>					
<b>UniqueID</b>  <i>Inherited from NETN_SurfaceVessel in NETN-Physical_v1.1.2</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	<a href="#">UuidArrayOfHLAbyte16</a>	PS		RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	<b>Static</b>	<i>NA</i>				
	<b>Semantics</b>					
	<i>The unique identifier of the object. Required value. If not assigned by the ORBAT specification or similar, shall a value be assigned, either randomized or generated from the Marking or EntityIdentifier attribute value.</i>					
<b>AfterburnerOn</b>  <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	<b>Conditional</b>	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's afterburner is on or not.</i>					



<b>AntiCollisionLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's anti-collision lights are on or not.</i>					
<b>BlackOutBrakeLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's black out brake lights are on or not.</i>					
<b>BlackOutLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's black out lights are on or not.</i>					
<b>BrakeLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's brake lights are on or not.</i>					
<b>FormationLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's formation lights are on or not.</i>					

<b>HatchState</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	HatchStateEnum32	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The state of the entity's (main) hatch.</i>					
<b>HeadLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's headlights are on or not.</i>					
<b>InteriorLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's internal lights are on or not.</i>					
<b>LandingLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's landing lights are on or not.</i>					
<b>LauncherRaised</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's weapon launcher is in the raised position.</i>					

<b>NavigationLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's navigation lights are on or not.</i>					
<b>RampDeployed</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has deployed a ramp or not.</i>					
<b>RunningLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's running lights are on or not.</i>					
<b>SpotLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's spotlights are on or not.</i>					
<b>TailLightsOn</b> <i>Inherited from Platform in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's tail lights are on or not.</i>					

<b>AcousticSignatureIndex</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	Integer16	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Index used to obtain the acoustics (sound through air) signature state of the entity.</i>					
<b>AlternateEntityType</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	EntityTypeStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Static	<i>NA</i>				
	<b>Semantics</b>					
	<i>The category of entity to be used when viewed by entities on the 'opposite' side.</i>					
<b>ArticulatedParametersArray</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	ArticulatedParameterStructLengthlessArray	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Identification of the visible parts, and their states, of the entity which are capable of independent motion.</i>					
<b>CamouflageType</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	CamouflageEnum32	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The type of camouflage in use (if any).</i>					
<b>DamageState</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	DamageStatusEnum32	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The state of damage of the entity.</i>					

<b>EngineSmokeOn</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's engine is generating smoke or not.</i>					
<b>FirePowerDisabled</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's main weapon system has been disabled or not.</i>					
<b>FlamesPresent</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity is on fire (with visible flames) or not.</i>					
<b>ForceIdentifier</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	ForceIdentifierEnum8	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The identification of the force that the entity belongs to.</i>					
<b>HasAmmunitionSupplyCap</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has the capability to supply other entities with ammunition.</i>					

<b>HasFuelSupplyCap</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has the capability to supply other entities with fuel or not.</i>					
<b>HasRecoveryCap</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has the capability to recover other entities or not.</i>					
<b>HasRepairCap</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has the capability to repair other entities or not.</i>					
<b>Immobilized</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity is immobilized or not.</i>					
<b>InfraredSignatureIndex</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	Integer16	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Index used to obtain the infra-red signature state of the entity.</i>					

<b>IsConcealed</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity is concealed or not.</i>					
<b>LiveEntityMeasuredSpeed</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	VelocityDecimeterPerSecondInteger16	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The entity's own measurement of speed (e.g. air speed for aircraft).</i>					
<b>Marking</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	MarkingStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>A unique marking or combination of characters used to distinguish the entity from other entities.</i>					
<b>PowerPlantOn</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's power plant is on or not.</i>					
<b>PropulsionSystemsData</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	PropulsionSystemDataStructLengthlessArray	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The basic operating data of the propulsion systems aboard the entity.</i>					

<b>RadarCrossSectionSignatureIndex</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	Integer16	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Index used to obtain the radar cross section signature state of the entity.</i>					
<b>SmokePlumePresent</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity is generating smoke or not (intentional or unintentional).</i>					
<b>TentDeployed</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has deployed tent or not.</i>					
<b>TrailingEffectsCode</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	TrailingEffectsCodeEnum32	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The type and size of any trail that the entity is making.</i>					
<b>VectoringNozzleSystemData</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	VectoringNozzleSystemDataStructLengthlessArray	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The basic operational data for the vectoring nozzle systems aboard the entity.</i>					



<b>EntityType</b> <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	EntityTypeStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Static	NA				
	<b>Semantics</b>					
	<i>The category of the entity.</i>					
<b>EntityIdentifier</b> <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	EntityIdentifierStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Static	NA				
	<b>Semantics</b>					
	<i>The unique identifier for the entity instance.</i>					
<b>IsPartOf</b> <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	IsPartOfStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	On change				
	<b>Semantics</b>					
	<i>Defines if the entity if a constituent part of another entity (denoted the host entity). If the entity is a constituent part of another entity then the HostEntityIdentifier shall be set to the EntityIdentifier of the host entity and the HostRTIObjectIdentifier shall be set to the RTI object instance ID of the host entity. If the entity is not a constituent part of another entity then the HostEntityIdentifier shall be set to 0.0.0 and the HostRTIObjectIdentifier shall be set to the empty string.</i>					
<b>Spatial</b> <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	SpatialVariantStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	On change RPRnoteBase10 RPRnoteBase11 RPRnoteBase12 RPRnoteBase13 RPRnoteBase14				
	<b>Semantics</b>					
	<i>Spatial state stored in one variant record attribute.</i>					

<b>RelativeSpatial</b>  <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	SpatialVariantStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i> RPRnoteBase10 RPRnoteBase11 RPRnoteBase12 RPRnoteBase13 RPRnoteBase14				
	<b>Semantics</b>					
	<i>Relative spatial state stored in one variant record attribute.</i>					
<b>HLAprivilegeToDeleteObject</b>  <i>Inherited from HLAobjectRoot in MIM</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	HLAtoken	PS	DA	TS	HLAreliable	
	<b>Update type</b>	<b>Update Condition</b>				
	Static	NA				
	<b>Semantics</b>					

### 9.1.12. CBRN\_Detector

Full Name: HLAobjectRoot.BaseEntity.PhysicalEntity.Sensor.CBRN\_Detector

Sharing: Publish/Subscribe

Semantics: *Represents a CBRN detector. This object is used to pass information to a CBRN federate, which will model the detector internally and publish a CBRN\_DetectorAlarm.*

Attributes:

UniqueID	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	<a href="#">UuidArrayOfHLAbyte16</a>	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Static	N/A				
	Semantics					
	Unique representation of the detector's ID.					
ProcessingTime	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	TimeSecondInteger32	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Static	N/A				
	Semantics					
	Duration (in seconds) between the detector being exposed to a concentration of agent above its threshold and the detector raising an alarm.					

AveragingTime	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	TimeSecondInteger32	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Static	N/A				
	Semantics					
	Duration (in seconds) over which the detector will collect samples.					
DetectableAgents	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	<a href="#">ArrayOfAgentConcentrationStruct</a>	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Static	N/A				
	Semantics					
	Array of detectable agents and their thresholds.					
Alarm	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	<a href="#">CBRNAAlarmStruct</a>	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	Data representing the alarm of this detector. Defaults to no alarm if the attribute is not set.					
AntennaRaised <i>Inherited from Sensor in RPR-Physical_v2.0</i>	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	RPRboolean	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	Whether the sensor/emitter's antenna is raised or not.					
BlackoutLightsOn <i>Inherited from Sensor in RPR-Physical_v2.0</i>	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	RPRboolean	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	Whether the sensor/emitter's blackout lights are on or not.					

<b>LightsOn</b> <i>Inherited from Sensor in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the sensor/emitter's lights are on or not.</i>					
<b>InteriorLightsOn</b> <i>Inherited from Sensor in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the sensor/emitter's interior lights are on or not.</i>					
<b>MissionKill</b> <i>Inherited from Sensor in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the sensor/emitter has sustained damage that will prevent it carrying out its mission or not (e.g. damaged antenna).</i>					
<b>AcousticSignatureIndex</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	Integer16	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Index used to obtain the acoustics (sound through air) signature state of the entity.</i>					
<b>AlternateEntityType</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	EntityTypeStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Static	NA				
	<b>Semantics</b>					
	<i>The category of entity to be used when viewed by entities on the 'opposite' side.</i>					

<b>ArticulatedParametersArray</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	ArticulatedParameterStructLengthlessArray	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Identification of the visible parts, and their states, of the entity which are capable of independent motion.</i>					
<b>CamouflageType</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	CamouflageEnum32	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The type of camouflage in use (if any).</i>					
<b>DamageState</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	DamageStatusEnum32	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The state of damage of the entity.</i>					
<b>EngineSmokeOn</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's engine is generating smoke or not.</i>					
<b>FirePowerDisabled</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's main weapon system has been disabled or not.</i>					

<b>FlamesPresent</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity is on fire (with visible flames) or not.</i>					
<b>ForceIdentifier</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	ForceIdentifierEnum8	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The identification of the force that the entity belongs to.</i>					
<b>HasAmmunitionSupplyCap</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has the capability to supply other entities with ammunition.</i>					
<b>HasFuelSupplyCap</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has the capability to supply other entities with fuel or not.</i>					
<b>HasRecoveryCap</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has the capability to recover other entities or not.</i>					

<b>HasRepairCap</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has the capability to repair other entities or not.</i>					
<b>Immobilized</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity is immobilized or not.</i>					
<b>InfraredSignatureIndex</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	Integer16	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Index used to obtain the infra-red signature state of the entity.</i>					
<b>IsConcealed</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity is concealed or not.</i>					
<b>LiveEntityMeasuredSpeed</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	VelocityDecimeterPerSecondInteger16	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The entity's own measurement of speed (e.g. air speed for aircraft).</i>					

<b>Marking</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	MarkingStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>A unique marking or combination of characters used to distinguish the entity from other entities.</i>					
<b>PowerPlantOn</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's power plant is on or not.</i>					
<b>PropulsionSystemsData</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	PropulsionSystemDataStructLengthlessArray	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The basic operating data of the propulsion systems aboard the entity.</i>					
<b>RadarCrossSectionSignatureIndex</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	Integer16	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Index used to obtain the radar cross section signature state of the entity.</i>					
<b>SmokePlumePresent</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity is generating smoke or not (intentional or unintentional).</i>					



<b>TentDeployed</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has deployed tent or not.</i>					
<b>TrailingEffectsCode</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	TrailingEffectsCodeEnum32	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The type and size of any trail that the entity is making.</i>					
<b>VectoringNozzleSystemData</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	VectoringNozzleSystemDataStructLengthlessArray	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The basic operational data for the vectoring nozzle systems aboard the entity.</i>					
<b>EntityType</b>  <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	EntityTypeStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Static	<i>NA</i>				
	<b>Semantics</b>					
	<i>The category of the entity.</i>					
<b>EntityIdentifier</b>  <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	EntityIdentifierStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Static	<i>NA</i>				
	<b>Semantics</b>					
	<i>The unique identifier for the entity instance.</i>					

<b>IsPartOf</b>  <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	IsPartOfStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Defines if the entity if a constituent part of another entity (denoted the host entity). If the entity is a constituent part of another entity then the HostEntityIdentifier shall be set to the EntityIdentifier of the host entity and the HostRTIObjectIdentifier shall be set to the RTI object instance ID of the host entity. If the entity is not a constituent part of another entity then the HostEntityIdentifier shall be set to 0.0.0 and the HostRTIObjectIdentifier shall be set to the empty string.</i>					
<b>Spatial</b>  <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	SpatialVariantStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i> RPRnoteBase10 RPRnoteBase11 RPRnoteBase12 RPRnoteBase13 RPRnoteBase14				
	<b>Semantics</b>					
	<i>Spatial state stored in one variant record attribute.</i>					
<b>RelativeSpatial</b>  <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	SpatialVariantStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i> RPRnoteBase10 RPRnoteBase11 RPRnoteBase12 RPRnoteBase13 RPRnoteBase14				
	<b>Semantics</b>					
	<i>Relative spatial state stored in one variant record attribute.</i>					
<b>HLAprivilegeToDeleteObject</b>  <i>Inherited from HLAobjectRoot in MIM</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	HLAtoken	PS	DA	TS	HLAreliable	
	<b>Update type</b>	<b>Update Condition</b>				
	Static	NA				
	<b>Semantics</b>					

**9.1.13. CBRN\_Sensor**

Full Name: HLAobjectRoot.BaseEntity.PhysicalEntity.Sensor.CBRN\_Sensor

Sharing: Publish/Subscribe

Semantics: *Represents a CBRN sensor. This object is used to pass information to a CBRN federate, which will return sensor readings by publishing CBRN\_SensorUpdate interactions.*

Attributes:

UniqueID	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	<a href="#">UuidArrayOfHLAByte16</a>	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Static	N/A				
	Semantics					
	Unique representation of the sensor's ID.					
UpdateFrequency	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	TimeSecondInteger32	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Static	N/A				
	Semantics					
	Duration (in seconds) that this sensor would like between updated readings.					
AveragingTime	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	TimeSecondInteger32	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Static	N/A				
	Semantics					
	Duration (in seconds) over which the sensor will collect samples.					
DetectableAgents	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	<a href="#">ArrayOfAgentTypeEnum</a>	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Static	N/A				
	Semantics					
	Array of agents that this sensor wishes to detect.					

<b>SensorReadings</b>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	<a href="#">ArrayOfCBRNSensorReadingStruct</a>	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Latest sensor readings. Defaults to no readings if this attribute is not set.</i>					
<b>AntennaRaised</b> <i>Inherited from Sensor in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the sensor/emitter's antenna is raised or not.</i>					
<b>BlackoutLightsOn</b> <i>Inherited from Sensor in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the sensor/emitter's blackout lights are on or not.</i>					
<b>LightsOn</b> <i>Inherited from Sensor in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the sensor/emitter's lights are on or not.</i>					
<b>InteriorLightsOn</b> <i>Inherited from Sensor in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the sensor/emitter's interior lights are on or not.</i>					

<b>MissionKill</b>  <i>Inherited from Sensor in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the sensor/emitter has sustained damage that will prevent it carrying out its mission or not (e.g. damaged antenna).</i>					
<b>AcousticSignatureIndex</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	Integer16	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Index used to obtain the acoustics (sound through air) signature state of the entity.</i>					
<b>AlternateEntityType</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	EntityTypeStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Static	<i>NA</i>				
	<b>Semantics</b>					
	<i>The category of entity to be used when viewed by entities on the 'opposite' side.</i>					
<b>ArticulatedParametersArray</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	ArticulatedParameterStructLengthlessArray	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Identification of the visible parts, and their states, of the entity which are capable of independent motion.</i>					
<b>CamouflageType</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	CamouflageEnum32	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The type of camouflage in use (if any).</i>					

<b>DamageState</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	DamageStatusEnum32	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The state of damage of the entity.</i>					
<b>EngineSmokeOn</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's engine is generating smoke or not.</i>					
<b>FirePowerDisabled</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's main weapon system has been disabled or not.</i>					
<b>FlamesPresent</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity is on fire (with visible flames) or not.</i>					
<b>ForceIdentifier</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	ForceIdentifierEnum8	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The identification of the force that the entity belongs to.</i>					

<b>HasAmmunitionSupplyCap</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has the capability to supply other entities with ammunition.</i>					
<b>HasFuelSupplyCap</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has the capability to supply other entities with fuel or not.</i>					
<b>HasRecoveryCap</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has the capability to recover other entities or not.</i>					
<b>HasRepairCap</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has the capability to repair other entities or not.</i>					
<b>Immobilized</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity is immobilized or not.</i>					

<b>InfraredSignatureIndex</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	Integer16	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Index used to obtain the infra-red signature state of the entity.</i>					
<b>IsConcealed</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity is concealed or not.</i>					
<b>LiveEntityMeasuredSpeed</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	VelocityDecimeterPerSecondInteger16	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The entity's own measurement of speed (e.g. air speed for aircraft).</i>					
<b>Marking</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	MarkingStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>A unique marking or combination of characters used to distinguish the entity from other entities.</i>					
<b>PowerPlantOn</b> <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity's power plant is on or not.</i>					



<b>PropulsionSystemsData</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	PropulsionSystemDataStructLengthlessArray	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The basic operating data of the propulsion systems aboard the entity.</i>					
<b>RadarCrossSectionSignatureIndex</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	Integer16	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Index used to obtain the radar cross section signature state of the entity.</i>					
<b>SmokePlumePresent</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity is generating smoke or not (intentional or unintentional).</i>					
<b>TentDeployed</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	RPRboolean	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Whether the entity has deployed tent or not.</i>					
<b>TrailingEffectsCode</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	TrailingEffectsCodeEnum32	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The type and size of any trail that the entity is making.</i>					

<b>VectoringNozzleSystemData</b>  <i>Inherited from PhysicalEntity in RPR-Physical_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	VectoringNozzleSystemDataStructLengthlessArray	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>The basic operational data for the vectoring nozzle systems aboard the entity.</i>					
<b>EntityType</b>  <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	EntityTypeStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Static	<i>NA</i>				
	<b>Semantics</b>					
	<i>The category of the entity.</i>					
<b>EntityIdentifier</b>  <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	EntityIdentifierStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Static	<i>NA</i>				
	<b>Semantics</b>					
	<i>The unique identifier for the entity instance.</i>					
<b>IsPartOf</b>  <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	IsPartOfStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i>				
	<b>Semantics</b>					
	<i>Defines if the entity if a constituent part of another entity (denoted the host entity). If the entity is a constituent part of another entity then the HostEntityIdentifier shall be set to the EntityIdentifier of the host entity and the HostRTIObjectIdentifier shall be set to the RTI object instance ID of the host entity. If the entity is not a constituent part of another entity then the HostEntityIdentifier shall be set to 0.0.0 and the HostRTIObjectIdentifier shall be set to the empty string.</i>					

<b>Spatial</b>  <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	SpatialVariantStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i> RPRnoteBase10 RPRnoteBase11 RPRnoteBase12 RPRnoteBase13 RPRnoteBase14				
	<b>Semantics</b>					
	<i>Spatial state stored in one variant record attribute.</i>					
<b>RelativeSpatial</b>  <i>Inherited from BaseEntity in RPR-Base_v2.0</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	SpatialVariantStruct	PS	DA	RO	HLAbestEffort	
	<b>Update type</b>	<b>Update Condition</b>				
	Conditional	<i>On change</i> RPRnoteBase10 RPRnoteBase11 RPRnoteBase12 RPRnoteBase13 RPRnoteBase14				
	<b>Semantics</b>					
	<i>Relative spatial state stored in one variant record attribute.</i>					
<b>HLAprivilegeToDeleteObject</b>  <i>Inherited from HLAobjectRoot in MIM</i>	<b>Datatype</b>	<b>Sharing</b>	<b>Ownership</b>	<b>Order</b>	<b>Transportation</b>	<b>Dimensions</b>
	HLAtoken	PS	DA	TS	HLAreliable	
	<b>Update type</b>	<b>Update Condition</b>				
	Static	NA				
	<b>Semantics</b>					

#### 9.1.14. ProbabilityHazardContourGroup

Full Name: HLAobjectRoot.ProbabilityHazardContourGroup

Sharing: Publish/Subscribe

Semantics: *Represents the footprint covered by a CBRN hazard. This object covers the agent-specific effects which would be the output from a casualty model.*

Attributes:

Time	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	<a href="#">TimeSecInt64</a>	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	Simulation time at which this contour group was generated.					

