Project NETN FOM v2.0

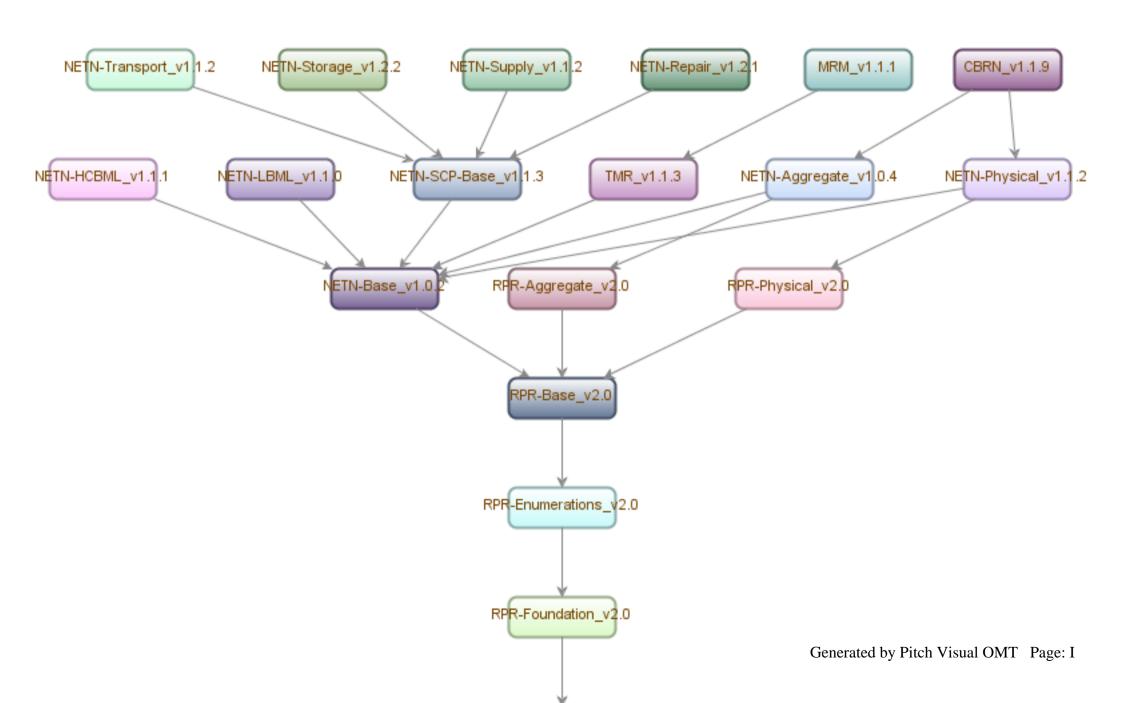


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1. Module NETN-Base_v1.0.2

Information

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

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References

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Dependency	Krk-Dasc_	$V \angle . U$

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
Bombing_Accidental	46
Bombing_Deliberate	47
BoobyTrapDiscovery	48
BorderCrossing_Escorted	49
BorderCrossing_Forced	50
BorderCrossing_Illegal	51
BorderCrossing_Not-Planned	52
BorderCrossing_Planned	53
BorderCrossing_Surveilled	54
BorderIncursion	55
BorderRaid	56
Breaching	57
Build-Up	58
BurnedOutObject	59
Bypass	60
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
CommunicationsActivation	79
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ConductingForwardPassageOfLines	86
ConductingMediaInterview	87
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ConductingRearwardPassageOfLines	89
ConductingRecreationalActivities	90
ConductingRoadService	91
ConductingSocialEvents	92
ConductingSportingEvents	93
Confiscation	94

Enumerator	Value
ConsolidatingOfAPosition	95
Constructing	96
Containing	97
Cooperating	98
CounterAttack	99
CounterAttackByFire	100
Counter-BatteryFire	101
CoupDetat	102
Covering	103
CrimeAgainstHumanity	104
CriminalIncident	105
Crossing	106
Dazzle	107
Death_NaturalCauses	108
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Defending	114
Deflecting	115
Delaying	116
Demolition	117
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
DrugManufacturing_Illegal	131
DrugOperation	132
DrugStorage	133
DrugTransportation	134
EarlyWarningAlert	135
Earthquake	136
ElectionAssociatedViolence	137
ElectronicEmission	138
ElectronicWarfare	139
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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Hiding	169
Hijacking_Boat	170
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
Looting	201
Maintaining	202

Enumerator	Value
Marking	203
MartialLawImplementation	204
MassingOfForces	205
MassiveDeportationOrBanishment	206
MedicalEvacuation	207
MilitaryMobilisation	208
Mine-Laying	209
MissingIndividual	210
MissionStaging	211
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Observing	227
Occupying	228
Oceans_SeasOrWaterPollution	229

Enumerator	Value
OffensiveOrCounteroffensive	230
OrganisedCrime	231
OutbreakOfRacialOrTribalOrEthnicWarfare	232
Patrolling	233
PeaceConference	234
PeaceTreatyAgreement	235
Penetrating	236
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Procuring	245
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ProvidingAccommodation	247
Providing Agricultural Support	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
ProvidingTranshipmentServices	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
Sabotage	293
Screening	294
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ServingAsABreakoutForce	300
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

${\bf Damage Status Enhance dEnum 32}$

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 8-4-4-12 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: HLAvariableArray Semantics: *Array with UUIDs*

NETN_ArrayOfSupplyStruct

Element Type: NETN_SupplyStruct

Cardinality: Dynamic

Encoding: HLAvariableArray

Semantics: Array with NETN SupplyStructs

ArrayOfWorldLocationStruct3

Element Type: WorldLocationStruct

Cardinality: [3..2147483647] Encoding: HLAvariableArray

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	Туре	Semantic
EventCount		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.
IssuingObjectIdentifier	Callsign	Callsign for the entity which issued the event.

NETN_SupplyStruct

Encoding: HLAfixedRecord

Semantics: Same definition as RPR2 SupplyStruct.

Name	Туре	Semantic
SupplyType	EntityTypeStruct	The type of supply (as described in the Bit Encoded Values for Use with Protocols for Distributed Interactive Simulation Applications)
Quantity		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.

2. Module NETN-Aggregate_v1.0.4

Information

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

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References

Dependency	NETN-Base_v1.0
Dependency	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 sematics

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:

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
	<u>ArrayOfResourceStatus</u>	PS	DA	RO	HLAbestEffort				
	Update type	Update Cond	Update Condition						
UnitPersonnel	Conditional	On change							
	Semantics								
	This summarizes the health status of p	personnel co	omprising th	ne aggrega	te.				
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
	HLAunicodeString	PS	DA	RO	HLAbestEffort				
	Update type Update Condition								
Callsign	Static N/A								
	Semantics								
	The name of the object.								
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
	<u>VisualSignatureStruct</u>	PS	DA	RO	HLAbestEffort				
	Update type	Update Cond	lition						
VisualSignature	Conditional	On change							
	Semantics								
	Describes the unit's susceptibility to electro-optical detection.								

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	HLAunicodeString	PS	DA	RO	HLAbestEffort					
	Update type	Update Condition								
SourceUnit	Conditional On change									
	Semantics									
	Aggregate from which this aggregate	was spawn	ed.							
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	<u>MissionStruct</u>	PS	DA	RO	HLAbestEffort					
	Update type	Update Cond	lition							
Mission	Conditional	On change	!							
	Semantics	•								
	The operational task the aggregate has been ordered to perform.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	QuantityFloat64	PS	DA	RO	HLAbestEffort					
	Update type Update Condition									
Mounted	Conditional On change									
	Semantics									
	The percentage of aggregate personnel travelling on or in their organic transport.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	NETN_ArrayOfSupplyStruct	PS	DA	RO	HLAbestEffort					
	Update type	Update Cond	lition							
UnitSupplies	Conditional	On change	!							
	Semantics	•								
	The type and quantities of supplies av	ailable (on	hand) to the	e unit.						
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	<u>UuidArrayOfHLAbyte16</u>	PS	DA	RO	HLAbestEffort					
	Update type	Update Cond	lition							
HigherHeadquarters	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.									

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
	CombatValueFloat64	PS	DA	RO	HLAbestEffort				
	Update type	Update Condition							
CombatValue	Conditional On change								
	Semantics								
	A summary value (in percent) of unit	effectivenes	s based on l	level of trai	ning, leadership, moral, perso	onnel and equipment operational status, etc.			
<u>.</u>	Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
	WeaponControlOrderEnum8	PS	DA	RO	HLAbestEffort				
	Update type	Update Con	dition						
WeaponsControlOrder	Conditional	On change	?						
	Semantics								
	Describes current Weapon Control O	rder Free, '	Tight, or Ho	old.					
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
	<u>SupportRelationshipStruct</u>	PS	DA	RO	HLAbestEffort				
	Update type Update Condition								
SupportUnit	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.								
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
	AggregateMissionEnum16	PS	DA	RO	HLAbestEffort				
	Update type	Update Con	dition						
Activity	Conditional	On change	?						
	Semantics								
	The current activity of the aggregate.	This may d	iffer from th	ne mission d	lue to casualties, readiness, e	tc.			
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
	HLAunicodeString	PS	DA	RO	HLAbestEffort				
	Update type	Update Con	dition						
Symbol	Conditional	On change	?						
	Semantics	•							
	The APP6A code for the aggregate.								
	The Th I off code for the aggregate.								

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	CaptureStatusEnum8	PS	DA	RO	HLAbestEffort					
	Update type	Update Condition								
CaptureStatus	Conditional On change									
	Semantics									
	The status of an aggregate with respect to its control or influence over its own activities.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	<u>ArrayOfResourceStatus</u>	PS	DA	RO	HLAbestEffort					
	Update type	Update Con	dition	•						
UnitEquipment	Conditional	On change	?							
	Semantics	•								
	This summarizes the health status of the equipment comprising the aggregate.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	EchelonEnum8	PS	DA	RO	HLAbestEffort					
	Update type Update Condition									
Echelon	Static N/A									
	Semantics									
	The level of command of the aggregate.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	<u>HUMINTSignatureStruct</u>	PS	DA	RO	HLAbestEffort					
	Update type	Update Con	dition							
HUMINTSignature	Conditional	On change	?							
	Semantics	•								
	Describes the unit's susceptibility to h	uman intell	ligence (HU	MINT), i.e.	information collected and pr	ovided by human sources.				
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	ElectronicSignatureStruct	PS	DA	RO	HLAbestEffort					
	Update type	Update Con	dition							
ElectronicSignature	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.									

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	ArrayOfWorldLocationStruct3	PS	DA	RO	HLAbestEffort					
	Update type	Update Cond	lition							
Footprint	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.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	CoverStatusStruct	PS	DA	RO	HLAbestEffort					
	Update type	Update Cond	lition	•						
CoverStatus	Conditional	On change	!							
	Semantics	•								
	Describes the unit's protection from the effects of weapons fire.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	<u>EntityListVariableLengthStruct</u>	PS	DA	RO	HLAbestEffort					
L	Update type Update Condition									
EntityList	Conditional On change									
	Semantics									
	Provides data on entities comprising	the aggrega	te.							
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	ActiveStatusEnum8	PS	DA	RO	HLAbestEffort					
	Update type	Update Cond	lition							
Status	Conditional	On change	!							
	Semantics									
	If an instance shall be taken into acco	ount by feder	rates							
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	<u>UuidArrayOfHLAbyte16</u>	PS	DA	RO	HLAbestEffort					
	Update type	Update Cond	lition							
UniqueID	Static	NA								
	Semantics									
	The unique identifier of the object.									
	The unique identifier of the object.									

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	ArrayOfUuid	PS	DA	RO	HLAbestEffort					
	Update type	Update Con	Update Condition							
EmbeddedUnitList	Conditional On change									
	Semantics									
	The list of objects carried by this ag	gregate.								
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	AggregateMarkingStruct	PS	DA	RO	HLAbestEffort					
AggregateMarking	Update type	Update Con	dition							
Inherited from AggregateEntity in RPR-	Conditional	Conditional On change								
Aggregate_v2.0	Semantics	Semantics								
	A unique marking or combination of	characters	used to disti	nguish the	aggregate from other agg	gregates.				
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	AggregateStateEnum8	PS	DA	RO	HLAbestEffort					
AggregateState	Update type Update Condition									
Inherited from AggregateEntity in RPR-	Conditional On change									
Aggregate_v2.0	Semantics									
	An indicator of the extent of association of objects form an operating group.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	DimensionStruct	PS	DA	RO	HLAbestEffort					
Dimensions	Update type	Update Con	dition		•	•				
Inherited from AggregateEntity in RPR-	Conditional	AggSizeC	hange							
Aggregate_v2.0	Semantics									
	The size of the area covered by the u	nits in the a	ggregate.							
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RTIobjectIdArray	PS	DA	RO	HLAbestEffort					
EntityIdentifiers	Update type	Update Condition								
Inherited from AggregateEntity in RPR-	Conditional	On change	e							
Aggregate_v2.0	Semantics									
	The identification of entities that are	contained v	vithin the ag	gregate.						

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	ForceIdentifierEnum8	PS	DA	RO	HLAbestEffort					
ForceIdentifier	Update type	odate type Update Condition								
Inherited from AggregateEntity in RPR-	Conditional On change									
Aggregate_v2.0	Semantics									
	The identification of the force that the	aggregate	belongs to.							
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	FormationEnum32	PS	DA	RO	HLAbestEffort					
Formation	Update type	Update Con	dition	•		·				
Inherited from AggregateEntity in RPR-	Conditional	On change	e							
Aggregate_v2.0	Semantics									
	The category of positional arrangeme	ent of the er	itities within	the aggr	egate.					
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	Integer16	PS	DA	RO	HLAbestEffort					
NumberOfSilentEntities	Update type Update Condition									
Inherited from AggregateEntity in RPR-	Conditional On change									
Aggregate_v2.0	Semantics									
	The number of elements in the SilentE	Entities list.								
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	UnsignedInteger32	PS	DA	RO	HLAbestEffort					
NumberOfVariableDatums	Update type	Update Con	dition							
Inherited from AggregateEntity in RPR-	Conditional	On change	e							
Aggregate_v2.0	Semantics									
	The number of records in the VariableDatums structure.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	SilentAggregateStructLengthlessArr ay	PS	DA	RO	HLAbestEffort					
SilentAggregates	Update type	Update Condition								
Inherited from AggregateEntity in RPR-	Conditional	On change	e							
Aggregate_v2.0	Semantics	ı								
	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.									

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
	SilentEntityStructLengthlessArray	PS	DA	RO	HLAbestEffort				
SilentEntities	Update type	Update Condition							
Inherited from AggregateEntity in RPR-	Conditional On change								
Aggregate_v2.0	Semantics	ļ.							
	The numbers and types, of silent entity the virtual world.	ies in the ag	gregate. Si	lent entitie:	s are entities that are in the ag	gregate, but that are not separately represented in			
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
	RTIobjectIdArray	PS	DA	RO	HLAbestEffort				
SubAggregateIdentifiers	Update type	Update Cond	lition						
Inherited from AggregateEntity in RPR-	Conditional	On change							
Aggregate_v2.0	Semantics								
	The identifications of aggregates repr	esented in t	he virtual w	orld that a	re contained in the aggregate				
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
	VariableDatumStructLengthlessArra y	PS	DA	RO	HLAbestEffort				
VariableDatums	Update type Update Condition								
Inherited from AggregateEntity in RPR- Aggregate_v2.0	Conditional On change								
	Semantics								
	Extra data that describes the aggregate.								
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
	EntityTypeStruct	PS	DA	RO	HLAbestEffort				
 EntityType	Update type	Update Cond	dition						
Inherited from BaseEntity in RPR-Base_v2.0	Static	NA							
	Semantics								
	The category of the entity.								
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
	EntityIdentifierStruct	PS	DA	RO	HLAbestEffort				
 EntityIdentifier	Update type	Update Cond	dition						
Inherited from BaseEntity in RPR-Base_v2.0	Static	NA							
	Semantics								
	The unique identifier for the entity ins	tance.							

IsPartOfStruct PS DA RO HLAbestEffort Update type Update Condition Conditional On change Inherited from BaseEntity in RPR-Base_v2.0 Semantics 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		Datatype	Sharing	Ownership	Order	Transportation	Dimensions	
Conditional On change Semantics		IsPartOfStruct		DA	RO	HLAbestEffort		
Semantics 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 Host EntityIdentifier shall be set to the EntityIdentifier of the host entity, and the HostEntityIdentifier 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 the RTI object instance ID of the host entity, and the HostEntityIdentifier shall be set to the RTI object instance ID of the host entity, and the HostEntityIdentifier shall be set to the RTI object instance ID of the host entity, and the HostEntityIdentifier shall be set to the RTI object instance ID of the host entity, and the HostEntity in		Update type	Update Condition					
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 t		Conditional	On change					
HostEntityIdentifier shall be set to the EntityIdentifier of the host entity and the HostEntIobjectIdentifier shall be set to the RTI object instance ID of the host entity is 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. Datatype		Semantics						
Spatial Inherited from BaseEntity in RPR-Base_v2.0 RelativeSpatial Inherited from BaseEntity in RPR-Base_v2.0 Inherited from B		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						
Update type	-	Datatype	Sharing	Ownership	Order	Transportation	Dimensions	
Conditional On change Relative Spatial Semantics		SpatialVariantStruct	PS	DA	RO	HLAbestEffort		
Conditional On change ReproteBase10 ReproteBase11 ReproteBase12 ReproteBase13 ReproteBase14		Update type						
Semantics Spatial state stored in one variant record attribute.		Conditional	On change RPRnoteBase10 RPRnoteBase11 RPRnoteBase12 RPRnoteBase13 RPRnoteBase14					
RelativeSpatial Inherited from BaseEntity in RPR-Base_v2.0 Inherited from BaseEntity in RPR-Base_v2.0 Inherited from BaseEntity in RPR-Base_v2.0 Inherited from HLAobjectRoot in MIM Inherited from BaseEntity in RPR-Base_v2.0 Inherited from HLAobjectRoot in MIM Inhe		Semantics						
RelativeSpatial Inherited from BaseEntity in RPR-Base_v2.0 Inherited from BaseEntity in RPR-Base_v2.0 Inherited from BaseEntity in RPR-Base_v2.0 Inherited from HLAobjectRoot in MIM SpatialVariantStruct PS DA RO HLAbestEffort Update type Update Condition On change RPRnoteBase10 RPRnoteBase12 RPRnoteBase13 RPRnoteBase14 PRRnoteBase13 RPRnoteBase14 PRRnoteBase14 RPRnoteBase13 RPRnoteBase14 PRRnoteBase13 RPRnoteBase14 PRRnoteBase14 RPRnoteBase13 RPRnoteBase14 PRRnoteBase14 RPRnoteBase13 RPRnoteBase14 PRRnoteBase13 RPRnoteBase14 PRRnoteBase13 RPRnoteBase14 PRRnoteBase14 RPRnoteBase13 RPRnoteBase14 PRRnoteBase14 RPRnoteBase13 RPRnoteBase14 PRRnoteBase13 RPRnoteBase14 PRRnoteBase13 RPRnoteBase14 PRRnoteBase14 RPRnoteBase13 RPRnoteBase14 PRRnoteBase13 RPRnoteBase14 PRRnoteBase13 RPRnoteBase13 RPRnoteBase13 RPRnoteBase13 RPRnoteBase13 RPRnoteBase14 PRRnoteBase13 RPRnoteBase13 RPRnoteBa		Spatial state stored in one variant record attribute.						
RelativeSpatial Inherited from BaseEntity in RPR-Base_v2.0 Inherited from BaseEntity in RPR-Base_v2.0 Inherited from BaseEntity in RPR-Base_v2.0 Inherited from HLAobjectRoot in MIM Lipdate type Update Condition On change RPRnoteBase11 RPRnoteBase12 RPRnoteBase13 RPRnoteBase14 On change RPRnoteBase12 RPRnoteBase13 RPRnoteBase14 On change RPRnoteBase12 RPRnoteBase13 RPRnoteBase14 Inherited from BaseEntity in RPR-Base_v2.0 Relative spatial state stored in one variant record attribute. Relative spatial state stored in one variant record attribute. Bataype Sharing Ownership Drder Transportation Dimensions HLAreliable Update type Update Condition Static NA	•	Datatype	Sharing	Ownership	Order	Transportation	Dimensions	
Inherited from BaseEntity in RPR-Base_v2.0 Conditional On change RPRnoteBase10 RPRnoteBase12 RPRnoteBase13 RPRnoteBase14 Semantics Relative spatial state stored in one variant record attribute. Datatype HLAtoken PS DA TS HLAreliable Update type Update Condition Static NA PRenoteBase12 RPRnoteBase13 RPRnoteBase14 RPRnoteBase12 RPRnoteBase13 RPRnoteBase14 RPRnoteBase12 RPRnoteBase13 RPRnoteBase14 RPRnoteBase12 RPRnoteBase13 RPRnoteBase14 Transportation Dimensions HLAreliable Update type Update Condition Static		SpatialVariantStruct	PS	DA	RO	HLAbestEffort		
Inherited from BaseEntity in RPR-Base_v2.0 Conditional On change RPRnoteBase11 RPRnoteBase12 RPRnoteBase13 RPRnoteBase14 Semantics Relative spatial state stored in one variant record attribute. Datatype HLAtoken PS DA TS HLAreliable Update type Update Condition Static NA		Update type	Update Condition					
Semantics Relative spatial state stored in one variant record attribute.		Conditional	On change RPRnoteBase10 RPRnoteBase11 RPRnoteBase12 RPRnoteBase13 RPRnoteBase14					
Datatype Sharing Ownership Order Transportation Dimensions		Semantics						
HLAtoken PS DA TS HLAreliable Update type Update Condition Static NA		Relative spatial state stored in one variant record attribute.						
HLAprivilegeToDeleteObject Inherited from HLAobjectRoot in MIM Update type Update Condition Static NA		Datatype	Sharing	Ownership	Order	Transportation	Dimensions	
Inherited from HLAobjectRoot in MIM Static NA		HLAtoken	PS	DA	TS	HLAreliable		
Inherited from HLAobjectRoot in MIM Static NA		Update type	Update Condition					
		Static NA						
1		Semantics						

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

Support Relationship Enum 8

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

 $Representation: \quad RPR unsigned Integer 32BE$

Semantics: The emission states of aggregate sensors

Enumerator	Value
OnButNotEmitting	2
Off	1
Other	0
OnAndEmitting	3

2.2.3. Array Datatypes

Array Of Resource Status

Element Type: ResourceStatusNumberStruct

Cardinality: [1..2147483647] Encoding: HLAvariableArray

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

ArrayOfEntityStruct

Element Type: EntityStruct

Cardinality: [1..2147483647] Encoding: HLAvariableArray

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

ArrayOfSensorStruct

Element Type: SensorStruct

Cardinality: [1..2147483647] Encoding: HLAvariableArray

Semantics: Array with definitio0ns of sensors, 1+ cardinality

2.2.4. Fixed Record Datatypes

VisualSignatureStruct

Encoding: HLAfixedRecord

Semantics:

Name	Туре	Semantic
DVOSignaturePercent	PercentageUint32	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.
I2SignaturePercent	PercentageUint32	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).
ThermalSignaturePercent	PercentageUint32	A summary percentage of an aggregates susceptibility to detection by thermal sensors. A unit with zero percent signature would be invisible to thermal sensors.

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	Туре	Semantic
StartTime	<u>TimeSecInt64</u>	An optional field providing the mission start time
EndTime	TimeSecInt64	An optional field providing the mission estimated end time
MissionEnum	AggregateMissionEnum16	The mission assigned to the aggregate

SupportRelationshipStruct

HLAfixedRecord Encoding:

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. Semantics:

Name	Туре	Semantic
SupportConsumer	<u>UuidArrayOfHLAbyte16</u>	The unique ID of the consumer of the support.

Name	Туре	Semantic
SupportProvider	<u>UuidArrayOfHLAbyte16</u>	The unique ID of the provider of the support.
SupportType	SupportRelationshipEnum8	The type of support provided by the supporting unit.

HUMINTSignatureStruct

Encoding: HLAfixedRecord

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

human sources.

Name	Туре	Semantic
HUMINTSignaturePercent		A summary percentage of an aggregates susceptibility to detection by human intelligence collectors. Zero percent signature means an aggregate is impervious to HUMINT.

ElectronicSignatureStruct

HLAfixedRecord Encoding:

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

Name	Туре	Semantic
ElectronicSignaturePercent		A summary percentage of an aggregates susceptibility to detection of its electronic emissions. Zero percent means that the aggregate has no electronic emissions.
SensorArray		A list of sensors owned by the aggregate together with their respective operational status and range

CoverStatusStruct

Encoding: HLAfixedRecord

Semantics:

Name	Туре	Semantic
CoverStatusPercent		The percentage of protection enjoyed by an aggregate. A unit with 100 percent cover would be impervious to the effects of weapons fire
CoverTypeEnum		An optional field describing the type of cover employed by the aggregate

Entity List Variable Length Struct

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	Туре	Semantic
UpdateType	<u>UpdateTypeEnum32</u>	Indicates whether this update creates the list or modifies its' values
EntityList	ArrayOfEntityStruct	Data about one or more entities comprising the list.

ResourceStatusNumberStruct

Encoding: HLAfixedRecord

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

Name	Туре	Semantic
NumberHealthyOrIntact	QuantityFloat64	The number of healthy or intact resources
NumberSlightlyDamaged	QuantityFloat64	The number of slightly damaged resources
NumberModeratelyDamaged	QuantityFloat64	The number of moderately damaged resources
NumberSignificantlyDamaged	QuantityFloat64	The number of significantly damaged resources
NumberDestroyed	QuantityFloat64	The number of destroyed or consumed resources
ResourceName	HLAunicodeString	The name of the resource

EntityStruct

Encoding: HLAfixedRecord

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

Name	Туре	Semantic
Callsign	HLAunicodeString	The unique identifier of the object.
EntityCategory	EntityCategoryEnum32	Indicates whether the entity is equipment, person, emitter, etc.
EntityStatus	DamageStatusEnhancedEnum32	The damage state of the entity.
IsDistinctObject	RPRboolean	OPTIONAL. A BaseEntity object has been created to represent this entity (true) or not (false). Default is false.

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

SensorStruct

Encoding: HLAfixedRecord

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

Name	Туре	Semantic
SensorStateEnum	SensorStateEnum32	The operational status of the sensor
SensorDamageState	DamageStatusEnum32	The damage status of the sensor
SensorCoverage	RangeFloat32	The maximum range of the sensor
SensorID	HLAunicodeString	A sensor owned by the aggregate

3. Module NETN-Physical_v1.1.2

Information

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

Primary author Point Of Contact

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References

Dependency	NETN-Base_v1.1
Dependency	RPR2-Physical_v2.0

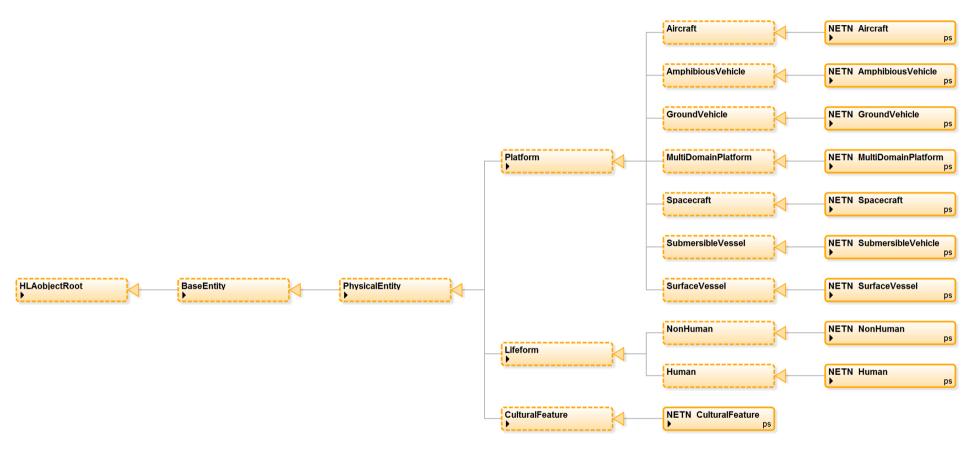
Use History

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

<u> </u>
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:

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

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	UuidArrayOfHLAbyte16	PS		RO	HLAbestEffort						
	Update type	Update Condition									
	Static	NA									
UniqueID	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.										
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	RPRboolean	PS	DA	RO	HLAbestEffort						
AfterburnerOn	Update type Update Condition										
Inherited from Platform in RPR-Physical_v2.0	Conditional On change										
	Semantics										
	Whether the entity's afterburner is on or not.										
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	RPRboolean	PS	DA	RO	HLAbestEffort						
AntiCollisionLightsOn	Update type	Update Con	dition								
Inherited from Platform in RPR-Physical_v2.0	Conditional	On change	?								
	Semantics										
	Whether the entity's anti-collision lights are on or not.										
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	RPRboolean	PS	DA	RO	HLAbestEffort						
BlackOutBrakeLightsOn	Update type	Update Con	dition								
Inherited from Platform in RPR-Physical_v2.0	Conditional	On change	?								
	Semantics										
	Whether the entity's black out brake l.	ights are on	or not.								

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 lights are on or not.										
Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
RPRboolean	PS	DA	RO	HLAbestEffort						
Update type	Update Cond	lition								
Conditional On change										
Semantics On Change										
Whether the entity's brake lights are on or not.										
Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
RPRboolean	PS	DA	RO	HLAbestEffort						
Update type Update Condition										
Conditional On change										
Semantics										
Whether the entity's formation lights are on or not.										
Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
HatchStateEnum32	PS	DA	RO	HLAbestEffort						
Update type	Update Cond	lition								
Conditional	On change									
Semantics										
The state of the entity's (main) hatch.										
Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
RPRboolean	PS	DA	RO	HLAbestEffort						
Update type	Update Cond	lition								
Conditional	On change									
Semantics										
Whether the entity's headlights are on or not.										
	RPRboolean Update type Conditional Semantics Whether the entity's black out lights at Datatype RPRboolean Update type Conditional Semantics Whether the entity's brake lights are of Datatype RPRboolean Update type Conditional Semantics Whether the entity's formation lights at Datatype HatchStateEnum32 Update type Conditional Semantics The state of the entity's (main) hatch. Datatype RPRboolean Update type Conditional Semantics The state of the entity's (main) hatch. Datatype RPRboolean Update type Conditional Semantics Conditional	RPRboolean PS Update type Update Cond Conditional On change Semantics Whether the entity's black out lights are on or not Datatype Sharing RPRboolean PS Update type Update Cond Conditional On change Semantics Whether the entity's brake lights are on or not. Datatype Sharing RPRboolean PS Update type Update Cond Conditional On change Semantics Whether the entity's formation lights are on or not Datatype Sharing RPRboolean PS Update type Update Cond Conditional On change Semantics Whether the entity's formation lights are on or no Datatype Sharing HatchStateEnum32 PS Update type Update Cond Conditional On change Semantics The state of the entity's (main) hatch. Datatype Sharing RPRboolean PS Update type Update Cond Conditional On change RPRboolean PS Update type Update Cond Conditional On change Conditional On change	RPRboolean PS DA Update type Update Condition Conditional On change Semantics Whether the entity's black out lights are on or not. Datatype Sharing Ownership RPRboolean PS DA Update type Update Condition Conditional On change Semantics Whether the entity's brake lights are on or not. Datatype Sharing Ownership RPRboolean PS DA Update type Update Condition Conditional On change Semantics Whether the entity's formation lights are on or not. Datatype Sharing Ownership RPRboolean Update Condition Conditional On change Semantics Whether the entity's formation lights are on or not. Datatype Sharing Ownership HatchStateEnum32 PS DA Update type Update Condition Conditional On change Semantics The state of the entity's (main) hatch. Datatype Sharing Ownership RPRboolean PS DA Update type Update Condition Conditional On change Semantics The state of the entity's (main) hatch. Datatype Sharing Ownership RPRboolean PS DA Update type Update Condition Conditional On change Semantics	RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics Whether the entity's black out lights are on or not. Datatype Sharing Ownership Order RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics Whether the entity's brake lights are on or not. Datatype Sharing Ownership Order RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics Whether the entity's brake lights are on or not. Datatype Sharing Ownership Order RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics Whether the entity's formation lights are on or not. Datatype Sharing Ownership Order HatchStateEnum32 PS DA RO Update type Update Condition Conditional On change Semantics The state of the entity's (main) hatch. Datatype Sharing Ownership Order RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics The state of the entity's (main) hatch. Datatype Sharing Ownership Order RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics	RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Whether the entity's black out lights are on or not. Datatype Sharing Ownership DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Whether the entity's brake lights are on or not. Datatype Sharing Ownership Order Transportation RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Whether the entity's brake lights are on or not. Datatype Sharing Ownership Order Transportation RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Whether the entity's formation lights are on or not. Datatype Sharing Ownership Order Transportation HatchStateEnum32 PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics The state of the entity's (main) hatch. Datatype Sharing Ownership Order Transportation RPRboolean On change Semantics The state of the entity's (main) hatch. Datatype Sharing Ownership Order Transportation RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics The state of the entity's (main) hatch. Datatype Sharing Ownership Order Transportation RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change					

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

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

Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
ArticulatedParameterStructLengthles sArray	PS	DA	RO	HLAbestEffort					
Update type Update Condition									
Conditional On change									
Semantics									
Identification of the visible parts, and	their states	, of the enti	ty which a	re capable of independent mo	tion.				
Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
CamouflageEnum32	PS	DA	RO	HLAbestEffort					
Update type	Update Cond	lition							
Conditional	On change								
Semantics									
The type of camouflage in use (if any).									
Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
DamageStatusEnum32	PS	DA	RO	HLAbestEffort					
Update type Update Condition									
Conditional On change									
Semantics									
The state of damage of the entity.									
Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
RPRboolean	PS	DA	RO	HLAbestEffort					
Update type	Update Cond	lition							
Conditional	On change	!							
Semantics									
Whether the entity's engine is generate	ing smoke o	or not.							
Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
RPRboolean	PS	DA	RO	HLAbestEffort					
Update type	Update Cond	lition							
Conditional	On change								
Semantics									
Whether the entity's main weapon syst	em has bee	n disabled o	or not.						
	SArray Update type Conditional Semantics Identification of the visible parts, and Datatype CamouflageEnum32 Update type Conditional Semantics The type of camouflage in use (if any). Datatype DamageStatusEnum32 Update type Conditional Semantics The state of damage of the entity. Datatype RPRboolean Update type Conditional Semantics Whether the entity's engine is generate Datatype RPRboolean Update type Conditional Semantics Whether the entity's engine is generate Datatype RPRboolean Update type Conditional Semantics Whether the entity's engine is generate Datatype RPRboolean Update type Conditional Semantics	SATTAY Update type Conditional On change Semantics Identification of the visible parts, and their states Datatype CamouflageEnum32 PS Update type Update Conditional On change Semantics The type of camouflage in use (if any). Datatype DamageStatusEnum32 PS Update type Update Conditional On change Semantics The state of damage of the entity. Datatype RPRboolean PS Update type Update Conditional On change Semantics The state of damage of the entity. Datatype RPRboolean PS Update type Update Conditional On change Semantics Whether the entity's engine is generating smoke of Datatype RPRboolean PS Update type Conditional On change Semantics Whether the entity's engine is generating smoke of Datatype RPRboolean PS Update type Update Conditional On change Semantics Update type Update Conditional On change Semantics On change	SARTRAY Update type Update type Conditional On change Semantics Identification of the visible parts, and their states, of the entity Datatype CamouflageEnum32 PS DA Update type Update Condition Conditional On change Semantics The type of camouflage in use (if any). Datatype DamageStatusEnum32 PS DA Update type Update Condition Conditional On change Semantics The state of damage of the entity. Datatype RPRboolean Update type Update Condition Conditional On change Sharing Ownership RPRboolean PS DA Update type Update Condition Conditional On change Semantics Whether the entity's engine is generating smoke or not. Datatype RPRboolean PS DA Update type Update Condition Conditional On change Semantics Whether the entity's engine is generating smoke or not. Datatype RPRboolean PS DA Update Condition Conditional On change Sharing Ownership RPRboolean PS DA Update Condition On change Sharing Ownership RPRboolean PS DA Update Condition Conditional On change	SArray Update type Conditional Conditional Conchange Semantics Identification of the visible parts, and their states, of the entity which a Datatype CamouflageEnum32 PS DA RO Update type Update Condition Conditional Conchange Semantics The type of camouflage in use (if any). Datatype DamageStatusEnum32 PS DA RO Update type Update Condition Conditional On change Semantics The state of damage of the entity. Datatype Sharing Ownership Order Conditional On change Semantics The state of damage of the entity. Datatype RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics Whether the entity's engine is generating smoke or not. Datatype RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics Whether the entity's engine is generating smoke or not. Datatype RPRboolean PS DA RO Update type Update Condition Conditional On change	Update type Update Condition Conditional On change Semantics Identification of the visible parts, and their states, of the entity which are capable of independent mo Datatype Sharing Ownership CamouflageEnum32 PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics The type of camouflage in use (if any). Datatype Sharing Ownership Order Transportation DamageStatusEnum32 PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics The state of damage of the entity. Datatype RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics The state of damage of the entity. Datatype Sharing Ownership Order Transportation HLAbestEffort Update type Update Condition Conditional On change Semantics Update type Update Condition Conditional On change Semantics Whether the entity's engine is generating smoke or not. Datatype Sharing Ownership Order Transportation HLAbestEffort Update type Update Condition Conditional On change Semantics Whether the entity's engine is generating smoke or not. Datatype Sharing Ownership Order Transportation HLAbestEffort Update type Update Condition Conditional On change Semantics				

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	RPRboolean	PS	DA	RO	HLAbestEffort						
FlamesPresent	Update type	Update Cor	ndition								
Inherited from PhysicalEntity in RPR-	Conditional On change										
Physical_v2.0	Semantics										
	Whether the entity is on fire (with visible flames) or not.										
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	ForceIdentifierEnum8	PS	DA	RO	HLAbestEffort						
ForceIdentifier	Update type	Update Cor	ndition	•							
Inherited from PhysicalEntity in RPR-	Conditional On change										
Physical_v2.0	Semantics										
	The identification of the force that	the entity belo	ongs to.								
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	RPRboolean	PS	DA	RO	HLAbestEffort						
HasAmmunitionSupplyCap	Update type Update Condition										
Inherited from PhysicalEntity in RPR-	Conditional	On chang	e								
Physical_v2.0	Semantics										
	Whether the entity has the capabili	ty to supply o	ther entities	with amm	nunition.						
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	RPRboolean	PS	DA	RO	HLAbestEffort						
HasFuelSupplyCap	Update type	Update Cor	ndition		•						
Inherited from PhysicalEntity in RPR-	Conditional	On chang	e								
Physical_v2.0	Semantics										
	Whether the entity has the capability to supply other entities with fuel or not.										
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	RPRboolean	PS	DA	RO	HLAbestEffort						
HasRecoveryCap	Update type	Update Condition									
Inherited from PhysicalEntity in RPR-	Conditional	On chang	e								
Physical_v2.0	Semantics	· ·									
	Whether the entity has the capabili	ty to recover	other entitie	s or not.							
	menter the child, has the capacital to record other childs of hon										

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
HasRepairCap	Update type	Update Con	dition							
Inherited from PhysicalEntity in RPR-	Conditional On change									
Physical_v2.0	Semantics									
	Whether the entity has the capability to repair other entities or not.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
Immobilized	Update type Update Condition									
Inherited from PhysicalEntity in RPR-	Conditional	On change	?							
Physical_v2.0	Semantics									
	Whether the entity is immobilized or n	ot.								
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	Integer16	PS	DA	RO	HLAbestEffort					
InfraredSignatureIndex	Update type	Update Cond	dition							
Inherited from PhysicalEntity in RPR-	Conditional	On change	?							
Physical_v2.0	Semantics									
	Index used to obtain the infra-red sign	iature state	of the entit	у.						
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
IsConcealed	Update type	Update Cond	dition							
Inherited from PhysicalEntity in RPR-	Conditional	On change	?							
Physical_v2.0	Semantics									
	Whether the entity is concealed or not	•								
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	VelocityDecimeterPerSecondInteger 16	PS	DA	RO	HLAbestEffort					
LiveEntityMeasuredSpeed	Update type	Update Con	dition	•						
Inherited from PhysicalEntity in RPR- Physical_v2.0	Conditional	On change	?							
	Semantics									
	The entity's own measurement of spee	d (e.g. air s	peed for air	rcraft).						
	J 1		- *							

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	MarkingStruct	PS	DA	RO	HLAbestEffort					
Marking	Update type	Update Cond	lition							
Inherited from PhysicalEntity in RPR-	Conditional On change									
Physical_v2.0	Semantics									
	A unique marking or combination of o	characters used to distinguish the entity from other entities.								
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
PowerPlantOn	Update type Update Condition									
Inherited from PhysicalEntity in RPR- Physical_v2.0	Conditional	On change								
Fnysical_v2.0	Semantics									
	Whether the entity's power plant is on or not.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
PropulsionSystemsData	PropulsionSystemDataStructLengthl essArray	PS	DA	RO	HLAbestEffort					
	Update type Update Condition									
Inherited from PhysicalEntity in RPR- Physical_v2.0	Conditional On change									
	Semantics									
	The basic operating data of the propulsion systems aboard the entity.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	Integer16	PS	DA	RO	HLAbestEffort					
RadarCrossSectionSignatureIndex	Update type	Update Cond	lition	•						
Inherited from PhysicalEntity in RPR-	Conditional	On change								
Physical_v2.0	Semantics									
	Index used to obtain the radar cross s	ection signa	ature state d	of the entity	<i>y</i> .					
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
SmokePlumePresent	Update type	Update type Update Condition								
Inherited from PhysicalEntity in RPR-	Conditional	On change								
Physical_v2.0	Semantics	1								
	Whether the entity is generating smok	e or not (in	tentional or	unintentio	nal).					
	Themes the charg is generaling smoke of not (intertational).									

Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
RPRboolean	PS	DA	RO	HLAbestEffort					
Update type	Update Cond	dition		1					
Conditional On change									
Semantics									
Whether the entity has deployed tent of	or not.								
Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
TrailingEffectsCodeEnum32	PS	DA	RO	HLAbestEffort					
Update type Update Condition									
Conditional On change									
Semantics									
The type and size of any trail that the entity is making.									
Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
VectoringNozzleSystemDataStructL engthlessArray	PS	DA	RO	HLAbestEffort					
Update type	Update type Update Condition								
Conditional On change									
Semantics									
The basic operational data for the vectoring nozzle systems aboard the entity.									
Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
EntityTypeStruct	PS	DA	RO	HLAbestEffort					
Update type	Update Cond	dition							
Static	NA								
Semantics									
The category of the entity.									
Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
EntityIdentifierStruct	PS	DA	RO	HLAbestEffort					
Update type	Update Cond	dition							
Static	NA								
Semantics	•								
The unique identifier for the entity ins	tance.								
	RPRboolean Update type Conditional Semantics Whether the entity has deployed tent of Datatype TrailingEffectsCodeEnum32 Update type Conditional Semantics The type and size of any trail that the Datatype VectoringNozzleSystemDataStructLengthlessArray Update type Conditional Semantics The basic operational data for the vectority TypeStruct Update type EntityTypeStruct Update type Static Semantics The category of the entity. Datatype EntityIdentifierStruct Update type Static Semantics The semantics The category of the entity. Datatype EntityIdentifierStruct Update type Static Semantics Semantics	RPRboolean Update type Update Com Conditional On change Semantics Whether the entity has deployed tent or not. Datatype TrailingEffectsCodeEnum32 PS Update type Update Conditional On change Semantics The type and size of any trail that the entity is made Datatype Sharing VectoringNozzleSystemDataStructL engthlessArray Update type Update Conditional On change Semantics The basic operational data for the vectoring noza Datatype Sharing EntityTypeStruct PS Update type Update Conditional Semantics The category of the entity. Datatype EntityIdentifierStruct PS Update type Update Conditional Semantics The category of the entity. Datatype EntityIdentifierStruct PS Update type Update Conditional Sharing EntityIdentifierStruct PS Update type Update Conditional Static NA	RPRboolean PS DA Update type Update Condition Conditional On change Semantics Whether the entity has deployed tent or not. Datatype Sharing Ownership TrailingEffectsCodeEnum32 PS DA Update type Update Condition Conditional On change Semantics The type and size of any trail that the entity is making. Datatype Sharing Ownership VectoringNozzleSystemDataStructL engthlessArray Update type Update Condition Conditional On change Semantics The basic operational data for the vectoring nozzle systems of Datatype Sharing Ownership EntityTypeStruct PS DA Update type Update Condition Static NA Semantics The category of the entity. Datatype Sharing Ownership EntityIdentifierStruct PS DA Update Condition Static NA Semantics The Jupdate Condition Static NA Semantics The Update Condition Static NA Semantics The Update Condition Static NA Semantics The Update Condition Static NA	RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics Whether the entity has deployed tent or not. Datatype Sharing Ownership Order TrailingEffectsCodeEnum32 PS DA RO Update type Update Condition Conditional On change Semantics The type and size of any trail that the entity is making. Datatype Sharing Ownership Order VectoringNozzleSystemDataStructL engthlessArray Update type Update Condition Conditional On change Semantics The basic operational data for the vectoring nozzle systems aboard the Datatype Sharing Ownership Order EntityTypeStruct PS DA RO Update type Update Condition Static NA Semantics The category of the entity. Datatype Sharing Ownership Order EntityIdentifierStruct PS DA RO Update type Update Condition Static NA Semantics The category of the entity. Datatype Sharing Ownership Order EntityIdentifierStruct PS DA RO Update type Update Condition Static NA Semantics The category of the entity. Datatype Sharing Ownership Order EntityIdentifierStruct PS DA RO Update type Update Condition Static NA Semantics	RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Whether the entity has deployed tent or not. Datatype Sharing Ownership Order Transportation TrailingEffectsCodeEnum32 PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics The type and size of any trail that the entity is making. Datatype Sharing Ownership Order Transportation VectoringNozzleSystemDataStructL PS DA RO HLAbestEffort update type Update Condition Conditional On change Semantics The basic operational data for the vectoring nozzle systems aboard the entity. Datatype Sharing Ownership Order Transportation WettoringNozzleSystemDataStructL PS DA RO HLAbestEffort update type Update Condition Conditional On change Semantics The basic operational data for the vectoring nozzle systems aboard the entity. Datatype Sharing Ownership Order Transportation EntityTypeStruct PS DA RO HLAbestEffort Update type Update Condition Static NA Semantics The category of the entity. Datatype Sharing Ownership Order Transportation EntityIdentifierStruct PS DA RO HLAbestEffort Update type Update Condition Static NA Semantics				

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	IsPartOfStruct	PS	DA	RO	HLAbestEffort					
	Update type	Update Condition								
 IsPartOf	Conditional	On change								
Inherited from BaseEntity in RPR-Base_v2.0	Semantics									
	HostEntityIdentifier shall be set to the	part of another entity (denoted the host entity). If the entity is a constituent part of another entity then the he EntityIdentifier of the host entity and the HostRTIObjectIdentifier shall be set to the RTI object instance ID of th tituent part of another entity then the HostEntityIdentifier shall be set to 0.0.0 and the HostRTIObjectIdentifier sha								
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	SpatialVariantStruct	PS	DA	RO	HLAbestEffort					
 Spatial	Update type Update Condition									
Inherited from BaseEntity in RPR-Base v2.0	Conditional	On change	RPRnoteBase1	RPRnoteBase	11 RPRnoteBase12 RPRnoteBase13 RPRn	noteBase14				
F	Semantics	•								
	Spatial state stored in one variant record attribute.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	SpatialVariantStruct	PS	DA	RO	HLAbestEffort					
 RelativeSpatial	Update type	Update Con	dition							
Inherited from BaseEntity in RPR-Base v2.0	Conditional	On change	RPRnoteBase1) RPRnoteBase	11 RPRnoteBase12 RPRnoteBase13 RPRn	noteBase14				
	Semantics	•								
	Relative spatial state stored in one va	riant record	d attribute.							
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	HLAtoken	PS	DA	TS	HLAreliable					
HLAprivilegeToDeleteObject	Update type	Update Con	dition	•	•					
Inherited from HLAobjectRoot in MIM	Static	NA								
, , , , , , , , , , , , , , , , , , , ,	Semantics	•								

3.1.2. **NETN_AmphibiousVehicle**

Full Name: HLAobjectRoot.BaseEntity.PhysicalEntity.Platform.AmphibiousVehicle.NETN_AmphibiousVehicle

Sharing: Publish/Subscribe
Semantics: Extensions for NETN

Attributes:

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	HLAunicodeString	PS		RO	HLAbestEffort					
	Update type	Update Condition								
Callsign	Static	N/A								
	Semantics									
	The name of the object.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	ActiveStatusEnum8	PS	DA	RO	HLAbestEffort					
	Update type Update Condition									
Status	Conditional On change									
	Semantics	•								
	If an instance shall be taken into account by federates									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	AggregateMissionEnum16	PS DA RO HLAbestEffort								
	Update type	Update Cond	lition							
Activity	Conditional	On change	!							
	Semantics									
	The activity of the object.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	ArrayOfUuid	PS	DA	RO	HLAbestEffort					
	Update type	Update Cond	dition							
EmbeddedUnitList	Conditional	On change	!							
	Semantics									
	List of unique IDs of on-board elemen	nts								

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	UuidArrayOfHLAbyte16	PS		RO	HLAbestEffort					
	Update type	Update Con	dition	•						
	Static	NA NA								
UniqueID	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.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
AfterburnerOn	Update type Update Condition									
Inherited from Platform in RPR-Physical_v2.0	Conditional	On change	?							
· · · · · · · · · · · · · · · · · · ·	Semantics									
	Whether the entity's afterburner is on	or not.								
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
AntiCollisionLightsOn	Update type	Update Con	dition							
Inherited from Platform in RPR-Physical_v2.0	Conditional	On change	?							
	Semantics									
	Whether the entity's anti-collision lights are on or not.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
 BlackOutBrakeLightsOn	Update type	Update Con	dition							
Inherited from Platform in RPR-Physical_v2.0	Conditional	On change	?							
	Semantics									
	Whether the entity's black out brake la	ights are on	or not.							

Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
RPRboolean	PS	DA	RO	HLAbestEffort					
Update type	Update Cond	lition		1	-				
Conditional	On change								
Semantics									
Whether the entity's black out lights a	re on or not	or not.							
Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
RPRboolean	PS	DA	RO	HLAbestEffort					
Update type Update Condition									
Conditional	On change								
Semantics									
Whether the entity's brake lights are on or not.									
Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
RPRboolean	PS	DA	RO	HLAbestEffort					
Update type Update Condition									
Conditional On change									
Semantics									
Whether the entity's formation lights are on or not.									
Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
HatchStateEnum32	PS	DA	RO	HLAbestEffort					
Update type	Update Cond	lition							
Conditional	On change								
Semantics									
The state of the entity's (main) hatch.									
Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
RPRboolean	PS	DA	RO	HLAbestEffort					
Update type	Update Cond	lition							
Conditional	On change								
Semantics									
Whether the entity's headlights are on or not.									
	RPRboolean Update type Conditional Semantics Whether the entity's black out lights at Datatype RPRboolean Update type Conditional Semantics Whether the entity's brake lights are of Datatype RPRboolean Update type Conditional Semantics Whether the entity's formation lights at Datatype HatchStateEnum32 Update type Conditional Semantics The state of the entity's (main) hatch. Datatype RPRboolean Update type Conditional Semantics The state of the entity's (main) hatch. Datatype RPRboolean Update type Conditional Semantics Conditional	RPRboolean PS Update type Update Cond Conditional On change Semantics Whether the entity's black out lights are on or not Datatype Sharing RPRboolean PS Update type Update Cond Conditional On change Semantics Whether the entity's brake lights are on or not. Datatype Sharing RPRboolean PS Update type Update Cond Conditional On change Semantics Whether the entity's formation lights are on or not Datatype Sharing RPRboolean PS Update type Update Cond Conditional On change Semantics Whether the entity's formation lights are on or no Datatype Sharing HatchStateEnum32 PS Update type Update Cond Conditional On change Semantics The state of the entity's (main) hatch. Datatype Sharing RPRboolean PS Update type Update Cond Conditional On change RPRboolean PS Update type Update Cond Conditional On change Conditional On change	RPRboolean PS DA Update type Update Condition Conditional On change Semantics Whether the entity's black out lights are on or not. Datatype Sharing Ownership RPRboolean PS DA Update type Update Condition Conditional On change Semantics Whether the entity's brake lights are on or not. Datatype Sharing Ownership RPRboolean PS DA Update type Update Condition Conditional On change Semantics Whether the entity's formation lights are on or not. Datatype Sharing Ownership RPRboolean Update Condition Conditional On change Semantics Whether the entity's formation lights are on or not. Datatype Sharing Ownership HatchStateEnum32 PS DA Update type Update Condition Conditional On change Semantics The state of the entity's (main) hatch. Datatype Sharing Ownership RPRboolean PS DA Update type Update Condition Conditional On change Semantics The state of the entity's (main) hatch. Datatype Sharing Ownership RPRboolean PS DA Update type Update Condition Conditional On change Semantics	RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics Whether the entity's black out lights are on or not. Datatype Sharing Ownership Order RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics Whether the entity's brake lights are on or not. Datatype Sharing Ownership Order RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics Whether the entity's brake lights are on or not. Datatype Sharing Ownership Order RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics Whether the entity's formation lights are on or not. Datatype Sharing Ownership Order HatchStateEnum32 PS DA RO Update type Update Condition Conditional On change Semantics The state of the entity's (main) hatch. Datatype Sharing Ownership Order RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics The state of the entity's (main) hatch. Datatype Sharing Ownership Order RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics	RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Whether the entity's black out lights are on or not. Datatype Sharing Ownership DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Whether the entity's brake lights are on or not. Datatype Sharing Ownership Order Transportation RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Whether the entity's brake lights are on or not. Datatype Sharing Ownership Order Transportation RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Whether the entity's formation lights are on or not. Datatype Sharing Ownership Order Transportation HatchStateEnum32 PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics The state of the entity's (main) hatch. Datatype Sharing Ownership Order Transportation RPRboolean On change Semantics The state of the entity's (main) hatch. Datatype Sharing Ownership Order Transportation RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics The state of the entity's (main) hatch. Datatype Sharing Ownership Order Transportation RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change				

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
	RPRboolean	PS	DA	RO	HLAbestEffort				
 InteriorLightsOn	Update type	Update Cond	lition	•	1				
Inherited from Platform in RPR-Physical_v2.0	Conditional	On change							
	Semantics								
	Whether the entity's internal lights are on or not.								
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
	RPRboolean	PS	DA	RO	HLAbestEffort				
 LandingLightsOn	Update type Update Condition								
Inherited from Platform in RPR-Physical_v2.0	Conditional On change								
	Semantics								
	Whether the entity's landing lights are on or not.								
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
LauncherRaised	RPRboolean	PS	DA	RO	HLAbestEffort				
	Update type Update Condition								
	Conditional On change								
	Semantics								
	Whether the entity's weapon launcher is in the raised position.								
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
	RPRboolean	PS	DA	RO	HLAbestEffort				
NavigationLightsOn	Update type	Update Cond	lition						
Inherited from Platform in RPR-Physical_v2.0	Conditional	On change							
	Semantics								
	Whether the entity's navigation lights	are on or n	ot.						
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
	RPRboolean	PS	DA	RO	HLAbestEffort				
RampDeployed	Update type	Update Cond	lition	•	•				
Inherited from Platform in RPR-Physical_v2.0	Conditional	On change							
	Semantics								
	Whether the entity has deployed a ran	np or not.							
	· • • • • • • • • • • • • • • • • • • •								

Running Lights On the plate from Platform in RPR-Physical_v2.0 Datatype Datatype Spot Lights Vipate Condition Datatype Spot Lights Vipate Vipate Condition Spot Lights Vipate Vipate Vipate Condition Datatype RPRboolean Datatype Sharing PS DA RO HLAbestEffort Dimensions Dimensions Dimensions Dimensions Dimensions Conditional On change Semantics Weether the entity's spotlights are on or not. Semantics Weether the entity's spotlights are on or not. Datatype Sharing Datatype Sharing Onder Transportation Dimensions Dimensions		Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
Conditional On change Conditional On change		RPRboolean	PS	DA	RO	HLAbestEffort					
Conditional	RunningLightsOn	Update type	Update Con	dition							
Semantics Whether the entity's running lights are on or not. PS DA RO HLAbestEffort Plantage PS DA PS DA PS PS PS PS PS PS PS P		Conditional On change									
Datatype Sharing Ownership Order Transportation Dimensions	, , , , , , , , , , , , , , , , , , ,	Semantics									
SpotLightSOn Inherited from Platform in RPR-Physical 20 Inherited from Platform in RPR-Physical 20 Integer I G Integer I G I ConditionalSharing I Ownership I Day I Sharing I Day I Sharing I Day I Day I Day I Day I RPR-Physical 20 I Day I Day I ConditionalI Transportation I		Whether the entity's running lights are	e on or not.								
SpotLightsOn Inherited from Platform in RPR-Physical 2-12 Conditional On change Condi		Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
Conditional On change		RPRboolean	PS	DA	RO	HLAbestEffort					
Inherited from Platform in RPR-Physical 20 Conditional On change Conditional Continue	SpotLightsOn	Update type Update Condition									
Herited from Physical Entity in RPR- Physical Form Physical Entity in	•	Conditional	On change	?							
Datatype PS DA RO HLAbestEffort	, , , , , , , , , , , , , , , , , , , ,	Semantics									
TailLightsOn Inherited from Platforn in RPR-Physical 2^{10} Inherited from Platforn in RPR-Physical 2^{10} Inherited from Platforn in RPR-Physical 2^{10} Integer I of ConditionalPSDAROHLAbestEffortHLAbestEffortAcoustic Signature Index Inherited from Physical Entity in RPR-Physical 2^{10} Physical 2^{10} Index used to obtain the acoustics (south through start in the acoustics (south through start in signature in the entity.)Ownership order Inherited from Physical Entity in RPR-Physical 2^{10} Index used to obtain the acoustics (south through start) signature state of the entity.DimensionsIndex used to obtain the acoustics (south through start) signature state of the entity.DimensionsIndex used to obtain the acoustics (south through start) signature state of the entity.DimensionsIndex used to obtain the acoustics (south through start) signature state of the entity.DimensionsIndex used to obtain the acoustics (south through start) signature state of the entity.Dimensions		Whether the entity's spotlights are on or not.									
PailLightsOn Inherited from Platform in RPR-Physical_220 Conditional Condition		Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
Conditional On change Semantics Whether the entity's tail lights are on or not. On change Integer 16 On change		RPRboolean	PS	DA	RO	HLAbestEffort					
Semantics Semantics Whether the entity's tail lights are on or not.		Update type Update Condition									
Whether the entity's tail lights are on or not. Whether the entity's tail lights are on or not.		Conditional On change									
Datatype Sharing Ownership Order Transportation Dimensions		Semantics									
AcousticSignatureIndexInteger 16PSDAROHLAbestEffortInherited from PhysicalEntity in RPR-Physical_v2.0ConditionalOn changeSemanticsIndex used to obtain the acoustics (sound through air) signature state of the entity.Index used to obtain the acoustics (sound through air) signature state of the entity.EntityTypeStructPSDAROHLAbestEffort		Whether the entity's tail lights are on or not.									
AcousticSignatureIndex Inherited from PhysicalEntity in RPR- Physical_v2.0 Conditional On change Semantics Index used to obtain the acoustics (sound through air) signature state of the entity. Datatype EntityTypeStruct PS DA RO HLAbestEffort		Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
Inherited from PhysicalEntity in RPR- Physical_v2.0 Conditional Semantics Index used to obtain the acoustics (sound through air) signature state of the entity. Datatype EntityTypeStruct PS DA RO HLAbestEffort		Integer16	PS	DA	RO	HLAbestEffort					
Physical_v2.0 Semantics Index used to obtain the acoustics (sound through air) signature state of the entity. Datatype EntityTypeStruct PS DA RO HLAbestEffort	AcousticSignatureIndex	Update type	Update Con	dition							
Semantics Index used to obtain the acoustics (sound through air) signature state of the entity. Datatype Sharing Ownership Order Transportation Dimensions EntityTypeStruct PS DA RO HLAbestEffort		Conditional	On change	?							
DatatypeSharingOwnershipOrderTransportationDimensionsEntityTypeStructPSDAROHLAbestEffort	Fnysicai_v2.0	Semantics									
EntityTypeStruct PS DA RO HLAbestEffort		Index used to obtain the acoustics (so	und through	h air) signa	ture state o	f the entity.					
· · · · ·		Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
AT A TO A		EntityTypeStruct	PS	DA	RO	HLAbestEffort					
AlternateEntityType Update type Update Condition	AlternateEntityType	Update type	Update Con	dition	•						
Inherited from PhysicalEntity in RPR- Physical 22.0 Static NA		Static	NA								
Physical_v2.0 Semantics	rnysicat_v2.0	Semantics									
The category of entity to be used when viewed by entities on the 'opposite' side.		The category of entity to be used when	The category of entity to be used when viewed by entities on the 'opposite' side.								