Agent	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	<a href="#">AgentTypeEnum16</a>	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Static	NA				
	Semantics					
	Agent reflected in this contour.					
ExposureType	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	<a href="#">ExposureTypeEnum8</a>	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Static	NA				
	Semantics					
	Type of exposure.					
Contours	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	<a href="#">ArrayOfProbabilityHazardContourStructure</a>	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	Array of contours. These should be ordered in a sequence of ascending PercentProbabilityLevel.					
UniqueID	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	<a href="#">UuidArrayOfHLAbyte16</a>	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Static	N/A				
	Semantics					
	Unique representation of the contour's ID.					
HLAprivilegeToDeleteObject <i>Inherited from HLAobjectRoot in MIM</i>	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	HLAtoken	PS	DA	TS	HLAreliable	
	Update type	Update Condition				
	Static	NA				
	Semantics					

### 9.1.15. RawDataHazardContourGroup

Full Name: HLAobjectRoot.RawDataHazardContourGroup

Sharing: Publish/Subscribe

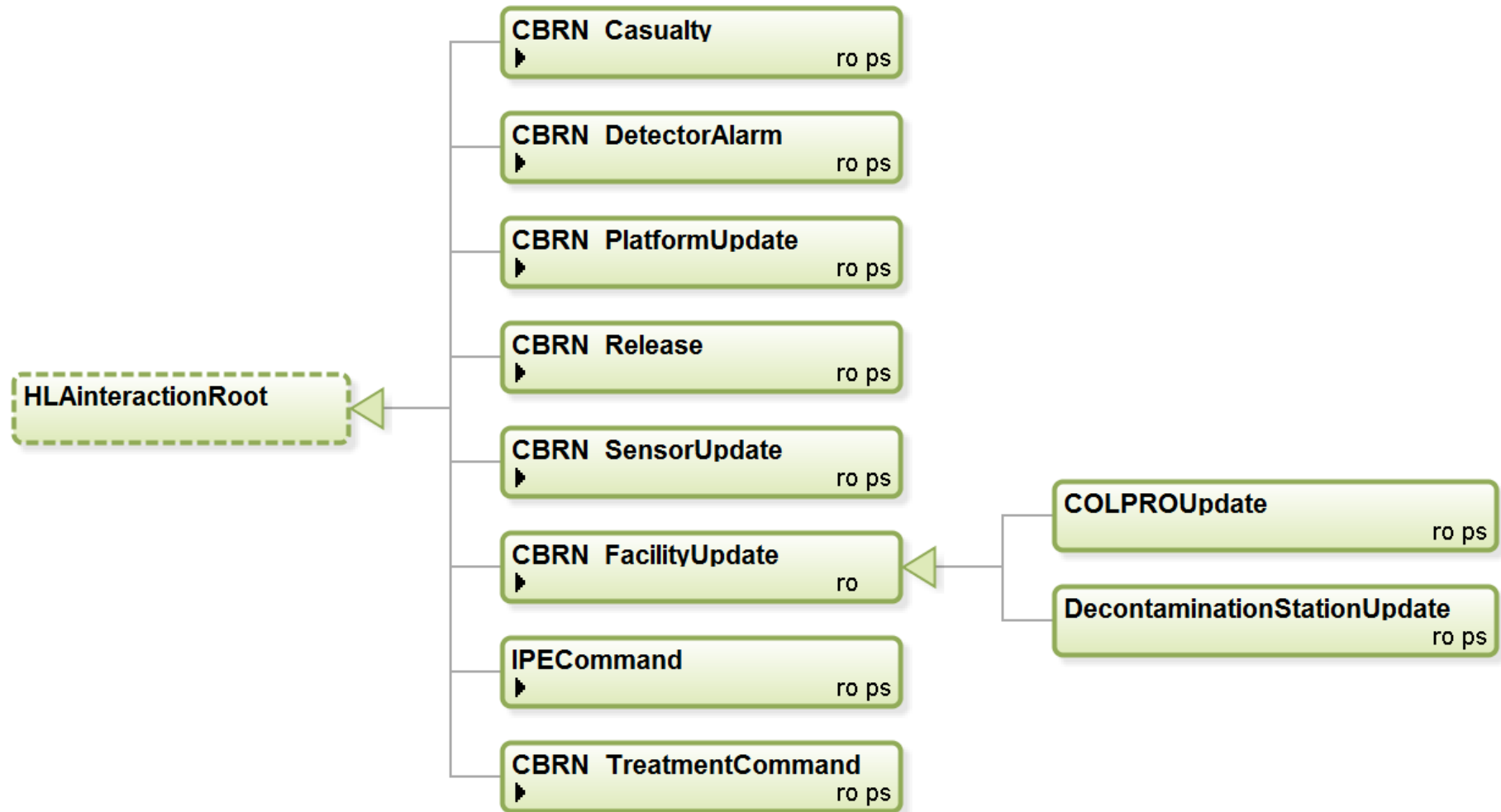
Semantics: *Represents the footprint covered by a CBRN hazard. This object covers the raw data which would be the output from a dispersion model.*

Attributes:

Time	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	<a href="#">TimeSecInt64</a>	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	Simulation time at which this contour group was generated.					
Agent	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	<a href="#">AgentTypeEnum16</a>	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Static	NA				
	Semantics					
	Agent reflected in this contour.					
HazardType	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	<a href="#">HazardTypeEnum8</a>	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Static	NA				
	Semantics					
	Type of hazard.					
Contours	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	<a href="#">ArrayOfRawDataHazardContourStruct</a>	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	Array of contours. These should be ordered in a sequence of ascending ExposureLevel.					

UniqueID	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	<a href="#">UuidArrayOfHLAByte16</a>	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Static	N/A				
	Semantics					
	Unique representation of the contour's ID.					
HLAprivilegeToDeleteObject <i>Inherited from HLAobjectRoot in MIM</i>	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	HLAtoken	PS	DA	TS	HLAreliable	
	Update type	Update Condition				
	Static	NA				
	Semantics					

## 9.2. Interaction Classes



**9.2.1. HLAinteractionRoot**

Full Name: HLAinteractionRoot

Sharing:

Transportation type: HLAreliable

Order: Receive

Dimensions:

Semantics:

Parameters: -

**9.2.2. CBRN\_Casualty**

Full Name: HLAinteractionRoot.CBRN\_Casualty

Sharing: Publish/Subscribe

Transportation type: HLAreliable

Order: Receive

Dimensions:

Semantics: *Represents a CBRN casualty caused by exposure. This is for use with federates that cannot support the TriageLevel attribute in CBRN\_Human.*

Parameters:

Name	Datatype	Semantics
<b>UniqueID</b>	<a href="#">UuidArrayOfHLAbyte16</a>	<i>Unique representation of the entity's ID.</i>
<b>TriageLevel</b>	<a href="#">CBRNDamageEnum8</a>	<i>Triage level of this entity.</i>
<b>Exposures</b>	<a href="#">ArrayOfCBRNExposureStruct</a>	<i>Array of agents to which this unit has been exposed.</i>

**9.2.3. CBRN\_DetectorAlarm**

Full Name: HLAinteractionRoot.CBRN\_DetectorAlarm

Sharing: Publish/Subscribe

Transportation type: HLAreliable

Order: Receive

Dimensions:

Semantics: *Represents the alarm trigger of a previously registered CBRN detector.*



Parameters:

Name	Datatype	Semantics
<b>DetectorID</b>	<a href="#">UuidArrayOfHLAbyte16</a>	<i>Unique representation of the detector's ID.</i>
<b>Alarm</b>	<a href="#">CBRNAlarmStruct</a>	<i>Details of the alarm.</i>

#### 9.2.4. CBRN\_PlatformUpdate

Full Name: HLAinteractionRoot.CBRN\_PlatformUpdate

Sharing: Publish/Subscribe

Transportation type: HLAreliable

Order: Receive

Dimensions:

Semantics: *Represents an update to the contaminating mass inside a vehicle due to embedded entities.*

Parameters:

Name	Datatype	Semantics
<b>PlatformID</b>	<a href="#">UuidArrayOfHLAbyte16</a>	<i>The unique ID of the platform.</i>
<b>Contamination</b>	<a href="#">ArrayOfAgentMassStruct</a>	<i>New state of CBRN hazardous agent inside vehicle due to embedded units.</i>

#### 9.2.5. CBRN\_Release

Full Name: HLAinteractionRoot.CBRN\_Release

Sharing: Publish/Subscribe

Transportation type: HLAreliable

Order: Receive

Dimensions:

Semantics: *Communicates information associated with the release of hazardous agent.*

Parameters:

Name	Datatype	Semantics
<b>UniqueID</b>	<a href="#">UuidArrayOfHLAbyte16</a>	<i>Unique representation of the release's ID.</i>
<b>Agent</b>	<a href="#">AgentTypeEnum16</a>	<i>The released agent.</i>
<b>Location</b>	WorldLocationStruct	<i>Initial location of the release in the geocentric location system.</i>
<b>Mass</b>	MassKilogramFloat32	<i>Total released mass in kg.</i>

Name	Datatype	Semantics
<b>Duration</b>	TimeSecondInteger32	<i>Duration in seconds over which the release takes place.</i>
<b>ReleaseSize</b>	<a href="#">ReleaseSizeStruct</a>	<i>Includes SourceSize (sigmas), mean and variance of released particulates.</i>
<b>ReleaseDynamics</b>	<a href="#">ReleaseDynamicsStruct</a>	<i>Temperature and buoyancy of released mass.</i>
<b>ReleaseVelocity</b>	VelocityVectorStruct	<i>Velocity of the source term.</i>

### 9.2.6. CBRN\_SensorUpdate

Full Name: HLAinteractionRoot.CBRN\_SensorUpdate

Sharing: Publish/Subscribe

Transportation type: HLAREliable

Order: Receive

Dimensions:

Semantics: *Sends information about the current state of a previously registered CBRN sensor.*

Parameters:

Name	Datatype	Semantics
<b>Time</b>	<a href="#">TimeSecInt64</a>	<i>Time of this sensor update</i>
<b>SensorID</b>	<a href="#">UuidArrayOfHLAByte16</a>	<i>Unique representation of the sensor's ID.</i>
<b>Readings</b>	<a href="#">ArrayOfAgentConcentrationStruct</a>	<i>Readings for this sensor</i>

### 9.2.7. CBRN\_FacilityUpdate

Full Name: HLAinteractionRoot.CBRN\_FacilityUpdate

Sharing:

Transportation type: HLAREliable

Order: Receive

Dimensions:

Semantics: *Represents an order for the specified entities to enter or leave the CBRN facility.*

Parameters:

Name	Datatype	Semantics
<b>FacilityID</b>	<a href="#">UuidArrayOfHLAByte16</a>	<i>The unique ID of the CBRN facility.</i>
<b>EmbeddedUnitList</b>	<a href="#">ArrayOfUuid</a>	<i>List of unique IDs of the entities who will enter or exit the CBRN facility.</i>

Name	Datatype	Semantics
<b>IsEntry</b>	HLAboolean	<i>Determines whether the entities are entering (IsEntry = true) or exiting (IsEntry = false) the CBRN facility.</i>

### 9.2.8. COLPROUpdate

Full Name: HLAinteractionRoot.CBRN\_FacilityUpdate.COLPROUpdate

Sharing: Publish/Subscribe

Transportation type: HLAreliable

Order: Receive

Dimensions:

Semantics: *Represents an order for the specified entities to enter or leave the COLPRO.*

Parameters:

Name	Datatype	Semantics
<b>FacilityID</b> <i>Inherited from CBRN_FacilityUpdate in CBRN_v1.1.9</i>	<a href="#">UuidArrayOfHLAbyte16</a>	<i>The unique ID of the CBRN facility.</i>
<b>EmbeddedUnitList</b> <i>Inherited from CBRN_FacilityUpdate in CBRN_v1.1.9</i>	<a href="#">ArrayOfUuid</a>	<i>List of unique IDs of the entities who will enter or exit the CBRN facility.</i>
<b>IsEntry</b> <i>Inherited from CBRN_FacilityUpdate in CBRN_v1.1.9</i>	HLAboolean	<i>Determines whether the entities are entering (IsEntry = true) or exiting (IsEntry = false) the CBRN facility.</i>

### 9.2.9. DecontaminationStationUpdate

Full Name: HLAinteractionRoot.CBRN\_FacilityUpdate.DecontaminationStationUpdate

Sharing: Publish/Subscribe

Transportation type: HLAreliable

Order: Receive

Dimensions:

Semantics: *Represents an order for the specified entities to enter or leave the decontamination station.*

Parameters:

Name	Datatype	Semantics
<b>FacilityID</b> <i>Inherited from CBRN_FacilityUpdate in CBRN_v1.1.9</i>	<a href="#">UuidArrayOfHLAbyte16</a>	<i>The unique ID of the CBRN facility.</i>

Name	Datatype	Semantics
<b>EmbeddedUnitList</b> <i>Inherited from CBRN_FacilityUpdate in CBRN_v1.1.9</i>	<a href="#">ArrayOfUuid</a>	<i>List of unique IDs of the entities who will enter or exit the CBRN facility.</i>
<b>IsEntry</b> <i>Inherited from CBRN_FacilityUpdate in CBRN_v1.1.9</i>	HLAboolean	<i>Determines whether the entities are entering (IsEntry = true) or exiting (IsEntry = false) the CBRN facility.</i>

### 9.2.10. IPECommand

Full Name: HLAinteractionRoot.IPECommand

Sharing: Publish/Subscribe

Transportation type: HLAreliable

Order: Receive

Dimensions:

Semantics: *Represents an order for the specified entities to don protective equipment.*

Parameters:

Name	Datatype	Semantics
<b>UnitList</b>	<a href="#">ArrayOfUuid</a>	<i>List of unique IDs of the entities who will don IPE.</i>
<b>IPEType</b>	<a href="#">IPTypeEnum8</a>	<i>Type of IPE that the entities will don.</i>

### 9.2.11. CBRN\_TreatmentCommand

Full Name: HLAinteractionRoot.CBRN\_TreatmentCommand

Sharing: Publish/Subscribe

Transportation type: HLAreliable

Order: Receive

Dimensions:

Semantics: *Represents an order for the specified entities to receive the list of treatments.*

Parameters:

Name	Datatype	Semantics
<b>UnitList</b>	<a href="#">ArrayOfUuid</a>	<i>List of unique IDs of the entities who will receive the treatment.</i>
<b>Treatments</b>	<a href="#">TreatmentStruct</a>	<i>Type of treatment to be applied to the entities.</i>



## 9.3. Datatypes

### 9.3.1. Simple Datatypes

#### ConcentrationKgPerMeterCubedFloat32

Representation: HLAfloat32BE  
 Units: Kg Per Meter Cubed  
 Resolution: NA  
 Accuracy: perfect  
 Semantics: Concentration in SI units.

#### DensityRatioFloat32

Representation: HLAfloat32BE  
 Units: NA  
 Resolution: NA  
 Accuracy: perfect  
 Semantics: Ratio of density of two materials in range [0, 1].

#### DosageKgSecondPerMeterCubedFloat32

Representation: HLAfloat32BE  
 Units: Kg Second Per Meter Cubed  
 Resolution: NA  
 Accuracy: perfect  
 Semantics: Dosage in SI units.

#### ExposureFloat32

Representation: HLAfloat32BE  
 Units: NA  
 Resolution: NA  
 Accuracy: perfect

Semantics: Data type for exposure.

### **MeanMetersFloat32**

Representation: HLAfloat32BE

Units: meters

Resolution: NA

Accuracy: perfect

Semantics: Mean of a Gaussian distribution, based on SI unit meter, unit symbol m.

### **QuantityUInt32**

Representation: RPRunsignedInteger32BE

Units: NA

Resolution: NA

Accuracy: perfect

Semantics: Quantity in range  $[0, 2^{32}-1]$

### **VarianceMetersSquaredFloat32**

Representation: HLAfloat32BE

Units: meters squared

Resolution: NA

Accuracy: perfect

Semantics: Variance of a Gaussian distribution, based on SI unit meter squared, unit symbol m<sup>2</sup>.

## 9.3.2. Enumerated Datatypes

### AgentClassEnum8

Representation: HLAoctet

Semantics: *Class of Agent for an ATP-45 Hazard Area.*

Enumerator	Value
Chemical	0
Biological	1
Radiological	2
Nuclear	3

### AgentTypeEnum16

Representation: HLAinteger16BE

Semantics: *Type of CBRN hazardous agent.*

Enumerator	Value
Chemical	1000
Choking	1100
CG	1102
Persistent_Nerve	1200
GA	1201
GB	1202
GD	1203
GF	1204
VX	1205
Non_Persistent_Nerve	1300
Vesicant	1400
HD	1401
Blood_Agent	1500



Enumerator	Value
AC	1501
CK	1502
Riot_Control	1700
Toxic_Industrial_Chemical	1800
TIC1	1801
TIC2	1802
Biological	2000
Bacterial	2100
Anthrax	2101
Plague	2102
Toxin	2200
Virus	2300
Radiological	3000
Alpha	3100
Beta	3200
Gamma	3300
Delta	3400
Nuclear	4000

### ATP45HazardAreaTypeEnum8

Representation: HLAoctet

Semantics: *Type of ATP-45 Hazard Area (simple or detailed).*

Enumerator	Value
Simple	0
Detailed	1

### CBRNDamageEnum8

Representation: HLAoctet

Semantics: *Level of damage due to CBRN exposure.*

Enumerator	Value
Uninjured	0
T3	1
T2	2
T1	3
T4	4
Dead	5

### ExposureTypeEnum8

Representation: HLAoctet

Semantics: *Type of exposure represented in a contour group.*

Enumerator	Value
Exposure	0
Incapacitation	1
Lethal	2

### HazardTypeEnum8

Representation: HLAoctet

Semantics: *Type of dispersion output represented in a contour group.*

Enumerator	Value
Concentration	0
Deposition	1
Dosage	2
RadiologicalDose	3
RadiologicalDoseRate	4

**IPTypeEnum8**

Representation: HLAoctet

Semantics: *Types of Individual Protective Equipment.*

Enumerator	Value
None	0
One	1
OneR	2
Two	3
TwoR	4
Three	5
ThreeR	6
Four	7
FourR	8

### 9.3.3. Array Datatypes

#### **ArrayOfAgentConcentrationStruct**

Element Type: [AgentConcentrationStruct](#)

Cardinality: Dynamic

Encoding: HLVariableArray

Semantics: *Array of agents and their concentrations.*

#### **ArrayOfAgentMassStruct**

Element Type: [AgentMassStruct](#)

Cardinality: Dynamic

Encoding: HLVariableArray

Semantics: *Array of agents and their masses.*

#### **ArrayOfAgentTypeEnum**

Element Type: [AgentTypeEnum16](#)

Cardinality: Dynamic

Encoding: HLVariableArray

Semantics: *Array of agents.*

#### **ArrayOfCBRNExposureStruct**

Element Type: [CBRNExposureStruct](#)

Cardinality: Dynamic

Encoding: HLVariableArray

Semantics: *Array of agents and their dosages.*

#### **ArrayOfCBRNSensorReadingStruct**

Element Type: [CBRNSensorReadingStruct](#)

Cardinality: Dynamic

Encoding: HLVariableArray

Semantics: *Array of sensor readings.*

### **ArrayOfProbabilityHazardContourStruct**

Element Type: [ProbabilityHazardContourStruct](#)

Cardinality: Dynamic

Encoding: HLAvariableArray

Semantics: *Array of Probability Hazard Contours.*

### **ArrayOfProtectionEffectivenessStruct**

Element Type: [ProtectionEffectivenessStruct](#)

Cardinality: Dynamic

Encoding: HLAvariableArray

Semantics: *Array of the protection's effectiveness.*

### **ArrayOfRawDataHazardContourStruct**

Element Type: [RawDataHazardContourStruct](#)

Cardinality: Dynamic

Encoding: HLAvariableArray

Semantics: *Array of Raw Data Hazard Contours.*

### **ArrayOfSigmas6**

Element Type: LengthMeterFloat32

Cardinality: 6

Encoding: HLAfixedArray

Semantics: *Size of the initial Gaussian puff sigma values.*

### **ArrayOfTreatmentStruct**

Element Type: [TreatmentStruct](#)

Cardinality: Dynamic

Encoding: HLAvariableArray

Semantics: *Array of TreatmentStruct types.*



### 9.3.4. Fixed Record Datatypes

#### AgentConcentrationStruct

Encoding: HLAfixedRecord

Semantics: *Concentration value associated with a specific agent.*

Name	Type	Semantic
MeanConcentration	<a href="#">ConcentrationKgPerMeterCubedFloat32</a>	<i>Concentration in kg m-3.</i>
Agent	<a href="#">AgentTypeEnum16</a>	<i>Enumeration representation of the agent.</i>

#### AgentMassStruct

Encoding: HLAfixedRecord

Semantics: *Mass of contaminant inside a vehicle brought in by an embedded unit.*

Name	Type	Semantic
ContaminatedMass	MassKilogramFloat32	<i>Mass in kg of contaminant.</i>
Agent	<a href="#">AgentTypeEnum16</a>	<i>Enumeration representation of the agent.</i>

#### CBRNAlarmStruct

Encoding: HLAfixedRecord

Semantics: *Properties of a CBRN alarm.*

Name	Type	Semantic
Time	<a href="#">TimeSecInt64</a>	<i>Simulation time of this detector alarm.</i>
Location	WorldLocationStruct	<i>Location of the detector alarm.</i>
Agent	<a href="#">AgentTypeEnum16</a>	<i>Agent that the detector believes to have triggered this alarm.</i>

#### CBRNExposureStruct

Encoding: HLAfixedRecord

Semantics: *Dosage exposure value associated with a specific agent.*

Name	Type	Semantic
Exposure	<a href="#">DosageKgSecondPerMeterCubedFloat32</a>	<i>Dosage value (in kg.s.m-3) which has caused this casualty. Defaults to 0.0.</i>
Agent	<a href="#">AgentTypeEnum16</a>	<i>Enumeration representation of the agent.</i>

## CBRNSensorReadingStruct

Encoding: HLAfixedRecord

Semantics: *Timed CBRN sensor reading.*

Name	Type	Semantic
Time	<a href="#">TimeSecInt64</a>	<i>Simulation time of this sensor reading.</i>
Reading	<a href="#">AgentConcentrationStruct</a>	<i>Agent and concentration value in this reading.</i>

## ProbabilityHazardContourStruct

Encoding: HLAfixedRecord

Semantics: *Represents the footprint covered by a CBRN hazard. This object covers the agent-specific effects which would be the output from a casualty model.*

Name	Type	Semantic
PercentProbabilityLevel	PercentFloat32	<i>Percentage of entities within this contour being affected to the define exposure level.</i>
Locations	<a href="#">ArrayOfWorldLocationStruct3</a>	<i>Array of locations that define the probability contour.</i>

## ProtectionEffectivenessStruct

Encoding: HLAfixedRecord

Semantics: *Protection effectiveness associated with a specific agent.*

Name	Type	Semantic
Effectiveness	PercentFloat32	<i>Percentage by which this protection reduces effects.</i>
Agent	<a href="#">AgentTypeEnum16</a>	<i>Enumeration representation of the agent.</i>

## RawDataHazardContourStruct



Encoding: HLAfixedRecord

Semantics: *Contour locations bounding a given exposure value.*

Name	Type	Semantic
ExposureLevel	<a href="#">ExposureFloat32</a>	<i>Quantity of exposure, measured in SI units.</i>
Locations	<a href="#">ArrayOfWorldLocationStruct3</a>	<i>Array of locations that define the hazard contour.</i>

## ReleaseDistributionStruct

Encoding: HLAfixedRecord

Semantics: *Mean and variance of the distribution of the particles or droplets in a release.*

Name	Type	Semantic
Mean	<a href="#">MeanMetersFloat32</a>	<i>Mean size of the released material in meters.</i>
Variance	<a href="#">VarianceMetersSquaredFloat32</a>	<i>Variance of the distribution of released particulates/droplets.</i>

## ReleaseDynamicsStruct

Encoding: HLAfixedRecord

Semantics: *Defines the dynamic properties of a release.*

Name	Type	Semantic
DensityRatio	<a href="#">DensityRatioFloat32</a>	<i>Ratio of material density relative to the atmosphere.</i>
TemperatureDifference	TemperatureDegreeCelsiusFloat32	<i>Difference in temperature between the released material and the atmosphere in Celsius.</i>

## ReleaseSizeStruct

Encoding: HLAfixedRecord

Semantics: *Defines the properties of the initial size of a release.*

Name	Type	Semantic
SigmaArray	<a href="#">ArrayOfSigmas6</a>	<i>Initial Gaussian sigmas of the released puff.</i>
ReleaseDistribution	<a href="#">ReleaseDistributionStruct</a>	<i>Details regarding the size of the released particles/droplets for non-gaseous materials.</i>

**TreatmentStruct**

Encoding: HLAfixedRecord

Semantics: *Defines the properties for a CBRN treatment.*

Name	Type	Semantic
UniqueID	<a href="#">UuidArrayOfHLAbyte16</a>	<i>The ID of this treatment.</i>
Effectiveness	PercentFloat32	<i>Percentage by which this treatment reduces effects.</i>
Duration	TimeSecondInteger32	<i>Duration in seconds for which this treatment will remain effective.</i>
TreatmentWindow	TimeSecondInteger32	<i>The time window in seconds between exposure and treatment for which this treatment is effective.</i>
TreatableAgents	<a href="#">ArrayOfAgentTypeEnum</a>	<i>Array of agents that can be treated using this treatment.</i>

# 10. Module TMR\_v1.1.3

## Information

<b>Name:</b>	Transfer of Modelling Responsibility FOM Module
<b>Type:</b>	FOM
<b>Version:</b>	1.1
<b>Modification Date:</b>	2014-09-26
<b>Security Classification:</b>	Unclassified
<b>Purpose:</b>	Protocol for Transfer of Modelling Responsibility
<b>Application Domain:</b>	Training
<b>Description:</b>	Transfer of Modelling Responsibility FOM Module
<b>Use Limitation:</b>	NA
<b>Other:</b>	NA

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## References

<b>Dependency</b>	NETN-Base
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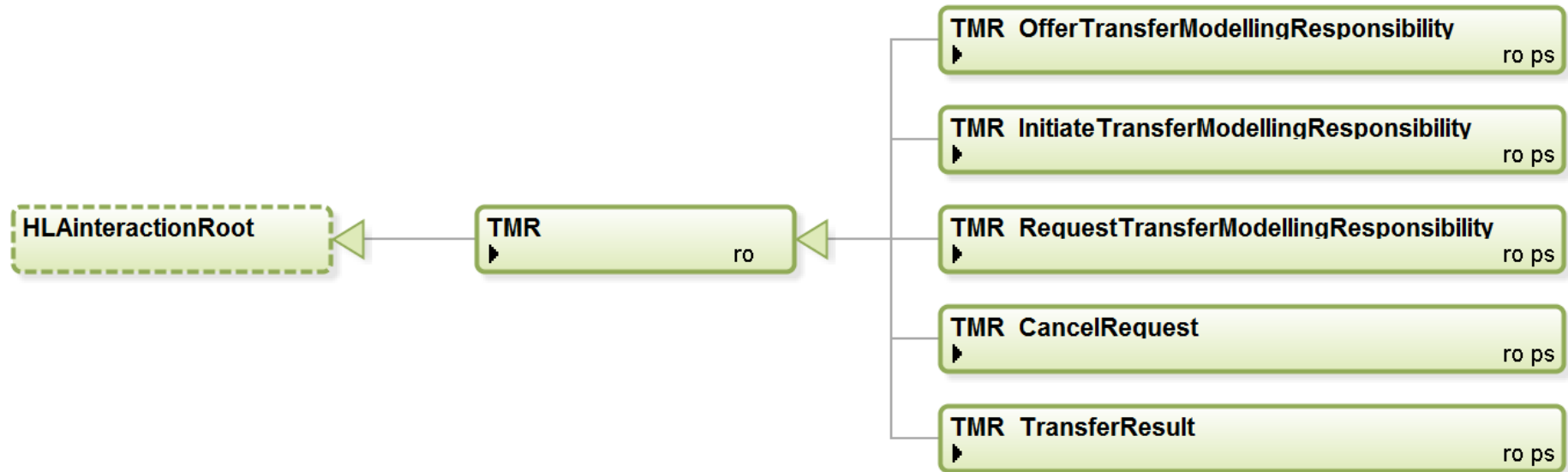
## Use History

v1.0.1 - XML Schema Reference Changed
v1.0.2 - Spelling correction at enumerations
v1.0.3 - Adding AttributeValues
v1.0.3r3 - Adding reason
v1.0.3r4 - Added parameter Respondent at interaction TMR_OfferTransferModellingResponsibility and enumeration value NoofferReasonEnum32.OwnershipStateNotApplicableWithRequest
v1.0.3r5 - Added enumeration value NoofferReasonEnum32.EntityNotKnown
V1.0.3r6 - Change definition of data type TransactionId, a counter and the federate handle
v1.1.0r1 - Added interactions TMR_CancelRequest and TMR_Status
v1.1.0 - Removed "r1" from module name
v1.1.1 - Update of Dependency table
v1.1.2 - Rename of enumeration values (AttributeSetTooRestricted, AttributeSetTooExtensive).
v1.1.3 - Rename of enumeration value (FederateTooBusy).

## Dependencies

NETN-Base_v1.0.2
RPR-Base_v2.0
RPR-Enumerations_v2.0
RPR-Foundation_v2.0

## 10.1. Interaction Classes



### 10.1.1. HLAinteractionRoot

Full Name: HLAinteractionRoot

Sharing:

Transportation type: HLAreliable

Order: Receive

Dimensions:

Semantics:

Parameters: -

### 10.1.2. TMR

Full Name: HLAinteractionRoot.TMR

Sharing:

Transportation type: HLAreliable

Order: Receive

Dimensions:

Semantics: *Base class for Transfer of Modelling Responsibility interactions.*

Parameters:

Name	Datatype	Semantics
<b>TransactionID</b>	<a href="#">TransactionId</a>	<i>Identifier for this transaction. Required</i>
<b>RequestFederate</b>	<a href="#">FederateName</a>	<i>Federate name, Required</i>
<b>ResponseFederate</b>	<a href="#">FederateName</a>	<i>Federate name. Not necessary if TransferType is AquireWithoutNegotiation</i>

### 10.1.3. TMR\_OfferTransferModellingResponsibility

Full Name: HLAinteractionRoot.TMR.TMR\_OfferTransferModellingResponsibility

Sharing: Publish/Subscribe

Transportation type: HLAreliable

Order: Receive

Dimensions:

Semantics: *Offer Transfer of Modelling Responsibility*

Parameters:

Name	Datatype	Semantics
<b>isOffering</b>	HLAboolean	<i>Is offering (=true) Transfer of Modelling Responsibility or not (=false). Required</i>
<b>Respondent</b>	<a href="#">FederateName</a>	<i>The name of the sending federate of the TMR_OfferTransferModellingResponsibility. The requesting or responding federate. Required.</i>
<b>Reason</b>	<a href="#">NoofferReasonEnum32</a>	<i>Describes the reason why the offer is negative. Optional</i>
<b>TransactionID</b> <i>Inherited from TMR in TMR_v1.1.3</i>	<a href="#">TransactionId</a>	<i>Identifier for this transaction. Required</i>
<b>RequestFederate</b> <i>Inherited from TMR in TMR_v1.1.3</i>	<a href="#">FederateName</a>	<i>Federate name, Required</i>

Name	Datatype	Semantics
<b>ResponseFederate</b> <i>Inherited from TMR in TMR_v1.1.3</i>	<a href="#">FederateName</a>	<i>Federate name. Not necessary if TransferType is AquireWithoutNegotiation</i>

#### 10.1.4. TMR\_InitiateTransferModellingResponsibility

Full Name: HLAinteractionRoot.TMR.TMR\_InitiateTransferModellingResponsibility

Sharing: Publish/Subscribe

Transportation type: HLAreliable

Order: Receive

Dimensions:

Semantics: *Interaction for initiating Transfer of Modelling Responsibility between federates.*

Parameters:

Name	Datatype	Semantics
<b>Initiating</b>	HLAunicodeString	<i>Id of the initiating federate/role. Required</i>
<b>TransferType</b>	<a href="#">TransferTypeEnum32</a>	<i>Required</i>
<b>Instances</b>	<a href="#">ArrayOfUuid</a>	<i>Array of Unique Instance IDs. Required</i>
<b>Attributes</b>	<a href="#">ArrayOfAttributes</a>	<i>Array with Attribute names. Required</i>
<b>CapabilityType</b>	<a href="#">CapabilityTypeEnum32</a>	<i>Specify the type of capability that shall be transfered between federates. A guidance for the acquiring federate. Optional</i>
<b>InstanceAttributeValues</b>	<a href="#">ArrayOfInstanceAttributeValues</a>	<i>The value that the new owner of the attributes may use. Optional</i>
<b>TransactionID</b> <i>Inherited from TMR in TMR_v1.1.3</i>	<a href="#">TransactionId</a>	<i>Identifier for this transaction. Required</i>
<b>RequestFederate</b> <i>Inherited from TMR in TMR_v1.1.3</i>	<a href="#">FederateName</a>	<i>Federate name, Required</i>
<b>ResponseFederate</b> <i>Inherited from TMR in TMR_v1.1.3</i>	<a href="#">FederateName</a>	<i>Federate name. Not necessary if TransferType is AquireWithoutNegotiation</i>

#### 10.1.5. TMR\_RequestTransferModellingResponsibility

Full Name: HLAinteractionRoot.TMR.TMR\_RequestTransferModellingResponsibility

Sharing: Publish/Subscribe

Transportation type: HLAreliable

Order: Receive

Dimensions:

Semantics: *Request Transfer of Modelling Responsibility*

Parameters:

Name	Datatype	Semantics
<b>TransferType</b>	<a href="#">TransferTypeEnum32</a>	<i>Required</i>
<b>Instances</b>	<a href="#">ArrayOfUuid</a>	<i>Array of unique instance ids. Required</i>
<b>Attributes</b>	<a href="#">ArrayOfAttributes</a>	<i>Array of attributes. Required</i>
<b>CapabilityType</b>	<a href="#">CapabilityTypeEnum32</a>	<i>Specifies the capability type that the transfer of the modelling responsibility is about. A guidance for the acquiring federate. Optional</i>
<b>InstanceAttributeValues</b>	<a href="#">ArrayOfInstanceAttributeValues</a>	<i>Attribute values that the new owner of the instance attribute may use. Optional</i>
<b>TransactionID</b> <i>Inherited from TMR in TMR_v1.1.3</i>	<a href="#">TransactionId</a>	<i>Identifier for this transaction. Required</i>
<b>RequestFederate</b> <i>Inherited from TMR in TMR_v1.1.3</i>	<a href="#">FederateName</a>	<i>Federate name, Required</i>
<b>ResponseFederate</b> <i>Inherited from TMR in TMR_v1.1.3</i>	<a href="#">FederateName</a>	<i>Federate name. Not necessary if TransferType is AcquireWithoutNegotiation</i>

#### 10.1.6. TMR\_CancelRequest

Full Name: HLAinteractionRoot.TMR.TMR\_CancelRequest

Sharing: Publish/Subscribe

Transportation type: HLAREliable

Order: Receive

Dimensions:

Semantics: *Shall be sent by the requesting federate to inform the respons federate that the transfer is canceled*

Parameters:

Name	Datatype	Semantics
<b>Reason</b>	<a href="#">CancellationReasonEnum32</a>	<i>The reason for the cancellation</i>
<b>TransactionID</b> <i>Inherited from TMR in TMR_v1.1.3</i>	<a href="#">TransactionId</a>	<i>Identifier for this transaction. Required</i>



Name	Datatype	Semantics
<b>RequestFederate</b> <i>Inherited from TMR in TMR_v1.1.3</i>	<a href="#">FederateName</a>	<i>Federate name, Required</i>
<b>ResponseFederate</b> <i>Inherited from TMR in TMR_v1.1.3</i>	<a href="#">FederateName</a>	<i>Federate name. Not necessary if TransferType is AquireWithoutNegotiation</i>

### 10.1.7. TMR\_TransferResult

Full Name: HLAinteractionRoot.TMR.TMR\_TransferResult

Sharing: Publish/Subscribe

Transportation type: HLAreliable

Order: Receive

Dimensions:

Semantics: *Sent by the requesting federate to inform the status of an terminated transfer, completed or not completed*

Parameters:

Name	Datatype	Semantics
<b>TransferOk</b>	HLABoolean	<i>True if the transfer is completed, else false</i>
<b>TransactionID</b> <i>Inherited from TMR in TMR_v1.1.3</i>	<a href="#">TransactionId</a>	<i>Identifier for this transaction. Required</i>
<b>RequestFederate</b> <i>Inherited from TMR in TMR_v1.1.3</i>	<a href="#">FederateName</a>	<i>Federate name, Required</i>
<b>ResponseFederate</b> <i>Inherited from TMR in TMR_v1.1.3</i>	<a href="#">FederateName</a>	<i>Federate name. Not necessary if TransferType is AquireWithoutNegotiation</i>

## ***10.2. Datatypes***

### ***10.2.1. Simple Datatypes***

#### **Counter**

Representation: HLAinteger32BE

Units: NA

Resolution: 1

Accuracy: perfect

Semantics: Counter

## 10.2.2. Enumerated Datatypes

### TransferTypeEnum32

Representation: HLAinteger32BE

Semantics: *Transfer type*

Enumerator	Value
Other	0
Acquire	1
Divest	2
AcquireWithoutNegotiating	3

### CapabilityTypeEnum32

Representation: HLAinteger32BE

Semantics: *TotalTransfer indicates that all instance attributes shall be involved in the ownership transfer*

Enumerator	Value
Other	0
TotalTransfer	1
Movement	2
Damage	3
ResourceConsumption	4

### NoofferReasonEnum32

Representation: HLAinteger32BE

Semantics: *Describes the reason why not accepting a TMR request*

Enumerator	Value
Other	0
CapabilityDoesNotMatch	1
AttributeSetTooRestricted	2

Enumerator	Value
AttributeSetTooExtensive	3
FederateTooBusy	4
AttributeSetNotCompatibleWithPublication	5
OwnershipStateNotApplicableWithRequest	6
EntityNotKnown	7

## CancellationReasonEnum32

Representation: HLAinteger32BE

Semantics: *Describes the reason for the cancellation*

Enumerator	Value
Other	0
TimeOut	1

### 10.2.3. Array Datatypes

#### ArrayOfAttributes

Element Type: HLAUnicodeString

Cardinality: Dynamic

Encoding: HLAVariableArray

Semantics: *Array of attribute names.*

#### FederateName

Element Type: HLAUnicodeChar

Cardinality: Dynamic

Encoding: HLAVariableArray

Semantics: *HLA Federate Name*

#### ArrayOfBytes

Element Type: Octet

Cardinality: Dynamic

Encoding: HLAVariableArray

Semantics: *An array of bytes, used as the raw value of attributes and parameters*

#### ArrayOfAttributeValues

Element Type: [AttributeValueStruct](#)

Cardinality: Dynamic

Encoding: HLAVariableArray

Semantics: *An array with name-value pairs*

#### ArrayOfInstanceAttributeValues

Element Type: [InstanceAttributeValuesStruct](#)

Cardinality: Dynamic

Encoding: HLAVariableArray

Semantics: *Array with instances and its attribute values as an array with name-value pairs*

## 10.2.4. Fixed Record Datatypes

### TransactionId

Encoding: HLAfixedRecord

Semantics: *Unique identifier for this transaction.*

Name	Type	Semantic
TransactionCounter	<a href="#">Counter</a>	<i>This value shall be incremented by 1 for each sent transaction. Required</i>
FederateHandle	HLAhandle	<i>The handle that the federate get when joining the federation. Required</i>

### AttributeValueStruct

Encoding: HLAfixedRecord

Semantics: *The name-value pair for attributes*

Name	Type	Semantic
AttributeName	HLAunicodeString	<i>Name of the attribute</i>
Value	<a href="#">ArrayOfBytes</a>	<i>The value as a byte array</i>

### InstanceAttributeValuesStruct

Encoding: HLAfixedRecord

Semantics: *Instance and name-value pairs for instance attributes*

Name	Type	Semantic
Instance	<a href="#">UuidArrayOfHLAbyte16</a>	<i>The UUID for the instance</i>
AttributeValues	<a href="#">ArrayOfAttributeValues</a>	<i>Array with attribute name-value pairs</i>

## ***10.3. User Supplied Tags***

### **Update/Reflect**

Datatype: NA

Semantics: *NA*

### **Send/Receive**

Datatype: NA

Semantics: *NA*

### **Delete/Remove**

Datatype: NA

Semantics: *NA*

### **Divestiture Request**

Datatype: [TransactionId](#)

Semantics: *NA*

### **Divestiture Completion**

Datatype: NA

Semantics: *NA*

### **Acquisition Request**

Datatype: [TransactionId](#)

Semantics: *NA*

### **Request Update**

Datatype: NA

Semantics: *NA*



# 11. Module MRM\_v1.1.1

## Information

<b>Name:</b>	NETN Multi-Resolution Management FOM Module
<b>Type:</b>	FOM
<b>Version:</b>	1.1.1
<b>Modification Date:</b>	2014-05-15
<b>Security Classification:</b>	Unclassified
<b>Purpose:</b>	Specify classes necessary to enable federation multi-resolution modeling
<b>Application Domain:</b>	Training and Education. Platform and aggregate level simulations.
<b>Description:</b>	The MRM FOM module specifies classes necessary to enable federation multi-resolution modeling.
<b>Use Limitation:</b>	Depends on TMR and NETN-Base FOM modules
<b>Other:</b>	