ArticulatedParametersArray ArticulatedParametersArray Inherited from PhysicalEntity in RPR- Physical_v2.0 Datatype Update type Update type Conditional Semantics Identification of the visible parts, and their state Datatype CamouflageEnum32 PS CamouflageType Inherited from PhysicalEntity in RPR- Physical_v2.0 Conditional On characteristic parts On characteristic parts CamouflageInum32 CamouflageInum32 On characteristic parts Camoufl	es, of the enti	RO ty which a Order RO	HLAbestEffort are capable of independent Transportation HLAbestEffort	nt motion. Dimensions							
Inherited from PhysicalEntity in RPR- Physical_v2.0 Conditional Conditional Conditional Conditional Identification of the visible parts, and their state Datatype CamouflageEnum32 PS CamouflageType Inherited from PhysicalEntity in RPR- Conditional Conditional On chart	es, of the enti	Order	Transportation								
Physical_v2.0 Conditional On charge Semantics Identification of the visible parts, and their state Datatype Sharing CamouflageEnum32 PS CamouflageType Update type Update C Inherited from PhysicalEntity in RPR- Conditional On charge	es, of the ent	Order	Transportation								
Semantics Identification of the visible parts, and their state Datatype Sharing CamouflageEnum32 PS CamouflageType Update type Update Conditional On characterists in RPR-	Ownership DA ondition	Order	Transportation								
Datatype Sharing CamouflageEnum32 PS CamouflageType Update type Update C Inherited from PhysicalEntity in RPR- Conditional On char.	Ownership DA ondition	Order	Transportation								
CamouflageEnum32 PS CamouflageType Update type Update C Inherited from PhysicalEntity in RPR- Conditional On char.	DA ondition			Dimensions							
CamouflageType Update type Update type Update type Unherited from PhysicalEntity in RPR- Conditional On char	ondition	RO	HLAbestEffort								
Inherited from PhysicalEntity in RPR- Conditional On characteristics		1		,							
	ge										
			Conditional On change								
Semantics	Semantics										
The type of camouflage in use (if any).	The type of camouflage in use (if any).										
Datatype Sharing	Ownership	Order	Transportation	Dimensions							
DamageStatusEnum32 PS	DA	RO	HLAbestEffort								
DamageState Update type Update C	Update type Update Condition										
	Conditional On change										
Physical_v2.0 Semantics	Semantics										
The state of damage of the entity.	The state of damage of the entity.										
Datatype Sharing	Ownership	Order	Transportation	Dimensions							
RPRboolean PS	DA	RO	HLAbestEffort								
EngineSmokeOn Update type Update C	ondition										
Inherited from PhysicalEntity in RPR-Physical_v2.0 Conditional On characteristic Conditional	ge										
Semantics	Semantics										
Whether the entity's engine is generating smok	e or not.										
Datatype Sharing	Ownership	Order	Transportation	Dimensions							
RPRboolean PS	DA	RO	HLAbestEffort								
FirePowerDisabled Update type Update C	Update type Update Condition										
Inherited from PhysicalEntity in RPR-Physical_v2.0 Conditional On characteristics of the Conditional C	ge										
Semantics Semantics		· · · · · · · · · · · · · · · · · · ·									
Whether the entity's main weapon system has b	een disabled	or not.									

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
	RPRboolean	PS	DA	RO	HLAbestEffort				
FlamesPresent	Update type	Update Cor	ndition						
Inherited from PhysicalEntity in RPR-	Conditional On change								
Physical_v2.0	Semantics								
	Whether the entity is on fire (with v	entity is on fire (with visible flames) or not.							
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
	ForceIdentifierEnum8	PS	DA	RO	HLAbestEffort				
ForceIdentifier	Update type Update Condition								
Inherited from PhysicalEntity in RPR-	Conditional On change								
Physical_v2.0	Semantics	Semantics							
	The identification of the force that	the entity belo	ongs to.						
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
	RPRboolean	PS	DA	RO	HLAbestEffort				
HasAmmunitionSupplyCap	Update type Update Condition								
Inherited from PhysicalEntity in RPR-	Conditional On change								
Physical_v2.0	Semantics								
	Whether the entity has the capability to supply other entities with ammunition.								
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
	RPRboolean	PS	DA	RO	HLAbestEffort				
HasFuelSupplyCap	Update type	Update Cor	ndition		•				
Inherited from PhysicalEntity in RPR-	Conditional	On chang	e						
Physical_v2.0	Semantics								
	Whether the entity has the capabili	ty to supply o	ther entities	with fuel	or not.				
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
	RPRboolean	PS	DA	RO	HLAbestEffort				
HasRecoveryCap	Update type	Update Cor	ndition	•					
Inherited from PhysicalEntity in RPR-	Conditional	On chang	e						
Physical_v2.0	Semantics	· ·							
	Whether the entity has the capabili	ty to recover	other entitie	s or not.					
	memer me emmy has me capability to recover other emmes or not.								

	Datatype Sharing Ownership Order Transportation Dimensions									
	RPRboolean	PS	DA	RO	HLAbestEffort	Difficusions				
HasBanainCan				RO	TILAUCSTEITOIT					
HasRepairCap	Update type	Update Cond								
Inherited from PhysicalEntity in RPR- Physical_v2.0	Conditional On change									
	Semantics									
	Whether the entity has the capability									
	Datatype	Sharing	•	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
Immobilized	Update type Update Condition									
Inherited from PhysicalEntity in RPR-	Conditional On change									
Physical_v2.0	Semantics	•								
	Whether the entity is immobilized or not.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	Integer16	PS	DA	RO	HLAbestEffort					
InfraredSignatureIndex	Update type Update Condition									
Inherited from PhysicalEntity in RPR- Physical_v2.0	Conditional On change									
Fnysicai_v2.0	Semantics									
	Index used to obtain the infra-red signature state of the entity.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
IsConcealed	Update type	Update Cond	dition							
Inherited from PhysicalEntity in RPR-	Conditional	On change	?							
Physical_v2.0	Semantics	•								
	Whether the entity is concealed or not	t.								
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	VelocityDecimeterPerSecondInteger 16	PS	DA	RO	HLAbestEffort					
LiveEntityMeasuredSpeed	Update type	Update Cond	dition	•	•					
Inherited from PhysicalEntity in RPR- Physical_v2.0	Conditional	On change	!							
	Semantics									
	The entity's own measurement of speed (e.g. air speed for aircraft).									
			. ,	· · ·						

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	MarkingStruct	PS	DA	RO	HLAbestEffort					
Marking	Update type	Update Cond	lition							
Inherited from PhysicalEntity in RPR-	Conditional On change									
Physical_v2.0	Semantics									
	A unique marking or combination of o	characters used to distinguish the entity from other entities.								
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
PowerPlantOn	Update type Update Condition									
Inherited from PhysicalEntity in RPR- Physical_v2.0	Conditional	On change								
Fnysical_v2.0	Semantics									
	Whether the entity's power plant is on or not.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
PropulsionSystemsData	PropulsionSystemDataStructLengthl essArray	PS	DA	RO	HLAbestEffort					
	Update type Update Condition									
Inherited from PhysicalEntity in RPR- Physical_v2.0	Conditional On change									
	Semantics									
	The basic operating data of the propulsion systems aboard the entity.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	Integer16	PS	DA	RO	HLAbestEffort					
RadarCrossSectionSignatureIndex	Update type	Update Cond	lition	•						
Inherited from PhysicalEntity in RPR-	Conditional	On change								
Physical_v2.0	Semantics									
	Index used to obtain the radar cross s	ection signa	ature state d	of the entity	<i>y</i> .					
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
SmokePlumePresent	Update type	Update type Update Condition								
Inherited from PhysicalEntity in RPR-	Conditional	On change								
Physical_v2.0	Semantics	1								
	Whether the entity is generating smok	e or not (in	tentional or	unintentio	nal).					
	Themes the charg is generaling smoke of not (intertational).									

Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
RPRboolean	PS	DA	RO	HLAbestEffort				
Update type	Update Condition							
Conditional	On change							
Semantics								
Whether the entity has deployed tent or not.								
Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
TrailingEffectsCodeEnum32	PS	DA	RO	HLAbestEffort				
Update type	Update Condition							
Conditional On change								
Semantics								
The type and size of any trail that the entity is making.								
Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
VectoringNozzleSystemDataStructL engthlessArray	PS	DA	RO	HLAbestEffort				
Update type Update Condition								
Conditional On change								
Semantics								
The basic operational data for the vectoring nozzle systems aboard the entity.								
Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
EntityTypeStruct	PS	DA	RO	HLAbestEffort				
Update type	type Update Condition							
ratic NA								
Semantics								
The category of the entity.								
Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
EntityIdentifierStruct	PS	DA	RO	HLAbestEffort				
Update type	Update Condition							
Static NA								
Semantics								
The unique identifier for the entity instance.								
	RPRboolean Update type Conditional Semantics Whether the entity has deployed tent of Datatype TrailingEffectsCodeEnum32 Update type Conditional Semantics The type and size of any trail that the Datatype VectoringNozzleSystemDataStructLengthlessArray Update type Conditional Semantics The basic operational data for the vectorityTypeStruct Update type EntityTypeStruct Update type Static Semantics The category of the entity. Datatype EntityIdentifierStruct Update type Static Semantics The semantics The category of the entity. Datatype EntityIdentifierStruct Update type Static Semantics Semantics	RPRboolean PS Update type Update Cond Conditional On change Semantics Whether the entity has deployed tent or not. Datatype Sharing TrailingEffectsCodeEnum32 PS Update type Update Cond Conditional On change Semantics The type and size of any trail that the entity is mad Datatype Sharing VectoringNozzleSystemDataStructL engthlessArray Update type Update Cond Conditional On change Semantics The basic operational data for the vectoring nozz Datatype Sharing EntityTypeStruct PS Update type Update Cond Static NA Semantics The category of the entity. Datatype Sharing EntityIdentifierStruct PS Update type Update Cond Static NA Semantics The category of the entity. Datatype Sharing EntityIdentifierStruct PS Update type Update Cond Static NA Semantics	RPRboolean PS DA Update type Update Condition Conditional On change Semantics Whether the entity has deployed tent or not. Datatype Sharing Ownership Trailing Effects Code Enum 32 PS DA Update type Update Condition Conditional On change Semantics The type and size of any trail that the entity is making. Datatype Sharing Ownership Vectoring Nozzle System Data Struct Lengthless Array Update type Update Condition Conditional On change Semantics The basic operational data for the vectoring nozzle systems of Datatype Sharing Ownership Entity Type Struct PS DA Update type Update Condition Static NA Semantics The category of the entity. Datatype Sharing Ownership Entity Identifier Struct PS DA Update Condition Static NA Semantics The category of the entity. Datatype Sharing Ownership Entity Identifier Struct PS DA Update Condition Static NA Semantics The category of the entity. Datatype Update Condition Static NA Semantics The category of the entity. Datatype Update Condition Static NA	RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics Whether the entity has deployed tent or not. Datatype Sharing Ownership Order TrailingEffectsCodeEnum32 PS DA RO Update type Update Condition Conditional On change Semantics The type and size of any trail that the entity is making. Datatype Sharing Ownership Order VectoringNozzleSystemDataStructL engthlessArray Update type Update Condition Conditional On change Semantics The basic operational data for the vectoring nozzle systems aboard the Datatype Sharing Ownership Order EntityTypeStruct PS DA RO Update type Update Condition Static NA Semantics The category of the entity. Datatype Sharing Ownership Order EntityIdentifierStruct PS DA RO Update Condition Static NA Semantics The possible of the entity. Datatype Sharing Ownership Order EntityIdentifierStruct PS DA RO Update Condition Static NA Semantics The category of the entity. Datatype Sharing Ownership Order EntityIdentifierStruct PS DA RO Update Condition Static NA Semantics	RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Whether the entity has deployed tent or not. Datatype Sharing Ownership Order Transportation TrailingEffectsCodeEnum32 PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics The type and size of any trail that the entity is making. Datatype Sharing Ownership Order Transportation VectoringNozzleSystemDataStructL PS DA RO HLAbestEffort Update type Update type Update Condition On change Semantics The type and size of any trail that the entity is making. Datatype Sharing Ownership Order Transportation VectoringNozzleSystemDataStructL PS DA RO HLAbestEffort Update type Update type Update Condition On change Semantics The basic operational data for the vectoring nozzle systems aboard the entity. Datatype Sharing Ownership Order Transportation EntityTypeStruct PS DA RO HLAbestEffort Update type Update Condition Static NA Semantics The category of the entity. Datatype Sharing Ownership Order Transportation EntityIdentifierStruct PS DA RO HLAbestEffort Update type Update Condition Static NA Semantics The category of the entity.			

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

3.1.3. **NETN_GroundVehicle**

Full Name: HLAobjectRoot.BaseEntity.PhysicalEntity.Platform.GroundVehicle.NETN_GroundVehicle

Sharing: Publish/Subscribe
Semantics: Extensions for NETN

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	HLAunicodeString	PS		RO	HLAbestEffort					
	Update type	Update Cond	dition	•						
Callsign	Static	NA NA								
	Semantics	•								
	The name of the object.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	ActiveStatusEnum8	PS	DA	RO	HLAbestEffort					
	Update type Update Condition									
Status	Conditional On change									
	Semantics									
	If an instance shall be taken into account by federates									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	AggregateMissionEnum16	PS	DA	RO	HLAbestEffort					
	Update type	Update Cond	dition							
Activity	Conditional	On change	?							
	Semantics	•								
	The activity of the object.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	ArrayOfUuid	PS	DA	RO	HLAbestEffort					
	Update type	Update Cond	dition							
EmbeddedUnitList	Conditional	On change	?							
	Semantics									
	List of unique IDs of on-board elemer	ıts								

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	UuidArrayOfHLAbyte16	PS		RO	HLAbestEffort						
	Update type	Update Con	dition	•							
	Static	NA									
UniqueID	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.										
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	RPRboolean	PS	DA	RO	HLAbestEffort						
AfterburnerOn	Update type Update Condition										
Inherited from Platform in RPR-Physical_v2.0	Conditional On change										
	Semantics										
	Whether the entity's afterburner is on or not.										
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	RPRboolean	PS	DA	RO	HLAbestEffort						
AntiCollisionLightsOn	Update type	Update Con	dition								
Inherited from Platform in RPR-Physical_v2.0	Conditional	On change	?								
	Semantics										
	Whether the entity's anti-collision lights are on or not.										
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	RPRboolean	PS	DA	RO	HLAbestEffort						
 BlackOutBrakeLightsOn	Update type	Update Con	dition								
Inherited from Platform in RPR-Physical_v2.0	Conditional	On change	?								
	Semantics										
	Whether the entity's black out brake la	ights are on	or not.								

Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
RPRboolean	PS	DA	RO	HLAbestEffort					
Update type	Update Cond	lition		1	-				
Conditional	On change								
Semantics									
Whether the entity's black out lights are on or not.									
Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
RPRboolean	PS	DA	RO	HLAbestEffort					
Update type Update Condition									
Conditional	On change								
Semantics									
Whether the entity's brake lights are on or not.									
Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
RPRboolean	PS	DA	RO	HLAbestEffort					
Update type Update Condition									
Conditional On change									
Semantics									
Whether the entity's formation lights are on or not.									
Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
HatchStateEnum32	PS	DA	RO	HLAbestEffort					
Update type	Update Cond	lition							
Conditional	On change								
Semantics									
The state of the entity's (main) hatch.									
Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
RPRboolean	PS	DA	RO	HLAbestEffort					
Update type	Update Cond	lition							
Conditional	On change								
Semantics									
Whether the entity's headlights are on	or not.								
	RPRboolean Update type Conditional Semantics Whether the entity's black out lights at Datatype RPRboolean Update type Conditional Semantics Whether the entity's brake lights are of Datatype RPRboolean Update type Conditional Semantics Whether the entity's formation lights at Datatype HatchStateEnum32 Update type Conditional Semantics The state of the entity's (main) hatch. Datatype RPRboolean Update type Conditional Semantics The state of the entity's (main) hatch. Datatype RPRboolean Update type Conditional Semantics Conditional	RPRboolean PS Update type Update Conditional On change Semantics Whether the entity's black out lights are on or not Datatype Sharing RPRboolean PS Update type Update Conditional On change Semantics Whether the entity's brake lights are on or not. Datatype Sharing RPRboolean PS Update type Update Conditional On change RPRboolean PS Update type Update Conditional On change Semantics Whether the entity's formation lights are on or no Datatype Sharing HatchStateEnum32 PS Update type Update Conditional On change Semantics The state of the entity's (main) hatch. Datatype Sharing RPRboolean PS Update type Update Conditional On change Semantics The state of the entity's (main) hatch. Datatype Sharing RPRboolean PS Update type Update Conditional On change	RPRboolean PS DA Update type Update Condition Conditional On change Semantics Whether the entity's black out lights are on or not. Datatype Sharing Ownership RPRboolean PS DA Update type Update Condition Conditional On change Semantics Whether the entity's brake lights are on or not. Datatype Sharing Ownership RPRboolean PS DA Update type Update Condition Conditional On change Semantics Whether the entity's formation lights are on or not. Datatype Sharing Ownership RPRboolean Update Condition Conditional On change Semantics Whether the entity's formation lights are on or not. Datatype Sharing Ownership HatchStateEnum32 PS DA Update type Update Condition Conditional On change Semantics The state of the entity's (main) hatch. Datatype Sharing Ownership RPRboolean PS DA Update type Update Condition Conditional On change Semantics The state of the entity's (main) hatch. Datatype Sharing Ownership RPRboolean PS DA Update type Update Condition Conditional On change Semantics	RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics Whether the entity's black out lights are on or not. Datatype Sharing Ownership Order RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics Whether the entity's brake lights are on or not. Datatype Sharing Ownership Order RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics Whether the entity's brake lights are on or not. Datatype Sharing Ownership Order RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics Whether the entity's formation lights are on or not. Datatype Sharing Ownership Order HatchStateEnum32 PS DA RO Update type Update Condition Conditional On change Semantics The state of the entity's (main) hatch. Datatype Sharing Ownership Order RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics The state of the entity's (main) hatch. Datatype Sharing Ownership Order RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics	RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Whether the entity's black out lights are on or not. Datatype Sharing Ownership DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Whether the entity's brake lights are on or not. Datatype Sharing Ownership Order Transportation RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Whether the entity's brake lights are on or not. Datatype Sharing Ownership Order Transportation RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Whether the entity's formation lights are on or not. Datatype Sharing Ownership Order Transportation HatchStateEnum32 PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics The state of the entity's (main) hatch. Datatype Sharing Ownership Order Transportation RPRboolean On change Semantics The state of the entity's (main) hatch. Datatype Sharing Ownership Order Transportation RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics The state of the entity's (main) hatch. Datatype Sharing Ownership Order Transportation RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change				

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

RPRboolean					Dimensions				
(PKD00lean	PS	DA	RO	HLAbestEffort					
Jpdate type	Update Cond	ition							
Conditional On change									
Semantics									
Whether the entity's running lights are on or not.									
Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
RPRboolean	PS	DA	RO	HLAbestEffort					
pdate type	Update Cond	ition							
Conditional	On change								
emantics									
Whether the entity's spotlights are on or not.									
Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
RPRboolean	PS	DA	RO	HLAbestEffort					
Update type Update Condition									
Conditional On change									
Semantics									
Whether the entity's tail lights are on or not.									
Patatype	Sharing	Ownership	Order	Transportation	Dimensions				
nteger16	PS	DA	RO	HLAbestEffort					
pdate type	Update Cond	ition							
Conditional	On change								
emantics									
ndex used to obtain the acoustics (sou	ınd through	air) signat	ure state d	of the entity.					
Patatype	Sharing	Ownership	Order	Transportation	Dimensions				
EntityTypeStruct	PS	DA	RO	HLAbestEffort					
pdate type	Update Cond	ition		•	•				
Static	NA								
emantics									
The category of entity to be used when	viewed by	entities on t	the 'oppos	ite' side.					
	onditional mantics Thether the entity's running lights are latatype PRboolean pdate type onditional mantics Thether the entity's spotlights are on contatype PRboolean pdate type onditional mantics Thether the entity's tail lights are on contatype onditional mantics Thether the entity's tail lights are on contatype lateger16 pdate type onditional mantics dex used to obtain the acoustics (sour latatype intityTypeStruct pdate type catic mantics mantics	onditional mantics Thether the entity's running lights are on or not. atatype PRboolean PS Update type Onditional On change mantics Thether the entity's spotlights are on or not. atatype PRboolean PS Update Cond On change PRboolean PS Update type Update Cond On change mantics Thether the entity's tail lights are on or not. atatype Sharing PRboolean PS Update Cond On change mantics Thether the entity's tail lights are on or not. atatype Sharing Atteger16 PS Update type Update Cond On change mantics detex used to obtain the acoustics (sound through atatype IntityTypeStruct PS Update Cond On change Sharing IntityTypeStruct PS Update Cond On change The conditional On c	onditional mantics Thether the entity's running lights are on or not. atatype PRboolean PS DA pdate type Onditional On change Thether the entity's spotlights are on or not. atatype PRboolean PS DA pdate type Onditional On change PRboolean PS DA pdate type Oupdate Condition On change Thether the entity's spotlights are on or not. atatype PRboolean PS DA Update Condition On change Thether the entity's tail lights are on or not. atatype Sharing Ownership PS DA pdate type Update Condition On change treger16 PS DA Update Condition On change The the condition of the condition On change The the condition On chan	conditional Chether the entity's running lights are on or not. Chatatype PRboolean PS DA RO Depart of the entity's synthematics Chether the entity's spotlights are on or not. Chether the entity's tail lights are on or not. Chet	onditional On change mantics Thether the entity's running lights are on or not. statype Sharing Ownership Order Transportation PRboolean PS DA RO HLAbestEffort onditional On change mantics Thether the entity's spotlights are on or not. statype Sharing Ownership Order Transportation PRboolean PS DA RO HLAbestEffort onditional On change onditional On change mantics Thether the entity's tail lights are on or not. statype Update Condition onditional On change mantics Thether the entity's tail lights are on or not. statype Sharing Ownership Order Transportation thether the entity's tail lights are on or not. statype Sharing Ownership Order Transportation thether the entity's tail lights are on or not. statype Sharing Ownership Order Transportation onditional On change mantics dex used to obtain the acoustics (sound through air) signature state of the entity. statype Sharing Ownership Order Transportation the policy of the entity. statype Sharing Ownership Order Transportation thity TypeStruct PS DA RO HLAbestEffort pdate type Update Condition On Change Transportation thity TypeStruct PS DA RO HLAbestEffort pdate type Update Condition On the pdate type Update Condition				

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	ArticulatedParameterStructLengthles sArray	PS	DA	RO	HLAbestEffort					
ArticulatedParametersArray	Update type	Update Cond	dition		1					
Inherited from PhysicalEntity in RPR- Physical_v2.0	Conditional On change									
1.19516111_7215	Semantics									
	Identification of the visible parts, and their states, of the entity which are capable of independent motion.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	CamouflageEnum32	PS	DA	RO	HLAbestEffort					
CamouflageType	Update type	Update Cond	dition		1					
Inherited from PhysicalEntity in RPR-	Conditional	On change	?							
Physical_v2.0	Semantics									
	The type of camouflage in use (if any)									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	DamageStatusEnum32	PS	DA	RO	HLAbestEffort					
DamageState	Update type Update Condition									
Inherited from PhysicalEntity in RPR-	Conditional On change									
Physical_v2.0	Semantics									
	The state of damage of the entity.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
EngineSmokeOn	Update type	Update Cond	dition							
Inherited from PhysicalEntity in RPR-	Conditional	On change	?							
Physical_v2.0	Semantics									
	Whether the entity's engine is generate	ing smoke o	or not.							
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
FirePowerDisabled	Update type	Update Cond	dition							
Inherited from PhysicalEntity in RPR-	Conditional	On change	?							
Physical_v2.0	Semantics									
	Whether the entity's main weapon syst	tem has bee	n disabled	or not.						

Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
RPRboolean	PS	DA	RO	HLAbestEffort						
Update type	Update Con	dition			<u> </u>					
Conditional On change										
Semantics	Semantics									
Whether the entity is on fire (with vis	sible flames)	or not.								
Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
ForceIdentifierEnum8	PS	DA	RO	HLAbestEffort						
Update type Update Condition										
Conditional	On change	ę								
Semantics										
The identification of the force that th	e entity belo	ngs to.								
Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
RPRboolean	PS	DA	RO	HLAbestEffort						
Update type Update Condition										
Conditional On change										
Semantics										
Whether the entity has the capability	to supply of	ther entities	with amm	unition.						
Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
RPRboolean	PS	DA	RO	HLAbestEffort						
Update type	Update Con	dition		•	·					
Conditional	On change	2								
Semantics	•									
Whether the entity has the capability	to supply of	ther entities	with fuel	or not.						
Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
RPRboolean	PS	DA	RO	HLAbestEffort						
Update type	Update Con	dition	•							
Conditional	On change	2								
Semantics										
Whether the entity has the capability	to recover o	other entitie.	s or not.							
	RPRboolean Update type Conditional Semantics Whether the entity is on fire (with vis.) Datatype ForceIdentifierEnum8 Update type Conditional Semantics The identification of the force that the Datatype RPRboolean Update type Conditional Semantics Whether the entity has the capability Datatype RPRboolean Update type Conditional Semantics Whether the entity has the capability Datatype RPRboolean Update type Conditional Semantics Whether the entity has the capability Datatype RPRboolean Update type Conditional Semantics Whether the entity has the capability Datatype RPRboolean Update type Conditional Semantics	RPRboolean Update type Update type Update Con Conditional On change Semantics Whether the entity is on fire (with visible flames) Datatype ForceIdentifierEnum8 PS Update type Update Con Conditional On change Semantics The identification of the force that the entity below Datatype RPRboolean PS Update type Update Con Conditional On change Semantics Whether the entity has the capability to supply on Datatype RPRboolean PS Update type Update Con Conditional On change Semantics Whether the entity has the capability to supply on Conditional On change Semantics Whether the entity has the capability to supply on Conditional Semantics Whether the entity has the capability to supply on Conditional Semantics Whether the entity has the capability to supply on Datatype Sharing RPRboolean PS Update type Update Con Conditional On change Semantics Update type Update Con Conditional On change Semantics	RPRboolean Update type Update Condition Conditional On change Semantics Whether the entity is on fire (with visible flames) or not. Datatype Sharing Conditional On change Semantics Update Condition Conditional On change Semantics The identification of the force that the entity belongs to. Datatype Sharing RPRboolean Update type Update Condition Conditional On change Semantics Whether the entity has the capability to supply other entities Datatype Sharing RPRboolean PS DA Update type Update Condition Conditional On change Semantics Whether the entity has the capability to supply other entities Datatype RPRboolean PS DA Update type Update Condition Conditional On change Semantics Whether the entity has the capability to supply other entities Datatype Sharing Semantics Whether the entity has the capability to supply other entities Datatype Sharing Ownership RPRboolean PS DA Update type Update Condition Conditional On change Semantics	RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics Whether the entity is on fire (with visible flames) or not. Datatype Sharing Ownership Order ForceIdentifierEnum8 PS DA RO Update type Update Condition Conditional On change Semantics The identification of the force that the entity belongs to. Datatype Sharing Ownership Order RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics Whether the entity has the capability to supply other entities with amm Datatype Sharing Ownership Order RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics Whether the entity has the capability to supply other entities with amm Datatype Sharing Ownership Order RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics Whether the entity has the capability to supply other entities with fuel of the properties of the force of the properties of th	RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Whether the entity is on fire (with visible flames) or not. Datatype Sharing Ownership Order Transportation ForceldentifierEnum8 PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics The identification of the force that the entity belongs to. Datatype Sharing Ownership Order Transportation RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Whether the entity has the capability to supply other entities with ammunition. Datatype Sharing Ownership Order Transportation RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Whether the entity has the capability to supply other entities with ammunition. Datatype Sharing Ownership Order Transportation RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Whether the entity has the capability to supply other entities with fuel or not. Datatype Sharing Ownership Order Transportation RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Whether the entity has the capability to supply other entities with fuel or not. Datatype Sharing Ownership Order Transportation RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change					

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort	Difficusions				
HasBanainCan				RO	TILAUCSTEITOIT					
HasRepairCap	Update type	Update Cond								
Inherited from PhysicalEntity in RPR- Physical_v2.0	Conditional On change									
	Semantics									
	Whether the entity has the capability	to repair otl	her entities	or not.						
	Datatype	Sharing	•	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
Immobilized	Update type Update Condition									
Inherited from PhysicalEntity in RPR- Physical_v2.0	Conditional	On change	?							
Semantics Semantics										
	Whether the entity is immobilized or not.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	Integer16	PS	DA	RO	HLAbestEffort					
InfraredSignatureIndex	Update type	Update Cond	dition	•						
Inherited from PhysicalEntity in RPR- Physical_v2.0	Conditional On change									
Fnysicai_v2.0	Semantics									
	Index used to obtain the infra-red sign	Index used to obtain the infra-red signature state of the entity.								
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
IsConcealed	Update type	Update Cond	dition							
Inherited from PhysicalEntity in RPR-	Conditional	On change	?							
Physical_v2.0	Semantics	•								
	Whether the entity is concealed or not	t.								
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	VelocityDecimeterPerSecondInteger 16	PS	DA	RO	HLAbestEffort					
LiveEntityMeasuredSpeed	Update type	Update Cond	dition	•	•					
Inherited from PhysicalEntity in RPR- Physical_v2.0	Conditional	On change	!							
	Semantics									
	The entity's own measurement of speed (e.g. air speed for aircraft).									
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \									

	.	[a			Ten	n					
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	MarkingStruct	PS	DA	RO	HLAbestEffort						
Marking	Update type	Update Cond	lition								
Inherited from PhysicalEntity in RPR- Physical_v2.0	Conditional	On change	! 								
Thysical_v2.0	Semantics										
	A unique marking or combination of characters used to distinguish the entity from other entities.										
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	RPRboolean	PS	DA	RO	HLAbestEffort						
PowerPlantOn	Update type	Update Cond	lition								
Inherited from PhysicalEntity in RPR- Physical_v2.0	Conditional On change										
Frystcat_v2.0	Semantics										
	Whether the entity's power plant is on or not.										
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	PropulsionSystemDataStructLengthl essArray	PS	DA	RO	HLAbestEffort						
PropulsionSystemsData	Update type Update Condition										
Inherited from PhysicalEntity in RPR- Physical_v2.0	Conditional On change										
	Semantics										
	The basic operating data of the propu	lsion systen	ns aboard ti	he entity.							
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	Integer16	PS	DA	RO	HLAbestEffort						
RadarCrossSectionSignatureIndex	Update type	Update Cond	lition								
Inherited from PhysicalEntity in RPR-	Conditional	On change	!								
Physical_v2.0	Semantics										
	Index used to obtain the radar cross s	ection signa	ature state d	of the entity	<i>7.</i>						
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	RPRboolean	PS	DA	RO	HLAbestEffort						
SmokePlumePresent	Update type	Update Cond	lition								
Inherited from PhysicalEntity in RPR-	Conditional	On change	!								
Physical_v2.0	Semantics	•									
	Whether the entity is generating smok	e or not (in	tentional or	unintentio	nal).						

Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
RPRboolean	PS	DA	RO	HLAbestEffort					
Update type	Update Cond	lition							
Conditional	On change								
Semantics									
Whether the entity has deployed tent or not.									
Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
TrailingEffectsCodeEnum32	PS	DA	RO	HLAbestEffort					
Update type Update Condition									
Conditional On change									
Semantics									
The type and size of any trail that the entity is making.									
Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
VectoringNozzleSystemDataStructL engthlessArray	PS	DA	RO	HLAbestEffort					
Update type Update Condition									
Conditional On change									
Semantics									
The basic operational data for the vectoring nozzle systems aboard the entity.									
Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
EntityTypeStruct	PS	DA	RO	HLAbestEffort					
Update type	Update Cond	lition							
Static	NA								
Semantics									
The category of the entity.									
Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
EntityIdentifierStruct	PS	DA	RO	HLAbestEffort					
Update type	Update Cond	lition							
Static	NA								
Semantics									
The unique identifier for the entity ins	tance.								
	RPRboolean Update type Conditional Semantics Whether the entity has deployed tent of Datatype TrailingEffectsCodeEnum32 Update type Conditional Semantics The type and size of any trail that the Datatype VectoringNozzleSystemDataStructLengthlessArray Update type Conditional Semantics The basic operational data for the vectorityTypeStruct Update type EntityTypeStruct Update type Static Semantics The category of the entity. Datatype EntityIdentifierStruct Update type Static Semantics The semantics The category of the entity. Datatype EntityIdentifierStruct Update type Static Semantics Semantics	RPRboolean PS Update type Update Cond Conditional On change Semantics Whether the entity has deployed tent or not. Datatype Sharing TrailingEffectsCodeEnum32 PS Update type Update Cond Conditional On change Semantics The type and size of any trail that the entity is made type Sharing VectoringNozzleSystemDataStructL engthlessArray Update type Update Cond Conditional On change Semantics The basic operational data for the vectoring nozzonatype Sharing EntityTypeStruct PS Update type Update Cond Static NA Semantics The category of the entity. Datatype Sharing EntityIdentifierStruct PS Update Cond Static NA Static NA Static PS Update Cond Static NA	RPRboolean PS DA Update type Update Condition Conditional On change Semantics Whether the entity has deployed tent or not. Datatype Sharing Ownership TrailingEffectsCodeEnum32 PS DA Update type Update Condition Conditional On change Semantics Sharing Ownership VectoringNozzleSystemDataStructL engthlessArray PS DA Update type Update Condition Conditional On change Semantics On change Semantics Interpretational data for the vectoring nozzle systems of Datatype Sharing Ownership EntityTypeStruct PS DA Update type Update Condition Static NA Semantics Sharing Ownership EntityIdentifierStruct PS DA Update type Sharing Ownership EntityIdentifierStruct PS DA Update type Update Condition Static NA Semantics Sharing Ownership EntityIdentifierStruct PS DA Update type Update Condition Static NA	RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics Whether the entity has deployed tent or not. Datatype Sharing Ownership Order TrailingEffectsCodeEnum32 PS DA RO Update type Update Condition Conditional On change Semantics The type and size of any trail that the entity is making. Datatype Sharing Ownership Order VectoringNozzleSystemDataStructL engthlessArray Update type Update Condition Conditional On change Semantics The basic operational data for the vectoring nozzle systems aboard the Datatype Sharing Ownership Order EntityTypeStruct PS DA RO Update type Update Condition Static NA Semantics The category of the entity. Datatype Sharing Ownership Order EntityIdentifierStruct PS DA RO Update Condition Static NA Semantics The category of the entity. Datatype Sharing Ownership Order EntityIdentifierStruct PS DA RO Update Condition Static NA Semantics The category of the entity. Datatype Sharing Ownership Order EntityIdentifierStruct PS DA RO Update Condition Static NA Semantics	RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Whether the entity has deployed tent or not. Datatype Sharing Ownership Order Transportation TrailingEffectsCodeEnum32 PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics The type and size of any trail that the entity is making. Datatype Sharing Ownership Order Transportation PS DA RO HLAbestEffort Update type Update Condition VectoringNozzleSystemDataStruct PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics The basic operational data for the vectoring nozzle systems aboard the entity. Datatype Sharing Ownership Order Transportation PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics The basic operational data for the vectoring nozzle systems aboard the entity. Datatype Sharing Ownership Order Transportation EntityTypeStruct PS DA RO HLAbestEffort Update type Update Condition Static NA Semantics The category of the entity. Datatype Sharing Ownership Order Transportation EntityIdentifierStruct PS DA RO HLAbestEffort Update type Update Condition Static NA Semantics				

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	IsPartOfStruct	PS	DA	RO	HLAbestEffort					
	Update type	Update Cond	dition		1					
IsPartOf	Conditional On change									
Inherited from BaseEntity in RPR-Base_v2.0	Semantics									
	HostEntityIdentifier shall be set to the	o if a constituent part of another entity (denoted the host entity). If the entity is a constituent part of another entity the r shall be set to the EntityIdentifier of the host entity and the HostRTIObjectIdentifier shall be set to the RTI object in tity is not a constituent part of another entity then the HostEntityIdentifier shall be set to 0.0.0 and the HostRTIObje string.								
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	SpatialVariantStruct	PS	DA	RO	HLAbestEffort					
Spatial	Update type Update Condition									
Inherited from BaseEntity in RPR-Base_v2.0	Conditional On change RPRnoteBase10 RPRnoteBase11 RPRnoteBase12 RPRnoteBase13 RPRnoteBase14									
, <u> </u>	Semantics	Semantics								
	Spatial state stored in one variant record attribute.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	SpatialVariantStruct	PS	DA	RO	HLAbestEffort					
RelativeSpatial	Update type	Update Cond	dition							
Inherited from BaseEntity in RPR-Base v2.0	Conditional	On change	RPRnoteBase10) RPRnoteBase ²	1 RPRnoteBase12 RPRnoteBase13 RPRn	oteBase14				
	Semantics									
	Relative spatial state stored in one variant record attribute.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	HLAtoken	PS	DA	TS	HLAreliable					
HLAprivilegeToDeleteObject	Update type	Update Cond	dition							
Inherited from HLAobjectRoot in MIM	Static	NA								
	Semantics	•								

3.1.4. NETN_MultiDomainPlatform

Full Name: HLAobjectRoot.BaseEntity.PhysicalEntity.Platform.MultiDomainPlatform.NETN_MultiDomainPlatform

Sharing: Publish/Subscribe
Semantics: Extensions for NETN

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	HLAunicodeString	PS		RO	HLAbestEffort					
	Update type	Update Cond	lition		1					
Callsign	Static NA									
	Semantics									
	The name of the object.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	ActiveStatusEnum8	PS	DA	RO	HLAbestEffort					
	Update type	Update Cond	lition	•	•					
Status	Conditional On change									
	Semantics									
	If an instance shall be taken into account by federates									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	AggregateMissionEnum16	PS	DA	RO	HLAbestEffort					
	Update type	Update Cond	dition							
Activity	Conditional	On change								
	Semantics	•								
	The activity of the object.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	ArrayOfUuid	PS	DA	RO	HLAbestEffort					
	Update type	Update Cond	dition							
EmbeddedUnitList	Conditional	On change								
	Semantics									
	List of unique IDs of on-board elemen	ıts								

	Datatype Sharing Ownership Order Transportation Dimensions									
	<u>UuidArrayOfHLAbyte16</u>	PS		RO	HLAbestEffort					
	Update type	Update Con	dition	•						
	Static	NA								
UniqueID	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.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
AfterburnerOn	Update type Update Condition									
Inherited from Platform in RPR-Physical_v2.0	Conditional On change									
* * * * * * * * * * * * * * * * * * * *	Semantics	•								
	Whether the entity's afterburner is on or not.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
AntiCollisionLightsOn	Update type	Update Con	dition							
Inherited from Platform in RPR-Physical_v2.0	Conditional On change									
	Semantics									
	Whether the entity's anti-collision lights are on or not.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
 BlackOutBrakeLightsOn	Update type	Update Con	dition	· · · · · · · · · · · · · · · · · · ·						
Inherited from Platform in RPR-Physical_v2.0	Conditional	On change	?							
	Semantics									
	Whether the entity's black out brake la	ights are on	or not.							

Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
RPRboolean	PS	DA	RO	HLAbestEffort						
Update type	Update Cond	lition	•							
Conditional	On change									
Semantics										
Whether the entity's black out lights are on or not.										
Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
RPRboolean	PS	DA	RO	HLAbestEffort						
Update type Update Condition										
Conditional	On change									
Semantics										
Whether the entity's brake lights are on or not.										
Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
RPRboolean	PS	DA	RO	HLAbestEffort						
Update type Update Condition										
Conditional On change										
Semantics										
Whether the entity's formation lights are on or not.										
Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
HatchStateEnum32	PS	DA	RO	HLAbestEffort						
Update type Update Condition										
Conditional	On change									
Semantics										
The state of the entity's (main) hatch.										
Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
RPRboolean	PS	DA	RO	HLAbestEffort						
Update type	Update Cond	lition								
Conditional	On change									
Semantics										
Whether the entity's headlights are on	or not.									
	Update type Conditional Semantics Whether the entity's black out lights at Datatype RPRboolean Update type Conditional Semantics Whether the entity's brake lights are of Datatype RPRboolean Update type Conditional Semantics Whether the entity's formation lights of Datatype HatchStateEnum32 Update type Conditional Semantics The state of the entity's (main) hatch. Datatype RPRboolean Update type Conditional Semantics The state of the entity's (main) hatch. Datatype RPRboolean Update type Conditional Semantics Conditional	RPRboolean PS Update type Update Cond Conditional On change Semantics Whether the entity's black out lights are on or not Datatype Sharing RPRboolean PS Update type Update Cond Conditional On change Semantics Whether the entity's brake lights are on or not. Datatype Sharing RPRboolean PS Update type Update Cond Conditional On change Semantics Whether the entity's formation lights are on or not Datatype Sharing HatchStateEnum32 PS Update type Update Cond Conditional On change Semantics Whether the entity's formation lights are on or not Datatype Sharing HatchStateEnum32 PS Update type Update Cond Conditional On change Semantics The state of the entity's (main) hatch. Datatype Sharing RPRboolean PS Update type Update Cond Conditional On change RPRboolean PS Update type Update Cond Conditional On change	RPRboolean PS DA Update type Update Condition Conditional On change Semantics Whether the entity's black out lights are on or not. Datatype Sharing Ownership RPRboolean PS DA Update type Update Condition Conditional On change Semantics Whether the entity's brake lights are on or not. Datatype Sharing Ownership RPRboolean PS DA Update type Update Condition Conditional On change Semantics Whether the entity's formation lights are on or not. Datatype Sharing Ownership RPRboolean PS DA Update type Update Condition Conditional On change Semantics Whether the entity's formation lights are on or not. Datatype Sharing Ownership HatchStateEnum32 PS DA Update type Update Condition Conditional On change Semantics The state of the entity's (main) hatch. Datatype Sharing Ownership RPRboolean PS DA Update type Update Condition Conditional On change Semantics The state of the entity's (main) hatch. Datatype Sharing Ownership RPRboolean PS DA Update type Update Condition Conditional On change	RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics Whether the entity's black out lights are on or not. Datatype Sharing Ownership Order RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics Whether the entity's brake lights are on or not. Datatype Sharing Ownership Order RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics Whether the entity's brake lights are on or not. Datatype Sharing Ownership Order RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics Whether the entity's formation lights are on or not. Datatype Sharing Ownership Order HatchStateEnum32 PS DA RO Update type Update Condition Conditional On change Semantics The state of the entity's (main) hatch. Datatype Sharing Ownership Order RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics The State of the entity's (main) hatch. Datatype Sharing Ownership Order RPRboolean PS DA RO Update type Update Condition Conditional On change	RPRboolean PS DA RO HLAbestEffort Update type Update Condition					

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

RPRboolean			Datatype Sharing Ownership Order Transportation Dimensions								
(PKD00lean	PS	DA	RO	HLAbestEffort							
Jpdate type	Update Cond	ition									
Conditional On change											
Semantics											
Whether the entity's running lights are on or not.											
Datatype	Sharing	Ownership	Order	Transportation	Dimensions						
RPRboolean	PS	DA	RO	HLAbestEffort							
pdate type	Update Cond	ition									
Conditional	On change										
Semantics											
Whether the entity's spotlights are on or not.											
Datatype	Sharing	Ownership	Order	Transportation	Dimensions						
RPRboolean	PS	DA	RO	HLAbestEffort							
Update type Update Condition											
Conditional On change											
Semantics											
Whether the entity's tail lights are on or not.											
Patatype	Sharing	Ownership	Order	Transportation	Dimensions						
nteger16	PS	DA	RO	HLAbestEffort							
Update type Update Condition											
Conditional	On change										
Semantics											
Index used to obtain the acoustics (sound through air) signature state of the entity.											
Patatype	Sharing	Ownership	Order	Transportation	Dimensions						
EntityTypeStruct	PS	DA	RO	HLAbestEffort							
pdate type	Update Cond	ition		•	•						
Static	NA										
emantics											
The category of entity to be used when	viewed by	entities on t	the 'oppos	ite' side.							
	onditional mantics Thether the entity's running lights are latatype PRboolean pdate type onditional mantics Thether the entity's spotlights are on contatype PRboolean pdate type onditional mantics Thether the entity's tail lights are on contatype onditional mantics Thether the entity's tail lights are on contatype lateger16 pdate type onditional mantics dex used to obtain the acoustics (sour latatype intityTypeStruct pdate type catic mantics mantics	onditional mantics Thether the entity's running lights are on or not. atatype PRboolean PS Update type Onditional On change mantics Thether the entity's spotlights are on or not. atatype PRboolean PS Update Cond On change PRboolean PS Update type Update Cond On change mantics Thether the entity's tail lights are on or not. atatype Sharing PRboolean PS Update Cond On change mantics Thether the entity's tail lights are on or not. atatype Sharing Atteger16 PS Update type Update Cond On change mantics detex used to obtain the acoustics (sound through atatype IntityTypeStruct PS Update Cond On change Sharing IntityTypeStruct PS Update Cond On change	onditional mantics Thether the entity's running lights are on or not. atatype PRboolean PS DA pdate type Onditional On change Thether the entity's spotlights are on or not. atatype PRboolean PS DA pdate type Onditional On change PRboolean PS DA pdate type Oupdate Condition On change Thether the entity's spotlights are on or not. atatype PRboolean PS DA Update Condition On change Thether the entity's tail lights are on or not. atatype Sharing Ownership PS DA pdate type Update Condition On change treger16 PS DA Update Condition On change The the condition of the condition On change The the condition On chan	conditional Chether the entity's running lights are on or not. Chatatype PRboolean PS DA RO Depart of the entity's synthematics Chether the entity's spotlights are on or not. Chether the entity's tail lights are on or not. Chet	onditional On change mantics Thether the entity's running lights are on or not. statype Sharing Ownership Order Transportation PRboolean PS DA RO HLAbestEffort onditional On change mantics Thether the entity's spotlights are on or not. statype Sharing Ownership Order Transportation PRboolean PS DA RO HLAbestEffort onditional On change onditional On change mantics Thether the entity's tail lights are on or not. statype Update Condition onditional On change mantics Thether the entity's tail lights are on or not. statype Sharing Ownership Order Transportation thether the entity's tail lights are on or not. statype Sharing Ownership Order Transportation thether the entity's tail lights are on or not. statype Sharing Ownership Order Transportation onditional On change mantics dex used to obtain the acoustics (sound through air) signature state of the entity. statype Sharing Ownership Order Transportation the policy of the entity. statype Sharing Ownership Order Transportation thity TypeStruct PS DA RO HLAbestEffort pdate type Update Condition On Change Transportation thity TypeStruct PS DA RO HLAbestEffort pdate type Update Condition On the pdate type Update Condition						

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	ArticulatedParameterStructLengthles	PS	DA	RO	HLAbestEffort						
ArticulatedParametersArray	sArray										
ľ	Update type Update Condition										
Inherited from PhysicalEntity in RPR- Physical_v2.0	Conditional On change										
	Semantics										
	Identification of the visible parts, and	Identification of the visible parts, and their states, of the entity which are capable of independent motion.									
	Datatype										
	CamouflageEnum32	PS	DA	RO	HLAbestEffort						
CamouflageType	Update type	Update Condition									
Inherited from PhysicalEntity in RPR-	Conditional	Conditional On change									
Physical_v2.0	Semantics										
	The type of camouflage in use (if any)										
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	DamageStatusEnum32	PS	DA	RO	HLAbestEffort						
DamageState	Update type Update Condition										
Inherited from PhysicalEntity in RPR-	Conditional On change										
Physical_v2.0	Semantics										
	The state of damage of the entity.										
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	RPRboolean	PS	DA	RO	HLAbestEffort						
EngineSmokeOn	Update type	Update Con	dition								
Inherited from PhysicalEntity in RPR-	Conditional	On change	?								
Physical_v2.0	Semantics	•									
	Whether the entity's engine is generating smoke or not.										
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	RPRboolean	PS	DA	RO	HLAbestEffort						
FirePowerDisabled	Update type	Update Con	dition								
Inherited from PhysicalEntity in RPR- Conditional On change											
Physical_v2.0	Semantics	•									
	Whether the entity's main weapon syst	tem has bee	en disabled o	or not.							
	Thener the entry's main weapon system has been disubled of hot.										

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
FlamesPresent	Update type	Update Condition								
Inherited from PhysicalEntity in RPR-	Conditional On change									
Physical_v2.0	Semantics									
	Whether the entity is on fire (with visi	ible flames)	or not.							
	Datatype	Sharing Ownership Order Transportation Dimensions								
	ForceIdentifierEnum8	PS	DA	RO	HLAbestEffort					
ForceIdentifier	Update type	Update Condition								
Inherited from PhysicalEntity in RPR-	Conditional On change									
Physical_v2.0	Semantics									
	The identification of the force that the entity belongs to.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
HasAmmunitionSupplyCap	Update type Update Condition									
Inherited from PhysicalEntity in RPR-	Conditional On change									
Physical_v2.0	Semantics									
	Whether the entity has the capability to supply other entities with ammunition.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
HasFuelSupplyCap	Update type	Update Con	dition	•	•					
Inherited from PhysicalEntity in RPR-	Conditional	On change	?							
Physical_v2.0	Semantics									
	Whether the entity has the capability	to supply ot	her entities	with fuel o	r not.					
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
HasRecoveryCap	Update type	Update Con	dition		•					
Inherited from PhysicalEntity in RPR-	Conditional	On change	?							
Physical_v2.0	Semantics									
	Whether the entity has the capability	to recover o	ther entities	s or not.						
Thener the chiny has the capability to recover other chines or not.										

	Datatype Sharing Ownership Order Transportation Dimensions									
	RPRboolean	PS	DA	RO	HLAbestEffort	Difficusions				
HasBanainCan				RO	TILAUCSTEITOIT					
HasRepairCap	Update type	Update Cond								
Inherited from PhysicalEntity in RPR- Physical_v2.0	Conditional On change									
	Semantics									
	Whether the entity has the capability	to repair otl	her entities	or not.						
	Datatype	Sharing	•	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
Immobilized	Update type Update Condition									
Inherited from PhysicalEntity in RPR-	Conditional	On change	?							
Physical_v2.0	Semantics									
	Whether the entity is immobilized or r	iot.								
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	Integer16	PS	DA	RO	HLAbestEffort					
InfraredSignatureIndex	Update type Update Condition									
Inherited from PhysicalEntity in RPR- Physical_v2.0	Conditional On change									
Fnysicai_v2.0	Semantics									
	Index used to obtain the infra-red sign	nature state	of the entit	y.						
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
IsConcealed	Update type	Update Cond	dition							
Inherited from PhysicalEntity in RPR-	Conditional	On change	?							
Physical_v2.0	Semantics	•								
	Whether the entity is concealed or not.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	VelocityDecimeterPerSecondInteger 16	PS	DA	RO	HLAbestEffort					
LiveEntityMeasuredSpeed	Update type	Update Cond	dition	•	•					
Inherited from PhysicalEntity in RPR- Physical_v2.0	Conditional	On change	!							
	Semantics									
	The entity's own measurement of spee	ed (e.g. air s	peed for air	rcraft).						
The charty of the measurement of speed (e.g. air speed for air eraft).										

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	MarkingStruct	PS	DA	RO	HLAbestEffort					
Marking	Update type	Update Cond	lition							
Inherited from PhysicalEntity in RPR-	Conditional On change									
Physical_v2.0	Semantics									
	A unique marking or combination of characters used to distinguish the entity from other entities.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
PowerPlantOn	Update type Update Condition									
Inherited from PhysicalEntity in RPR- Physical_v2.0	Conditional	On change								
Fnysical_v2.0	Semantics									
	Whether the entity's power plant is on	or not.								
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	PropulsionSystemDataStructLengthl essArray	PS	DA	RO	HLAbestEffort					
PropulsionSystemsData	Update type Update Condition									
Inherited from PhysicalEntity in RPR- Physical_v2.0	Conditional On change									
	Semantics									
	The basic operating data of the propulsion systems aboard the entity.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	Integer16	PS	DA	RO	HLAbestEffort					
RadarCrossSectionSignatureIndex	Update type	Update Cond	lition	•						
Inherited from PhysicalEntity in RPR-	Conditional	On change								
Physical_v2.0	Semantics									
	Index used to obtain the radar cross section signature state of the entity.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
SmokePlumePresent	Update type	Update Cond	lition							
Inherited from PhysicalEntity in RPR-	Conditional	On change								
Physical_v2.0	Semantics	1								
	Whether the entity is generating smok	e or not (in	tentional or	unintentio	nal).					
whether the entity is generating smoke of not (intentional of unintentional).										

RPRboolean PS DA RO HLAbestEffort		Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
Conditional On change		RPRboolean	PS	DA	RO	HLAbestEffort					
Semantics Whether the entity has deployed tent or not. TrailingEffectsCode Datatype Sharing Ownership Order Transportation Dimensions	TentDeployed	Update type	Update Con	dition							
Semantics Whether the entity has deployed tent or not.		Conditional On change									
TrailingEffectsCode Inherited from PhysicalEntity in RPR- Physical_v2.0 Datatype Update type Update Condition Conditional On change Semantics The type and size of any trail that the entity is making. Datatype VectoringNozzleSystemData Inherited from PhysicalEntity in RPR- Physical_v2.0 Datatype Update type Update Condition Dimensions Conditional On change VectoringNozzleSystemData Inherited from PhysicalEntity in RPR- Physical_v2.0 Datatype Update type Update Condition Update type Update Condition On change Semantics The basic operational data for the vectoring nozzle systems aboard the entity. Datatype Sharing Ownership Order Transportation Dimensions Dimensions Order Transportation Dimensions Dimensions Dimensions Dimensions Dimensions Dimensions On change Semantics The basic operational data for the vectoring nozzle systems aboard the entity. Datatype Sharing Ownership Ownership Order Transportation Dimensions Dimensions	Physicai_v2.0	Semantics									
TrailingEffectsCode Inherited from PhysicalEntity in RPR- Physical_v2.0 TrailingEffectsCode Inherited from PhysicalEntity in RPR- Physical_v2.0 The type and size of any trail that the entity is making. Datatype Sharing VectoringNozzleSystemData Inherited from PhysicalEntity in RPR- Physical_v2.0 Datatype VectoringNozzleSystemData Inherited from PhysicalEntity in RPR- Physical_v2.0 Datatype Update type Update Condition Conditional On change Semantics The basic operational data for the vectoring nozzle systems aboard the entity. Datatype Sharing Ownership Ownership Order Transportation Dimensions Conditional On change Semantics The basic operational data for the vectoring nozzle systems aboard the entity. EntityType Inherited from BaseEntity in RPR-Base_v2.0 Static NA		Whether the entity has deployed tent of	or not.								
TrailingEffectsCode Inherited from Physical_v2.0 Inherited from Physical_v2.0 Conditional On change Semantics The type and size of any trail that the entity is making. VectoringNozzleSystemData Inherited from PhysicalEntity in RPR- Physical_v2.0 VectoringNozzleSystemData Inherited from PhysicalEntity in RPR- Physical_v2.0 EntityType Inherited from BaseEntity in RPR-Base_v2.0		Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
Inherited from Physical Entity in RPR- Physical_v2.0 Conditional On change Semantics The type and size of any trail that the entity is making. Datatype VectoringNozzleSystemData Inherited from PhysicalEntity in RPR- Physical_v2.0 Datatype Update type Update Condition On change Semantics The basic operational data for the vectoring nozzle systems aboard the entity. EntityType Inherited from BaseEntity in RPR-Base_v2.0 Conditional On change Sharing Ownership Order Transportation Dimensions Static NA		TrailingEffectsCodeEnum32	PS	DA	RO	HLAbestEffort					
Semantics The type and size of any trail that the entity is making.	TrailingEffectsCode	Update type Update Condition									
Semantics The type and size of any trail that the entity is making.	Inherited from PhysicalEntity in RPR-	Conditional On change									
VectoringNozzleSystemData Inherited from PhysicalEntity in RPR- Physical_v2.0 Datatype Update type Update Condition Conditional On change Semantics The basic operational data for the vectoring nozzle systems aboard the entity. Datatype EntityType Inherited from BaseEntity in RPR-Base_v2.0 Datatype Update Condition Update Sharing Ownership Order Transportation Dimensions Dimensions Update Sharing Ownership Order Transportation Update Sharing Ownership Order Update Condition Update Condition Update Condition Static	Physical_v2.0	emantics									
VectoringNozzleSystemData Inherited from PhysicalEntity in RPR- Physical_v2.0 Conditional Conditional Datatype EntityType Inherited from BaseEntity in RPR-Base_v2.0 VectoringNozzleSystemDataStructL PS DA RO HLAbestEffort Update Condition Condition On change Semantics The basic operational data for the vectoring nozzle systems aboard the entity. Datatype EntityTypeStruct PS DA RO HLAbestEffort Dimensions Dimensions Dimensions Dimensions Dimensions Static NA		The type and size of any trail that the	entity is ma	king.							
VectoringNozzleSystemData Inherited from PhysicalEntity in RPR- Physical_v2.0 Conditional Semantics The basic operational data for the vectoring nozzle systems aboard the entity. Datatype EntityType Inherited from BaseEntity in RPR-Base_v2.0 engthlessArray Update type Update Condition Update Transportation PS DA RO HLAbestEffort Update type Static NA		Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
Inherited from PhysicalEntity in RPR- Physical_v2.0 Conditional On change Semantics The basic operational data for the vectoring nozzle systems aboard the entity. Datatype EntityType Inherited from BaseEntity in RPR-Base_v2.0 Inherited from BaseEntity in RPR-Base_v2.0 Semantics The basic operational data for the vectoring nozzle systems aboard the entity. Datatype EntityTypeStruct PS DA RO HLAbestEffort Update type Update Condition Static NA		VectoringNozzleSystemDataStructL engthlessArray	PS	DA	RO	HLAbestEffort					
Physical_v2.0 Semantics The basic operational data for the vectoring nozzle systems aboard the entity. Datatype EntityType Inherited from BaseEntity in RPR-Base_v2.0 Semantics The basic operational data for the vectoring nozzle systems aboard the entity. Datatype Sharing Ownership Order Transportation Dimensions EntityType Update type Update Condition Static NA	Inherited from PhysicalEntity in RPR-	Update type Update Condition									
The basic operational data for the vectoring nozzle systems aboard the entity. Datatype		Conditional On change									
EntityType Inherited from BaseEntity in RPR-Base_v2.0 Datatype Sharing Ownership Order Transportation Dimensions PS DA RO HLAbestEffort Update Condition Static NA		Semantics									
EntityTypeStruct PS DA RO HLAbestEffort Update type Update Condition Inherited from BaseEntity in RPR-Base_v2.0 Static NA		The basic operational data for the vectoring nozzle systems aboard the entity.									
EntityType Update type Update Condition Inherited from BaseEntity in RPR-Base_v2.0 Static NA		Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
Inherited from BaseEntity in RPR-Base_v2.0 Static NA		EntityTypeStruct	PS	DA	RO	HLAbestEffort					
Inherited from BaseEntity in RPR-Base_v2.0 Static NA	EntityType	Update type Update Condition									
		Static	NA								
1		Semantics									
The category of the entity.		The category of the entity.									
Datatype Sharing Ownership Order Transportation Dimensions		Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
EntityIdentifierStruct PS DA RO HLAbestEffort		EntityIdentifierStruct	PS	DA	RO	HLAbestEffort					
EntityIdentifier Update type Update Condition	EntityIdentifier	Update type	Update Con	dition							
Inherited from BaseEntity in RPR-Base_v2.0 Static NA		Static	NA								
Semantics		Semantics									
The unique identifier for the entity instance.		The unique identifier for the entity ins	stance.								