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### References

<b>HLA Evolved Conversion Tool</b>	Pitch Visual OMT 1516 v1.6.0
<b>Dependency</b>	NETN Service Consumer-Provider FOM Module
<b>Dependency</b>	RPR2 Aggregate FOM Module
<b>Dependency</b>	RPR2 Physical FOM Module
<b>Dependency</b>	TMR FOM Module
<b>Dependency</b>	NETN-Base FOM Module
<b>Dependency</b>	RPR2 Foundation FOM Module
<b>Dependency</b>	RPR2 Enumerations FOM Module

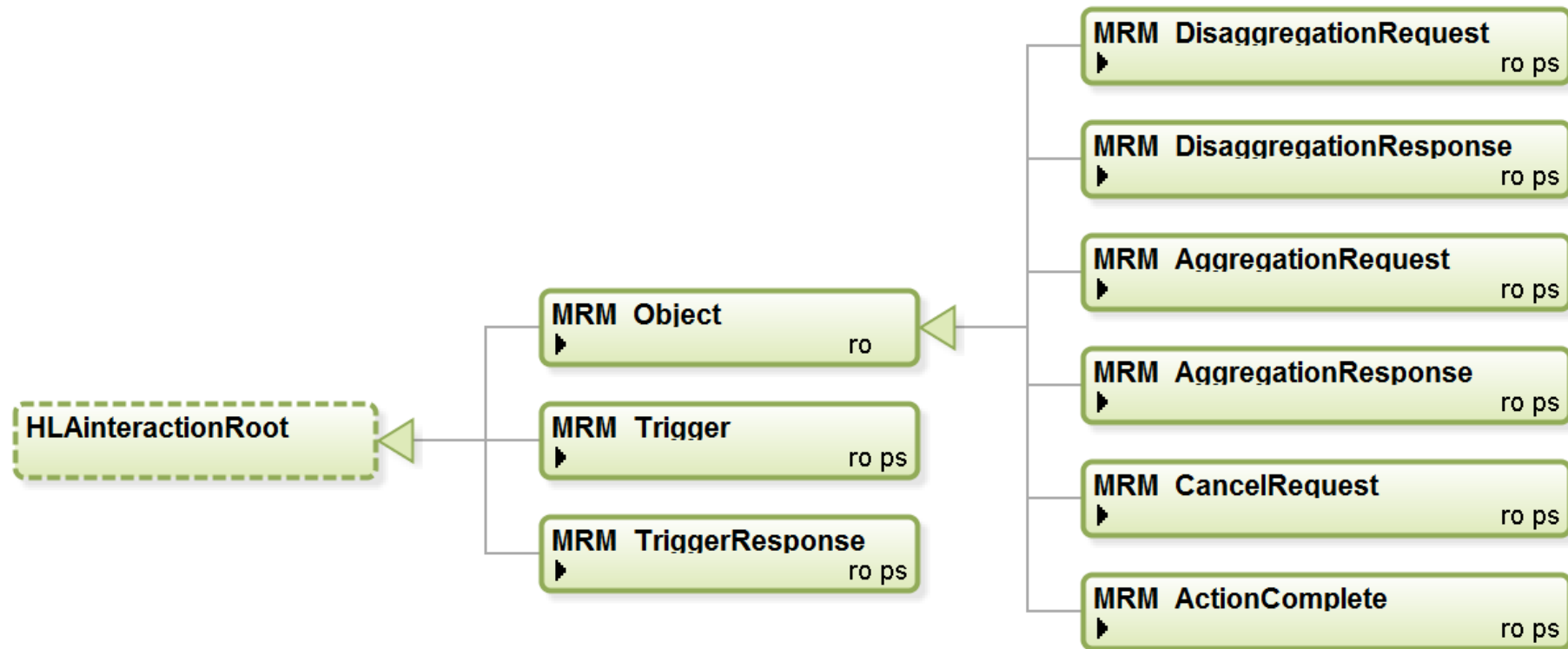
### Use History

v1.1.0d1 - NETN2 First version
v1.1.0d2 - Updated Identification, modified parameters at MRM_CancelRequest and MRM_ActionComplete
v1.1.0d3 - Added CompletionResult parameter to MRM_ActionComplete, added semantics for parameter reason.
v1.1.0d4 - Added NonComplianceReason and associated enumerated datatype to both MRM_DisaggregationResponse and MRM_AggregationResponse.
v1.1.0d5 - Added UuidList to MRM_DisaggregationRequest. Changed MRM_DisaggregationRequest.Instance name to AggregateUuid.
v1.1.0d6 - Add Aggregate to AggregateStateEnum, Changed semantics for AggregateFederate and HigherResolutionFederate in MRM_Object.
v1.1.0d7 - Changed AggregateStateEnum to AggregateStateEnum32 and revised enumerated values.
v1.1.0d8 - Added MRM_TriggerResponse interaction. Updated References tab.
v1.1.0 - Removed draft number (d8) from name.
v1.1.1 - Semantics update

**Dependencies**

TMR_v1.1.3
NETN-Base_v1.0.2
RPR-Base_v2.0
RPR-Enumerations_v2.0
RPR-Foundation_v2.0

## 11.1. Interaction Classes



### 11.1.1. HLAinteractionRoot

Full Name: HLAinteractionRoot

Sharing:

Transportation type: HLAreliable

Order: Receive

Dimensions:

Semantics:

Parameters: -

**11.1.2. MRM\_Object**

Full Name: HLAinteractionRoot.MRM\_Object

Sharing:

Transportation type: HLAreliable

Order: Receive

Dimensions:

Semantics: *Base class for Multi-Resolution Modelling (MRM) interactions.*

Parameters:

Name	Datatype	Semantics
<b>TransactionID</b>	<a href="#">TransactionId</a>	<i>Identifier for this transaction. Required</i>
<b>AggregateFederate</b>	<a href="#">FederateName</a>	<i>Federate name; Required in MRM_DisaggregationRequest or MRM_AggregationRequest from MRM SP, and in MRM_DisaggregationResponse or MRM_AggregationResponse from AggregateFederate, else Optional.</i>
<b>HigherResolutionFederate</b>	<a href="#">FederateName</a>	<i>Federate name; Required in MRM_DisaggregationRequest or MRM_AggregationRequest from MRM SP, and in MRM_DisaggregationResponse or MRM_AggregationResponse from HigherResolutionFederate, else Optional.</i>

**11.1.3. MRM\_DisaggregationRequest**

Full Name: HLAinteractionRoot.MRM\_Object.MRM\_DisaggregationRequest

Sharing: Publish/Subscribe

Transportation type: HLAreliable

Order: Receive

Dimensions:

Semantics: *A request to disaggregate an object instance specified by a UUID.*

Parameters:

Name	Datatype	Semantics
<b>AggregateUuid</b>	<a href="#">UuidArrayOfHLAbyte16</a>	<i>The UUID of the object instance intended for disaggregation.</i>

Name	Datatype	Semantics
<b>AggregationState</b>	<a href="#">AggregateStateEnum32</a>	<p><i>Inform Aggregate Federate of intended Aggregation State:</i></p> <p><i>If Fully Disaggregate, the aggregate unit does not send updates and all Entities and/or (sub)units of the aggregate unit are updated</i></p> <p><i>If Disaggregate, the aggregate unit sends updates and entities and/or (sub)units of the aggregate unit are updated</i></p> <p><i>If Pseudo-Disaggregate, the aggregate unit sends updates and all Entities and/or (sub)units of the aggregate unit are updated but these “are not capable of full interaction with other entities”</i></p> <p><i>If Partially Disaggregate, the aggregate unit send updates and some entities and/or (sub)units of the aggregate unit are updated, but others are not (and are accounted for using the “silent” attribute)</i></p>
<b>UuidList</b>	<a href="#">ArrayOfUuid</a>	<p><i>Optional for: Disaggregated and FullyDisaggregated</i></p> <p><i>Required for: PartllyDisaggregated (and PseudoDisaggregated)</i></p> <p><i>The list of UUIDs which will be instantiated as a result of the disaggregation.</i></p>
<b>TransactionID</b> <i>Inherited from MRM_Object in MRM_v1.1.1</i>	<a href="#">TransactionId</a>	<i>Identifier for this transaction. Required</i>
<b>AggregateFederate</b> <i>Inherited from MRM_Object in MRM_v1.1.1</i>	<a href="#">FederateName</a>	<i>Federate name; Required in MRM_DisaggregationRequest or MRM_AggregationRequest from MRM SP, and in MRM_DisaggregationResponse or MRM_AggregationResponse from AggregateFederate, else Optional.</i>
<b>HigherResolutionFederate</b> <i>Inherited from MRM_Object in MRM_v1.1.1</i>	<a href="#">FederateName</a>	<i>Federate name; Required in MRM_DisaggregationRequest or MRM_AggregationRequest from MRM SP, and in MRM_DisaggregationResponse or MRM_AggregationResponse from HigherResolutionFederate, else Optional.</i>

#### 11.1.4. MRM\_DisaggregationResponse

Full Name: HLAinteractionRoot.MRM\_Object.MRM\_DisaggregationResponse

Sharing: Publish/Subscribe

Transportation type: HLAREliable

Order: Receive

Dimensions:

Semantics: *A response from the receiving federate indicating ability to comply with request.*

Parameters:

Name	Datatype	Semantics
<b>Acknowledge</b>	ResponseFlagEnum16	<i>The receiver federates response to the disaggregation request.</i>
<b>NonComplianceReason</b>	<a href="#">NonComplianceReasonEnum</a>	<i>An optional parameter sent only if the ResponseFlagEnum16 value equals 2, UnableToComply, to specify the reason for non-compliance.</i>

Name	Datatype	Semantics
<b>TransactionID</b> <i>Inherited from MRM_Object in MRM_v1.1.1</i>	<a href="#">TransactionId</a>	<i>Identifier for this transaction. Required</i>
<b>AggregateFederate</b> <i>Inherited from MRM_Object in MRM_v1.1.1</i>	<a href="#">FederateName</a>	<i>Federate name; Required in MRM_DisaggregationRequest or MRM_AggregationRequest from MRM SP, and in MRM_DisaggregationResponse or MRM_AggregationResponse from AggregateFederate, else Optional.</i>
<b>HigherResolutionFederate</b> <i>Inherited from MRM_Object in MRM_v1.1.1</i>	<a href="#">FederateName</a>	<i>Federate name; Required in MRM_DisaggregationRequest or MRM_AggregationRequest from MRM SP, and in MRM_DisaggregationResponse or MRM_AggregationResponse from HigherResolutionFederate, else Optional.</i>

### 11.1.5. MRM\_AggregationRequest

Full Name: HLAinteractionRoot.MRM\_Object.MRM\_AggregationRequest

Sharing: Publish/Subscribe

Transportation type: HLAreliable

Order: Receive

Dimensions:

Semantics: *A request to aggregate a set of UUIDs*

Parameters:

Name	Datatype	Semantics
<b>AggregateUuid</b>	<a href="#">UuidArrayOfHLAbyte16</a>	<i>The UUID of the Aggregate object which will result from the aggregation.</i>
<b>UuidList</b>	<a href="#">ArrayOfUuid</a>	<i>Optional. The list of UUIDs which should be aggregated.</i>
<b>TransactionID</b> <i>Inherited from MRM_Object in MRM_v1.1.1</i>	<a href="#">TransactionId</a>	<i>Identifier for this transaction. Required</i>
<b>AggregateFederate</b> <i>Inherited from MRM_Object in MRM_v1.1.1</i>	<a href="#">FederateName</a>	<i>Federate name; Required in MRM_DisaggregationRequest or MRM_AggregationRequest from MRM SP, and in MRM_DisaggregationResponse or MRM_AggregationResponse from AggregateFederate, else Optional.</i>
<b>HigherResolutionFederate</b> <i>Inherited from MRM_Object in MRM_v1.1.1</i>	<a href="#">FederateName</a>	<i>Federate name; Required in MRM_DisaggregationRequest or MRM_AggregationRequest from MRM SP, and in MRM_DisaggregationResponse or MRM_AggregationResponse from HigherResolutionFederate, else Optional.</i>

### 11.1.6. MRM\_AggregationResponse

Full Name: HLAinteractionRoot.MRM\_Object.MRM\_AggregationResponse

Sharing: Publish/Subscribe

Transportation type: HLAreliable

Order: Receive

Dimensions:

Semantics: *A response from the receiving federate indicating ability to comply with request.*

Parameters:

Name	Datatype	Semantics
<b>Acknowledge</b>	ResponseFlagEnum16	<i>The receiver federate's response to the request for aggregation.</i>
<b>NonComplianceReason</b>	<a href="#">NonComplianceReasonEnum</a>	<i>An optional parameter sent only if the ResponseFlagEnum16 value equals 2, UnableToComply, to specify the reason for non-compliance.</i>
<b>TransactionID</b> <i>Inherited from MRM_Object in MRM_v1.1.1</i>	<a href="#">TransactionId</a>	<i>Identifier for this transaction. Required</i>
<b>AggregateFederate</b> <i>Inherited from MRM_Object in MRM_v1.1.1</i>	<a href="#">FederateName</a>	<i>Federate name; Required in MRM_DisaggregationRequest or MRM_AggregationRequest from MRM SP, and in MRM_DisaggregationResponse or MRM_AggregationResponse from AggregateFederate, else Optional.</i>
<b>HigherResolutionFederate</b> <i>Inherited from MRM_Object in MRM_v1.1.1</i>	<a href="#">FederateName</a>	<i>Federate name; Required in MRM_DisaggregationRequest or MRM_AggregationRequest from MRM SP, and in MRM_DisaggregationResponse or MRM_AggregationResponse from HigherResolutionFederate, else Optional.</i>

### 11.1.7. MRM\_CancelRequest

Full Name: HLAIinteractionRoot.MRM\_Object.MRM\_CancelRequest

Sharing: Publish/Subscribe

Transportation type: HLAreliable

Order: Receive

Dimensions:

Semantics: *An interaction sent to cancel either a MRM\_DisaggregationRequest or a MRM\_AggregationRequest*

Parameters:

Name	Datatype	Semantics
<b>Reason</b>	<a href="#">CancellationReasonEnum32</a>	<i>Reason given for cancelling the request</i>
<b>TransactionID</b> <i>Inherited from MRM_Object in MRM_v1.1.1</i>	<a href="#">TransactionId</a>	<i>Identifier for this transaction. Required</i>



Name	Datatype	Semantics
<b>AggregateFederate</b> <i>Inherited from MRM_Object in MRM_v1.1.1</i>	<a href="#">FederateName</a>	<i>Federate name; Required in MRM_DisaggregationRequest or MRM_AggregationRequest from MRM SP, and in MRM_DisaggregationResponse or MRM_AggregationResponse from AggregateFederate, else Optional.</i>
<b>HigherResolutionFederate</b> <i>Inherited from MRM_Object in MRM_v1.1.1</i>	<a href="#">FederateName</a>	<i>Federate name; Required in MRM_DisaggregationRequest or MRM_AggregationRequest from MRM SP, and in MRM_DisaggregationResponse or MRM_AggregationResponse from HigherResolutionFederate, else Optional.</i>

#### 11.1.8. MRM\_ActionComplete

Full Name: HLAinteractionRoot.MRM\_Object.MRM\_ActionComplete

Sharing: Publish/Subscribe

Transportation type: HLAREliable

Order: Receive

Dimensions:

Semantics: *An interaction sent at the completion of either a DisaggregationRequest or AggregationRequest.*

Parameters:

Name	Datatype	Semantics
<b>CompletionResult</b>	HLABoolean	<i>True if the MRM_Action is successfully completed, else false</i>
<b>TransactionID</b> <i>Inherited from MRM_Object in MRM_v1.1.1</i>	<a href="#">TransactionId</a>	<i>Identifier for this transaction. Required</i>
<b>AggregateFederate</b> <i>Inherited from MRM_Object in MRM_v1.1.1</i>	<a href="#">FederateName</a>	<i>Federate name; Required in MRM_DisaggregationRequest or MRM_AggregationRequest from MRM SP, and in MRM_DisaggregationResponse or MRM_AggregationResponse from AggregateFederate, else Optional.</i>
<b>HigherResolutionFederate</b> <i>Inherited from MRM_Object in MRM_v1.1.1</i>	<a href="#">FederateName</a>	<i>Federate name; Required in MRM_DisaggregationRequest or MRM_AggregationRequest from MRM SP, and in MRM_DisaggregationResponse or MRM_AggregationResponse from HigherResolutionFederate, else Optional.</i>

#### 11.1.9. MRM\_Trigger

Full Name: HLAinteractionRoot.MRM\_Trigger

Sharing: Publish/Subscribe

Transportation type: HLAREliable

Order: Receive

Dimensions:

Semantics: *A trigger to inform the MRM SP to disaggregate or to aggregate an object instance specified by a UUID.*

Parameters:

Name	Datatype	Semantics
<b>Instance</b>	<a href="#">UuidArrayOfHLAbyte16</a>	<i>Required. This is the UUID of the object instance intended for disaggregation when triggering a DisaggregationRequest and it is the AggregateUuid when triggering an AggregationRequest</i>
<b>AggregationState</b>	<a href="#">AggregateStateEnum32</a>	<i>Informs Aggregate Federate of intended Aggregation State:</i> <i>If Aggregate, the aggregate unit send updates</i> <i>If Fully Disaggregate, the aggregate unit does not send updates and all Entities and/or (sub)units of the aggregate unit send updates</i> <i>If Disaggregate, the aggregate unit sends updates and entities and/or (sub)units of the aggregate unit send updates</i> <i>If Pseudo-Disaggregate, the aggregate unit sends updates and all Entities and/or (sub)units of the aggregate unit send updates but these “are not capable of full interaction with other entities”</i> <i>If Partially Disaggregate, the aggregate unit send updates and some entities and/or (sub)units of the aggregate unit send updates, but others do not (and are accounted for using the “silent” attribute)</i>
<b>UuidList</b>	<a href="#">ArrayOfUuid</a>	<i>Optional when in triggering an AggregationRequest or DisaggregationRequest, state: Disaggregate and Fully Disaggregate</i>  <i>Required when in triggering an DisaggregationRequest, state: Partially Disaggregate and Pseudo Disaggregate.</i>

#### 11.1.10. MRM\_TriggerResponse

Full Name: HLAIinteractionRoot.MRM\_TriggerResponse

Sharing: Publish/Subscribe

Transportation type: HLAreliable

Order: Receive

Dimensions:

Semantics: *An interaction sent in response to MRM\_Trigger in order to inform the initiator of the MRM\_Trigger interaction 1. that the MRM SP has received the interaction and will act on it and 2. of the TransactionID which will be used for the subsequent interactions associated with the particular trigger (to include the MRM\_ActionComplete interaction).*

Parameters:

Name	Datatype	Semantics
<b>Instance</b>	<a href="#">UuidArrayOfHLAbyte16</a>	<i>Required. This is the UUID of the object instance specified in the MRM_Trigger interaction.</i>

Name	Datatype	Semantics
TransactionID	<a href="#">TransactionId</a>	<i>Required. The TransactionID which will be used for all interactions (to include the MRM_ActionComplete interaction) associated with the particular MRM_Trigger interaction.</i>

## 11.2. Datatypes

### 11.2.1. Enumerated Datatypes

#### NonComplianceReasonEnum

Representation: RPRunsignedInteger32BE

Semantics: *An enumerated list of reasons why a federate may not be able to comply with a MRM\_DisaggregationRequest interaction.*

Enumerator	Value
Other	0
UnitUnknown	1
UnitAlreadyDisaggregated	2
UnitNotOwned	4
UnitAlreadyAggregated	3

#### AggregateStateEnum32

Representation: RPRunsignedInteger32BE

Semantics: *Aggregate state*

Enumerator	Value
Other	0
Aggregated	1
Disaggregated	2
FullyDisaggregated	3
PseudoDisaggregated	4
PartiallyDisaggregated	5

## 12. Module NETN-HCBML\_v1.1.1

### Information

<b>Name:</b>	HCBML
<b>Type:</b>	FOM
<b>Version:</b>	1.1.1
<b>Modification Date:</b>	2014-07-22
<b>Security Classification:</b>	Unclassified
<b>Purpose:</b>	C-BML module
<b>Application Domain:</b>	Training
<b>Description:</b>	C-BML standard implementation. This module allows exchange between C2 system and Simulation system. HCBML : High level CBML
<b>Use Limitation:</b>	
<b>Other:</b>	

### Primary author Point Of Contact

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### References

<b>HLA Evolved Editor Tool</b>	Pitch Visual OMT 1516 v2.2.0
<b>Dependency</b>	Base module for NETN FOM v2 modules : NETN-Base_v1.0.2

### Dependencies

NETN-Base_v1.0.2
RPR-Base_v2.0
RPR-Enumerations_v2.0
RPR-Foundation_v2.0



12.1. Object Classes



12.1.1. MessageBML

Full Name: HLAobjectRoot.MessageBML  
Sharing: Subscribe  
Semantics: Global object which describes a BML element  
Attributes:

OpsHeader	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	<a href="#">OperationalHeaderStruct</a>	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	Military header information about BML distribution					
BMLContent	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	<a href="#">BMLContentDescription</a>	PS		RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	Contains the entire CBML message. CBML message is describe in XML format compliante with CBML 2.2.C shema					

<b>HLAprivilegeToDeleteObject</b> <i>Inherited from HLAobjectRoot in MIM</i>	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	HLAtoken	PS	DA	TS	HLAreliable	
	Update type	Update Condition				
	Static	NA				
	Semantics					

### 12.1.2. OrderBML

Full Name: HLAobjectRoot.MessageBML.OrderBML

Sharing: Publish/Subscribe

Semantics: *Object which describe a BML Order*

Attributes:

MetaData	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	<a href="#">ArrayOfMetaDataOrder</a>	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	Meta data which describe information contains in the Order					
OpsHeader  <i>Inherited from MessageBML in NETN-HCBML_v1.1.1</i>	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	<a href="#">OperationalHeaderStruct</a>	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	Military header information about BML distribution					
BMLContent  <i>Inherited from MessageBML in NETN-HCBML_v1.1.1</i>	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	<a href="#">BMLContentDescription</a>	PS		RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	Contains the entire CBML message. CBML message is describe in XML format compliante with CBML 2.2.C shema					



<b>HLAprivilegeToDeleteObject</b> <i>Inherited from HLAobjectRoot in MIM</i>	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	HLAtoken	PS	DA	TS	HLAreliable	
	Update type	Update Condition				
	Static	NA				
	Semantics					

### 12.1.3. RequestBML

Full Name: HLAobjectRoot.MessageBML.RequestBML

Sharing: Publish/Subscribe

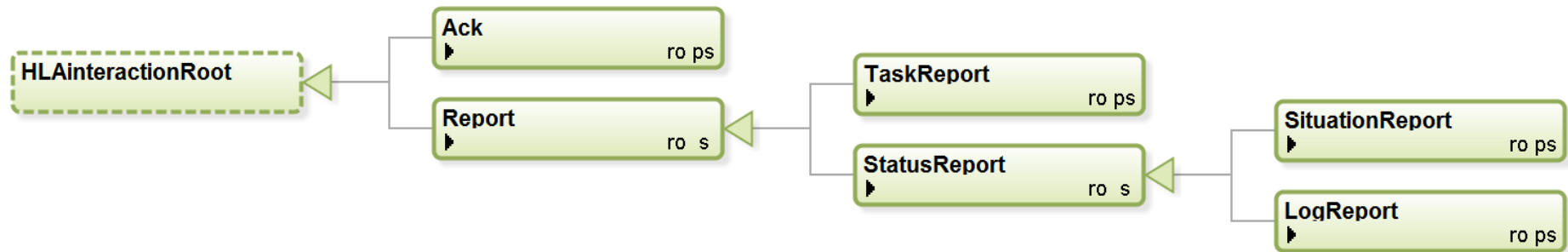
Semantics: *Object which describe a BML Request*

Attributes:

MetaData	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	<a href="#">ArrayOfMetaDataRequest</a>	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	Meta data which describe information contains in the Request					
OpsHeader  <i>Inherited from MessageBML in NETN-HCBML_v1.1.1</i>	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	<a href="#">OperationalHeaderStruct</a>	PS	DA	RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	Military header information about BML distribution					
BMLContent  <i>Inherited from MessageBML in NETN-HCBML_v1.1.1</i>	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	<a href="#">BMLContentDescription</a>	PS		RO	HLAbestEffort	
	Update type	Update Condition				
	Conditional	On change				
	Semantics					
	Contains the entire CBML message. CBML message is describe in XML format compliante with CBML 2.2.C shema					

<b>HLAprivilegeToDeleteObject</b> <i>Inherited from HLAobjectRoot in MIM</i>	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	HLAtoken	PS	DA	TS	HLAreliable	
	Update type	Update Condition				
	Static	NA				
	Semantics					

## 12.2. Interaction Classes



### 12.2.1. HLAinteractionRoot

Full Name: HLAinteractionRoot

Sharing:

Transportation type: HLAreliable

Order: Receive

Dimensions:

Semantics:

Parameters: -

### 12.2.2. Ack

Full Name: HLAinteractionRoot.Ack

Sharing: Publish/Subscribe

Transportation type: HLAreliable

Order: Receive

Dimensions:

Semantics: *Acknowledgment for CBML message*  
*Confirm reception and ability to process a BML message*

Parameters:

Name	Datatype	Semantics
<b>Id</b>	<a href="#">BmlId</a>	<i>Identifier of the acknowledgment</i>
<b>IdRef</b>	<a href="#">BmlId</a>	<i>Reference Element identifier for this acknowledgment. Could be reference a task of an Order or a Request</i>
<b>Who</b>	<a href="#">Callsign</a>	<i>Sender of the acknowledgment</i>
<b>Type</b>	<a href="#">AcknowledgmentStatusEnum</a>	<i>Type of acknowledgment</i>
<b>Reason</b>	<a href="#">CommentDescription</a>	<i>Inform about the reason which not allows to process or execute a mission</i>

### 12.2.3. Report

Full Name: HLAinteractionRoot.Report

Sharing: Subscribe

Transportation type: HLAreliable

Order: Receive

Dimensions:

Semantics: *Global interaction which describe a BML Report*

Parameters:

Name	Datatype	Semantics
<b>Id</b>	<a href="#">BmlId</a>	<i>Identifier of the report</i>
<b>When</b>	<a href="#">Datetime18</a>	<i>Time of the report</i>

### 12.2.4. TaskReport

Full Name: HLAinteractionRoot.Report.TaskReport

Sharing: Publish/Subscribe

Transportation type: HLAreliable

Order: Receive

Dimensions:

Semantics: *Report about progress of a BML Task Order*

Parameters:

Name	Datatype	Semantics
<b>IdTask</b>	<a href="#">BmlId</a>	<i>Identifier of the Task associated to the Report</i>

Name	Datatype	Semantics
<b>IdOrder</b>	<a href="#">BmlId</a>	<i>Identifier of the Order (optional)</i>
<b>Status</b>	<a href="#">StatusReportEnum32BE</a>	<i>Progress status of the Task</i>
<b>Comments</b>	<a href="#">CommentDescription</a>	<i>Additionnal information about Task progress</i>
<b>Id</b> <i>Inherited from Report in NETN-HCBML_v1.1.1</i>	<a href="#">BmlId</a>	<i>Identifier of the report</i>
<b>When</b> <i>Inherited from Report in NETN-HCBML_v1.1.1</i>	<a href="#">Datetime18</a>	<i>Time of the report</i>

### 12.2.5. StatusReport

Full Name: HLAinteractionRoot.Report.StatusReport

Sharing: Subscribe

Transportation type: HLAreliable

Order: Receive

Dimensions:

Semantics: *Global interaction which describe a BML Status Report*

Parameters:

Name	Datatype	Semantics
<b>IdTask</b>	<a href="#">BmlId</a>	<i>Identifier of the Task associated to the report (optional)</i>
<b>IdOrder</b>	<a href="#">BmlId</a>	<i>Identifier of the Order (optional)</i>
<b>Who</b>	<a href="#">Callsign</a>	<i>Sender of the Report</i>
<b>Id</b> <i>Inherited from Report in NETN-HCBML_v1.1.1</i>	<a href="#">BmlId</a>	<i>Identifier of the report</i>
<b>When</b> <i>Inherited from Report in NETN-HCBML_v1.1.1</i>	<a href="#">Datetime18</a>	<i>Time of the report</i>

### 12.2.6. SituationReport

Full Name: HLAinteractionRoot.Report.StatusReport.SituationReport

Sharing: Publish/Subscribe

Transportation type: HLAreliable

Order: Receive

Dimensions:

Semantics: *Status Report about perceived view (BFT & Red Situation)*

Parameters:

Name	Datatype	Semantics
<b>Observer</b>	<a href="#">UuidArrayOfHLAbyte16</a>	<i>Entity who observe the situation Could be the same of the sender</i>
<b>Hostility</b>	<a href="#">HostilityStatusEnum32BE</a>	<i>Hostility for the target</i>
<b>Status</b>	<a href="#">OperationalStatusEnum32BE</a>	<i>Operational status of the target</i>
<b>TargetDesignation</b>	<a href="#">TargetDescription</a>	<i>Target track name</i>
<b>TargetRealIdentity</b>	<a href="#">UuidArrayOfHLAbyte16</a>	<i>Target real identity (optional)</i>
<b>ObservePosition</b>	WorldLocationStruct	<i>Target position</i>
<b>ObserveTime</b>	<a href="#">Datetime18</a>	<i>Time of observation</i>
<b>IdTask</b> <i>Inherited from StatusReport in NETN-HCBML_v1.1.1</i>	<a href="#">BmlId</a>	<i>Identifier of the Task associated to the report (optional)</i>
<b>IdOrder</b> <i>Inherited from StatusReport in NETN-HCBML_v1.1.1</i>	<a href="#">BmlId</a>	<i>Identifier of the Order (optional)</i>
<b>Who</b> <i>Inherited from StatusReport in NETN-HCBML_v1.1.1</i>	<a href="#">Callsign</a>	<i>Sender of the Report</i>
<b>Id</b> <i>Inherited from Report in NETN-HCBML_v1.1.1</i>	<a href="#">BmlId</a>	<i>Identifier of the report</i>
<b>When</b> <i>Inherited from Report in NETN-HCBML_v1.1.1</i>	<a href="#">Datetime18</a>	<i>Time of the report</i>

### 12.2.7. LogReport

Full Name: HLInteractionRoot.Report.StatusReport.LogReport

Sharing: Publish/Subscribe

Transportation type: HLAReliable

Order: Receive

Dimensions:

Semantics: *Logistic Report*

Parameters:

Name	Datatype	Semantics
<b>Consumable</b>	<a href="#">ConsumableTypeStruct</a>	<i>A set of Consumable-Material-Type-Category-Name</i>
<b>Quantity</b>	<a href="#">QuantityFloat32</a>	<i>Available quantity (metric system shall be used)</i>
<b>IdTask</b> <i>Inherited from StatusReport in NETN-HCBML_v1.1.1</i>	<a href="#">BmlId</a>	<i>Identifier of the Task associated to the report (optional)</i>
<b>IdOrder</b> <i>Inherited from StatusReport in NETN-HCBML_v1.1.1</i>	<a href="#">BmlId</a>	<i>Identifier of the Order (optional)</i>
<b>Who</b> <i>Inherited from StatusReport in NETN-HCBML_v1.1.1</i>	<a href="#">Callsign</a>	<i>Sender of the Report</i>
<b>Id</b> <i>Inherited from Report in NETN-HCBML_v1.1.1</i>	<a href="#">BmlId</a>	<i>Identifier of the report</i>
<b>When</b> <i>Inherited from Report in NETN-HCBML_v1.1.1</i>	<a href="#">Datetime18</a>	<i>Time of the report</i>

## 12.3. Datatypes

### 12.3.1. Enumerated Datatypes

#### SendActionEnum32BE

Representation: HLAinteger32BE

Semantics: *Represent the type of action for a BML message receiver*

Enumerator	Value
ForAction	0
ForInfo	1

#### StatusReportEnum32BE

Representation: HLAinteger32BE

Semantics: *The specific value that represents the perceived appraisal of the progress of a specific ACTION-TASK.  
JC3IEDM\_ActionTaskStatusProgressCodeXmlType*

Enumerator	Value
ABO	0
AIRBRN	1
CANCLD	2
COM	3
DELAY	4
DPLMMW	5
DWNTMW	6
IPR	7
NOOPER	8
NKN	9
NOS	10
NST	11
OFFTSK	12



Enumerator	Value
PAU	13
PLAN	14
RECMW	15
RETASK	16
SCRMW	17
TASKED	18
TRNMW	19

### OperationalStatusEnum32BE

Representation: HLAinteger32BE

Semantics: *The specific value that represents the operational status of a specific ORGANISATION.  
JC3IEDM\_OrganisationStatusOperationalStatusCodeXmlType*

Enumerator	Value
MOPS	0
NKN	1
NOP	2
OPR	3
SOPS	4
TNOPS	5

### HostilityStatusEnum32BE

Representation: HLAinteger32BE

Semantics: *The specific value that represents the perceived hostility status of a specific OBJECT-ITEM.  
JC3IEDM\_ObjectItemHostilityStatusCodeXmlType*

Enumerator	Value
AFR	0
AHO	1
AIV	2

Enumerator	Value
ANT	3
FAKER	4
FR	5
HO	6
IV	7
JOKER	8
NEUTRL	9
PENDNG	10
SUSPCT	11
UNK	12

### PriorityEnum32BE

Representation: HLAinteger32BE

Semantics: *Represent the associate priority of a BML message*

Enumerator	Value
Z	0
O	1
P	2
R	4

### AcknowledgmentStatusEnum

Representation: HLAoctet

Semantics: *Represente the different status of an acknowledgment*

Enumerator	Value
Received	0
Acknowledged_Ok	1
Acknowledged_Nok	2

ConsumableTypeEnum

Representation: HLAoctet

Semantics: *Represent the different type of logistic consumable*

Enumerator	Value
Fuel	0
Ammo	1
Food	2

## 12.3.2. Array Datatypes

### ArrayOfMetaDataOrder

Element Type: [MetaDataOrderStruct](#)  
Cardinality: Dynamic  
Encoding: HLVariableArray  
Semantics: *Order Meta data list*

### ArrayOfMetaDataRequest

Element Type: [MetaDataOrderStruct](#)  
Cardinality: Dynamic  
Encoding: HLVariableArray  
Semantics: *Request Meta data list*

### ArrayofReceiver

Element Type: [ReceiverStruct](#)  
Cardinality: Dynamic  
Encoding: HLVariableArray  
Semantics: *Receiver list for a BML message*

### Datetime18

Element Type: HLAUnicodeChar  
Cardinality: 18  
Encoding: HLAfixedArray  
Semantics: *A designation of a specified chronological point measured using Coordinated Universal Time (UTC) ISO 8601:2000 as a standard of reference, constrained to "zero meridian" i.e. Zulu time zone only. This is expressed as a composite field using a compacted ISO notation YYYYMMDDHHMMSS.SSS where YYYY represents a year, MM represents a month in values from 00 to 12, and DD represents a day in values from 00 to 31, HH represents an hour, MM represents a minute, and SS.SSS represents the number of seconds and milliseconds.*

### **MessageDescription**

Element Type: HLAunicodeChar

Cardinality: Dynamic

Encoding: HLAVariableArray

Semantics: *Represents the identification of a BML message*

### **BMLContentDescription**

Element Type: HLAunicodeChar

Cardinality: Dynamic

Encoding: HLAVariableArray

Semantics: *Contains the entire CBML message.  
CBML message is described in XML format compliant with CBML 2.2.C shema*

### **CommentDescription**

Element Type: HLAunicodeChar

Cardinality: Dynamic

Encoding: HLAVariableArray

Semantics: *Comment for a BML message*

### **TargetDescription**

Element Type: HLAunicodeChar

Cardinality: Dynamic

Encoding: HLAVariableArray

Semantics: *Represents the Track name of an observed Entity*

### **BmlData**

Element Type: HLAunicodeChar

Cardinality: Dynamic

Encoding: HLAVariableArray

Semantics: *BML message data*



### 12.3.3. Fixed Record Datatypes

#### MetaDataOrderStruct

Encoding: HLAfixedRecord

Semantics: *Meta data for an Order*

Name	Type	Semantic
Id	<a href="#">BmlData</a>	<i>BML message order id Information extract from Xml data message</i>
IdTask	<a href="#">BmlData</a>	<i>BML message task id Information extract from Xml data message</i>
Who	<a href="#">BmlData</a>	<i>BML message taskee Information extract from Xml data message</i>
What	<a href="#">BmlData</a>	<i>BML message mission Information extract from Xml data message</i>
GeographicInterest	<a href="#">WGS84Location</a>	<i>BML message mission zone (Baricentre) Information extract from Xml data message</i>
Status	<a href="#">StatusReportEnum32BE</a>	<i>Actual state of the BML Task State is update with the progress of the Order</i>

#### OperationalHeaderStruct

Encoding: HLAfixedRecord

Semantics: *Meta data for distributed BML message*

Name	Type	Semantic
Sender	<a href="#">BmlData</a>	<i>BML message sender Information extract from Xml data message</i>
Receivers	<a href="#">ArrayofReceiver</a>	<i>List of Receivers for the BML message Information extract from Xml data message</i>
SendTime	<a href="#">Datetime18</a>	<i>Sending date of the BML message</i>
Priority	<a href="#">PriorityEnum32BE</a>	<i>BML message priority Information extract from Xml data message</i>

**ReceiverStruct**

Encoding: HLAfixedRecord

Semantics: *Receiver desription*

Name	Type	Semantic
Name	<a href="#">BmlData</a>	<i>BML message receiver Information extract from Xml data message</i>
SendAction	<a href="#">SendActionEnum32BE</a>	<i>BML message action for the receiver Information extract from Xml data message</i>

**BmlId**

Encoding: HLAfixedRecord

Semantics: *Represent Identifier of a BML message*

Name	Type	Semantic
Counter	<a href="#">CounterInt32</a>	<i>EventCount shall start at one (1) and then incremented by one (1) for a new BML message.  In the case where all possible values are exhausted, the numbers may be reused beginning again at one.</i>
MessageId	<a href="#">MessageDescription</a>	<i>Identifier of BML message. This identifier corresponds to xml id information of Request and Order</i>

**WGS84Location**

Encoding: HLAfixedRecord

Semantics: *Represents a location in WGS84*

Name	Type	Semantic
latitude	Float32	<i>Latitude representation in degree</i>
longitude	Float32	<i>Longitude representation in degree</i>
altitude	MeterFloat32	<i>Altitude representation in meter</i>

**ConsumableTypeStruct**



Encoding: HLAfixedRecord

Semantics: *Consumable Description*

Name	Type	Semantic
ConsumableType	<a href="#">ConsumableTypeEnum</a>	<i>Consumable type.</i>
SubCategory	EntityTypeStruct	<i>Consumable Enumere</i>
SubCategoryDesription	HLAunicodeString	<i>OPTIONAL- Consumable name.</i>

12.4. Switches

Auto Provide	Disabled
Convey Region Designator Sets	Disabled
Convey Producing Federate	Disabled
Attribute Scope Advisory	Disabled
Attribute Relevance Advisory	Disabled
Object Class Relevance Advisory	Disabled
Interaction Relevance Advisory	Disabled
Service Reporting	Disabled
Exception Reporting	Disabled
Delay Subscription Evaluation	Disabled
Automatic Resign Action	CancelThenDeleteThenDivest

# 13. Module NETN-LBML\_v1.1.0

## Information

<b>Name:</b>	LBML
<b>Type:</b>	FOM
<b>Version:</b>	1.0
<b>Modification Date:</b>	2014-09-24
<b>Security Classification:</b>	Unclassified
<b>Purpose:</b>	Low level BML
<b>Application Domain:</b>	
<b>Description:</b>	Low level BML orders/tasks and reports.
<b>Use Limitation:</b>	
<b>Other:</b>	

## Primary author Point Of Contact

<b>Name:</b>	Roger Jansen
<b>Organization:</b>	
<b>Telephone:</b>	
<b>Email:</b>	

## References

<b>HLA Evolved Conversion Tool</b>	Pitch Visual OMT v2.2.3
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## Release Restrictions

## Use History

v.1.1.0 - Renamed (from 1.0.0d6)
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## Dependencies