	atatype Sharing Ownership Order Transportation Dimensions									
	IsPartOfStruct	PS	DA	RO	HLAbestEffort					
	Update type	Update Cond	dition		1					
IsPartOf	Conditional On change									
Inherited from BaseEntity in RPR-Base_v2.0	Semantics									
	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.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	SpatialVariantStruct	PS	DA	RO	HLAbestEffort					
Spatial	Update type Update Condition									
Inherited from BaseEntity in RPR-Base_v2.0	Conditional	On change	RPRnoteBase10) RPRnoteBase	1 RPRnoteBase12 RPRnoteBase13 RPRn	oteBase14				
· ·	Semantics									
	Spatial state stored in one variant record attribute.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	SpatialVariantStruct	PS	DA	RO	HLAbestEffort					
RelativeSpatial	Update type	Update Cond	dition							
Inherited from BaseEntity in RPR-Base v2.0	Conditional On change RPRnoteBase10 RPRnoteBase11 RPRnoteBase12 RPRnoteBase13 RPRnoteBase14									
	Semantics									
	Relative spatial state stored in one va	riant record	l attribute.							
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	HLAtoken	PS	DA	TS	HLAreliable					
HLAprivilegeToDeleteObject	Update type	Update Cond	dition							
Inherited from HLAobjectRoot in MIM	Static	NA								
	Semantics	•								

3.1.5. **NETN_Spacecraft**

Full Name: HLAobjectRoot.BaseEntity.PhysicalEntity.Platform.Spacecraft.NETN_Spacecraft

Sharing: Publish/Subscribe
Semantics: Extensions for NETN

	Datatype	Datatype Sharing Ownership Order Transportation Dimensions								
	HLAunicodeString	PS		RO	HLAbestEffort					
	Update type	Update Cond	lition	•						
Callsign	Static NA									
	Semantics									
	The name of the object.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	ActiveStatusEnum8	PS	DA	RO	HLAbestEffort					
	Update type Update Condition									
Status	Conditional On change									
	Semantics	•								
	If an instance shall be taken into account by federates									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	AggregateMissionEnum16	PS DA RO HLAbestEffort								
	Update type Update Condition									
Activity	Conditional	On change								
	Semantics									
	The activity of the object.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	ArrayOfUuid	PS	DA	RO	HLAbestEffort					
	Update type	Update Cond	lition							
EmbeddedUnitList	Conditional	On change								
	Semantics									
	List of unique IDs of on-board elemen	ıts								

	Datatype	Oatatype Sharing Ownership Order Transportation Dimensions								
	UuidArrayOfHLAbyte16	PS		RO	HLAbestEffort					
	Update type	Update Cond	lition		1					
	Static	NA								
UniqueID	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.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
AfterburnerOn	Update type Update Condition									
Inherited from Platform in RPR-Physical_v2.0	Conditional	On change								
, , , , , , , , , , , , , , , , , , ,	Semantics	Semantics								
	Whether the entity's afterburner is on or not.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
AntiCollisionLightsOn	Update type	Update Cond	lition							
	Conditional On change									
1	Semantics									
	Whether the entity's anti-collision lights are on or not.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
BlackOutBrakeLightsOn	Update type	Update Cond	lition							
<u> </u>	Conditional	On change								
1	Semantics									
	Whether the entity's black out brake li	ights are on	or not.							

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
BlackOutLightsOn	Update type	Update Cond	lition							
S	Conditional On change									
	Semantics									
	Whether the entity's black out lights are on or not.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
BrakeLightsOn	Update type Update Condition									
	Conditional	On change								
· · · · · · · · · · · · · · · · · · ·	Semantics									
	Whether the entity's brake lights are on or not.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
roi manonilignison	Update type Update Condition									
	Conditional On change									
	Semantics									
	Whether the entity's formation lights are on or not.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	HatchStateEnum32	PS	DA	RO	HLAbestEffort					
HatchState	Update type	Update Cond	lition		•					
	Conditional	On change								
· · · · · · · · · · · · · · · · · · ·	Semantics	•								
	The state of the entity's (main) hatch.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
HeadLightsOn	Update type	Update Cond	lition		'	·				
_	Conditional	On change								
	Semantics									
	Whether the entity's headlights are on	or not.								

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

RPRboolean					Dimensions				
(PKD00lean	PS	DA	RO	HLAbestEffort					
Jpdate type	Update Cond	ition							
Conditional On change									
Semantics									
Whether the entity's running lights are on or not.									
Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
RPRboolean	PS	DA	RO	HLAbestEffort					
pdate type	Update Cond	ition							
Conditional	On change								
emantics									
Whether the entity's spotlights are on or not.									
Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
RPRboolean	PS	DA	RO	HLAbestEffort					
Update type Update Condition									
Conditional On change									
Semantics									
Whether the entity's tail lights are on c	or not.								
Patatype	Sharing	Ownership	Order	Transportation	Dimensions				
nteger16	PS	DA	RO	HLAbestEffort					
pdate type	Update Cond	ition							
Conditional	On change								
emantics									
ndex used to obtain the acoustics (sou	ınd through	air) signat	ure state d	of the entity.					
Patatype	Sharing	Ownership	Order	Transportation	Dimensions				
EntityTypeStruct	PS	DA	RO	HLAbestEffort					
pdate type	Update Cond	ition		•	•				
Static	NA								
emantics									
The category of entity to be used when	viewed by	entities on t	the 'oppos	ite' side.					
	onditional mantics Thether the entity's running lights are latatype PRboolean pdate type onditional mantics Thether the entity's spotlights are on contatype PRboolean pdate type onditional mantics Thether the entity's tail lights are on contatype onditional mantics Thether the entity's tail lights are on contatype lateger16 pdate type onditional mantics dex used to obtain the acoustics (sour latatype intityTypeStruct pdate type catic mantics mantics	onditional mantics Thether the entity's running lights are on or not. atatype PRboolean PS Update type Onditional On change mantics Thether the entity's spotlights are on or not. atatype PRboolean PS Update Cond On change PRboolean PS Update type Update Cond On change mantics Thether the entity's tail lights are on or not. atatype Sharing PRboolean PS Update Cond On change mantics Thether the entity's tail lights are on or not. atatype Sharing Atteger16 PS Update type Update Cond On change mantics detex used to obtain the acoustics (sound through atatype IntityTypeStruct PS Update Cond On change Sharing IntityTypeStruct PS Update Cond On change	onditional mantics Thether the entity's running lights are on or not. atatype PRboolean PS DA pdate type Onditional On change Thether the entity's spotlights are on or not. atatype PRboolean PS DA pdate type Onditional On change PRboolean PS DA pdate type Oupdate Condition On change Thether the entity's spotlights are on or not. atatype PRboolean PS DA Update Condition On change Thether the entity's tail lights are on or not. atatype Sharing Ownership PS DA pdate type Update Condition On change treger16 PS DA Update Condition On change The the condition of the condition On change The the condition On chan	conditional Chether the entity's running lights are on or not. Chatatype PRboolean PS DA RO Depart of the entity's synthematics Chether the entity's spotlights are on or not. Chether the entity's tail lights are on or not. Chet	onditional On change mantics Thether the entity's running lights are on or not. statype Sharing Ownership Order Transportation PRboolean PS DA RO HLAbestEffort onditional On change mantics Thether the entity's spotlights are on or not. statype Sharing Ownership Order Transportation PRboolean PS DA RO HLAbestEffort onditional On change onditional On change mantics Thether the entity's tail lights are on or not. statype Update Condition onditional On change mantics Thether the entity's tail lights are on or not. statype Sharing Ownership Order Transportation thether the entity's tail lights are on or not. statype Sharing Ownership Order Transportation thether the entity's tail lights are on or not. statype Sharing Ownership Order Transportation onditional On change mantics dex used to obtain the acoustics (sound through air) signature state of the entity. statype Sharing Ownership Order Transportation the policy of the entity. statype Sharing Ownership Order Transportation thity TypeStruct PS DA RO HLAbestEffort pdate type Update Condition On Change Transportation thity TypeStruct PS DA RO HLAbestEffort pdate type Update Condition On the pdate type Update Condition				

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	ArticulatedParameterStructLengthles	PS	DA	RO	HLAbestEffort					
ArticulatedParametersArray	sArray									
ľ	Update type Update Condition									
Inherited from PhysicalEntity in RPR- Physical_v2.0	Conditional On change									
	Semantics									
	Identification of the visible parts, and their states, of the entity which are capable of independent motion.									
	Datatype	atatype Sharing Ownership Order Transportation Dimensions								
	CamouflageEnum32	PS	DA	RO	HLAbestEffort					
CamouflageType	Update type	Update Con	dition							
Inherited from PhysicalEntity in RPR-	Conditional	On change								
Physical_v2.0	Semantics									
	The type of camouflage in use (if any).									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	DamageStatusEnum32	PS	DA	RO	HLAbestEffort					
DamageState	Update type Update Condition									
Inherited from PhysicalEntity in RPR-	Conditional On change									
Physical_v2.0	Semantics									
	The state of damage of the entity.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
EngineSmokeOn	Update type	Update Con	dition							
Inherited from PhysicalEntity in RPR-	Conditional	On change	?							
Physical_v2.0	Semantics	•								
	Whether the entity's engine is generat	ing smoke d	or not.							
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
FirePowerDisabled	Update type	Update Con	dition							
Inherited from PhysicalEntity in RPR-	Conditional	On change	?							
Physical_v2.0	Semantics	•								
	Whether the entity's main weapon syst	tem has bee	en disabled o	or not.						
	The same of the sa									

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
FlamesPresent	Update type	Update Con	Update Condition							
Inherited from PhysicalEntity in RPR-	Conditional	On change	?							
Physical_v2.0	Semantics	1								
	Whether the entity is on fire (with visi	Whether the entity is on fire (with visible flames) or not.								
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	ForceIdentifierEnum8	PS	DA	RO	HLAbestEffort					
ForceIdentifier	Update type	Update Con	dition	1						
Inherited from PhysicalEntity in RPR-	Conditional	On change	?							
Physical_v2.0	Semantics	•								
	The identification of the force that the	entity belo	ngs to.							
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
HasAmmunitionSupplyCap	Update type	Update Con	dition							
Inherited from PhysicalEntity in RPR-	Conditional On change									
Physical_v2.0	Semantics									
	Whether the entity has the capability	to supply ot	her entities	with ammi	unition.					
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
HasFuelSupplyCap	Update type	Update Con	dition	•	•					
Inherited from PhysicalEntity in RPR-	Conditional	On change	?							
Physical_v2.0	Semantics									
	Whether the entity has the capability	to supply ot	her entities	with fuel o	r not.					
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
HasRecoveryCap	Update type	Update Con	dition		•					
Inherited from PhysicalEntity in RPR-	Conditional	On change	?							
Physical_v2.0	Semantics									
Whether the entity has the capability to recover other entities or not.										
	✓ · · · · · · · · · · · · · · · · · · ·									

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort	Difficusions				
HasBanainCan				RO	TILAUCSTEITOIT					
HasRepairCap	Update type	Update Cond								
Inherited from PhysicalEntity in RPR- Physical_v2.0	Conditional	On change	?							
	Semantics									
	Whether the entity has the capability	to repair otl	her entities	or not.						
	Datatype	Sharing	•	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
Immobilized	Update type	Update Cond	dition							
Inherited from PhysicalEntity in RPR-	Conditional	On change	?							
Physical_v2.0	Semantics	•								
	Whether the entity is immobilized or r	Whether the entity is immobilized or not.								
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	Integer16	PS	DA	RO	HLAbestEffort					
InfraredSignatureIndex	Update type	Update Cond	dition	•						
Inherited from PhysicalEntity in RPR- Physical_v2.0	Conditional On change									
Fnysicai_v2.0	Semantics									
	Index used to obtain the infra-red sign	nature state	of the entit	y.						
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
IsConcealed	Update type	Update Cond	dition							
Inherited from PhysicalEntity in RPR-	Conditional	On change	?							
Physical_v2.0	Semantics	•								
	Whether the entity is concealed or not	t.								
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	VelocityDecimeterPerSecondInteger 16	PS	DA	RO	HLAbestEffort					
LiveEntityMeasuredSpeed	Update type	Update Cond	dition	•	•					
Inherited from PhysicalEntity in RPR- Physical_v2.0	Conditional	On change	!							
	Semantics									
	The entity's own measurement of spee	The entity's own measurement of speed (e.g. air speed for aircraft).								
	2									

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	MarkingStruct	PS	DA	RO	HLAbestEffort					
Marking	Update type	Update Cond	lition							
Inherited from PhysicalEntity in RPR-	Conditional On change									
Physical_v2.0	Semantics									
	A unique marking or combination of characters used to distinguish the entity from other entities.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
PowerPlantOn	Update type Update Condition									
Inherited from PhysicalEntity in RPR- Physical_v2.0	Conditional	On change								
Fnysical_v2.0	Semantics									
	Whether the entity's power plant is on	or not.								
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	PropulsionSystemDataStructLengthl essArray	PS	DA	RO	HLAbestEffort					
PropulsionSystemsData	Update type Update Condition									
Inherited from PhysicalEntity in RPR- Physical_v2.0	Conditional On change									
	Semantics									
	The basic operating data of the propu	lsion systen	ıs aboard tl	he entity.						
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	Integer16	PS	DA	RO	HLAbestEffort					
RadarCrossSectionSignatureIndex	Update type	Update Cond	lition	•						
Inherited from PhysicalEntity in RPR-	Conditional	On change								
Physical_v2.0	Semantics									
	Index used to obtain the radar cross s	ection signa	ature state d	of the entity	<i>y</i> .					
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
SmokePlumePresent	Update type	Update Cond	lition							
Inherited from PhysicalEntity in RPR-	Conditional	On change								
Physical_v2.0	Semantics	1								
	Whether the entity is generating smok	e or not (in	tentional or	unintentio	nal).					

Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
RPRboolean	PS	DA	RO	HLAbestEffort					
Update type	Update Cond	dition		1					
Conditional On change									
Semantics									
Whether the entity has deployed tent of	or not.								
Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
TrailingEffectsCodeEnum32	PS	DA	RO	HLAbestEffort					
Update type Update Condition									
Conditional On change									
Semantics									
The type and size of any trail that the	entity is ma	king.							
Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
VectoringNozzleSystemDataStructL engthlessArray	PS	DA	RO	HLAbestEffort					
Update type Update Condition									
Conditional On change									
Semantics									
The basic operational data for the vec	ctoring nozz	le systems d	aboard the	e entity.					
Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
EntityTypeStruct	PS	DA	RO	HLAbestEffort					
Update type	Update Cond	dition							
Static	NA								
Semantics									
The category of the entity.									
Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
EntityIdentifierStruct	PS	DA	RO	HLAbestEffort					
Update type	Update Cond	dition							
Static	NA								
Semantics	•								
The unique identifier for the entity ins	tance.								
	RPRboolean Update type Conditional Semantics Whether the entity has deployed tent of Datatype TrailingEffectsCodeEnum32 Update type Conditional Semantics The type and size of any trail that the Datatype VectoringNozzleSystemDataStructLengthlessArray Update type Conditional Semantics The basic operational data for the vectority TypeStruct Update type EntityTypeStruct Update type Static Semantics The category of the entity. Datatype EntityIdentifierStruct Update type Static Semantics The semantics The category of the entity. Datatype EntityIdentifierStruct Update type Static Semantics Semantics	RPRboolean Update type Update Com Conditional On change Semantics Whether the entity has deployed tent or not. Datatype TrailingEffectsCodeEnum32 PS Update type Update Conditional On change Semantics The type and size of any trail that the entity is made Datatype Sharing VectoringNozzleSystemDataStructL engthlessArray Update type Update Conditional On change Semantics The basic operational data for the vectoring noza Datatype Sharing EntityTypeStruct PS Update type Update Conditional Semantics The category of the entity. Datatype EntityIdentifierStruct PS Update type Update Conditional Semantics The category of the entity. Datatype EntityIdentifierStruct PS Update type Update Conditional Sharing EntityIdentifierStruct PS Update type Update Conditional Static NA	RPRboolean PS DA Update type Update Condition Conditional On change Semantics Whether the entity has deployed tent or not. Datatype Sharing Ownership TrailingEffectsCodeEnum32 PS DA Update type Update Condition Conditional On change Semantics The type and size of any trail that the entity is making. Datatype Sharing Ownership VectoringNozzleSystemDataStructL engthlessArray Update type Update Condition Conditional On change Semantics The basic operational data for the vectoring nozzle systems of Datatype Sharing Ownership EntityTypeStruct PS DA Update type Update Condition Static NA Semantics The category of the entity. Datatype Sharing Ownership EntityIdentifierStruct PS DA Update Condition Static NA Semantics The Jupdate Condition Static NA Semantics The Update Condition Static NA Semantics The Update Condition Static NA Semantics The Update Condition Static NA	RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics Whether the entity has deployed tent or not. Datatype Sharing Ownership Order TrailingEffectsCodeEnum32 PS DA RO Update type Update Condition Conditional On change Semantics The type and size of any trail that the entity is making. Datatype Sharing Ownership Order VectoringNozzleSystemDataStructL engthlessArray Update type Update Condition Conditional On change Semantics The basic operational data for the vectoring nozzle systems aboard the Datatype Sharing Ownership Order EntityTypeStruct PS DA RO Update type Update Condition Static NA Semantics The category of the entity. Datatype Sharing Ownership Order EntityIdentifierStruct PS DA RO Update type Update Condition Static NA Semantics The category of the entity. Datatype Sharing Ownership Order EntityIdentifierStruct PS DA RO Update type Update Condition Static NA Semantics The category of the entity. Datatype Sharing Ownership Order EntityIdentifierStruct PS DA RO Update type Update Condition Static NA Semantics	RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Whether the entity has deployed tent or not. Datatype Sharing Ownership Order Transportation TrailingEffectsCodeEnum32 PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics The type and size of any trail that the entity is making. Datatype Sharing Ownership Order Transportation VectoringNozzleSystemDataStructL PS DA RO HLAbestEffort update type Update Condition Conditional On change Semantics The basic operational data for the vectoring nozzle systems aboard the entity. Datatype Sharing Ownership Order Transportation WettoringNozzleSystemDataStructL PS DA RO HLAbestEffort update type Update Condition Conditional On change Semantics The basic operational data for the vectoring nozzle systems aboard the entity. Datatype Sharing Ownership Order Transportation EntityTypeStruct PS DA RO HLAbestEffort Update type Update Condition Static NA Semantics The category of the entity. Datatype Sharing Ownership Order Transportation EntityIdentifierStruct PS DA RO HLAbestEffort Update type Update Condition Static NA Semantics				

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	IsPartOfStruct	PS	DA	RO	HLAbestEffort					
	Update type	Update Cond	dition		1					
IsPartOf	Conditional	Conditional On change								
Inherited from BaseEntity in RPR-Base_v2.0	Semantics									
	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 HostEntityIdentifier 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.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	SpatialVariantStruct	PS	DA	RO	HLAbestEffort					
Spatial Spatial	Update type Update Condition									
Inherited from BaseEntity in RPR-Base_v2.0	Conditional On change RPRnoteBase10 RPRnoteBase11 RPRnoteBase13 RPRnoteBase14									
· · · · · · · · · · · · · · · · · · ·	Semantics									
	Spatial state stored in one variant record attribute.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	SpatialVariantStruct	PS	DA	RO	HLAbestEffort					
RelativeSpatial	Update type	Update Cond	dition							
Inherited from BaseEntity in RPR-Base v2.0	Conditional	On change	RPRnoteBase10) RPRnoteBase ²	1 RPRnoteBase12 RPRnoteBase13 RPRn	oteBase14				
	Semantics									
	Relative spatial state stored in one va	riant record	l attribute.							
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	HLAtoken	PS	DA	TS	HLAreliable					
HLAprivilegeToDeleteObject	Update type	Update Cond	dition							
Inherited from HLAobjectRoot in MIM	Static	NA								
	Semantics	•								

3.1.6. **NETN_SubmersibleVehicle**

Full Name: HLAobjectRoot.BaseEntity.PhysicalEntity.Platform.SubmersibleVessel.NETN_SubmersibleVehicle

Sharing: Publish/Subscribe
Semantics: Extensions for NETN

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	HLAunicodeString	PS		RO	HLAbestEffort					
	Update type	Update Cond	dition	•						
Callsign	Static	NA NA								
	Semantics									
	The name of the object.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	ActiveStatusEnum8	PS	DA	RO	HLAbestEffort					
	Update type Update Condition									
Status	Conditional On change									
	Semantics	•								
	If an instance shall be taken into account by federates									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	AggregateMissionEnum16	PS	DA	RO	HLAbestEffort					
	Update type	Update Cond	dition							
Activity	Conditional	On change	?							
	Semantics	•								
	The activity of the object.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	ArrayOfUuid	PS	DA	RO	HLAbestEffort					
	Update type	Update Cond	dition							
EmbeddedUnitList	Conditional	On change	?							
	Semantics									
	List of unique IDs of on-board elemer	ıts								

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

Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
RPRboolean	PS	DA	RO	HLAbestEffort					
Update type	Update Cond	lition		1	-				
Conditional On change									
Semantics									
Whether the entity's black out lights are on or not.									
Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
RPRboolean	PS	DA	RO	HLAbestEffort					
Update type Update Condition									
Conditional	On change								
Semantics									
Whether the entity's brake lights are on or not.									
Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
RPRboolean	PS	DA	RO	HLAbestEffort					
Update type Update Condition									
Conditional On change									
Semantics									
Whether the entity's formation lights are on or not.									
Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
HatchStateEnum32	PS	DA	RO	HLAbestEffort					
Update type	Update Cond	lition							
Conditional	On change								
Semantics									
The state of the entity's (main) hatch.									
Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
RPRboolean	PS	DA	RO	HLAbestEffort					
Update type	Update Cond	lition							
Conditional	On change								
Semantics									
Whether the entity's headlights are on	or not.								
	RPRboolean Update type Conditional Semantics Whether the entity's black out lights at Datatype RPRboolean Update type Conditional Semantics Whether the entity's brake lights are of Datatype RPRboolean Update type Conditional Semantics Whether the entity's formation lights at Datatype HatchStateEnum32 Update type Conditional Semantics The state of the entity's (main) hatch. Datatype RPRboolean Update type Conditional Semantics The state of the entity's (main) hatch. Datatype RPRboolean Update type Conditional Semantics Conditional	RPRboolean PS Update type Update Conditional On change Semantics Whether the entity's black out lights are on or not Datatype Sharing RPRboolean PS Update type Update Conditional On change Semantics Whether the entity's brake lights are on or not. Datatype Sharing RPRboolean PS Update type Update Conditional On change RPRboolean PS Update type Update Conditional On change Semantics Whether the entity's formation lights are on or no Datatype Sharing HatchStateEnum32 PS Update type Update Conditional On change Semantics The state of the entity's (main) hatch. Datatype Sharing RPRboolean PS Update type Update Conditional On change Semantics The state of the entity's (main) hatch. Datatype Sharing RPRboolean PS Update type Update Conditional On change	RPRboolean PS DA Update type Update Condition Conditional On change Semantics Whether the entity's black out lights are on or not. Datatype Sharing Ownership RPRboolean PS DA Update type Update Condition Conditional On change Semantics Whether the entity's brake lights are on or not. Datatype Sharing Ownership RPRboolean PS DA Update type Update Condition Conditional On change Semantics Whether the entity's formation lights are on or not. Datatype Sharing Ownership RPRboolean Update Condition Conditional On change Semantics Whether the entity's formation lights are on or not. Datatype Sharing Ownership HatchStateEnum32 PS DA Update type Update Condition Conditional On change Semantics The state of the entity's (main) hatch. Datatype Sharing Ownership RPRboolean PS DA Update type Update Condition Conditional On change Semantics The state of the entity's (main) hatch. Datatype Sharing Ownership RPRboolean PS DA Update type Update Condition Conditional On change Semantics	RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics Whether the entity's black out lights are on or not. Datatype Sharing Ownership Order RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics Whether the entity's brake lights are on or not. Datatype Sharing Ownership Order RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics Whether the entity's brake lights are on or not. Datatype Sharing Ownership Order RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics Whether the entity's formation lights are on or not. Datatype Sharing Ownership Order HatchStateEnum32 PS DA RO Update type Update Condition Conditional On change Semantics The state of the entity's (main) hatch. Datatype Sharing Ownership Order RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics The state of the entity's (main) hatch. Datatype Sharing Ownership Order RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics	RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Whether the entity's black out lights are on or not. Datatype Sharing Ownership DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Whether the entity's brake lights are on or not. Datatype Sharing Ownership Order Transportation RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Whether the entity's brake lights are on or not. Datatype Sharing Ownership Order Transportation RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Whether the entity's formation lights are on or not. Datatype Sharing Ownership Order Transportation HatchStateEnum32 PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics The state of the entity's (main) hatch. Datatype Sharing Ownership Order Transportation RPRboolean On change Semantics The state of the entity's (main) hatch. Datatype Sharing Ownership Order Transportation RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics The state of the entity's (main) hatch. Datatype Sharing Ownership Order Transportation RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change				

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
 InteriorLightsOn	Update type	Update Cond	lition							
Inherited from Platform in RPR-Physical_v2.0	Conditional	On change								
, , , , , , , , ,	Semantics									
	Whether the entity's internal lights are on or not.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
 LandingLightsOn	Update type Update Condition									
Inherited from Platform in RPR-Physical_v2.0	Conditional On change									
	Semantics									
	Whether the entity's landing lights are on or not.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
	Update type Update Condition									
Inherited from Platform in RPR-Physical_v2.0	Conditional On change									
	Semantics									
	Whether the entity's weapon launcher is in the raised position.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
 NavigationLightsOn	Update type	Update Cond	lition							
Inherited from Platform in RPR-Physical_v2.0	Conditional	On change								
	Semantics									
	Whether the entity's navigation lights	are on or n	ot.							
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
 RampDeployed	Update type	Update Cond	lition							
Inherited from Platform in RPR-Physical_v2.0	Conditional	On change								
	Semantics									
	Whether the entity has deployed a ran	ıp or not.								