NETN-Base_v1.0.2
RPR-Base_v2.0
RPR-Enumerations_v2.0
RPR-Foundation_v2.0

## 13.1. Interaction Classes

### 13.1.1. HLAinteractionRoot

Full Name: HLAinteractionRoot

Sharing:

Transportation type: HLAreliable

Order: Receive

Dimensions:

Semantics:

Parameters: -

### 13.1.2. LBMLMessage

Full Name: HLAinteractionRoot.LBMLMessage

Sharing:

Transportation type: HLAreliable

Order: Receive

Dimensions:

Semantics: *Root class of low level BML interactions*

Parameters: -

### 13.1.3. LBMLTask

Full Name: HLAinteractionRoot.LBMLMessage.LBMLTask

Sharing: Subscribe

Transportation type: HLAreliable

Order: Receive

Dimensions:

Semantics: *An interaction for ordering a unit to execute a task.*

Parameters:

Name	Datatype	Semantics
<b>Task</b>	<a href="#">TaskId</a>	<i>Identifies the task.</i>



Name	Datatype	Semantics
<b>Taskee</b>	<a href="#">UuidArrayOfHLAbyte16</a>	<i>The unit that has to execute the task.</i>
<b>Tasker</b>	<a href="#">Callsign</a>	<i>Identifies the commander of the task.</i>
<b>StartWhen</b>	<a href="#">Datetime18</a>	<i>Time when the task execution has to start.</i>
<b>EndWhen</b>	<a href="#">Datetime18</a>	<i>Time when the task execution has to end. 00000000000000.000 means no end time.</i>
<b>Why</b>	HLAunicodeString	<i>For what reason has this task to be executed.</i>
<b>TaskType</b>	<a href="#">TaskTypeEnum8</a>	<i>Determines how this new task is related to the current task.</i>

### 13.1.4. Move

Full Name: HLAinteractionRoot.LBMLMessage.LBMLTask.Move

Sharing: Publish/Subscribe

Transportation type: HLAreliable

Order: Receive

Dimensions:

Semantics: *Tasks a unit to move in the specified direction. The unit will keep on moving until the specified end time or when ordered otherwise.*

Parameters:

Name	Datatype	Semantics
<b>Direction</b>	AngleRadianFloat32	<i>Determines the azimuth direction, in radians.</i>
<b>Task</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">TaskId</a>	<i>Identifies the task.</i>
<b>Taskee</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">UuidArrayOfHLAbyte16</a>	<i>The unit that has to execute the task.</i>
<b>Tasker</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">Callsign</a>	<i>Identifies the commander of the task.</i>
<b>StartWhen</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">Datetime18</a>	<i>Time when the task execution has to start.</i>
<b>EndWhen</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">Datetime18</a>	<i>Time when the task execution has to end. 00000000000000.000 means no end time.</i>
<b>Why</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	HLAunicodeString	<i>For what reason has this task to be executed.</i>

Name	Datatype	Semantics
<b>TaskType</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">TaskTypeEnum8</a>	<i>Determines how this new task is related to the current task.</i>

### 13.1.5. MoveToLocation

Full Name: HLAinteractionRoot.LBMLMessage.LBMLTask.MoveToLocation

Sharing: Publish/Subscribe

Transportation type: HLAreliable

Order: Receive

Dimensions:

Semantics: *Tasks a unit to move to the specified destination.*

Parameters:

Name	Datatype	Semantics
<b>Destination</b>	WorldLocationStruct	<i>The location to move to.</i>
<b>MoveType</b>	<a href="#">MoveTypeEnum32</a>	<i>Indicates if roads have to be followed.</i>
<b>Waypoints</b>	WorldLocationStructLengthlessArray	<i>Optional route to the destination.</i>
<b>Task</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">TaskId</a>	<i>Identifies the task.</i>
<b>Taskee</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">UuidArrayOfHLAbyte16</a>	<i>The unit that has to execute the task.</i>
<b>Tasker</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">Callsign</a>	<i>Identifies the commander of the task.</i>
<b>StartWhen</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">Datetime18</a>	<i>Time when the task execution has to start.</i>
<b>EndWhen</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">Datetime18</a>	<i>Time when the task execution has to end. 00000000000000.000 means no end time.</i>
<b>Why</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	HLAunicodeString	<i>For what reason has this task to be executed.</i>
<b>TaskType</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">TaskTypeEnum8</a>	<i>Determines how this new task is related to the current task.</i>



**13.1.6. MoveToUnit**

Full Name: HLAinteractionRoot.LBMLMessage.LBMLTask.MoveToUnit

Sharing: Publish/Subscribe

Transportation type: HLAreliable

Order: Receive

Dimensions:

Semantics: *Tasks a unit to move to another unit.*

Parameters:

Name	Datatype	Semantics
<b>Unit</b>	<a href="#">UuidArrayOfHLAbyte16</a>	<i>The unit to move to.</i>
<b>MoveType</b>	<a href="#">MoveTypeEnum32</a>	<i>Indicates if roads have to be followed.</i>
<b>Waypoints</b>	WorldLocationStructLengthlessArray	<i>Optional route to the destination.</i>
<b>Task</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">TaskId</a>	<i>Identifies the task.</i>
<b>Taskee</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">UuidArrayOfHLAbyte16</a>	<i>The unit that has to execute the task.</i>
<b>Tasker</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">Callsign</a>	<i>Identifies the commander of the task.</i>
<b>StartWhen</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">Datetime18</a>	<i>Time when the task execution has to start.</i>
<b>EndWhen</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">Datetime18</a>	<i>Time when the task execution has to end. 00000000000000.000 means no end time.</i>
<b>Why</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	HLAunicodeString	<i>For what reason has this task to be executed.</i>
<b>TaskType</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">TaskTypeEnum8</a>	<i>Determines how this new task is related to the current task.</i>

**13.1.7. MoveIntoFormation**

Full Name: HLAinteractionRoot.LBMLMessage.LBMLTask.MoveIntoFormation

Sharing: Publish/Subscribe

Transportation type: HLAreliable

Order: Receive

Dimensions:

Semantics: *Tasks an aggregate unit to move into the given formation with the given heading.*

Parameters:

Name	Datatype	Semantics
<b>Formation</b>	FormationEnum32	<i>The category of positional arrangement of the entities within the aggregate.</i>
<b>Distance</b>	MeterFloat32	<i>Distance between the individual vehicles in the formation.</i>
<b>Location</b>	WorldLocationStruct	<i>The location (x, y and z) to move to.</i>
<b>Heading</b>	AngleRadianFloat32	<i>The heading of the formation in radians.</i>
<b>Task</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">TaskId</a>	<i>Identifies the task.</i>
<b>Taskee</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">UuidArrayOfHLAbyte16</a>	<i>The unit that has to execute the task.</i>
<b>Tasker</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">Callsign</a>	<i>Identifies the commander of the task.</i>
<b>StartWhen</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">Datetime18</a>	<i>Time when the task execution has to start.</i>
<b>EndWhen</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">Datetime18</a>	<i>Time when the task execution has to end. 00000000000000.000 means no end time.</i>
<b>Why</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	HLAunicodeString	<i>For what reason has this task to be executed.</i>
<b>TaskType</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">TaskTypeEnum8</a>	<i>Determines how this new task is related to the current task.</i>

### 13.1.8. FollowRoute

Full Name: HLAinteractionRoot.LBMLMessage.LBMLTask.FollowRoute

Sharing: Publish/Subscribe

Transportation type: HLAreliable

Order: Receive

Dimensions:

Semantics: *Tasks a unit to follow the specified route.*

## Parameters:

Name	Datatype	Semantics
<b>MoveType</b>	<a href="#">MoveTypeEnum32</a>	
<b>ControlMeasure</b>	EntityIdentifierStruct	<i>Follow a control measure referenced by an entity identifier struct. This would typically be an environmental object which contains one (waypoint) or many points (route), but could also be another entity.</i>
<b>Task</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">TaskId</a>	<i>Identifies the task.</i>
<b>Taskee</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">UuidArrayOfHLAbyte16</a>	<i>The unit that has to execute the task.</i>
<b>Tasker</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">Callsign</a>	<i>Identifies the commander of the task.</i>
<b>StartWhen</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">Datetime18</a>	<i>Time when the task execution has to start.</i>
<b>EndWhen</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">Datetime18</a>	<i>Time when the task execution has to end. 00000000000000.000 means no end time.</i>
<b>Why</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	HLAunicodeString	<i>For what reason has this task to be executed.</i>
<b>TaskType</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">TaskTypeEnum8</a>	<i>Determines how this new task is related to the current task.</i>

## 13.1.9. FollowUnit

Full Name: HLAinteractionRoot.LBMLMessage.LBMLTask.FollowUnit

Sharing: Publish/Subscribe

Transportation type: HLAreliable

Order: Receive

Dimensions:

Semantics: *Tasks a unit to follow another unit.*

## Parameters:

Name	Datatype	Semantics
<b>Unit</b>	<a href="#">UuidArrayOfHLAbyte16</a>	<i>The unit to follow.</i>

Name	Datatype	Semantics
<b>Behind</b>	MeterFloat32	<i>The distance in meters behind the unit to follow.</i>
<b>Right</b>	MeterFloat32	<i>The distance in meters to the right of the unit to follow.</i>
<b>Above</b>	MeterFloat32	<i>The distance in meters above the unit to follow.</i>
<b>Task</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">TaskId</a>	<i>Identifies the task.</i>
<b>Taskee</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">UuidArrayOfHLAbyte16</a>	<i>The unit that has to execute the task.</i>
<b>Tasker</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">Callsign</a>	<i>Identifies the commander of the task.</i>
<b>StartWhen</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">Datetime18</a>	<i>Time when the task execution has to start.</i>
<b>EndWhen</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">Datetime18</a>	<i>Time when the task execution has to end. 00000000000000.000 means no end time.</i>
<b>Why</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	HLAunicodeString	<i>For what reason has this task to be executed.</i>
<b>TaskType</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">TaskTypeEnum8</a>	<i>Determines how this new task is related to the current task.</i>

### 13.1.10. TurnToHeading

Full Name: HLAinteractionRoot.LBMLMessage.LBMLTask.TurnToHeading

Sharing: Publish/Subscribe

Transportation type: HLAreliable

Order: Receive

Dimensions:

Semantics: *Tasks a unit to turn to the specified heading.*

Parameters:

Name	Datatype	Semantics
<b>Heading</b>	AngleRadianFloat32	<i>Determines the heading, in radians, a unit has to turn to.</i>
<b>Task</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">TaskId</a>	<i>Identifies the task.</i>

Name	Datatype	Semantics
<b>Taskee</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">UuidArrayOfHLAbyte16</a>	<i>The unit that has to execute the task.</i>
<b>Tasker</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">Callsign</a>	<i>Identifies the commander of the task.</i>
<b>StartWhen</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">Datetime18</a>	<i>Time when the task execution has to start.</i>
<b>EndWhen</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">Datetime18</a>	<i>Time when the task execution has to end. 00000000000000.000 means no end time.</i>
<b>Why</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	HLAunicodeString	<i>For what reason has this task to be executed.</i>
<b>TaskType</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">TaskTypeEnum8</a>	<i>Determines how this new task is related to the current task.</i>

### 13.1.11. TurnToOrientation

Full Name: HLAinteractionRoot.LBMLMessage.LBMLTask.TurnToHeading.TurnToOrientation

Sharing: Publish/Subscribe

Transportation type: HLAreliable

Order: Receive

Dimensions:

Semantics:

Parameters:

Name	Datatype	Semantics
<b>Pitch</b>	AngleRadianFloat32	
<b>Roll</b>	AngleRadianFloat32	
<b>Heading</b> <i>Inherited from TurnToHeading in NETN-LBML_v1.1.0</i>	AngleRadianFloat32	<i>Determines the heading, in radians, a unit has to turn to.</i>
<b>Task</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">TaskId</a>	<i>Identifies the task.</i>
<b>Taskee</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">UuidArrayOfHLAbyte16</a>	<i>The unit that has to execute the task.</i>

Name	Datatype	Semantics
<b>Tasker</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">Callsign</a>	<i>Identifies the commander of the task.</i>
<b>StartWhen</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">Datetime18</a>	<i>Time when the task execution has to start.</i>
<b>EndWhen</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">Datetime18</a>	<i>Time when the task execution has to end. 00000000000000.000 means no end time.</i>
<b>Why</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	HLAunicodeString	<i>For what reason has this task to be executed.</i>
<b>TaskType</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">TaskTypeEnum8</a>	<i>Determines how this new task is related to the current task.</i>

### 13.1.12. VehicleMount

Full Name: HLAinteractionRoot.LBMLMessage.LBMLTask.VehicleMount

Sharing: Publish/Subscribe

Transportation type: HLAreliable

Order: Receive

Dimensions:

Semantics: *Tasks a unit to mount the specified vehicle.*

Parameters:

Name	Datatype	Semantics
<b>VehicleToMount</b>	<a href="#">UuidArrayOfHLAbyte16</a>	<i>The vehicle to mount.</i>
<b>Task</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">TaskId</a>	<i>Identifies the task.</i>
<b>Taskee</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">UuidArrayOfHLAbyte16</a>	<i>The unit that has to execute the task.</i>
<b>Tasker</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">Callsign</a>	<i>Identifies the commander of the task.</i>
<b>StartWhen</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">Datetime18</a>	<i>Time when the task execution has to start.</i>

Name	Datatype	Semantics
<b>EndWhen</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">Datetime18</a>	<i>Time when the task execution has to end. 00000000000000.000 means no end time.</i>
<b>Why</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	HLAunicodeString	<i>For what reason has this task to be executed.</i>
<b>TaskType</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">TaskTypeEnum8</a>	<i>Determines how this new task is related to the current task.</i>

### 13.1.13. VehicleDismount

Full Name: HLAinteractionRoot.LBMLMessage.LBMLTask.VehicleDismount

Sharing: Publish/Subscribe

Transportation type: HLAreliable

Order: Receive

Dimensions:

Semantics: *Tasks a unit to dismount.*

Parameters:

Name	Datatype	Semantics
<b>Task</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">TaskId</a>	<i>Identifies the task.</i>
<b>Taskee</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">UuidArrayOfHLAbyte16</a>	<i>The unit that has to execute the task.</i>
<b>Tasker</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">Callsign</a>	<i>Identifies the commander of the task.</i>
<b>StartWhen</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">Datetime18</a>	<i>Time when the task execution has to start.</i>
<b>EndWhen</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">Datetime18</a>	<i>Time when the task execution has to end. 00000000000000.000 means no end time.</i>
<b>Why</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	HLAunicodeString	<i>For what reason has this task to be executed.</i>
<b>TaskType</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">TaskTypeEnum8</a>	<i>Determines how this new task is related to the current task.</i>

**13.1.14. FireAtLocation**

Full Name: HLAIinteractionRoot.LBMLMessage.LBMLTask.FireAtLocation

Sharing: Publish/Subscribe

Transportation type: HLAReliable

Order: Receive

Dimensions:

Semantics: *Tasks a unit to fire at a location.*

Parameters:

Name	Datatype	Semantics
<b>TargetLocation</b>	WorldLocationStruct	<i>The location to fire at.</i>
<b>Task</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">TaskId</a>	<i>Identifies the task.</i>
<b>Taskee</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">UuidArrayOfHLAbyte16</a>	<i>The unit that has to execute the task.</i>
<b>Tasker</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">Callsign</a>	<i>Identifies the commander of the task.</i>
<b>StartWhen</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">Datetime18</a>	<i>Time when the task execution has to start.</i>
<b>EndWhen</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">Datetime18</a>	<i>Time when the task execution has to end. 00000000000000.000 means no end time.</i>
<b>Why</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	HLAUnicodeString	<i>For what reason has this task to be executed.</i>
<b>TaskType</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">TaskTypeEnum8</a>	<i>Determines how this new task is related to the current task.</i>

**13.1.15. FireIndirectWM**

Full Name: HLAIinteractionRoot.LBMLMessage.LBMLTask.FireAtLocation.FireIndirectWM

Sharing: Publish/Subscribe

Transportation type: HLAReliable

Order: Receive

Dimensions:



Semantics: *Tasks a unit to fire at a location with the specified weapon and munition.*

Parameters:

Name	Datatype	Semantics
<b>WeaponTypeToUse</b>	EntityTypeStruct	
<b>MunitionTypeToUse</b>	EntityTypeStruct	
<b>TargetLocation</b> <i>Inherited from FireAtLocation in NETN-LBML_v1.1.0</i>	WorldLocationStruct	<i>The location to fire at.</i>
<b>Task</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">TaskId</a>	<i>Identifies the task.</i>
<b>Taskee</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">UuidArrayOfHLAbyte16</a>	<i>The unit that has to execute the task.</i>
<b>Tasker</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">Callsign</a>	<i>Identifies the commander of the task.</i>
<b>StartWhen</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">Datetime18</a>	<i>Time when the task execution has to start.</i>
<b>EndWhen</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">Datetime18</a>	<i>Time when the task execution has to end. 00000000000000.000 means no end time.</i>
<b>Why</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	HLAunicodeString	<i>For what reason has this task to be executed.</i>
<b>TaskType</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">TaskTypeEnum8</a>	<i>Determines how this new task is related to the current task.</i>

### 13.1.16. FireAtUnit

Full Name: HLAinteractionRoot.LBMLMessage.LBMLTask.FireAtUnit

Sharing: Publish/Subscribe

Transportation type: HLAreliable

Order: Receive

Dimensions:

Semantics: *Tasks a unit to fire at another specified unit.*

Parameters:

Name	Datatype	Semantics
<b>Target</b>	<a href="#">UuidArrayOfHLAbyte16</a>	<i>The unit to fire at.</i>
<b>Task</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">TaskId</a>	<i>Identifies the task.</i>
<b>Taskee</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">UuidArrayOfHLAbyte16</a>	<i>The unit that has to execute the task.</i>
<b>Tasker</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">Callsign</a>	<i>Identifies the commander of the task.</i>
<b>StartWhen</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">Datetime18</a>	<i>Time when the task execution has to start.</i>
<b>EndWhen</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">Datetime18</a>	<i>Time when the task execution has to end. 00000000000000.000 means no end time.</i>
<b>Why</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	HLAunicodeString	<i>For what reason has this task to be executed.</i>
<b>TaskType</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">TaskTypeEnum8</a>	<i>Determines how this new task is related to the current task.</i>

### 13.1.17. FireDirectWM

Full Name: HLAinteractionRoot.LBMLMessage.LBMLTask.FireAtUnit.FireDirectWM

Sharing: Publish/Subscribe

Transportation type: HLAreliable

Order: Receive

Dimensions:

Semantics:

Parameters:

Name	Datatype	Semantics
<b>WeaponTypeToUse</b>	EntityTypeStruct	<i>The weapon type to use.</i>
<b>MunitionTypeToUse</b>	EntityTypeStruct	<i>The munition type that should be used by the select weapon type.</i>
<b>Target</b> <i>Inherited from FireAtUnit in NETN-LBML_v1.1.0</i>	<a href="#">UuidArrayOfHLAbyte16</a>	<i>The unit to fire at.</i>

Name	Datatype	Semantics
<b>Task</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">TaskId</a>	<i>Identifies the task.</i>
<b>Taskee</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">UuidArrayOfHLAbyte16</a>	<i>The unit that has to execute the task.</i>
<b>Tasker</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">Callsign</a>	<i>Identifies the commander of the task.</i>
<b>StartWhen</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">Datetime18</a>	<i>Time when the task execution has to start.</i>
<b>EndWhen</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">Datetime18</a>	<i>Time when the task execution has to end. 00000000000000.000 means no end time.</i>
<b>Why</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	HLAunicodeString	<i>For what reason has this task to be executed.</i>
<b>TaskType</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">TaskTypeEnum8</a>	<i>Determines how this new task is related to the current task.</i>

### 13.1.18. Wait

Full Name: HLAinteractionRoot.LBMLMessage.LBMLTask.Wait

Sharing: Publish/Subscribe

Transportation type: HLAreliable

Order: Receive

Dimensions:

Semantics: *Tasks a unit to wait until the specified end time. Wait indefinitely if no end time is specified.*

Parameters:

Name	Datatype	Semantics
<b>Task</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">TaskId</a>	<i>Identifies the task.</i>
<b>Taskee</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">UuidArrayOfHLAbyte16</a>	<i>The unit that has to execute the task.</i>
<b>Tasker</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">Callsign</a>	<i>Identifies the commander of the task.</i>

Name	Datatype	Semantics
<b>StartWhen</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">Datetime18</a>	<i>Time when the task execution has to start.</i>
<b>EndWhen</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">Datetime18</a>	<i>Time when the task execution has to end. 00000000000000.000 means no end time.</i>
<b>Why</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	HLAunicodeString	<i>For what reason has this task to be executed.</i>
<b>TaskType</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">TaskTypeEnum8</a>	<i>Determines how this new task is related to the current task.</i>

### 13.1.19. ChangeOrderedSpeed

Full Name: HLAinteractionRoot.LBMLMessage.LBMLTask.ChangeOrderedSpeed

Sharing: Publish/Subscribe

Transportation type: HLAreliable

Order: Receive

Dimensions:

Semantics: *Change the ordered speed. Usually sent with TaskType InterruptCurrentTask to adjust the current move task.*

Parameters:

Name	Datatype	Semantics
<b>Speed</b>	VelocityMeterPerSecondFloat32	<i>Determines the ordered speed to set for a unit, in m/s.</i>
<b>Task</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">TaskId</a>	<i>Identifies the task.</i>
<b>Taskee</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">UuidArrayOfHLAbyte16</a>	<i>The unit that has to execute the task.</i>
<b>Tasker</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">Callsign</a>	<i>Identifies the commander of the task.</i>
<b>StartWhen</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">Datetime18</a>	<i>Time when the task execution has to start.</i>
<b>EndWhen</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">Datetime18</a>	<i>Time when the task execution has to end. 00000000000000.000 means no end time.</i>

Name	Datatype	Semantics
<b>Why</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	HLAUnicodeString	<i>For what reason has this task to be executed.</i>
<b>TaskType</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">TaskTypeEnum8</a>	<i>Determines how this new task is related to the current task.</i>

### 13.1.20. ChangeOrderedAltitude

Full Name: HLAinteractionRoot.LBMLMessage.LBMLTask.ChangeOrderedAltitude

Sharing: Publish/Subscribe

Transportation type: HLAReliable

Order: Receive

Dimensions:

Semantics: *Change the ordered altitude. Usually sent with TaskType InterruptCurrentTask to adjust the current move task.*

Parameters:

Name	Datatype	Semantics
<b>Altitude</b>	Float64	
<b>AltitudeType</b>	<a href="#">AltitudeTypeEnum8</a>	
<b>Task</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">TaskId</a>	<i>Identifies the task.</i>
<b>Taskee</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">UuidArrayOfHLAByte16</a>	<i>The unit that has to execute the task.</i>
<b>Tasker</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">Callsign</a>	<i>Identifies the commander of the task.</i>
<b>StartWhen</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">Datetime18</a>	<i>Time when the task execution has to start.</i>
<b>EndWhen</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">Datetime18</a>	<i>Time when the task execution has to end. 00000000000000.000 means no end time.</i>
<b>Why</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	HLAUnicodeString	<i>For what reason has this task to be executed.</i>

Name	Datatype	Semantics
<b>TaskType</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">TaskTypeEnum8</a>	<i>Determines how this new task is related to the current task.</i>

### 13.1.21. SetRulesOfEngagement

Full Name: HLAinteractionRoot.LBMLMessage.LBMLTask.SetRulesOfEngagement

Sharing: Publish/Subscribe

Transportation type: HLAREliable

Order: Receive

Dimensions:

Semantics: *Change the rules of engagment for a unit.*

Parameters:

Name	Datatype	Semantics
<b>RulesOfEngagement</b>	<a href="#">RulesOfEngagementEnum8</a>	<i>Determines the rules of engagment for a unit.</i>
<b>Task</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">TaskId</a>	<i>Identifies the task.</i>
<b>Taskee</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">UuidArrayOfHLAbyte16</a>	<i>The unit that has to execute the task.</i>
<b>Tasker</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">Callsign</a>	<i>Identifies the commander of the task.</i>
<b>StartWhen</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">Datetime18</a>	<i>Time when the task execution has to start.</i>
<b>EndWhen</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">Datetime18</a>	<i>Time when the task execution has to end. 00000000000000.000 means no end time.</i>
<b>Why</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	HLAunicodeString	<i>For what reason has this task to be executed.</i>
<b>TaskType</b> <i>Inherited from LBMLTask in NETN-LBML_v1.1.0</i>	<a href="#">TaskTypeEnum8</a>	<i>Determines how this new task is related to the current task.</i>

### 13.1.22. LBMLTaskManagement

Full Name: HLAinteractionRoot.LBMLMessage.LBMLTaskManagement

Sharing: Subscribe

Transportation type: HLAreliable

Order: Receive

Dimensions:

Semantics: *Task management interactions. For now only used to cancel tasks. Can be extended to reschedule tasks, etc.*

Parameters:

Name	Datatype	Semantics
<b>Taskee</b>	<a href="#">UuidArrayOfHLAbyte16</a>	<i>The unit that has to execute the task.</i>
<b>Tasker</b>	<a href="#">Callsign</a>	<i>Identifies the commander of the task.</i>

### 13.1.23. CancelAllTasks

Full Name: HLAinteractionRoot.LBMLMessage.LBMLTaskManagement.CancelAllTasks

Sharing: Publish/Subscribe

Transportation type: HLAreliable

Order: Receive

Dimensions:

Semantics: *Cancel all tasks. Tasks already started have to be aborted immediately.*

Parameters:

Name	Datatype	Semantics
<b>Taskee</b> <i>Inherited from LBMLTaskManagement in NETN-LBML_v1.1.0</i>	<a href="#">UuidArrayOfHLAbyte16</a>	<i>The unit that has to execute the task.</i>
<b>Tasker</b> <i>Inherited from LBMLTaskManagement in NETN-LBML_v1.1.0</i>	<a href="#">Callsign</a>	<i>Identifies the commander of the task.</i>

### 13.1.24. CancelSpecifiedTasks

Full Name: HLAinteractionRoot.LBMLMessage.LBMLTaskManagement.CancelSpecifiedTasks

Sharing: Publish/Subscribe

Transportation type: HLAreliable

Order: Receive

Dimensions:

Semantics: *Cancel all specified tasks. Tasks already started have to be aborted immediately.*

Parameters:

Name	Datatype	Semantics
<b>Tasks</b>	<a href="#">ArrayOfTaskIds</a>	<i>Tasks that have to be cancelled.</i>
<b>Taskee</b> <i>Inherited from LBMLTaskManagement in NETN-LBML_v1.1.0</i>	<a href="#">UuidArrayOfHLAbyte16</a>	<i>The unit that has to execute the task.</i>
<b>Tasker</b> <i>Inherited from LBMLTaskManagement in NETN-LBML_v1.1.0</i>	<a href="#">Callsign</a>	<i>Identifies the commander of the task.</i>

### 13.1.25. LBMLReport

Full Name: HLAinteractionRoot.LBMLMessage.LBMLReport

Sharing: Subscribe

Transportation type: HLAREliable

Order: Receive

Dimensions:

Semantics: *An interaction for sending reports from a simulation framework (e.g. VR-Forces) to a BML agent framework.*

Parameters:

Name	Datatype	Semantics
<b>When</b>	<a href="#">Datetime18</a>	<i>Date and time when the reported status was valid.</i>
<b>Comments</b>	HLAunicodeString	<i>Any additional comments</i>

### 13.1.26. StatusReport

Full Name: HLAinteractionRoot.LBMLMessage.LBMLReport.StatusReport

Sharing: Subscribe

Transportation type: HLAREliable

Order: Receive

Dimensions:



**Semantics:** *Status report from a friendly unit about its own (perceived) state. The C2 agent shall base its low level BML tasks on this perceived truth data of blue units instead of RPR ground truth data, although for blue units perceived and ground truth data might be the same (but not necessarily).*

**Parameters:**

Name	Datatype	Semantics
<b>Unit</b>	<a href="#">UuidArrayOfHLAbyte16</a>	<i>The unit that is reported about.</i>
<b>When</b> <i>Inherited from LBMLReport in NETN-LBML_v1.1.0</i>	<a href="#">Datetime18</a>	<i>Date and time when the reported status was valid.</i>
<b>Comments</b> <i>Inherited from LBMLReport in NETN-LBML_v1.1.0</i>	HLAUnicodeString	<i>Any additional comments</i>

### 13.1.27. TaskStatusReport

**Full Name:** HLAinteractionRoot.LBMLMessage.LBMLReport.StatusReport.TaskStatusReport

**Sharing:** Publish/Subscribe

**Transportation type:** HLAReliable

**Order:** Receive

**Dimensions:**

**Semantics:** *A report about the status of a task the unit was ordered to execute.*

**Parameters:**

Name	Datatype	Semantics
<b>Task</b>	<a href="#">TaskId</a>	<i>Identifies the task associated with the task report.</i>
<b>TaskStatus</b>	<a href="#">TaskStatusEnum32</a>	<i>Indicates the evaluation status of the task.</i>
<b>Unit</b> <i>Inherited from StatusReport in NETN-LBML_v1.1.0</i>	<a href="#">UuidArrayOfHLAbyte16</a>	<i>The unit that is reported about.</i>
<b>When</b> <i>Inherited from LBMLReport in NETN-LBML_v1.1.0</i>	<a href="#">Datetime18</a>	<i>Date and time when the reported status was valid.</i>
<b>Comments</b> <i>Inherited from LBMLReport in NETN-LBML_v1.1.0</i>	HLAUnicodeString	<i>Any additional comments</i>

### 13.1.28. PositionStatusReport

Full Name: HLAIinteractionRoot.LBMLMessage.LBMLReport.StatusReport.PositionStatusReport

Sharing: Publish/Subscribe

Transportation type: HLAREliable

Order: Receive

Dimensions:

Semantics: *Report about the position, speed, and heading of the unit.*

Parameters:

Name	Datatype	Semantics
<b>Position</b>	WorldLocationStruct	<i>Position of the unit at the specified time.</i>
<b>Heading</b>	AngleRadianFloat32	<i>Heading of the unit.</i>
<b>Speed</b>	VelocityMeterPerSecondFloat32	<i>Speed of the unit.</i>
<b>Unit</b> <i>Inherited from StatusReport in NETN-LBML_v1.1.0</i>	<a href="#">UuidArrayOfHLAByte16</a>	<i>The unit that is reported about.</i>
<b>When</b> <i>Inherited from LBMLReport in NETN-LBML_v1.1.0</i>	<a href="#">Datetime18</a>	<i>Date and time when the reported status was valid.</i>
<b>Comments</b> <i>Inherited from LBMLReport in NETN-LBML_v1.1.0</i>	HLAUnicodeString	<i>Any additional comments</i>

### 13.1.29. DamageStatusReport

Full Name: HLAIinteractionRoot.LBMLMessage.LBMLReport.StatusReport.DamageStatusReport

Sharing: Publish/Subscribe

Transportation type: HLAREliable

Order: Receive

Dimensions:

Semantics: *Represents a report from an unit that has been damaged or destroyed.*

Parameters:

Name	Datatype	Semantics
<b>DamageType</b>	<a href="#">DamageStatusEnhancedEnum32</a>	<i>Damage state of the reported unit.</i>
<b>Unit</b> <i>Inherited from StatusReport in NETN-LBML_v1.1.0</i>	<a href="#">UuidArrayOfHLAByte16</a>	<i>The unit that is reported about.</i>

Name	Datatype	Semantics
<b>When</b> <i>Inherited from LBMLReport in NETN-LBML_v1.1.0</i>	<a href="#">Datetime18</a>	<i>Date and time when the reported status was valid.</i>
<b>Comments</b> <i>Inherited from LBMLReport in NETN-LBML_v1.1.0</i>	HLAunicodeString	<i>Any additional comments</i>

### 13.1.30. FuelStatusReport

Full Name: HLAinteractionRoot.LBMLMessage.LBMLReport.StatusReport.FuelStatusReport

Sharing: Publish/Subscribe

Transportation type: HLAreliable

Order: Receive

Dimensions:

Semantics: *Report about the amount of fuel the unit has left. FuelType is a string since it is still experimental.*

Parameters:

Name	Datatype	Semantics
<b>FuelType</b>	HLAunicodeString	<i>The type of fuel</i>
<b>FuelPercentage</b>	PercentFloat32	<i>The amount of fuel the unit has not yet used, in percentages.</i>
<b>Unit</b> <i>Inherited from StatusReport in NETN-LBML_v1.1.0</i>	<a href="#">UuidArrayOfHLAbyte16</a>	<i>The unit that is reported about.</i>
<b>When</b> <i>Inherited from LBMLReport in NETN-LBML_v1.1.0</i>	<a href="#">Datetime18</a>	<i>Date and time when the reported status was valid.</i>
<b>Comments</b> <i>Inherited from LBMLReport in NETN-LBML_v1.1.0</i>	HLAunicodeString	<i>Any additional comments</i>

### 13.1.31. AmmunitionStatusReport

Full Name: HLAinteractionRoot.LBMLMessage.LBMLReport.StatusReport.AmmunitionStatusReport

Sharing: Publish/Subscribe

Transportation type: HLAreliable

Order: Receive

Dimensions:

Semantics: *Report about the amount of ammunition the unit has left.*

Parameters:

Name	Datatype	Semantics
<b>AmmunitionType</b>	EntityTypeStruct	<i>The type of ammunition.</i>
<b>AmmunitionPercentage</b>	PercentFloat32	<i>The amount of ammunition the entity has not yet used in percentages.</i>
<b>Unit</b> <i>Inherited from StatusReport in NETN-LBML_v1.1.0</i>	<a href="#">UuidArrayOfHLAbyte16</a>	<i>The unit that is reported about.</i>
<b>When</b> <i>Inherited from LBMLReport in NETN-LBML_v1.1.0</i>	<a href="#">Datetime18</a>	<i>Date and time when the reported status was valid.</i>
<b>Comments</b> <i>Inherited from LBMLReport in NETN-LBML_v1.1.0</i>	HLAunicodeString	<i>Any additional comments</i>

### 13.1.32. UnderAttackStatusReport

Full Name: HLAinteractionRoot.LBMLMessage.LBMLReport.StatusReport.UnderAttackStatusReport

Sharing: Publish/Subscribe

Transportation type: HLAreliable

Order: Receive

Dimensions:

Semantics: *Report that the unit is under attack.*

Parameters:

Name	Datatype	Semantics
<b>FromDirection</b>	AngleRadianFloat32	<i>Direction from which the unit is attacked.</i>
<b>Severeness</b>	<a href="#">AttackTypeEnum32</a>	<i>Severeness of the attack upon the reporting unit.</i>
<b>Unit</b> <i>Inherited from StatusReport in NETN-LBML_v1.1.0</i>	<a href="#">UuidArrayOfHLAbyte16</a>	<i>The unit that is reported about.</i>
<b>When</b> <i>Inherited from LBMLReport in NETN-LBML_v1.1.0</i>	<a href="#">Datetime18</a>	<i>Date and time when the reported status was valid.</i>
<b>Comments</b> <i>Inherited from LBMLReport in NETN-LBML_v1.1.0</i>	HLAunicodeString	<i>Any additional comments</i>

### 13.1.33. ActivityStatusReport

Full Name: HLAinteractionRoot.LBMLMessage.LBMLReport.StatusReport.ActivityStatusReport

Sharing: Subscribe

Transportation type: HLAreliable

Order: Receive

Dimensions:

Semantics: *Base class for an activity report (absolute truth).*

Parameters:

Name	Datatype	Semantics
<b>EntitiesInvolved</b>	<a href="#">ArrayOfUuid</a>	<i>Reference to entities involved in a particular activity.</i>
<b>TimeLeftToCompletion</b>	Float64	<i>Amount of time (if known) to completion of activity. 0 if unknown.</i>
<b>Activity</b>	HLAunicodeString	<i>A application specific description of the task since different CGF's / simulators are capable of executing different task types which may not fall neatly into those defined in the AggregateMissionEnum16.</i>
<b>ActivityType</b>	<a href="#">AggregateMissionEnum16</a>	<i>Provide a universally understood summary of the activity using the aggregate mission enum (for compatability)</i>
<b>Unit</b> <i>Inherited from StatusReport in NETN-LBML_v1.1.0</i>	<a href="#">UuidArrayOfHLAbyte16</a>	<i>The unit that is reported about.</i>
<b>When</b> <i>Inherited from LBMLReport in NETN-LBML_v1.1.0</i>	<a href="#">Datetime18</a>	<i>Date and time when the reported status was valid.</i>
<b>Comments</b> <i>Inherited from LBMLReport in NETN-LBML_v1.1.0</i>	HLAunicodeString	<i>Any additional comments</i>

### 13.1.34. CurrentActivityStatusReport

Full Name: HLAinteractionRoot.LBMLMessage.LBMLReport.StatusReport.ActivityStatusReport.CurrentActivityStatusReport

Sharing: Publish/Subscribe

Transportation type: HLAreliable

Order: Receive

Dimensions:

Semantics:

Parameters:

Name	Datatype	Semantics
<b>ElapsedTaskTime</b>	Float64	<i>Time entity has been performing task.</i>
<b>TaskExecutionStatus</b>	HLAunicodeString	<i>Includes more specific information about the current task state (application specific) or sub-states within the task.</i>
<b>EntitiesInvolved</b> <i>Inherited from ActivityStatusReport in NETN-LBML_v1.1.0</i>	<a href="#">ArrayOfUuid</a>	<i>Reference to entities involved in a particular activity.</i>
<b>TimeLeftToCompletion</b> <i>Inherited from ActivityStatusReport in NETN-LBML_v1.1.0</i>	Float64	<i>Amount of time (if known) to completion of activity. 0 if unknown.</i>
<b>Activity</b> <i>Inherited from ActivityStatusReport in NETN-LBML_v1.1.0</i>	HLAunicodeString	<i>A application specific description of the task since different CGF's / simulators are capable of executing different task types which may not fall neatly into those defined in the AggregateMissionEnum16.</i>
<b>ActivityType</b> <i>Inherited from ActivityStatusReport in NETN-LBML_v1.1.0</i>	<a href="#">AggregateMissionEnum16</a>	<i>Provide a universally understood summary of the activity using the aggregate mission enum (for compatability)</i>
<b>Unit</b> <i>Inherited from StatusReport in NETN-LBML_v1.1.0</i>	<a href="#">UuidArrayOfHLAbyte16</a>	<i>The unit that is reported about.</i>
<b>When</b> <i>Inherited from LBMLReport in NETN-LBML_v1.1.0</i>	<a href="#">Datetime18</a>	<i>Date and time when the reported status was valid.</i>
<b>Comments</b> <i>Inherited from LBMLReport in NETN-LBML_v1.1.0</i>	HLAunicodeString	<i>Any additional comments</i>

### 13.1.35. NextActivityStatusReport

Full Name: HLAinteractionRoot.LBMLMessage.LBMLReport.StatusReport.ActivityStatusReport.NextActivityStatusReport

Sharing: Publish/Subscribe

Transportation type: HLAreliable

Order: Receive

Dimensions:

Semantics:

Parameters:

Name	Datatype	Semantics
<b>StartCondition</b>	<a href="#">TaskStartConditionEnum8</a>	
<b>TimeToStart</b>	Float64	
<b>EntitiesInvolved</b> <i>Inherited from ActivityStatusReport in NETN-LBML_v1.1.0</i>	<a href="#">ArrayOfUuid</a>	<i>Reference to entities involved in a particular activity.</i>
<b>TimeLeftToCompletion</b> <i>Inherited from ActivityStatusReport in NETN-LBML_v1.1.0</i>	Float64	<i>Amount of time (if known) to completion of activity. 0 if unknown.</i>
<b>Activity</b> <i>Inherited from ActivityStatusReport in NETN-LBML_v1.1.0</i>	HLAunicodeString	<i>A application specific description of the task since different CGF's / simulators are capable of executing different task types which may not fall neatly into those defined in the AggregateMissionEnum16.</i>
<b>ActivityType</b> <i>Inherited from ActivityStatusReport in NETN-LBML_v1.1.0</i>	<a href="#">AggregateMissionEnum16</a>	<i>Provide a universally understood summary of the activity using the aggregate mission enum (for compatability)</i>
<b>Unit</b> <i>Inherited from StatusReport in NETN-LBML_v1.1.0</i>	<a href="#">UuidArrayOfHLAbyte16</a>	<i>The unit that is reported about.</i>
<b>When</b> <i>Inherited from LBMLReport in NETN-LBML_v1.1.0</i>	<a href="#">Datetime18</a>	<i>Date and time when the reported status was valid.</i>
<b>Comments</b> <i>Inherited from LBMLReport in NETN-LBML_v1.1.0</i>	HLAunicodeString	<i>Any additional comments</i>

### 13.1.36. SpotReport

Full Name: HLAinteractionRoot.LBMLMessage.LBMLReport.SpotReport

Sharing: Publish/Subscribe

Transportation type: HLAreliable

Order: Receive

Dimensions:

Semantics: *Spot reports are one-time reports used by all units to transmit intelligence or information about a spotted enemy, neutral, or unknown unit. The C2 agent shall base its low level BML tasks on this perceived truth data on non friendly / unknown units instead of RPR ground truth data. UnitType, EquipmentType, and Activity are strings since they are still experimental.*

Parameters:

Name	Datatype	Semantics
<b>Observer</b>	<a href="#">UuidArrayOfHLAbyte16</a>	<i>Unit that observed the enemy (or neutral/unknown unit) and sends the spot report.</i>
<b>IdentificationLevel</b>	<a href="#">IdentificationLevelEnum8</a>	<i>The identification level of the unit(s) spotted.</i>
<b>ForceIdentifier</b>	<a href="#">PerceivedForceIdentifierEnum32</a>	<i>Force Id of the spotted unit(s) as assumed by the observer.</i>
<b>Position</b>	WorldLocationStruct	<i>Position of the spotted unit at the specified time.</i>
<b>NumberOfUnits</b>	Integer32	<i>Number of spotted units.</i>
<b>UnitType</b>	EntityTypeStruct	<i>Description of the units spotted. Subfields can be 0 if unknown, depending on the identification level.</i>
<b>NumberOfEquipments</b>	Integer32	<i>Number of spotted enemy equipments.</i>
<b>EquipmentType</b>	EntityTypeStruct	<i>Description of the equipments spotted. Subfields can be 0 if unknown, depending on the identification level.</i>
<b>When</b> <i>Inherited from LBMLReport in NETN-LBML_v1.1.0</i>	<a href="#">Datetime18</a>	<i>Date and time when the reported status was valid.</i>
<b>Comments</b> <i>Inherited from LBMLReport in NETN-LBML_v1.1.0</i>	HLAunicodeString	<i>Any additional comments</i>

### 13.1.37. ActivitySpotReport

Full Name: HLAinteractionRoot.LBMLMessage.LBMLReport.SpotReport.ActivitySpotReport

Sharing: Subscribe

Transportation type: HLAreliable

Order: Receive

Dimensions:

Semantics: *The information here is based on perception information which is determined from situation awareness, intel or potentially instinct.*

Parameters:

Name	Datatype	Semantics
<b>EntitiesInvolved</b>	<a href="#">ArrayOfUuid</a>	<i>Entities involved in the perceived activity.</i>
<b>TimeLeftToCompletion</b>	Float64	
<b>Activity</b>	HLAunicodeString	<i>Description of the activity of the enemy spotted.</i>
<b>ActivityType</b>	<a href="#">AggregateMissionEnum16</a>	<i>Perceived activities are engaged in.</i>



Name	Datatype	Semantics
<b>Observer</b> <i>Inherited from SpotReport in NETN-LBML_v1.1.0</i>	<a href="#">UuidArrayOfHLAbyte16</a>	<i>Unit that observed the enemy (or neutral/unknown unit) and sends the spot report.</i>
<b>IdentificationLevel</b> <i>Inherited from SpotReport in NETN-LBML_v1.1.0</i>	<a href="#">IdentificationLevelEnum8</a>	<i>The identification level of the unit(s) spotted.</i>
<b>ForceIdentifier</b> <i>Inherited from SpotReport in NETN-LBML_v1.1.0</i>	<a href="#">PerceivedForceIdentifierEnum32</a>	<i>Force Id of the spotted unit(s) as assumed by the observer.</i>
<b>Position</b> <i>Inherited from SpotReport in NETN-LBML_v1.1.0</i>	WorldLocationStruct	<i>Position of the spotted unit at the specified time.</i>
<b>NumberOfUnits</b> <i>Inherited from SpotReport in NETN-LBML_v1.1.0</i>	Integer32	<i>Number of spotted units.</i>
<b>UnitType</b> <i>Inherited from SpotReport in NETN-LBML_v1.1.0</i>	EntityTypeStruct	<i>Description of the units spotted. Subfields can be 0 if unknown, depending on the identification level.</i>
<b>NumberOfEquipments</b> <i>Inherited from SpotReport in NETN-LBML_v1.1.0</i>	Integer32	<i>Number of spotted enemy equipments.</i>
<b>EquipmentType</b> <i>Inherited from SpotReport in NETN-LBML_v1.1.0</i>	EntityTypeStruct	<i>Description of the equipments spotted. Subfields can be 0 if unknown, depending on the identification level.</i>
<b>When</b> <i>Inherited from LBMLReport in NETN-LBML_v1.1.0</i>	<a href="#">Datetime18</a>	<i>Date and time when the reported status was valid.</i>
<b>Comments</b> <i>Inherited from LBMLReport in NETN-LBML_v1.1.0</i>	HLAUnicodeString	<i>Any additional comments</i>

### 13.1.38. CurrentActivitySpotReport

Full Name: HLAinteractionRoot.LBMLMessage.LBMLReport.SpotReport.ActivitySpotReport.CurrentActivitySpotReport

Sharing: Publish/Subscribe

Transportation type: HLAReliable

Order: Receive

Dimensions:

Semantics:

Parameters:

Name	Datatype	Semantics
<b>ElapsedTaskTime</b>	Float64	<i>Perceived time the task started if known. 0 if unknown.</i>
<b>TaskExecutionStatus</b>	HLAunicodeString	<i>Perceived exeuction status.</i>
<b>EntitiesInvolved</b> <i>Inherited from ActivitySpotReport in NETN-LBML_v1.1.0</i>	<a href="#">ArrayOfUuid</a>	<i>Entities involved in the perceived activity.</i>
<b>TimeLeftToCompletion</b> <i>Inherited from ActivitySpotReport in NETN-LBML_v1.1.0</i>	Float64	
<b>Activity</b> <i>Inherited from ActivitySpotReport in NETN-LBML_v1.1.0</i>	HLAunicodeString	<i>Description of the activity of the enemy spotted.</i>
<b>ActivityType</b> <i>Inherited from ActivitySpotReport in NETN-LBML_v1.1.0</i>	<a href="#">AggregateMissionEnum16</a>	<i>Perceived activities are engaged in.</i>
<b>Observer</b> <i>Inherited from SpotReport in NETN-LBML_v1.1.0</i>	<a href="#">UuidArrayOfHLAbyte16</a>	<i>Unit that observed the enemy (or neutral/unknown unit) and sends the spot report.</i>
<b>IdentificationLevel</b> <i>Inherited from SpotReport in NETN-LBML_v1.1.0</i>	<a href="#">IdentificationLevelEnum8</a>	<i>The identification level of the unit(s) spotted.</i>
<b>ForceIdentifier</b> <i>Inherited from SpotReport in NETN-LBML_v1.1.0</i>	<a href="#">PerceivedForceIdentifierEnum32</a>	<i>Force Id of the spotted unit(s) as assumed by the observer.</i>
<b>Position</b> <i>Inherited from SpotReport in NETN-LBML_v1.1.0</i>	WorldLocationStruct	<i>Position of the spotted unit at the specified time.</i>
<b>NumberOfUnits</b> <i>Inherited from SpotReport in NETN-LBML_v1.1.0</i>	Integer32	<i>Number of spotted units.</i>
<b>UnitType</b> <i>Inherited from SpotReport in NETN-LBML_v1.1.0</i>	EntityTypeStruct	<i>Description of the units spotted. Subfields can be 0 if unknown, depending on the identification level.</i>
<b>NumberOfEquipments</b> <i>Inherited from SpotReport in NETN-LBML_v1.1.0</i>	Integer32	<i>Number of spotted enemy equipments.</i>
<b>EquipmentType</b> <i>Inherited from SpotReport in NETN-LBML_v1.1.0</i>	EntityTypeStruct	<i>Description of the equipments spotted. Subfields can be 0 if unknown, depending on the identification level.</i>
<b>When</b> <i>Inherited from LBMLReport in NETN-LBML_v1.1.0</i>	<a href="#">Datetime18</a>	<i>Date and time when the reported status was valid.</i>
<b>Comments</b> <i>Inherited from LBMLReport in NETN-LBML_v1.1.0</i>	HLAunicodeString	<i>Any additional comments</i>

**13.1.39. NextActivitySpotReport**

Full Name: HLAinteractionRoot.LBMLMessage.LBMLReport.SpotReport.ActivitySpotReport.NextActivitySpotReport

Sharing: Publish/Subscribe

Transportation type: HLAreliable

Order: Receive

Dimensions:

Semantics:

Parameters:

Name	Datatype	Semantics
<b>StartCondition</b>	<a href="#">TaskStartConditionEnum8</a>	
<b>TimeToStart</b>	Float64	
<b>EntitiesInvolved</b> <i>Inherited from ActivitySpotReport in NETN-LBML_v1.1.0</i>	<a href="#">ArrayOfUuid</a>	<i>Entities involved in the perceived activity.</i>
<b>TimeLeftToCompletion</b> <i>Inherited from ActivitySpotReport in NETN-LBML_v1.1.0</i>	Float64	
<b>Activity</b> <i>Inherited from ActivitySpotReport in NETN-LBML_v1.1.0</i>	HLAunicodeString	<i>Description of the activity of the enemy spotted.</i>
<b>ActivityType</b> <i>Inherited from ActivitySpotReport in NETN-LBML_v1.1.0</i>	<a href="#">AggregateMissionEnum16</a>	<i>Perceived activities are engaged in.</i>
<b>Observer</b> <i>Inherited from SpotReport in NETN-LBML_v1.1.0</i>	<a href="#">UuidArrayOfHLAbyte16</a>	<i>Unit that observed the enemy (or neutral/unknown unit) and sends the spot report.</i>
<b>IdentificationLevel</b> <i>Inherited from SpotReport in NETN-LBML_v1.1.0</i>	<a href="#">IdentificationLevelEnum8</a>	<i>The identification level of the unit(s) spotted.</i>
<b>ForceIdentifier</b> <i>Inherited from SpotReport in NETN-LBML_v1.1.0</i>	<a href="#">PerceivedForceIdentifierEnum32</a>	<i>Force Id of the spotted unit(s) as assumed by the observer.</i>
<b>Position</b> <i>Inherited from SpotReport in NETN-LBML_v1.1.0</i>	WorldLocationStruct	<i>Position of the spotted unit at the specified time.</i>
<b>NumberOfUnits</b> <i>Inherited from SpotReport in NETN-LBML_v1.1.0</i>	Integer32	<i>Number of spotted units.</i>

Name	Datatype	Semantics
<b>UnitType</b> <i>Inherited from SpotReport in NETN-LBML_v1.1.0</i>	EntityTypeStruct	<i>Description of the units spotted. Subfields can be 0 if unknown, depending on the identification level.</i>
<b>NumberOfEquipments</b> <i>Inherited from SpotReport in NETN-LBML_v1.1.0</i>	Integer32	<i>Number of spotted enemy equipments.</i>
<b>EquipmentType</b> <i>Inherited from SpotReport in NETN-LBML_v1.1.0</i>	EntityTypeStruct	<i>Description of the equipments spotted. Subfields can be 0 if unknown, depending on the identification level.</i>
<b>When</b> <i>Inherited from LBMLReport in NETN-LBML_v1.1.0</i>	<a href="#">Datetime18</a>	<i>Date and time when the reported status was valid.</i>
<b>Comments</b> <i>Inherited from LBMLReport in NETN-LBML_v1.1.0</i>	HLAunicodeString	<i>Any additional comments</i>

### 13.1.40. InSensorReport

Full Name: HLAinteractionRoot.LBMLMessage.LBMLReport.SpotReport.InSensorReport

Sharing: Publish/Subscribe

Transportation type: HLAreliable

Order: Receive

Dimensions:

Semantics:

Parameters:

Name	Datatype	Semantics
<b>SensorType</b>	EntityTypeStruct	
<b>SensedEntities</b>	<a href="#">ArrayOfUuid</a>	
<b>Observer</b> <i>Inherited from SpotReport in NETN-LBML_v1.1.0</i>	<a href="#">UuidArrayOfHLAbyte16</a>	<i>Unit that observed the enemy (or neutral/unknown unit) and sends the spot report.</i>
<b>IdentificationLevel</b> <i>Inherited from SpotReport in NETN-LBML_v1.1.0</i>	<a href="#">IdentificationLevelEnum8</a>	<i>The identification level of the unit(s) spotted.</i>
<b>ForceIdentifier</b> <i>Inherited from SpotReport in NETN-LBML_v1.1.0</i>	<a href="#">PerceivedForceIdentifierEnum32</a>	<i>Force Id of the spotted unit(s) as assumed by the observer.</i>
<b>Position</b> <i>Inherited from SpotReport in NETN-LBML_v1.1.0</i>	WorldLocationStruct	<i>Position of the spotted unit at the specified time.</i>

Name	Datatype	Semantics
<b>NumberOfUnits</b> <i>Inherited from SpotReport in NETN-LBML_v1.1.0</i>	Integer32	<i>Number of spotted units.</i>
<b>UnitType</b> <i>Inherited from SpotReport in NETN-LBML_v1.1.0</i>	EntityTypeStruct	<i>Description of the units spotted. Subfields can be 0 if unknown, depending on the identification level.</i>
<b>NumberOfEquipments</b> <i>Inherited from SpotReport in NETN-LBML_v1.1.0</i>	Integer32	<i>Number of spotted enemy equipments.</i>
<b>EquipmentType</b> <i>Inherited from SpotReport in NETN-LBML_v1.1.0</i>	EntityTypeStruct	<i>Description of the equipments spotted. Subfields can be 0 if unknown, depending on the identification level.</i>
<b>When</b> <i>Inherited from LBMLReport in NETN-LBML_v1.1.0</i>	<a href="#">Datetime18</a>	<i>Date and time when the reported status was valid.</i>
<b>Comments</b> <i>Inherited from LBMLReport in NETN-LBML_v1.1.0</i>	HLAunicodeString	<i>Any additional comments</i>

#### 13.1.41. InWeaponRangeReport

Full Name: HLAinteractionRoot.LBMLMessage.LBMLReport.SpotReport.InWeaponRangeReport

Sharing: Publish/Subscribe

Transportation type: HLAreliable

Order: Receive

Dimensions:

Semantics:

Parameters:

Name	Datatype	Semantics
<b>WeaponType</b>	EntityTypeStruct	
<b>EntitiesInWeaponRange</b>	<a href="#">ArrayOfUuid</a>	
<b>Observer</b> <i>Inherited from SpotReport in NETN-LBML_v1.1.0</i>	<a href="#">UuidArrayOfHLAbyte16</a>	<i>Unit that observed the enemy (or neutral/unknown unit) and sends the spot report.</i>
<b>IdentificationLevel</b> <i>Inherited from SpotReport in NETN-LBML_v1.1.0</i>	<a href="#">IdentificationLevelEnum8</a>	<i>The identification level of the unit(s) spotted.</i>
<b>ForceIdentifier</b> <i>Inherited from SpotReport in NETN-LBML_v1.1.0</i>	<a href="#">PerceivedForceIdentifierEnum32</a>	<i>Force Id of the spotted unit(s) as assumed by the observer.</i>

Name	Datatype	Semantics
<b>Position</b> <i>Inherited from SpotReport in NETN-LBML_v1.1.0</i>	WorldLocationStruct	<i>Position of the spotted unit at the specified time.</i>
<b>NumberOfUnits</b> <i>Inherited from SpotReport in NETN-LBML_v1.1.0</i>	Integer32	<i>Number of spotted units.</i>
<b>UnitType</b> <i>Inherited from SpotReport in NETN-LBML_v1.1.0</i>	EntityTypeStruct	<i>Description of the units spotted. Subfields can be 0 if unknown, depending on the identification level.</i>
<b>NumberOfEquipments</b> <i>Inherited from SpotReport in NETN-LBML_v1.1.0</i>	Integer32	<i>Number of spotted enemy equipments.</i>
<b>EquipmentType</b> <i>Inherited from SpotReport in NETN-LBML_v1.1.0</i>	EntityTypeStruct	<i>Description of the equipments spotted. Subfields can be 0 if unknown, depending on the identification level.</i>
<b>When</b> <i>Inherited from LBMLReport in NETN-LBML_v1.1.0</i>	<a href="#">Datetime18</a>	<i>Date and time when the reported status was valid.</i>
<b>Comments</b> <i>Inherited from LBMLReport in NETN-LBML_v1.1.0</i>	HLAunicodeString	<i>Any additional comments</i>

## ***13.2. Datatypes***

### ***13.2.1. Simple Datatypes***

#### **Counter**

Representation: HLAinteger32BE

Units: NA

Resolution: 1

Accuracy: perfect

Semantics: Counter

## 13.2.2. Enumerated Datatypes

### RulesOfEngagementEnum8

Representation: HLAoctet

Semantics: *Rules of engagment for a simulated unit.*

Enumerator	Value
HoldFire	0
FireAtWill	1
FireWhenFiredUpon	2

### TaskStatusEnum32

Representation: HLAinteger32BE

Semantics: *The status of a task.*

Enumerator	Value
Accepted	0
Refused	1
Aborted	2
Completed	3

### IdentificationLevelEnum8

Representation: HLAoctet

Semantics: *The identification level of an object.*

Enumerator	Value
Lost	0
Detected	1
Classified	2
Identified	3
FullKnowledge	4



**MoveTypeEnum32**

Representation: HLAinteger32BE

Semantics: *CrossCountry: move directly to the destination without taking into account the roads.*  
*OnlyRoads: stay on the roads to get to the closest point to the destination that is still on a road; if there is no road very near to the start (within around 10 meters) there will be no movement at all.*  
*RoadsAndCrossCountry: move to the destination by taking into account the roads; it is allowed to go off the road.*

Enumerator	Value
CrossCountry	0
OnlyRoads	1
RoadsAndCrossCountry	2

**AttackTypeEnum32**

Representation: HLAinteger32BE

Semantics: *The kind of attack by the enemy.*

Enumerator	Value
None	0
Artillery	1
HeavyArtillery	2
Other	3

**AltitudeTypeEnum8**

Representation: HLAoctet

Semantics: *AMSL = Above Mean Sea Level*  
*AGL = Above Ground Level*

Enumerator	Value
AMSL	1
AGL	2

**TaskStartConditionEnum8**

Representation: HLAoctet

Semantics:

Enumerator	Value
OnCompletionOfPrevious	1
AtTime	2

**TaskTypeEnum8**

Representation: HLAoctet

Semantics:

*CancelAllOtherTasks: this new task replaces all other tasks. The current task has to be aborted as soon as possible and the new task can be executed at the start time.*

*AddToTaskList: this new task will be executed after all other tasks with a smaller start time have been completed.*

*InterruptCurrentTask: this new task interrupts the current task or is an adjustment of the current task.*

Enumerator	Value
CancelAllOtherTasks	0
AddToTaskList	1
InterruptCurrentTask	2

**PerceivedForceIdentifierEnum32**

Representation: HLAinteger32BE

Semantics:

Enumerator	Value
Unknown	0
AssumedFriend	1
Friend	2
Neutral	3
Suspect	4
Hostile	5



### 13.2.3. Array Datatypes

#### Datetime18

Element Type: HLAunicodeChar

Cardinality: 18

Encoding: HLAfixedArray

Semantics: *A designation of a specified chronological point measured using Coordinated Universal Time (UTC) ISO 8601:2000 as a standard of reference, constrained to "zero meridian" i.e. Zulu time zone only. This is expressed as a composite field using a compacted ISO notation YYYYMMDDHHMMSS.SSS where YYYY represents a year, MM represents a month in values from 00 to 12, and DD represents a day in values from 00 to 31, HH represents an hour, MM represents a minute, and SS.SSS represents the number of seconds and milliseconds.*

#### ArrayOfTaskIds

Element Type: [TaskId](#)

Cardinality: Dynamic

Encoding: HLAvariableArray

Semantics: *Array of Task Ids.*

### 13.2.4. Fixed Record Datatypes

#### TaskId

Encoding:   HLAfixedRecord  
Semantics:   *Unique identifier for this order.*

Name	Type	Semantic
TaskCounter	<a href="#">Counter</a>	<i>This value shall be incremented by 1 for each sent task.</i>
FederateHandle	HLAhandle	<i>The handle that the federate get when joining the federation.</i>