RPRboolean					Dimensions				
(PKD00lean	PS	DA	RO	HLAbestEffort					
Jpdate type	Update Cond	ition							
Conditional	On change								
Semantics									
Whether the entity's running lights are on or not.									
Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
RPRboolean	PS	DA	RO	HLAbestEffort					
pdate type	Update Cond	ition							
Conditional	On change								
Semantics									
Whether the entity's spotlights are on o	or not.								
Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
RPRboolean	PS	DA	RO	HLAbestEffort					
Update type Update Condition									
Conditional On change									
Semantics									
Whether the entity's tail lights are on or not.									
Patatype	Sharing	Ownership	Order	Transportation	Dimensions				
nteger16	PS	DA	RO	HLAbestEffort					
pdate type	Update Cond	ition							
Conditional	On change								
emantics									
ndex used to obtain the acoustics (sou	ınd through	air) signat	ure state d	of the entity.					
Patatype	Sharing	Ownership	Order	Transportation	Dimensions				
EntityTypeStruct	PS	DA	RO	HLAbestEffort					
pdate type	Update Cond	ition		•	•				
Static	NA								
emantics									
The category of entity to be used when	viewed by	entities on t	the 'oppos	ite' side.					
	onditional mantics Thether the entity's running lights are latatype PRboolean pdate type onditional mantics Thether the entity's spotlights are on contatype PRboolean pdate type onditional mantics Thether the entity's tail lights are on contatype onditional mantics Thether the entity's tail lights are on contatype lateger16 pdate type onditional mantics dex used to obtain the acoustics (sour latatype intityTypeStruct pdate type catic mantics mantics	onditional mantics Thether the entity's running lights are on or not. atatype PRboolean PS Update type Onditional On change mantics Thether the entity's spotlights are on or not. atatype PRboolean PS Update Cond On change PRboolean PS Update type Update Cond On change mantics Thether the entity's tail lights are on or not. atatype Sharing PRboolean PS Update Cond On change mantics Thether the entity's tail lights are on or not. atatype Sharing Atteger16 PS Update type Update Cond On change mantics detex used to obtain the acoustics (sound through atatype IntityTypeStruct PS Update Cond On change Sharing IntityTypeStruct PS Update Cond On change	onditional mantics Thether the entity's running lights are on or not. atatype PRboolean PS DA pdate type Onditional On change Thether the entity's spotlights are on or not. atatype PRboolean PS DA pdate type Onditional On change PRboolean PS DA pdate type Oupdate Condition On change Thether the entity's spotlights are on or not. atatype PRboolean PS DA Update Condition On change Thether the entity's tail lights are on or not. atatype Sharing Ownership PS DA pdate type Update Condition On change treger16 PS DA Update Condition On change The pdate type Update Condition The pdate type Update Condition	conditional Chether the entity's running lights are on or not. Chatatype PRboolean PS DA RO Depart of the entity's synthematics Chether the entity's spotlights are on or not. Chether the entity's tail lights are on or not. Chet	onditional On change mantics Thether the entity's running lights are on or not. statype Sharing Ownership Order Transportation PRboolean PS DA RO HLAbestEffort onditional On change mantics Thether the entity's spotlights are on or not. statype Sharing Ownership Order Transportation PRboolean PS DA RO HLAbestEffort onditional On change onditional On change mantics Thether the entity's tail lights are on or not. statype Update Condition onditional On change mantics Thether the entity's tail lights are on or not. statype Sharing Ownership Order Transportation thether the entity's tail lights are on or not. statype Sharing Ownership Order Transportation thether the entity's tail lights are on or not. statype Sharing Ownership Order Transportation onditional On change mantics dex used to obtain the acoustics (sound through air) signature state of the entity. statype Sharing Ownership Order Transportation the policy of the entity. statype Sharing Ownership Order Transportation thity TypeStruct PS DA RO HLAbestEffort pdate type Update Condition On Change Transportation thity TypeStruct PS DA RO HLAbestEffort pdate type Update Condition On the pdate type Update Condition				

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	ArticulatedParameterStructLengthles	PS	DA	RO	HLAbestEffort					
ArticulatedParametersArray	sArray									
ľ	Update type Update Condition									
Inherited from PhysicalEntity in RPR- Physical_v2.0	Conditional On change									
	Semantics									
	Identification of the visible parts, and	Identification of the visible parts, and their states, of the entity which are capable of independent motion.								
	Datatype Sharing Ownership Order Transportation Dimensions									
	CamouflageEnum32	PS	DA	RO	HLAbestEffort					
CamouflageType	Update type	Update Con	dition							
Inherited from PhysicalEntity in RPR-	Conditional On change									
Physical_v2.0	Semantics	•								
	The type of camouflage in use (if any)									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	DamageStatusEnum32	PS	DA	RO	HLAbestEffort					
DamageState	Update type Update Condition									
Inherited from PhysicalEntity in RPR-	Conditional On change									
Physical_v2.0	Semantics									
	The state of damage of the entity.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
EngineSmokeOn	Update type	Update Con	dition							
Inherited from PhysicalEntity in RPR-	Conditional	On change	?							
Physical_v2.0	Semantics	•								
	Whether the entity's engine is generat	ing smoke d	or not.							
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
FirePowerDisabled	Update type	Update Con	dition							
Inherited from PhysicalEntity in RPR-	Conditional	On change	?							
Physical_v2.0	Semantics	•								
	Whether the entity's main weapon syst	tem has bee	en disabled o	or not.						
	The state of the s									

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
FlamesPresent	Update type	Update Cor	ndition							
Inherited from PhysicalEntity in RPR-	Conditional On change									
Physical_v2.0	Semantics									
	Whether the entity is on fire (with v	Whether the entity is on fire (with visible flames) or not.								
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	ForceIdentifierEnum8	PS	DA	RO	HLAbestEffort					
ForceIdentifier	Update type	Update Cor	ndition	•						
Inherited from PhysicalEntity in RPR-	Conditional	Conditional On change								
Physical_v2.0	Semantics	Semantics								
	The identification of the force that the entity belongs to.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
HasAmmunitionSupplyCap	Update type	Update Cor	ndition	•	-					
Inherited from PhysicalEntity in RPR-	Conditional On change									
Physical_v2.0	Semantics									
	Whether the entity has the capabili	Whether the entity has the capability to supply other entities with ammunition.								
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
HasFuelSupplyCap	Update type	Update Cor	ndition		•					
Inherited from PhysicalEntity in RPR-	Conditional	On chang	e							
Physical_v2.0	Semantics									
	Whether the entity has the capabili	ty to supply o	ther entities	with fuel	or not.					
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
HasRecoveryCap	Update type	Update Cor	ndition	•						
Inherited from PhysicalEntity in RPR-	Conditional	On chang	e							
Physical_v2.0	Semantics	· ·								
	Whether the entity has the capabili	ty to recover	other entitie	s or not.						
Thener the entry has the capacital to receive differ changes of hon										

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
HasRepairCap	Update type	Update Con	dition							
Inherited from PhysicalEntity in RPR-	Conditional	On change	?							
Physical_v2.0	Semantics									
	Whether the entity has the capability t	o repair oti	her entities	or not.						
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
Immobilized	Update type	Update Cond	dition	•						
Inherited from PhysicalEntity in RPR-	Conditional	On change	?							
Physical_v2.0	Semantics									
	Whether the entity is immobilized or n	Whether the entity is immobilized or not.								
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	Integer16	PS	DA	RO	HLAbestEffort					
InfraredSignatureIndex	Update type	Update Cond	dition							
Inherited from PhysicalEntity in RPR-	Conditional On change									
Physical_v2.0	Semantics									
	Index used to obtain the infra-red signature state of the entity.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
IsConcealed	Update type	Update Cond	dition							
Inherited from PhysicalEntity in RPR-	Conditional	On change	?							
Physical_v2.0	Semantics									
	Whether the entity is concealed or not	•								
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	VelocityDecimeterPerSecondInteger 16	PS	DA	RO	HLAbestEffort					
LiveEntityMeasuredSpeed	Update type	Update Con	dition	•						
Inherited from PhysicalEntity in RPR- Physical_v2.0	Conditional	On change	?							
	Semantics									
	The entity's own measurement of spee	d (e.g. air s	peed for air	rcraft).						

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	MarkingStruct	PS	DA	RO	HLAbestEffort						
Marking	Update type	Update Cond	lition		-	1					
Inherited from PhysicalEntity in RPR-	Conditional On change										
Physical_v2.0	Semantics										
	A unique marking or combination of characters used to distinguish the entity from other entities.										
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	RPRboolean	PS	DA	RO	HLAbestEffort						
PowerPlantOn	Update type Update Condition										
Inherited from PhysicalEntity in RPR-	Conditional On change										
Physical_v2.0	Semantics	Semantics									
	Whether the entity's power plant is on or not.										
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	PropulsionSystemDataStructLengthl essArray	PS	DA	RO	HLAbestEffort						
	Update type Update Condition										
Inherited from PhysicalEntity in RPR- Physical_v2.0	Conditional On change										
	Semantics										
	The basic operating data of the propu	lsion systen	ns aboard th	ne entity.							
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	Integer16	PS	DA	RO	HLAbestEffort						
RadarCrossSectionSignatureIndex	Update type	Update Cond	lition								
Inherited from PhysicalEntity in RPR-	Conditional	On change	!								
Physical_v2.0	Semantics	•									
	Index used to obtain the radar cross s	ection sign	ature state d	of the entity	y.						
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	RPRboolean	PS	DA	RO	HLAbestEffort						
SmokePlumePresent	Update type	Update Cond	lition	•							
Inherited from PhysicalEntity in RPR-	Conditional	On change									
Physical_v2.0	Semantics										
	Whether the entity is generating smok	e or not (in	tentional or	unintentio	onal).						

Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
RPRboolean	PS	DA	RO	HLAbestEffort					
Update type	Update Cond	dition		1					
Conditional	On change	?							
Semantics									
Whether the entity has deployed tent or not.									
Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
TrailingEffectsCodeEnum32	PS	DA	RO	HLAbestEffort					
Update type Update Condition									
Conditional On change									
Semantics									
The type and size of any trail that the entity is making.									
Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
VectoringNozzleSystemDataStructL engthlessArray	PS	DA	RO	HLAbestEffort					
Update type Update Condition									
Conditional On change									
Semantics									
The basic operational data for the vec	ctoring nozz	le systems d	aboard the	e entity.					
Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
EntityTypeStruct	PS	DA	RO	HLAbestEffort					
Update type	Update Cond	dition							
Static	NA								
Semantics									
The category of the entity.									
Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
EntityIdentifierStruct	PS	DA	RO	HLAbestEffort					
Update type	Update Cond	dition							
Static	NA								
Semantics	•								
The unique identifier for the entity ins	tance.								
	RPRboolean Update type Conditional Semantics Whether the entity has deployed tent of Datatype TrailingEffectsCodeEnum32 Update type Conditional Semantics The type and size of any trail that the Datatype VectoringNozzleSystemDataStructLengthlessArray Update type Conditional Semantics The basic operational data for the vectority TypeStruct Update type EntityTypeStruct Update type Static Semantics The category of the entity. Datatype EntityIdentifierStruct Update type Static Semantics Semantics The category of the entity. Datatype EntityIdentifierStruct Update type Static Semantics	RPRboolean Update type Update Com Conditional On change Semantics Whether the entity has deployed tent or not. Datatype TrailingEffectsCodeEnum32 PS Update type Update Conditional On change Semantics The type and size of any trail that the entity is made Datatype Sharing VectoringNozzleSystemDataStructL engthlessArray Update type Update Conditional On change Semantics The basic operational data for the vectoring noza Datatype Sharing EntityTypeStruct PS Update type Update Conditional Semantics The category of the entity. Datatype EntityIdentifierStruct PS Update type Update Conditional Semantics The category of the entity. Datatype EntityIdentifierStruct PS Update type Update Conditional Sharing EntityIdentifierStruct PS Update type Update Conditional Static NA	RPRboolean PS DA Update type Update Condition Conditional On change Semantics Whether the entity has deployed tent or not. Datatype Sharing Ownership TrailingEffectsCodeEnum32 PS DA Update type Update Condition Conditional On change Semantics The type and size of any trail that the entity is making. Datatype Sharing Ownership VectoringNozzleSystemDataStructL engthlessArray Update type Update Condition Conditional On change Semantics The basic operational data for the vectoring nozzle systems of Datatype Sharing Ownership EntityTypeStruct PS DA Update type Update Condition Static NA Semantics The category of the entity. Datatype Sharing Ownership EntityIdentifierStruct PS DA Update Condition Static NA Semantics The Jupdate Condition Static NA Semantics The Update Condition Static NA Semantics The Update Condition Static NA	RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics Whether the entity has deployed tent or not. Datatype Sharing Ownership Order TrailingEffectsCodeEnum32 PS DA RO Update type Update Condition Conditional On change Semantics The type and size of any trail that the entity is making. Datatype Sharing Ownership Order VectoringNozzleSystemDataStructL engthlessArray Update type Update Condition Conditional On change Semantics The basic operational data for the vectoring nozzle systems aboard the Datatype Sharing Ownership Order EntityTypeStruct PS DA RO Update type Update Condition Static NA Semantics The category of the entity. Datatype Sharing Ownership Order EntityIdentifierStruct PS DA RO Update type Update Condition Static NA Semantics The category of the entity. Datatype Sharing Ownership Order EntityIdentifierStruct PS DA RO Update type Update Condition Static NA Semantics The category of the entity. Datatype Sharing Ownership Order EntityIdentifierStruct PS DA RO Update type Update Condition Static NA Semantics	RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Whether the entity has deployed tent or not. Datatype Sharing Ownership Order Transportation TrailingEffectsCodeEnum32 PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics The type and size of any trail that the entity is making. Datatype Sharing Ownership Order Transportation VectoringNozzleSystemDataStructL PS DA RO HLAbestEffort update type Update Condition Conditional On change Semantics The basic operational data for the vectoring nozzle systems aboard the entity. Datatype Sharing Ownership Order Transportation WettoringNozzleSystemDataStructL PS DA RO HLAbestEffort update type Update Condition Conditional On change Semantics The basic operational data for the vectoring nozzle systems aboard the entity. Datatype Sharing Ownership Order Transportation EntityTypeStruct PS DA RO HLAbestEffort Update type Update Condition Static NA Semantics The category of the entity. Datatype Sharing Ownership Order Transportation EntityIdentifierStruct PS DA RO HLAbestEffort Update type Update Condition Static NA Semantics				

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	IsPartOfStruct	PS	DA	RO	HLAbestEffort					
	Update type	Update Con	dition							
 IsPartOf	Conditional On change									
Inherited from BaseEntity in RPR-Base_v2.0	Semantics									
	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 HostEntityIdentifier 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.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	SpatialVariantStruct	PS	DA	RO	HLAbestEffort					
 Spatial	Update type Update Condition									
Inherited from BaseEntity in RPR-Base v2.0	Conditional	On change	RPRnoteBase1	RPRnoteBase	11 RPRnoteBase12 RPRnoteBase13 RPRn	noteBase14				
-	Semantics	•								
	Spatial state stored in one variant record attribute.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	SpatialVariantStruct	PS	DA	RO	HLAbestEffort					
 RelativeSpatial	Update type	Update Con	dition							
Inherited from BaseEntity in RPR-Base v2.0	Conditional	On change	RPRnoteBase1) RPRnoteBase	11 RPRnoteBase12 RPRnoteBase13 RPRn	noteBase14				
	Semantics	•								
	Relative spatial state stored in one va	riant record	d attribute.							
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	HLAtoken	PS	DA	TS	HLAreliable					
HLAprivilegeToDeleteObject	Update type	Update Con	dition	•	•					
Inherited from HLAobjectRoot in MIM	Static	NA								
, , , , , , , , , , , , , , , , , , , ,	Semantics	•								

3.1.7. **NETN_SurfaceVessel**

Full Name: HLAobjectRoot.BaseEntity.PhysicalEntity.Platform.SurfaceVessel.NETN_SurfaceVessel

Sharing: Publish/Subscribe
Semantics: Extensions for NETN

Attributes:

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	HLAunicodeString	PS		RO	HLAbestEffort					
	Update type	Update Cond	dition	•						
Callsign	Static NA									
	Semantics									
	The name of the object.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	ActiveStatusEnum8	PS	DA	RO	HLAbestEffort					
	Update type Update Condition									
Status	Conditional On change									
	Semantics									
	If an instance shall be taken into account by federates									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	AggregateMissionEnum16	PS	DA	RO	HLAbestEffort					
	Update type	Update Cond	dition							
Activity	Conditional	On change	?							
	Semantics	•								
	The activity of the object.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	ArrayOfUuid	PS	DA	RO	HLAbestEffort					
	Update type	Update Cond	dition							
EmbeddedUnitList	Conditional	On change	?							
	Semantics									
	List of unique IDs of on-board elemer	nts								

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	UuidArrayOfHLAbyte16	PS		RO	HLAbestEffort						
	Update type	Update Con	dition		1						
	Static NA										
UniqueID	Semantics										
	The unique identifier of the object. Required value. If not assigned by the ORBAT specific attribute value.	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									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	RPRboolean	PS	DA	RO	HLAbestEffort						
AfterburnerOn	Update type Update Condition										
Inherited from Platform in RPR-Physical_v2.0	Conditional	Conditional On change									
	Semantics										
	Whether the entity's afterburner is on or not.										
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	RPRboolean	PS	DA	RO	HLAbestEffort						
AntiCollisionLightsOn	Update type	Update Con	dition								
Inherited from Platform in RPR-Physical_v2.0	Conditional	On change	?								
	Semantics	•									
	Whether the entity's anti-collision lights are on or not.										
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	RPRboolean	PS	DA	RO	HLAbestEffort						
BlackOutBrakeLightsOn	Update type	Update Con	dition								
Inherited from Platform in RPR-Physical_v2.0	Conditional	On change	?	·							
	Semantics										
	Whether the entity's black out brake la	ights are on	or not.								

Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
RPRboolean	PS	DA	RO	HLAbestEffort					
Update type	Update Cond	lition		1	-				
Conditional	On change								
Semantics									
Whether the entity's black out lights are on or not.									
Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
RPRboolean	PS	DA	RO	HLAbestEffort					
Update type Update Condition									
Conditional On change									
Semantics									
Whether the entity's brake lights are on or not.									
Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
RPRboolean	PS	DA	RO	HLAbestEffort					
Update type Update Condition									
Conditional On change									
Semantics									
Whether the entity's formation lights are on or not.									
Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
HatchStateEnum32	PS	DA	RO	HLAbestEffort					
Update type	Update Cond	lition							
Conditional	On change								
Semantics									
The state of the entity's (main) hatch.									
Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
RPRboolean	PS	DA	RO	HLAbestEffort					
Update type	Update Cond	lition							
Conditional	On change								
Semantics									
Whether the entity's headlights are on or not.									
	RPRboolean Update type Conditional Semantics Whether the entity's black out lights at Datatype RPRboolean Update type Conditional Semantics Whether the entity's brake lights are of Datatype RPRboolean Update type Conditional Semantics Whether the entity's formation lights at Datatype HatchStateEnum32 Update type Conditional Semantics The state of the entity's (main) hatch. Datatype RPRboolean Update type Conditional Semantics The state of the entity's (main) hatch. Datatype RPRboolean Update type Conditional Semantics Conditional	RPRboolean PS Update type Update Cond Conditional On change Semantics Whether the entity's black out lights are on or not Datatype Sharing RPRboolean PS Update type Update Cond Conditional On change Semantics Whether the entity's brake lights are on or not. Datatype Sharing RPRboolean PS Update type Update Cond Conditional On change Semantics Whether the entity's formation lights are on or not Datatype Sharing RPRboolean PS Update type Update Cond Conditional On change Semantics Whether the entity's formation lights are on or no Datatype Sharing HatchStateEnum32 PS Update type Update Cond Conditional On change Semantics The state of the entity's (main) hatch. Datatype Sharing RPRboolean PS Update type Update Cond Conditional On change RPRboolean PS Update type Update Cond Conditional On change Conditional On change	RPRboolean PS DA Update type Update Condition Conditional On change Semantics Whether the entity's black out lights are on or not. Datatype Sharing Ownership RPRboolean PS DA Update type Update Condition Conditional On change Semantics Whether the entity's brake lights are on or not. Datatype Sharing Ownership RPRboolean PS DA Update type Update Condition Conditional On change Semantics Whether the entity's formation lights are on or not. Datatype Sharing Ownership RPRboolean Update Condition Conditional On change Semantics Whether the entity's formation lights are on or not. Datatype Sharing Ownership HatchStateEnum32 PS DA Update type Update Condition Conditional On change Semantics The state of the entity's (main) hatch. Datatype Sharing Ownership RPRboolean PS DA Update type Update Condition Conditional On change Semantics The state of the entity's (main) hatch. Datatype Sharing Ownership RPRboolean PS DA Update type Update Condition Conditional On change	RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics Whether the entity's black out lights are on or not. Datatype Sharing Ownership Order RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics Whether the entity's brake lights are on or not. Datatype Sharing Ownership Order RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics Whether the entity's brake lights are on or not. Datatype Sharing Ownership Order RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics Whether the entity's formation lights are on or not. Datatype Sharing Ownership Order HatchStateEnum32 PS DA RO Update type Update Condition Conditional On change Semantics The state of the entity's (main) hatch. Datatype Sharing Ownership Order RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics The state of the entity's (main) hatch. Datatype Sharing Ownership Order RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics	RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Whether the entity's black out lights are on or not. Datatype Sharing Ownership DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Whether the entity's brake lights are on or not. Datatype Sharing Ownership Order Transportation RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Whether the entity's brake lights are on or not. Datatype Sharing Ownership Order Transportation RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Whether the entity's formation lights are on or not. Datatype Sharing Ownership Order Transportation HatchStateEnum32 PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics The state of the entity's (main) hatch. Datatype Sharing Ownership Order Transportation RPRboolean On change Semantics The state of the entity's (main) hatch. Datatype Sharing Ownership Order Transportation RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics The state of the entity's (main) hatch. Datatype Sharing Ownership Order Transportation RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change				

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
 InteriorLightsOn	Update type	Update Cond	lition							
Inherited from Platform in RPR-Physical_v2.0	Conditional	On change								
, , , , , , , , , , , , , , , , , , , ,	Semantics									
	Whether the entity's internal lights are on or not.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
 LandingLightsOn	Update type Update Condition									
Inherited from Platform in RPR-Physical_v2.0	Conditional On change									
	Semantics									
	Whether the entity's landing lights are on or not.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
	Update type Update Condition									
Inherited from Platform in RPR-Physical_v2.0	Conditional On change									
	Semantics									
	Whether the entity's weapon launcher is in the raised position.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
 NavigationLightsOn	Update type	Update Cond	lition							
Inherited from Platform in RPR-Physical_v2.0	Conditional	On change								
	Semantics									
	Whether the entity's navigation lights	are on or n	ot.							
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
 RampDeployed	Update type	Update Cond	lition							
Inherited from Platform in RPR-Physical_v2.0	Conditional	On change								
	Semantics									
	Whether the entity has deployed a ran	ıp or not.								

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
 RunningLightsOn	Update type	Update Cond	lition		1	,				
Inherited from Platform in RPR-Physical_v2.0	Conditional	On change								
, , , , , , , , , , , , , , , , , , ,	Semantics									
	Whether the entity's running lights are on or not.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
 SpotLightsOn	Update type Update Condition									
Inherited from Platform in RPR-Physical_v2.0	Conditional	On change								
, , , , , , , , , , , , , , , , , , , ,	Semantics	•								
	Whether the entity's spotlights are on	or not.								
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
ΓailLightsOn	Update type Update Condition									
Inherited from Platform in RPR-Physical_v2.0	Conditional On change									
	Semantics									
	Whether the entity's tail lights are on	or not.								
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	Integer16	PS	DA	RO	HLAbestEffort					
AcousticSignatureIndex	Update type	Update Cond	lition		•					
Inherited from PhysicalEntity in RPR-	Conditional	On change								
Physical_v2.0	Semantics									
	Index used to obtain the acoustics (so	und through	n air) signai	ture state o	of the entity.					
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	EntityTypeStruct	PS	DA	RO	HLAbestEffort					
AlternateEntityType	Update type	Update Cond	lition							
Inherited from PhysicalEntity in RPR-	Static	NA								
Physical_v2.0	Semantics									
	The category of entity to be used when	n viewed by	entities on	the 'oppos	rite' side.					
	The same of the sa									

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	ArticulatedParameterStructLengthles sArray	PS	DA	RO	HLAbestEffort					
ArticulatedParametersArray	Update type	Update Cond	dition		1					
Inherited from PhysicalEntity in RPR- Physical_v2.0	Conditional	On change								
1.19516111_7215	Semantics									
	Identification of the visible parts, and	dentification of the visible parts, and their states, of the entity which are capable of independent motion.								
	Datatype Sharing Ownership Order Transportation Dimensions									
	CamouflageEnum32	PS	DA	RO	HLAbestEffort					
CamouflageType	Update type	Update Cond	dition		1					
Inherited from PhysicalEntity in RPR-	Conditional On change									
Physical_v2.0	Semantics	Semantics								
	The type of camouflage in use (if any).									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	DamageStatusEnum32	PS	DA	RO	HLAbestEffort					
DamageState	Update type	Update Cond	dition		-					
Inherited from PhysicalEntity in RPR-	Conditional On change									
Physical_v2.0	Semantics									
	The state of damage of the entity.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
EngineSmokeOn	Update type	Update Cond	dition							
Inherited from PhysicalEntity in RPR-	Conditional	On change	?							
Physical_v2.0	Semantics									
	Whether the entity's engine is generate	ing smoke o	or not.							
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
FirePowerDisabled	Update type	Update Cond	dition							
Inherited from PhysicalEntity in RPR-	Conditional	On change	?							
Physical_v2.0	Semantics									
	Whether the entity's main weapon syst	tem has bee	n disabled	or not.						

Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
RPRboolean	PS	DA	RO	HLAbestEffort					
Update type	Update Con	dition			<u> </u>				
Conditional	On change								
Semantics	Semantics								
Whether the entity is on fire (with vis	sible flames)	or not.							
Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
ForceIdentifierEnum8	PS	DA	RO	HLAbestEffort					
Update type	Update Con	dition	•		·				
Conditional	On change	ę							
Semantics	Semantics								
The identification of the force that th	e entity belo	ngs to.							
Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
RPRboolean	PS	DA	RO	HLAbestEffort					
Update type	Update Con	dition							
Conditional On change									
Semantics									
Whether the entity has the capability	to supply of	ther entities	with amm	unition.					
Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
RPRboolean	PS	DA	RO	HLAbestEffort					
Update type	Update Con	dition		•	·				
Conditional	On change	2							
Semantics	•								
Whether the entity has the capability	to supply of	ther entities	with fuel	or not.					
Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
RPRboolean	PS	DA	RO	HLAbestEffort					
Update type	Update Con	dition	•						
TEntity in RPR- Conditional On change									
Semantics									
Whether the entity has the capability	to recover o	other entitie.	s or not.						
	RPRboolean Update type Conditional Semantics Whether the entity is on fire (with vis.) Datatype ForceIdentifierEnum8 Update type Conditional Semantics The identification of the force that the Datatype RPRboolean Update type Conditional Semantics Whether the entity has the capability Datatype RPRboolean Update type Conditional Semantics Whether the entity has the capability Datatype RPRboolean Update type Conditional Semantics Whether the entity has the capability Datatype RPRboolean Update type Conditional Semantics Whether the entity has the capability Datatype RPRboolean Update type Conditional Semantics	RPRboolean Update type Update type Update Con Conditional On change Semantics Whether the entity is on fire (with visible flames) Datatype ForceIdentifierEnum8 PS Update type Update Con Conditional On change Semantics The identification of the force that the entity below Datatype RPRboolean PS Update type Update Con Conditional On change Semantics Whether the entity has the capability to supply on Datatype RPRboolean PS Update type Update Con Conditional On change Semantics Whether the entity has the capability to supply on Conditional On change Semantics Whether the entity has the capability to supply on Conditional Semantics Whether the entity has the capability to supply on Conditional Semantics Whether the entity has the capability to supply on Datatype Sharing RPRboolean PS Update type Update Con Conditional On change Semantics Update type Update Con Conditional On change Semantics	RPRboolean Update type Update Condition Conditional On change Semantics Whether the entity is on fire (with visible flames) or not. Datatype Sharing Conditional On change Semantics Update Condition Conditional On change Semantics The identification of the force that the entity belongs to. Datatype Sharing RPRboolean Update type Update Condition Conditional On change Semantics Whether the entity has the capability to supply other entities Datatype Sharing RPRboolean PS DA Update type Update Condition Conditional On change Semantics Whether the entity has the capability to supply other entities Datatype RPRboolean PS DA Update type Update Condition Conditional On change Semantics Whether the entity has the capability to supply other entities Datatype Sharing Semantics Whether the entity has the capability to supply other entities Datatype Sharing Ownership RPRboolean PS DA Update type Update Condition Conditional On change Semantics	RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics Whether the entity is on fire (with visible flames) or not. Datatype Sharing Ownership Order ForceIdentifierEnum8 PS DA RO Update type Update Condition Conditional On change Semantics The identification of the force that the entity belongs to. Datatype Sharing Ownership Order RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics Whether the entity has the capability to supply other entities with amm Datatype Sharing Ownership Order RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics Whether the entity has the capability to supply other entities with amm Datatype Sharing Ownership Order RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics Whether the entity has the capability to supply other entities with fuel of the properties of the force of the properties of th	RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Whether the entity is on fire (with visible flames) or not. Datatype Sharing Ownership Order Transportation ForceldentifierEnum8 PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics The identification of the force that the entity belongs to. Datatype Sharing Ownership Order Transportation RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Whether the entity has the capability to supply other entities with ammunition. Datatype Sharing Ownership Order Transportation RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Whether the entity has the capability to supply other entities with ammunition. Datatype Sharing Ownership Order Transportation RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Whether the entity has the capability to supply other entities with fuel or not. Datatype Sharing Ownership Order Transportation RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Whether the entity has the capability to supply other entities with fuel or not. Datatype Sharing Ownership Order Transportation RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change				

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	RPRboolean	PS	DA	RO	HLAbestEffort						
HasRepairCap	Update type	Update Con	dition								
Inherited from PhysicalEntity in RPR-	Conditional	On change									
Physical_v2.0	Semantics	Į.									
	Whether the entity has the capability i	o repair oti	her entities	or not.							
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	RPRboolean	PS	DA	RO	HLAbestEffort						
Immobilized	Update type	Update Con	dition		•						
Inherited from PhysicalEntity in RPR-	Conditional	On change	?								
Physical_v2.0	Semantics										
	Whether the entity is immobilized or n	Whether the entity is immobilized or not.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	Integer16	PS	DA	RO	HLAbestEffort						
InfraredSignatureIndex	Update type	Update Cond	dition								
Inherited from PhysicalEntity in RPR-	Conditional	On change	hange								
Physical_v2.0	Semantics										
	Index used to obtain the infra-red sign	iature state	of the entity	y.							
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	RPRboolean	PS	DA	RO	HLAbestEffort						
IsConcealed	Update type	Update Cond	dition	•	•						
Inherited from PhysicalEntity in RPR-	Conditional	On change	?								
Physical_v2.0	Semantics										
	Whether the entity is concealed or not	•									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	VelocityDecimeterPerSecondInteger 16	PS	DA	RO	HLAbestEffort						
LiveEntityMeasuredSpeed	Opdate type Opdate Condition										
Inherited from PhysicalEntity in RPR- Physical_v2.0											
· -	Semantics										
	The entity's own measurement of spee	d (e.g. air s	peed for air	craft).							
	A CONTRACTOR OF THE STORY OF THE STORY										

Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
MarkingStruct	PS	DA	RO	HLAbestEffort				
Update type	Update Cond	lition						
Conditional	On change							
Semantics								
A unique marking or combination of c	characters u	ised to disti	nguish the	entity from other entities.				
Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
RPRboolean	PS	DA	RO	HLAbestEffort				
Update type	Update Cond	lition						
Conditional	Conditional On change							
Semantics	•							
Whether the entity's power plant is on or not.								
Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
PropulsionSystemDataStructLengthl essArray	PS	DA	RO	HLAbestEffort				
Update type Update Condition								
Conditional On change								
Semantics								
The basic operating data of the propu	lsion systen	ns aboard th	ne entity.					
Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
Integer16	PS	DA	RO	HLAbestEffort				
Update type	Update Cond	dition						
Conditional	On change							
Semantics								
Index used to obtain the radar cross s	ection signa	ature state o	of the entity					
Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
RPRboolean	PS	DA	RO	HLAbestEffort				
Update type	Update Cond	dition						
Conditional On change								
Semantics								
Whether the entity is generating smok	e or not (in	tentional or	unintentio	nal).				
	MarkingStruct Update type Conditional Semantics A unique marking or combination of or Datatype RPRboolean Update type Conditional Semantics Whether the entity's power plant is on Datatype PropulsionSystemDataStructLengthl essArray Update type Conditional Semantics The basic operating data of the propurational Datatype Integer16 Update type Conditional Semantics Index used to obtain the radar cross son Datatype RPRboolean Update type Conditional Semantics Index used to obtain the radar cross son Datatype RPRboolean Update type Conditional Semantics	MarkingStruct Update type Update Cond Conditional On change Semantics A unique marking or combination of characters to Datatype RPRboolean PS Update type Update Cond Conditional On change Semantics Whether the entity's power plant is on or not. Datatype PropulsionSystemDataStructLengthl essArray Update type Update Cond Conditional On change Semantics The basic operating data of the propulsion system Datatype Sharing Integer16 PS Update type Update Cond Conditional On change Semantics Index used to obtain the radar cross section signe Datatype RPRboolean PS Update type Update Cond Conditional On change Semantics Index used to obtain the radar cross section signe Datatype RPRboolean PS Update type Update Cond Conditional On change Semantics Index used to obtain the radar cross section signe Datatype RPRboolean On change Semantics Update type Update Cond Conditional On change Semantics	MarkingStruct PS DA Update type Update Condition Conditional On change Semantics A unique marking or combination of characters used to distin Datatype Sharing Ownership RPRboolean PS DA Update type Update Condition Conditional On change Semantics Whether the entity's power plant is on or not. Datatype Sharing Ownership PropulsionSystemDataStructLengthl PS DA Update type Update Condition Conditional On change Semantics The basic operating data of the propulsion systems aboard the Datatype Sharing Ownership Integer16 PS DA Update type Update Condition Conditional On change Semantics Index used to obtain the radar cross section signature state of Datatype Sharing Ownership RPRboolean PS DA Update type Update Condition Conditional On change Semantics Index used to obtain the radar cross section signature state of Datatype Sharing Ownership RPRboolean PS DA Update type Update Condition Conditional On change Semantics Index used to obtain the radar cross section signature state of Datatype Sharing Ownership RPRboolean PS DA Update type Update Condition Conditional On change	MarkingStruct PS DA RO Update type Update Condition Conditional On change Semantics A unique marking or combination of characters used to distinguish the organization of characters used to obtain the radar cross section systems of characters used to of the entity. Datatype Update Condition Conditional On characters used to distinguish the organization of characters used to obtain the radar cross section signature state of the entity of characters used to obtain the radar cross section signature state of the entity of characters used to obtain the radar cross section signature state of the entity of characters used to obtain the radar cross section signature state of the entity of characters used to obtain the radar cross section signature state of the entity of characters used to obtain the radar cross section signature state of the entity of characters used to obtain the characters u	MarkingStruct PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics A unique marking or combination of characters used to distinguish the entity from other entities. Datatype Sharing Ownership Order Transportation RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Whether the entity's power plant is on or not. Datatype Sharing Ownership Order Transportation PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Whether the entity's power plant is on or not. Datatype Sharing Ownership Order Transportation PropulsionSystemDataStructLengthl PS DA RO HLAbestEffort Conditional On change Semantics The basic operating data of the propulsion systems aboard the entity. Datatype Sharing Ownership Order Transportation Integer16 PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Index used to obtain the radar cross section signature state of the entity. Datatype Sharing Ownership Order Transportation HLAbestEffort Update type Update Condition Conditional On change Semantics Index used to obtain the radar cross section signature state of the entity. Datatype Sharing Ownership Order Transportation RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change			

Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
RPRboolean	PS	DA	RO	HLAbestEffort						
Update type	Update Cond	dition		1						
Conditional	On change	?								
Semantics										
Whether the entity has deployed tent of	or not.									
Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
TrailingEffectsCodeEnum32	PS	DA	RO	HLAbestEffort						
Update type Update Condition										
Conditional On change										
Semantics	Semantics									
The type and size of any trail that the entity is making.										
Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
VectoringNozzleSystemDataStructL engthlessArray	PS	DA	RO	HLAbestEffort						
Update type Update Condition										
Conditional On change										
Semantics	Semantics									
The basic operational data for the vec	ctoring nozz	le systems d	aboard the	e entity.						
Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
EntityTypeStruct	PS	DA	RO	HLAbestEffort						
Update type	Update Cond	dition								
Static	NA									
Semantics										
The category of the entity.										
Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
EntityIdentifierStruct	PS	DA	RO	HLAbestEffort						
Update type	Update Cond	dition								
Static	NA									
Semantics	•									
The unique identifier for the entity ins	tance.									
	RPRboolean Update type Conditional Semantics Whether the entity has deployed tent of Datatype TrailingEffectsCodeEnum32 Update type Conditional Semantics The type and size of any trail that the Datatype VectoringNozzleSystemDataStructLengthlessArray Update type Conditional Semantics The basic operational data for the vectority TypeStruct Update type EntityTypeStruct Update type Static Semantics The category of the entity. Datatype EntityIdentifierStruct Update type Static Semantics Semantics The category of the entity. Datatype EntityIdentifierStruct Update type Static Semantics	RPRboolean Update type Update Com Conditional On change Semantics Whether the entity has deployed tent or not. Datatype TrailingEffectsCodeEnum32 PS Update type Update Conditional On change Semantics The type and size of any trail that the entity is made Datatype Sharing VectoringNozzleSystemDataStructL engthlessArray Update type Update Conditional On change Semantics The basic operational data for the vectoring noza Datatype Sharing EntityTypeStruct PS Update type Update Conditional Semantics The category of the entity. Datatype EntityIdentifierStruct PS Update type Update Conditional Semantics The category of the entity. Datatype EntityIdentifierStruct PS Update type Update Conditional Sharing EntityIdentifierStruct PS Update type Update Conditional Static NA	RPRboolean PS DA Update type Update Condition Conditional On change Semantics Whether the entity has deployed tent or not. Datatype Sharing Ownership TrailingEffectsCodeEnum32 PS DA Update type Update Condition Conditional On change Semantics The type and size of any trail that the entity is making. Datatype Sharing Ownership VectoringNozzleSystemDataStructL engthlessArray Update type Update Condition Conditional On change Semantics The basic operational data for the vectoring nozzle systems of Datatype Sharing Ownership EntityTypeStruct PS DA Update type Update Condition Static NA Semantics The category of the entity. Datatype Sharing Ownership EntityIdentifierStruct PS DA Update Condition Static NA Semantics The Jupdate Condition Static NA Semantics The Update Condition Static NA Semantics The Update Condition Static NA	RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics Whether the entity has deployed tent or not. Datatype Sharing Ownership Order TrailingEffectsCodeEnum32 PS DA RO Update type Update Condition Conditional On change Semantics The type and size of any trail that the entity is making. Datatype Sharing Ownership Order VectoringNozzleSystemDataStructL engthlessArray Update type Update Condition Conditional On change Semantics The basic operational data for the vectoring nozzle systems aboard the Datatype Sharing Ownership Order EntityTypeStruct PS DA RO Update type Update Condition Static NA Semantics The category of the entity. Datatype Sharing Ownership Order EntityIdentifierStruct PS DA RO Update type Update Condition Static NA Semantics The category of the entity. Datatype Sharing Ownership Order EntityIdentifierStruct PS DA RO Update type Update Condition Static NA Semantics The category of the entity. Datatype Sharing Ownership Order EntityIdentifierStruct PS DA RO Update type Update Condition Static NA Semantics	RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Whether the entity has deployed tent or not. Datatype Sharing Ownership Order Transportation TrailingEffectsCodeEnum32 PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics The type and size of any trail that the entity is making. Datatype Sharing Ownership Order Transportation VectoringNozzleSystemDataStructL PS DA RO HLAbestEffort update type Update Condition Conditional On change Semantics The basic operational data for the vectoring nozzle systems aboard the entity. Datatype Sharing Ownership Order Transportation WettoringNozzleSystemDataStructL PS DA RO HLAbestEffort update type Update Condition Conditional On change Semantics The basic operational data for the vectoring nozzle systems aboard the entity. Datatype Sharing Ownership Order Transportation EntityTypeStruct PS DA RO HLAbestEffort Update type Update Condition Static NA Semantics The category of the entity. Datatype Sharing Ownership Order Transportation EntityIdentifierStruct PS DA RO HLAbestEffort Update type Update Condition Static NA Semantics					

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	IsPartOfStruct	PS	DA	RO	HLAbestEffort					
	Update type	Update Cond	dition		1					
IsPartOf	Conditional	On change								
Inherited from BaseEntity in RPR-Base_v2.0	Semantics									
	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 HostEntityIdentifier 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.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	SpatialVariantStruct	PS	DA	RO	HLAbestEffort					
Spatial Spatial	Update type Update Condition									
Inherited from BaseEntity in RPR-Base_v2.0	Conditional On change RPRnoteBase10 RPRnoteBase11 RPRnoteBase12 RPRnoteBase13 RPRnoteBase14									
	Semantics									
	Spatial state stored in one variant record attribute.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	SpatialVariantStruct	PS	DA	RO	HLAbestEffort					
RelativeSpatial	Update type	Update Cond	dition							
Inherited from BaseEntity in RPR-Base v2.0	Conditional	On change	RPRnoteBase10) RPRnoteBase ²	1 RPRnoteBase12 RPRnoteBase13 RPRn	oteBase14				
	Semantics									
	Relative spatial state stored in one va	riant record	l attribute.							
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	HLAtoken	PS	DA	TS	HLAreliable					
HLAprivilegeToDeleteObject	Update type	Update Cond	dition							
Inherited from HLAobjectRoot in MIM	Static	NA								
	Semantics	•								

3.1.8. **NETN_NonHuman**

Full Name: HLAobjectRoot.BaseEntity.PhysicalEntity.Lifeform.NonHuman.NETN_NonHuman

Sharing: Publish/Subscribe
Semantics: Extensions for NETN

Attributes:

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	HLAunicodeString	PS		RO	HLAbestEffort					
	Update type	Update Con	dition							
Callsign	Static	NA								
	Semantics									
	The name of the object.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	ActiveStatusEnum8	PS	DA	RO	HLAbestEffort					
	Update type Update Condition									
Status	Conditional	On change	?							
	Semantics									
	If an instance shall be taken into account by federates									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	AggregateMissionEnum16	PS	DA	RO	HLAbestEffort					
	Update type	ate type Update Condition								
Activity	Conditional	On change	?							
	Semantics									
	The activity of the object.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	<u>UuidArrayOfHLAbyte16</u>	PS		RO	HLAbestEffort					
	Update type	Update Con	dition							
	Static	NA								
UniqueID	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.									

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
FlashLightsOn	Update type	Update Con	dition			·				
Inherited from Lifeform in RPR-Physical_v2.0	Conditional	On change	?							
	Semantics									
	Whether the lifeform's flash lights are	on or not.								
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	StanceCodeEnum32	PS	DA	RO	HLAbestEffort					
StanceCode	Update type Update Condition									
Inherited from Lifeform in RPR-Physical_v2.0	Conditional	On change	?							
	Semantics	•								
	The stance of the lifeform.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
PrimaryWeaponState [1]	WeaponStateEnum32	PS	DA	RO	HLAbestEffort					
	Update type Update Condition									
	Conditional On change									
	Semantics									
	The state of the soldier's primary wea	The state of the soldier's primary weapon system.								
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	WeaponStateEnum32	PS	DA	RO	HLAbestEffort					
SecondaryWeaponState	Update type	Update Con	dition	•	·					
Inherited from Lifeform in RPR-Physical_v2.0	Conditional	On change	?							
	Semantics	•								
	The state of the soldier's secondary w	eapon syste	em.							
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	ComplianceStateEnum32	PS	DA	RO	HLAbestEffort					
ComplianceState	Update type	Update Con	dition							
Inherited from Lifeform in RPR-Physical_v2.0	Conditional	On change	?							
, , , , , , , , , , , , , , , , , , ,	Semantics									
	The compliance of the lifeform.									

	atype		Ownership	Order	Transportation	Dimensions			
	eger16	PS	DA	RO	HLAbestEffort				
AcousticSignatureIndex Upd	date type	Update Cond	ition		1				
	nditional	On change							
Physical_v2.0 Sem	nantics								
Ind	lex used to obtain the acoustics (sou	ınd through	air) signat	ure state o	f the entity.				
Dat	atype	Sharing	Ownership	Order	Transportation	Dimensions			
Ent	tityTypeStruct	PS	DA	RO	HLAbestEffort				
AlternateEntityType Upd	date type	Update Cond	ition						
Inherited from PhysicalEntity in RPR-	ntic	NA							
Physical_v2.0	Semantics								
The	The category of entity to be used when viewed by entities on the 'opposite' side.								
Dat	atype	Sharing	Ownership	Order	Transportation	Dimensions			
sAı	ticulatedParameterStructLengthles rray	PS	DA	RO	HLAbestEffort				
1 -	Update type Update Condition								
Inherited from PhysicalEntity in RPR- Physical_v2.0	Conditional On change								
Sen	Semantics								
Ide	entification of the visible parts, and	their states,	of the entir	ty which ar	e capable of independent mot	ion.			
Dat	atype	Sharing	Ownership	Order	Transportation	Dimensions			
Car	mouflageEnum32	PS	DA	RO	HLAbestEffort				
CamouflageType	date type	Update Cond	ition						
	nditional	On change							
Physical_v2.0 Sem	nantics								
The	e type of camouflage in use (if any).								
Dat	atype	Sharing	Ownership	Order	Transportation	Dimensions			
Da	mageStatusEnum32	PS	DA	RO	HLAbestEffort				
DamageState Upd	date type	Update Cond	ition						
	nditional	On change							
Physical_v2.0	nantics								
The	e state of damage of the entity.								

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
EngineSmokeOn	Update type	Update Cond	Update Condition							
Inherited from PhysicalEntity in RPR-	Conditional	On change	!							
Physical_v2.0	Semantics	Semantics								
	Whether the entity's engine is generating smoke or not.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
FirePowerDisabled	Update type	Update Cond	dition	•	-					
Inherited from PhysicalEntity in RPR-	Conditional	On change	?							
Physical_v2.0	Semantics									
	Whether the entity's main weapon sys	tem has bee	n disabled	or not.						
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
FlamesPresent	Update type	Update Cond	dition							
Inherited from PhysicalEntity in RPR- Physical_v2.0	Conditional	On change	?							
Frysicai_v2.0	Semantics									
	Whether the entity is on fire (with visi	ble flames)	or not.							
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	ForceIdentifierEnum8	PS	DA	RO	HLAbestEffort					
ForceIdentifier	Update type	Update Cond	dition		•					
Inherited from PhysicalEntity in RPR-	Conditional	On change	?							
Physical_v2.0	Semantics									
	The identification of the force that the	entity belo	ngs to.							
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
HasAmmunitionSupplyCap	Update type	Update Cond	dition	•						
Inherited from PhysicalEntity in RPR-	Conditional	On change	?							
Physical_v2.0	Semantics									
	Whether the entity has the capability	to supply ot	her entities	with amm	unition.					

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
HasFuelSupplyCap	Update type	Update Con	dition							
Inherited from PhysicalEntity in RPR-	Conditional	On change	?							
Physical_v2.0	Semantics									
	Whether the entity has the capability to supply other entities with fuel or not.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
HasRecoveryCap	Update type	Update Con	dition			·				
Inherited from PhysicalEntity in RPR-	Conditional	On change	?							
Physical_v2.0	Semantics	Semantics								
	Whether the entity has the capability	to recover o	other entities	s or not.						
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
HasRepairCap	Update type	Update Con	dition	•						
Inherited from PhysicalEntity in RPR-	Conditional On change									
Physical_v2.0	Semantics									
	Whether the entity has the capability	to repair ot	her entities	or not.						
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
Immobilized	Update type	Update Con	dition		•	·				
Inherited from PhysicalEntity in RPR-	Conditional	On change	?							
Physical_v2.0	Semantics	•								
	Whether the entity is immobilized or	not.								
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	Integer16	PS	DA	RO	HLAbestEffort					
InfraredSignatureIndex	Update type	Update Con	dition	•	<u> </u>					
Inherited from PhysicalEntity in RPR-	Conditional	On change	?							
Physical_v2.0	Semantics									
	Index used to obtain the infra-red sig	nature state	of the entit	y.						

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
IsConcealed	Update type	Update Con	dition							
Inherited from PhysicalEntity in RPR-	Conditional On change									
Physical_v2.0	Semantics									
	Whether the entity is concealed or not	•								
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	VelocityDecimeterPerSecondInteger 16	PS	DA	RO	HLAbestEffort					
LiveEntityMeasuredSpeed	Update type Update Condition									
Inherited from PhysicalEntity in RPR- Physical_v2.0	Conditional	On change	ę							
	Semantics									
	The entity's own measurement of spee	d (e.g. air s	speed for air	rcraft).						
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	MarkingStruct	PS	DA	RO	HLAbestEffort					
Marking	Update type Update Condition									
inherited from PhysicalEntity in RPR- Physical_v2.0	Conditional On change									
Thysical_v2.0	Semantics									
	A unique marking or combination of characters used to distinguish the entity from other entities.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
PowerPlantOn	Update type	Update Con	dition							
Inherited from PhysicalEntity in RPR- Physical_v2.0	Conditional	On change	2							
Thysical_v2.0	Semantics									
	Whether the entity's power plant is on	or not.								
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	PropulsionSystemDataStructLengthl essArray	PS	DA	RO	HLAbestEffort					
PropulsionSystemsData	Update type	Update Con	dition							
Inherited from PhysicalEntity in RPR- Physical_v2.0	Conditional	On change	2							
	Semantics									
	The basic operating data of the propu	lsion syster	ns aboard ti	he entity.						

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	Integer16	PS	DA	RO	HLAbestEffort					
RadarCrossSectionSignatureIndex		Update Condition								
Inherited from PhysicalEntity in RPR-	Conditional On change									
Physical_v2.0	Semantics									
	Index used to obtain the radar cross s	ection signa	ature state o	of the entity	·					
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
SmokePlumePresent	Update type Update Condition									
Inherited from PhysicalEntity in RPR-	Conditional	On change								
Physical_v2.0	Semantics									
	Whether the entity is generating smoke or not (intentional or unintentional).									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
TentDeployed	Update type	Update Cond	lition							
Inherited from PhysicalEntity in RPR- Physical_v2.0	Conditional On change									
Fnysicai_v2.0	Semantics									
	Whether the entity has deployed tent of	or not.								
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	TrailingEffectsCodeEnum32	PS	DA	RO	HLAbestEffort					
TrailingEffectsCode	Update type	Update Cond	lition							
Inherited from PhysicalEntity in RPR-	Conditional	On change								
Physical_v2.0	Semantics									
	The type and size of any trail that the	entity is ma	king.							
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	VectoringNozzleSystemDataStructL engthlessArray	PS	DA	RO	HLAbestEffort					
VectoringNozzleSystemData	Update type	Update Cond	lition		1					
Inherited from PhysicalEntity in RPR- Physical_v2.0	Conditional	On change								
	Semantics	!								
	The basic operational data for the vec	ctoring nozz	le systems d	aboard the	entity.					

Detetyne	Charing	Ownorshin	Ondon	Transportation	Dimensions				
				1	Difficusions				
• • • •			IKO	TILAUESTEHOIT					
	_	lition							
Static NA									
Semantics									
The category of the entity.									
Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
EntityIdentifierStruct	PS	DA	RO	HLAbestEffort					
Update type Update Condition									
Static NA									
Semantics									
The unique identifier for the entity instance.									
Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
IsPartOfStruct	PS	DA	RO	HLAbestEffort					
Update type	Update Cond	lition	•						
Conditional	On change								
Semantics									
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 HostEntityIdentifier 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.									
Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
SpatialVariantStruct	PS	DA	RO	HLAbestEffort					
Update type	Update Cond	lition							
Conditional	On change	RPRnoteBase10	RPRnoteBase1	1 RPRnoteBase12 RPRnoteBase13 RPRno	oteBase14				
Semantics									
Spatial state stored in one variant rec	ord attribut	e.							
	Semantics The category of the entity. Datatype EntityIdentifierStruct Update type Static Semantics The unique identifier for the entity ins Datatype IsPartOfStruct Update type Conditional Semantics Defines if the entity if a constituent pathost EntityIdentifier shall be set to the host entity. If the entity is not a constitue set to the empty string. Datatype SpatialVariantStruct Update type Conditional Semantics	EntityTypeStruct Update type Update type Update Conc Static NA Semantics The category of the entity. Datatype EntityIdentifierStruct Update type Update Conc Static NA Semantics The unique identifier for the entity instance. Datatype IsPartOfStruct Update type Update Conc Conditional On change Semantics Defines if the entity if a constituent part of another Host EntityIdentifier shall be set to the EntityIdenthost entity. If the entity is not a constituent part of be set to the empty string. Datatype Sharing SpatialVariantStruct PS Update type Update Conc Conditional On change SpatialVariantStruct PS Update type Update Conc Conditional On change SpatialVariantStruct On change Conditional On change	EntityTypeStruct Update type Update Condition Static NA Semantics The category of the entity. Datatype EntityIdentifierStruct Update Condition Static NA Semantics Update type Update Condition Static NA Semantics The unique identifier for the entity instance. Datatype IsPartOfStruct Update type Update Condition Conditional On change Semantics Defines if the entity if a constituent part of another entity (de Host EntityIdentifier shall be set to the EntityIdentifier of the host entity. If the entity is not a constituent part of another entity be set to the empty string. Datatype Sharing Ownership Sharing Ownership Sharing Ownership SpatialVariantStruct PS DA Update Condition Conditional On change RPRnoteBase10 Conditional On change	EntityTypeStruct Update type Update Condition Static NA Semantics The category of the entity. Datatype EntityIdentifierStruct PS DA RO Update Condition Static NA Semantics The unique identifier for the entity instance. Datatype Sharing Sharing Ownership Order NA Semantics The unique identifier for the entity instance. Datatype IsPartOfStruct PS DA RO Update Condition Conditional On change Semantics Defines if the entity if a constituent part of another entity (denoted the hence the entity instance) for the entity instance another entity. If the entity is not a constituent part of another entity then the beset to the empty string. Datatype Sharing Ownership Order SpatialVariantStruct PS DA RO Update Condition Order SpatialVariantStruct PS DA RO Update Condition Order SpatialVariantStruct PS DA RO Update Condition On change RPRnoteBase10 RPRnoteBase1 Conditional On change RPRnoteBase10 RPRnoteBase1	EntityTypeStruct PS DA RO HLAbestEffort Update type Update Condition Static NA Semantics The category of the entity. Datatype Sharing Ownership Order Transportation EntityIdentifierStruct PS DA RO HLAbestEffort Update type Update Condition Static NA Semantics The unique identifier for the entity instance. Datatype Sharing Ownership Order Transportation EspartOfStruct PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics 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 HostEntityIdentifier shall be set to the empty string. Datatype Sharing Ownership Order Transportation Spatial VariantStruct PS DA RO HLAbestEffort Update type Update Condition On change RPRnoteBase10 RPRnoteBase12 RPRnoteBase13 RPRn Ocnditional On change On change RPRnoteBase10 RPRnoteBase11 RPRnoteBase12 RPRnoteBase13 RPRn Ocnditional On change				

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	SpatialVariantStruct	PS	DA	RO	HLAbestEffort					
RelativeSpatial	Update type	Update Cond	lition		1 RPRnoteBase12 RPRnoteBase13 RPRn					
Inherited from BaseEntity in RPR-Base_v2.0	oteBase14									
_	Semantics									
	Relative spatial state stored in one variant record attribute.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	HLAtoken	PS	DA	TS	HLAreliable					
HLAprivilegeToDeleteObject	Update type	Update Cond	lition							
Inherited from HLAobjectRoot in MIM	Static	NA								
	Semantics									

3.1.9. **NETN_Human**

Full Name: HLAobjectRoot.BaseEntity.PhysicalEntity.Lifeform.Human.NETN_Human

Sharing: Publish/Subscribe
Semantics: Extensions for NETN

Attributes:

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

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	AggregateMissionEnum16	PS		RO	HLAbestEffort					
	Update type	Update Con	dition							
Activity	Conditional	nal On change								
	Semantics									
	The activity of the object.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	<u>UuidArrayOfHLAbyte16</u>	PS		RO	HLAbestEffort					
	Update type	Update Con	dition	•						
	Static	NA								
UniqueID	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.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
FlashLightsOn	Update type	Update Con	dition							
Inherited from Lifeform in RPR-Physical_v2.0	Conditional	On change	?							
	Semantics	•								
	Whether the lifeform's flash lights are on or not.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	StanceCodeEnum32	PS	DA	RO	HLAbestEffort					
StanceCode	Update type	Update Con	dition							
Inherited from Lifeform in RPR-Physical_v2.0	Conditional	On change	?							
	Semantics									
	The stance of the lifeform.									

Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
WeaponStateEnum32	PS	DA	RO	HLAbestEffort						
Update type	Update Cond	lition			-					
Conditional On change										
Semantics										
The state of the soldier's primary weapon system.										
Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
WeaponStateEnum32	PS	DA	RO	HLAbestEffort						
Update type Update Condition										
Conditional	On change									
Semantics										
The state of the soldier's secondary weapon system.										
Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
ComplianceStateEnum32	PS	DA	RO	HLAbestEffort						
Update type	Update Cond	lition								
Conditional On change										
Semantics										
The compliance of the lifeform.										
Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
Integer16	PS	DA	RO	HLAbestEffort						
Update type	Update Cond	lition			•					
Conditional	On change									
Semantics	•									
Index used to obtain the acoustics (so	und through	air) signat	ure state o	of the entity.						
Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
EntityTypeStruct	PS	DA	RO	HLAbestEffort						
Update type	Update Cond	lition	•	•	•					
Static	NA									
Semantics	•									
The category of entity to be used when viewed by entities on the 'opposite' side.										
	The state of the soldier's primary wead Datatype WeaponStateEnum32 Update type Conditional Semantics The state of the soldier's secondary weaponstatype ComplianceStateEnum32 Update type Conditional Semantics The compliance of the lifeform. Datatype Integer16 Update type Conditional Semantics Index used to obtain the acoustics (so Datatype EntityTypeStruct Update type Static Semantics	WeaponStateEnum32 PS Update type Update Cond Conditional On change Semantics The state of the soldier's primary weapon system. Datatype Sharing WeaponStateEnum32 PS Update type Update Cond Conditional On change Semantics The state of the soldier's secondary weapon system. Datatype Sharing ComplianceStateEnum32 PS Update type Update Cond Conditional On change Semantics The compliance of the lifeform. Datatype Sharing Integer16 PS Update type Update Cond Conditional On change Semantics Index used to obtain the acoustics (sound through Datatype Sharing EntityTypeStruct PS Update type Update Cond Static NA Semantics	WeaponStateEnum32 PS DA Update type Update Condition Conditional On change Semantics The state of the soldier's primary weapon system. Datatype Sharing Ownership WeaponStateEnum32 PS DA Update type Update Condition Conditional On change Semantics The state of the soldier's secondary weapon system. Datatype Sharing Ownership ComplianceStateEnum32 PS DA Update type Update Condition Conditional On change Semantics The compliance of the lifeform. Datatype Sharing Ownership Integer16 PS DA Update type Update Condition Conditional On change Semantics Index used to obtain the acoustics (sound through air) signated Datatype EntityTypeStruct PS DA Update Condition Static NA Semantics	WeaponStateEnum32 PS DA RO Update type Update Condition Conditional On change Semantics The state of the soldier's primary weapon system. Datatype Sharing Ownership Order WeaponStateEnum32 PS DA RO Update type Update Condition Conditional On change Semantics The state of the soldier's secondary weapon system. Datatype Sharing Ownership Order ComplianceStateEnum32 PS DA RO Update type Update Condition Conditional On change Semantics The compliance of the lifeform. Datatype Sharing Ownership Order Conditional On change Semantics The compliance of the lifeform. Datatype Sharing Ownership Order Integer16 PS DA RO Update type Update Condition Conditional On change Semantics Index used to obtain the acoustics (sound through air) signature state of the state of the state of the same part of the state of the same part of the sam	WeaponStateEnum32 PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics The state of the soldier's primary weapon system. Datatype Sharing Ownership DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics The state of the soldier's secondary weapon system. Datatype Sharing Ownership Order Transportation Conditional On change Semantics The state of the soldier's secondary weapon system. Datatype Sharing Ownership Order Transportation ComplianceStateEnum32 PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics The compliance of the lifeform. Datatype Sharing Ownership Order Transportation Integer16 PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Index used to obtain the acoustics (sound through air) signature state of the entity. Datatype Sharing Ownership Order Transportation EntityTypeStruct PS DA RO HLAbestEffort Update type Update Condition On change Semantics Index used to obtain the acoustics (sound through air) signature state of the entity. Datatype Sharing Ownership Order Transportation EntityTypeStruct PS DA RO HLAbestEffort Update type Update Condition Static NA Semantics					

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	ArticulatedParameterStructLengthles sArray	PS	DA	RO	HLAbestEffort						
ArticulatedParametersArray	Update type	ate type Update Condition									
Inherited from PhysicalEntity in RPR- Physical_v2.0	Conditional On change										
1.19516111_7215	Semantics										
	Identification of the visible parts, and their states, of the entity which are capable of independent motion.										
	Outatype Sharing Ownership Order Transportation Dimensions										
	CamouflageEnum32	PS	DA	RO	HLAbestEffort						
CamouflageType	Update type	Update Cond	dition		1						
Inherited from PhysicalEntity in RPR-	Conditional	On change	?								
Physical_v2.0	Semantics										
	The type of camouflage in use (if any)										
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	DamageStatusEnum32	PS	DA	RO	HLAbestEffort						
DamageState	Update type Update Condition										
Inherited from PhysicalEntity in RPR-	Conditional On change										
Physical_v2.0	Semantics										
	The state of damage of the entity.										
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	RPRboolean	PS	DA	RO	HLAbestEffort						
EngineSmokeOn	Update type	Update Cond	dition								
Inherited from PhysicalEntity in RPR-	Conditional	On change	?								
Physical_v2.0	Semantics										
	Whether the entity's engine is generate	ing smoke o	or not.								
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	RPRboolean	PS	DA	RO	HLAbestEffort						
FirePowerDisabled	Update type	Update Cond	dition								
Inherited from PhysicalEntity in RPR-	Conditional	On change	?								
Physical_v2.0	Semantics										
	Whether the entity's main weapon syst	tem has bee	n disabled	or not.							

Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
RPRboolean	PS	DA	RO	HLAbestEffort					
Update type	Update Con	dition			<u> </u>				
Conditional On change									
Semantics	•								
Whether the entity is on fire (with vis	sible flames)	or not.							
Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
ForceIdentifierEnum8	PS	DA	RO	HLAbestEffort					
Update type	Update Con	dition	•		·				
Conditional	On change	ę							
Semantics									
The identification of the force that th	e entity belo	ngs to.							
Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
RPRboolean	PS	DA	RO	HLAbestEffort					
Update type Update Condition									
Conditional On change									
Semantics									
Whether the entity has the capability	Whether the entity has the capability to supply other entities with ammunition.								
Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
RPRboolean	PS	DA	RO	HLAbestEffort					
Update type	Update Con	dition		•	·				
Conditional	On change	2							
Semantics	•								
Whether the entity has the capability	to supply of	ther entities	with fuel	or not.					
Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
RPRboolean	PS	DA	RO	HLAbestEffort					
Update type	Update Con	dition	•						
Conditional	On change	2							
Semantics									
Whether the entity has the capability	to recover o	other entitie.	s or not.						
	RPRboolean Update type Conditional Semantics Whether the entity is on fire (with vis.) Datatype ForceIdentifierEnum8 Update type Conditional Semantics The identification of the force that the Datatype RPRboolean Update type Conditional Semantics Whether the entity has the capability Datatype RPRboolean Update type Conditional Semantics Whether the entity has the capability Datatype RPRboolean Update type Conditional Semantics Whether the entity has the capability Datatype RPRboolean Update type Conditional Semantics Whether the entity has the capability Datatype RPRboolean Update type Conditional Semantics	RPRboolean Update type Update type Update Con Conditional On change Semantics Whether the entity is on fire (with visible flames) Datatype ForceIdentifierEnum8 PS Update type Update Con Conditional On change Semantics The identification of the force that the entity below Datatype RPRboolean PS Update type Update Con Conditional On change Semantics Whether the entity has the capability to supply on Datatype RPRboolean PS Update type Update Con Conditional On change Semantics Whether the entity has the capability to supply on Conditional On change Semantics Whether the entity has the capability to supply on Conditional Semantics Whether the entity has the capability to supply on Conditional Semantics Whether the entity has the capability to supply on Datatype Sharing RPRboolean PS Update type Update Con Conditional On change Semantics Update type Update Con Conditional On change Semantics	RPRboolean Update type Update Condition Conditional On change Semantics Whether the entity is on fire (with visible flames) or not. Datatype Sharing Conditional On change Semantics Update Condition Conditional On change Semantics The identification of the force that the entity belongs to. Datatype Sharing RPRboolean Update type Update Condition Conditional On change Semantics Whether the entity has the capability to supply other entities Datatype Sharing RPRboolean PS DA Update type Update Condition Conditional On change Semantics Whether the entity has the capability to supply other entities Datatype RPRboolean PS DA Update type Update Condition Conditional On change Semantics Whether the entity has the capability to supply other entities Datatype Sharing Semantics Whether the entity has the capability to supply other entities Datatype Sharing Ownership RPRboolean PS DA Update type Update Condition Conditional On change Semantics	RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics Whether the entity is on fire (with visible flames) or not. Datatype Sharing Ownership Order ForceIdentifierEnum8 PS DA RO Update type Update Condition Conditional On change Semantics The identification of the force that the entity belongs to. Datatype Sharing Ownership Order RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics Whether the entity has the capability to supply other entities with amm Datatype Sharing Ownership Order RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics Whether the entity has the capability to supply other entities with amm Datatype Sharing Ownership Order RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics Whether the entity has the capability to supply other entities with fuel of the properties of the force of the properties of th	RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Whether the entity is on fire (with visible flames) or not. Datatype Sharing Ownership Order Transportation ForceldentifierEnum8 PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics The identification of the force that the entity belongs to. Datatype Sharing Ownership Order Transportation RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Whether the entity has the capability to supply other entities with ammunition. Datatype Sharing Ownership Order Transportation RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Whether the entity has the capability to supply other entities with ammunition. Datatype Sharing Ownership Order Transportation RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Whether the entity has the capability to supply other entities with fuel or not. Datatype Sharing Ownership Order Transportation RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Whether the entity has the capability to supply other entities with fuel or not. Datatype Sharing Ownership Order Transportation RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change				

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
HasRepairCap	Update type	Update Cond	dition							
Inherited from PhysicalEntity in RPR-	Conditional On change									
Physical_v2.0	Semantics									
	Whether the entity has the capability i	o repair oti	her entities	or not.						
	Datatype	Sharing Ownership Order Transportation Dimensions								
	RPRboolean	PS	DA	RO	HLAbestEffort					
Immobilized	Update type Update Condition									
Inherited from PhysicalEntity in RPR-	Conditional	On change	?							
Physical_v2.0	Semantics									
	Whether the entity is immobilized or n	ot.								
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	Integer16	PS	DA	RO	HLAbestEffort					
InfraredSignatureIndex	Update type	Update Cond	dition							
Physical_v2.0	Conditional On change									
	Semantics									
	Index used to obtain the infra-red signature state of the entity.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
IsConcealed	Update type	Update Cond	dition	•	•					
Inherited from PhysicalEntity in RPR-	Conditional	On change	?							
Physical_v2.0	Semantics									
	Whether the entity is concealed or not	•								
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	VelocityDecimeterPerSecondInteger 16	PS	DA	RO	HLAbestEffort					
LiveEntityMeasuredSpeed	Update type	Update Con	dition	•	•	·				
Inherited from PhysicalEntity in RPR- Physical_v2.0	Conditional	On change	?							
· -	Semantics									
	The entity's own measurement of spee	d (e.g. air s	peed for air	craft).						

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	MarkingStruct	PS	DA	RO	HLAbestEffort					
Marking	Update type	Update Con	dition							
Inherited from PhysicalEntity in RPR-	Conditional On change									
Physical_v2.0	Semantics									
	A unique marking or combination of characters used to distinguish the entity from other entities.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
PowerPlantOn	Update type	Update Cond	dition	•						
Inherited from PhysicalEntity in RPR-	Conditional	On change	?							
Physical_v2.0	Semantics	•								
	Whether the entity's power plant is on	or not.								
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	PropulsionSystemDataStructLengthl essArray	PS	DA	RO	HLAbestEffort					
	Update type Update Condition									
Inherited from PhysicalEntity in RPR- Physical_v2.0	Conditional On change									
, -	Semantics									
	The basic operating data of the propulsion systems aboard the entity.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	Integer16	PS	DA	RO	HLAbestEffort					
${\bf Radar Cross Section Signature Index}$	Update type	Update Cond	dition							
Inherited from PhysicalEntity in RPR-	Conditional	On change	?							
Physical_v2.0	Semantics									
	Index used to obtain the radar cross s	ection sign	ature state d	of the entity						
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
SmokePlumePresent	Update type	Update Cond	dition							
Inherited from PhysicalEntity in RPR-	Conditional	On change	?							
Physical_v2.0	Semantics									
	Whether the entity is generating smok	e or not (in	tentional or	unintentio	nal).					

RPRboolean PS DA RO HLAbestEffort		Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
Conditional On change		RPRboolean	PS	DA	RO	HLAbestEffort					
Semantics Whether the entity has deployed tent or not. TrailingEffectsCode Datatype Sharing Ownership Order Transportation Dimensions	TentDeployed	Update type	Update Con	dition							
Semantics Whether the entity has deployed tent or not.		Conditional On change									
TrailingEffectsCode Inherited from PhysicalEntity in RPR- Physical_v2.0 Datatype Update type Update Condition Conditional On change Semantics The type and size of any trail that the entity is making. Datatype VectoringNozzleSystemData Inherited from PhysicalEntity in RPR- Physical_v2.0 Datatype Update type Update Condition Dimensions Conditional On change VectoringNozzleSystemData Inherited from PhysicalEntity in RPR- Physical_v2.0 Datatype Update type Update Condition Update type Update Condition On change Semantics The basic operational data for the vectoring nozzle systems aboard the entity. Datatype Sharing Ownership Order Transportation Dimensions Dimensions Order Transportation Dimensions Dimensions Dimensions Dimensions Dimensions Dimensions On change Semantics The basic operational data for the vectoring nozzle systems aboard the entity. Datatype Sharing Ownership Ownership Order Transportation Dimensions Dimensions	Physicai_v2.0	Semantics									
TrailingEffectsCode Inherited from PhysicalEntity in RPR- Physical_v2.0 TrailingEffectsCode Inherited from PhysicalEntity in RPR- Physical_v2.0 The type and size of any trail that the entity is making. Datatype Sharing VectoringNozzleSystemData Inherited from PhysicalEntity in RPR- Physical_v2.0 Datatype VectoringNozzleSystemData Inherited from PhysicalEntity in RPR- Physical_v2.0 Datatype Update type Update Condition Conditional On change Semantics The basic operational data for the vectoring nozzle systems aboard the entity. Datatype Sharing Ownership Ownership Order Transportation Dimensions Conditional On change Semantics The basic operational data for the vectoring nozzle systems aboard the entity. EntityType Inherited from BaseEntity in RPR-Base_v2.0 Static NA		Whether the entity has deployed tent or not.									
TrailingEffectsCode Inherited from Physical_v2.0 Inherited from Physical_v2.0 Conditional On change Semantics The type and size of any trail that the entity is making. VectoringNozzleSystemData Inherited from PhysicalEntity in RPR- Physical_v2.0 VectoringNozzleSystemData Inherited from PhysicalEntity in RPR- Physical_v2.0 EntityType Inherited from BaseEntity in RPR-Base_v2.0		Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
Inherited from Physical Entity in RPR- Physical_v2.0 Conditional On change Semantics The type and size of any trail that the entity is making. Datatype VectoringNozzleSystemData Inherited from PhysicalEntity in RPR- Physical_v2.0 Datatype Update type Update Condition On change Semantics The basic operational data for the vectoring nozzle systems aboard the entity. EntityType Inherited from BaseEntity in RPR-Base_v2.0 Conditional On change Sharing Ownership Order Transportation Dimensions Static NA		TrailingEffectsCodeEnum32	PS	DA	RO	HLAbestEffort					
Semantics The type and size of any trail that the entity is making.	TrailingEffectsCode	Update type Update Condition									
Semantics The type and size of any trail that the entity is making.	Inherited from PhysicalEntity in RPR-	Conditional	On change	?							
VectoringNozzleSystemData Inherited from PhysicalEntity in RPR- Physical_v2.0 Datatype Update type Update Condition Conditional On change Semantics The basic operational data for the vectoring nozzle systems aboard the entity. Datatype EntityType Inherited from BaseEntity in RPR-Base_v2.0 Datatype Update Condition Update Sharing Ownership Order Transportation Dimensions Dimensions Update Sharing Ownership Order Transportation Update Sharing Ownership Order Update Condition Update Condition Update Condition Static	Physical_v2.0	Semantics	•								
VectoringNozzleSystemData Inherited from PhysicalEntity in RPR- Physical_v2.0 Conditional Conditional Datatype EntityType Inherited from BaseEntity in RPR-Base_v2.0 VectoringNozzleSystemDataStructL PS DA RO HLAbestEffort Update Condition Condition On change Semantics The basic operational data for the vectoring nozzle systems aboard the entity. Datatype EntityTypeStruct PS DA RO HLAbestEffort Dimensions Dimensions Dimensions Dimensions Dimensions Static NA		The type and size of any trail that the	entity is ma	king.							
VectoringNozzleSystemData Inherited from PhysicalEntity in RPR- Physical_v2.0 Conditional Semantics The basic operational data for the vectoring nozzle systems aboard the entity. Datatype EntityType Inherited from BaseEntity in RPR-Base_v2.0 engthlessArray Update type Update Condition Update Transportation PS DA RO HLAbestEffort Update type Static NA		Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
Inherited from PhysicalEntity in RPR- Physical_v2.0 Conditional On change Semantics The basic operational data for the vectoring nozzle systems aboard the entity. Datatype EntityType Inherited from BaseEntity in RPR-Base_v2.0 Inherited from BaseEntity in RPR-Base_v2.0 Semantics The basic operational data for the vectoring nozzle systems aboard the entity. Datatype EntityTypeStruct PS DA RO HLAbestEffort Update type Update Condition Static NA		VectoringNozzleSystemDataStructL engthlessArray	PS	DA	RO	HLAbestEffort					
Physical_v2.0 Semantics The basic operational data for the vectoring nozzle systems aboard the entity. Datatype EntityType Inherited from BaseEntity in RPR-Base_v2.0 Semantics The basic operational data for the vectoring nozzle systems aboard the entity. Datatype Sharing Ownership Order Transportation Dimensions EntityType Update type Update Condition Static NA	Inherited from PhysicalEntity in RPR-	Update type Update Condition									
The basic operational data for the vectoring nozzle systems aboard the entity. Datatype		Conditional On change									
EntityType Inherited from BaseEntity in RPR-Base_v2.0 Datatype Sharing Ownership Order Transportation Dimensions PS DA RO HLAbestEffort Update Condition Static NA		Semantics									
EntityTypeStruct PS DA RO HLAbestEffort Update type Update Condition Inherited from BaseEntity in RPR-Base_v2.0 Static NA		The basic operational data for the vectoring nozzle systems aboard the entity.									
EntityType Update type Update Condition Inherited from BaseEntity in RPR-Base_v2.0 Static NA		Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
Inherited from BaseEntity in RPR-Base_v2.0 Static NA		EntityTypeStruct	PS	DA	RO	HLAbestEffort					
Inherited from BaseEntity in RPR-Base_v2.0 Static NA	EntityType	Update type	Update Con	dition							
		Static	NA								
1		Semantics									
The category of the entity.		The category of the entity.									
Datatype Sharing Ownership Order Transportation Dimensions		Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
EntityIdentifierStruct PS DA RO HLAbestEffort		EntityIdentifierStruct	PS	DA	RO	HLAbestEffort					
EntityIdentifier Update type Update Condition	EntityIdentifier	Update type	Update Con	dition							
Inherited from BaseEntity in RPR-Base_v2.0 Static NA		Static	NA								
Semantics		Semantics									
The unique identifier for the entity instance.		The unique identifier for the entity ins	stance.								

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

3.1.10. **NETN_CulturalFeature**

Full Name: HLAobjectRoot.BaseEntity.PhysicalEntity.CulturalFeature.NETN_CulturalFeature

Sharing: Publish/Subscribe
Semantics: Extensions for NETN

Attributes:

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
	<u>UuidArrayOfHLAbyte16</u>	PS	DA	RO	HLAbestEffort				
	Update type	Update Condition							
	Static	NA							
UniqueID	Semantics	•							
	The unique identifier of the object. Required value. If not assigned by the ORBAT specific attribute value.	eation or sin	nilar, shall	a value be	assigned, either randomized o	or generated from the Marking or EntityIdentifier			
	Datatype	Sharing	Ownership		Transportation	Dimensions			
	HLAunicodeString	PS	DA	RO	HLAbestEffort				
	Update type	Update Cond	lition						
Callsign	Static	NA							
	Semantics	mantics							
	Name of the object.								
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
	ActiveStatusEnum8	PS	DA	RO	HLAbestEffort				
	Update type	Update Cond	dition						
Status	Conditional	On change							
	Semantics	•							
	If an instance shall be taken into acco	ount by feder	rates.						
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
	AggregateMissionEnum16	PS	DA	RO	HLAbestEffort				
	Update type	Update Cond	lition						
Activity	Conditional	On change							
	Semantics								
	The activity of the object.								

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
	ArrayOfUuid	PS	DA	RO	HLAbestEffort				
	Update type Update Condition								
EmbeddedUnitList	Conditional	On change							
	Semantics	•							
	List of unique IDs of on-board elemen	its							
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
	RPRboolean	PS	DA	RO	HLAbestEffort				
ExternalLightsOn	Update type	Update Cond	lition			•			
Inherited from CulturalFeature in RPR-	Conditional	On change							
Physical_v2.0	Semantics								
	Whether the cultural feature's externa	l lights are	on or not.						
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
	RPRboolean	PS	DA	RO	HLAbestEffort				
InternalHeatSourceOn	Update type	Update Cond	lition	•		·			
Inherited from CulturalFeature in RPR- Physical_v2.0	Conditional On change								
rnysicai_v2.0	Semantics								
	Whether the cultural feature's internal heat source is on or not.								
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
	RPRboolean	PS	DA	RO	HLAbestEffort				
InternalLightsOn	Update type	Update Cond	lition	•		·			
Inherited from CulturalFeature in RPR-	Conditional	On change							
Physical_v2.0	Semantics								
	Whether the cultural feature's interna	l lights are	on or not.						
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
	Integer16	PS	DA	RO	HLAbestEffort				
AcousticSignatureIndex	Update type	Update Cond	lition	•					
Inherited from PhysicalEntity in RPR-	Conditional	On change							
Physical_v2.0	Semantics								
	Index used to obtain the acoustics (so	und through	n air) signat	ture state	of the entity.				

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

	T	T _G ,	Ī		m				
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
	RPRboolean	PS	DA	RO	HLAbestEffort				
FirePowerDisabled	Update type	Update type Update Condition							
Inherited from PhysicalEntity in RPR- Physical v2.0	Conditional	On change	2						
Thysical_v2.0	Semantics								
	Whether the entity's main weapon sys	stem has bee	en disabled	or not.					
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
	RPRboolean	PS	DA	RO	HLAbestEffort				
FlamesPresent	Update type	Update Con	dition		·				
Inherited from PhysicalEntity in RPR-	Conditional	On change	2						
Physical_v2.0	Semantics								
	Whether the entity is on fire (with vis	ible flames)	or not.						
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
	ForceIdentifierEnum8	PS	DA	RO	HLAbestEffort				
ForceIdentifier	Update type	Update Con	dition						
Inherited from PhysicalEntity in RPR- Physical_v2.0	Conditional On change								
T hysical_v2.0	Semantics								
	The identification of the force that the	e entity belo	ongs to.						
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
	RPRboolean	PS	DA	RO	HLAbestEffort				
HasAmmunitionSupplyCap	Update type	Update Con	dition		•				
Inherited from PhysicalEntity in RPR-	Conditional	On change	ę						
Physical_v2.0	Semantics	Semantics							
	Whether the entity has the capability	to supply of	ther entities	with amm	unition.				
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
	RPRboolean	PS	DA	RO	HLAbestEffort				
HasFuelSupplyCap	Update type	Update Con	dition		•				
Inherited from PhysicalEntity in RPR-	Conditional	On change	2						
Physical_v2.0	Semantics								
	Whether the entity has the capability	to supply of	ther entities	with fuel o	or not.				

RPRboolean PS DA RO HLAbestEffort		Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
Description Physical Entity in RPR Semantics Whether the entity has the capability to recover other entities or not.		RPRboolean	PS	DA	RO	HLAbestEffort				
Semantics Whether the entity has the capability to recover other entities or not.	HasRecoveryCap	Update type	Update Con	dition						
Semantics Whether the entity has the capability to recover other entities or not.	Inherited from PhysicalEntity in RPR-	Conditional	Conditional On change							
Datatype Sharing Ownership Order Transportation Dimensions	Physical_vz.0	Semantics	•							
RPRoolean PS DA RO HLAbestEffort Inherited from PhysicalEntity in RPR-Physical from Physical from Physic		Whether the entity has the capability	to recover o	ther entities	s or not.					
HasRepairCap Update type Update Condition On change		Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
Conditional Concisional		RPRboolean	PS	DA	RO	HLAbestEffort				
Physical_v2.0 Semantics	HasRepairCap	Update type	Update Con	dition	1					
Semantics Whether the entity has the capability to repair other entities or not.		Conditional	On change	?						
Datatype Sharing Ownership Order Transportation Dimensions	Physical_v2.0	Semantics								
RPRboolean PS DA RO HLAbestEffort		Whether the entity has the capability	to repair ot	her entities	or not.					
Immobilized Update type Update Condition		Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
Inherited from Physical_v2.0 Conditional On change Semantics Whether the entity is immobilized or not. InfraredSignatureIndex Inherited from PhysicalEntity in RPR- Physical_v2.0 Integer 16 PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Index used to obtain the infra-red signature state of the entity. Is Concealed Inherited from PhysicalEntity in RPR- Physical_v2.0 Conditional On change Semantics Index used to obtain the infra-red signature state of the entity. Is Concealed Inherited from PhysicalEntity in RPR- Physical_v2.0 Conditional On change		RPRboolean	PS	DA	RO	HLAbestEffort				
Semantics Whether the entity is immobilized or not.	Immobilized	Update type	Update Con	dition	•	•				
Semantics Whether the entity is immobilized or not.		Conditional On change								
Datatype Sharing Ownership Order Transportation Dimensions	Frystcat_v2.0	Semantics								
InferredSignatureIndex Inherited from PhysicalEntity in RPR- Physical_v2.0 Inherited from PhysicalEntity in RPR- Physical_v2.0 Index used to obtain the infra-red signature state of the entity. Index used to obtain the infra-red signature state of the entity. Index used to obtain the infra-red signature state of the entity. Index used to obtain the infra-red signature state of the entity. Index used to obtain the infra-red signature state of the entity. Index used to obtain the infra-red signature state of the entity. Index used to obtain the infra-red signature state of the entity. Index used to obtain the infra-red signature state of the entity. Index used to obtain the infra-red signature state of the entity. Index used to obtain the infra-red signature state of the entity. Index used to obtain the infra-red signature state of the entity. Index used to obtain the infra-red signature state of the entity. Index used to obtain the infra-red signature state of the entity. Index used to obtain the infra-red signature state of the entity. Index used to obtain the infra-red signature state of the entity. Index used to obtain the infra-red signature state of the entity. Index used to obtain the infra-red signature state of the entity. Index used to obtain the infra-red signature state of the entity. Index used to obtain the infra-red signature state of the entity. Index used to obtain the infra-red signature state of the entity. Index used to obtain the infra-red signature state of the entity. Index used to obtain the infra-red signature state of the entity.		Whether the entity is immobilized or not.								
InfraredSignatureIndex Inherited from PhysicalEntity in RPR- Physical_v2.0 Conditional On change Semantics Index used to obtain the infra-red signature state of the entity. Datatype RPRboolean PS DA RO HLAbestEffort IsConcealed Inherited from PhysicalEntity in RPR- Physical_v2.0 Conditional On change Update type Update Condition On change Conditional On change		Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
Inherited from PhysicalEntity in RPR- Physical_v2.0 Conditional On change Index used to obtain the infra-red signature state of the entity. Datatype RPR boolean PS DA RO HLAbestEffort Inherited from PhysicalEntity in RPR- Physical_v2.0 Conditional On change		Integer16	PS	DA	RO	HLAbestEffort				
Physical_v2.0 Semantics Index used to obtain the infra-red signature state of the entity. Datatype RPRboolean RPRboolean RPS DA RO HLAbestEffort Inherited from PhysicalEntity in RPR-Physical_v2.0 Conditional On change	InfraredSignatureIndex	Update type	Update Con	dition						
Semantics Index used to obtain the infra-red signature state of the entity.		Conditional	On change	?						
Datatype Sharing Ownership Order Transportation Dimensions	Physical_v2.0									
RPRboolean PS DA RO HLAbestEffort IsConcealed Update type Update Condition Inherited from PhysicalEntity in RPR- Physical_v2.0 Conditional On change		Index used to obtain the infra-red sign	nature state	of the entit	y.					
IsConcealed Update type Update Condition Inherited from PhysicalEntity in RPR- Physical_v2.0 Conditional On change		Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
Inherited from PhysicalEntity in RPR- Physical_v2.0 Conditional On change		RPRboolean	PS	DA	RO	HLAbestEffort				
Physical_v2.0	IsConcealed	Update type Update Condition								
Frysical_v2.0		Conditional	On change	?						
	F Hysicai_v2.0	Semantics								
Whether the entity is concealed or not.		Whether the entity is concealed or no	t.							

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
	VelocityDecimeterPerSecondInteger 16	PS	DA	RO	HLAbestEffort				
LiveEntityMeasuredSpeed	Update type	odate type Update Condition							
Inherited from PhysicalEntity in RPR- Physical_v2.0	Conditional	On change							
, _	Semantics								
	The entity's own measurement of spee	d (e.g. air s	peed for air	craft).					
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
	MarkingStruct	PS	DA	RO	HLAbestEffort				
Marking	Update type	Update Cond	lition						
Inherited from PhysicalEntity in RPR-	Conditional	On change							
Physical_v2.0	Semantics								
	A unique marking or combination of c	haracters u	ised to disti	nguish the	entity from other entities.				
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
	RPRboolean	PS	DA	RO	HLAbestEffort				
PowerPlantOn	Update type Update Condition								
Inherited from PhysicalEntity in RPR- Physical v2.0	Conditional On change								
Fnystcat_v2.0	Semantics								
	Whether the entity's power plant is on	or not.							
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
	PropulsionSystemDataStructLengthl essArray	PS	DA	RO	HLAbestEffort				
PropulsionSystemsData	Update type	Update Cond	lition						
Inherited from PhysicalEntity in RPR- Physical_v2.0	Conditional	On change							
	Semantics								
	The basic operating data of the propu	lsion systen	ns aboard ti	he entity.					
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
	Integer16	PS	DA	RO	HLAbestEffort				
RadarCrossSectionSignatureIndex	arCrossSectionSignatureIndex Update type Update Condition								
Inherited from PhysicalEntity in RPR-	Conditional	On change	<u>. </u>						
Physical_v2.0	Semantics								
	Index used to obtain the radar cross s	ection signa	ature state o	of the $$	······································				

Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
RPRboolean	PS	DA	RO	HLAbestEffort				
Update type	Update Condition							
Conditional On change								
Semantics	•							
Whether the entity is generating smok	e or not (in	tentional or	unintentio	onal).				
Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
RPRboolean	PS	DA	RO	HLAbestEffort				
Update type	Update Cond	lition						
Conditional	On change							
Semantics								
Whether the entity has deployed tent of	or not.							
Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
TrailingEffectsCodeEnum32	PS	DA	RO	HLAbestEffort				
Update type Update Condition								
Conditional On change								
Semantics								
The type and size of any trail that the entity is making.								
Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
VectoringNozzleSystemDataStructL engthlessArray	PS	DA	RO	HLAbestEffort				
Update type	Update Cond	lition						
Conditional	On change	,						
Semantics								
The basic operational data for the vec	ctoring nozz	le systems d	board the	entity.				
Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
EntityTypeStruct	PS	DA	RO	HLAbestEffort				
Update type	Update Cond	lition						
Static	NA							
Semantics	!							
The category of the entity.								
	RPRboolean Update type Conditional Semantics Whether the entity is generating smoke Datatype RPRboolean Update type Conditional Semantics Whether the entity has deployed tent of Datatype Trailing Effects Code Enum 32 Update type Conditional Semantics The type and size of any trail that the Datatype Vectoring Nozzle System Data Struct Lengthless Array Update type Conditional Semantics The basic operational data for the vectority Type Struct Update type Entity Type Struct Update type Static Semantics	RPRboolean PS Update type Update Cond Conditional On change Semantics Whether the entity is generating smoke or not (inc.) Datatype Sharing RPRboolean PS Update type Update Cond Conditional On change Semantics Whether the entity has deployed tent or not. Datatype Sharing Trailing Effects Code Enum 32 PS Update type Update Cond Conditional On change Semantics The type and size of any trail that the entity is mad Datatype Sharing Vectoring Nozzle System Data Struct Lengthless Array Update type Update Cond Conditional On change Semantics The basic operational data for the vectoring nozz Datatype Sharing Entity Type Struct PS Update type Update Cond Static NA Semantics	RPRboolean PS DA Update type Update Condition Conditional On change Semantics Whether the entity is generating smoke or not (intentional or Datatype Sharing Ownership RPRboolean PS DA Update type Update Condition Conditional On change Semantics Whether the entity has deployed tent or not. Datatype Sharing Ownership Trailing Effects Code Enum 32 PS DA Update type Update Condition Conditional On change Semantics The type and size of any trail that the entity is making. Datatype Sharing Ownership Vectoring Nozzle System Data Struct Lengthless Array Update type Update Condition Conditional On change Semantics The basic operational data for the vectoring nozzle systems of Datatype Sharing Ownership Entity Type Struct PS DA Update Condition Static NA Semantics	RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics Whether the entity is generating smoke or not (intentional or unintentional partity period of the entity is generating smoke or not (intentional or unintentional partity period	RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Whether the entity is generating smoke or not (intentional or unintentional). Datatype Sharing Ownership Order Transportation RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Whether the entity has deployed tent or not. Datatype Sharing Ownership Order Transportation TrailingEffectsCodeEnum32 PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics The type and size of any trail that the entity is making. Datatype Sharing Ownership Order Transportation The type and size of any trail that the entity is making. Datatype Sharing Ownership Order Transportation VectoringNozzleSystemDataStructL engthlessArray Update type Update Condition Conditional On change Semantics The basic operational data for the vectoring nozzle systems aboard the entity. Datatype Sharing Ownership Order Transportation HLAbestEffort Update type Update Condition Conditional On change Semantics The basic operational data for the vectoring nozzle systems aboard the entity. Datatype Sharing Ownership Order Transportation EntityTypeStruct PS DA RO HLAbestEffort Update type Update Condition Static NA Semantics			

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
	EntityIdentifierStruct	PS	DA	RO	HLAbestEffort				
 EntityIdentifier	Update type Update Condition								
Inherited from BaseEntity in RPR-Base_v2.0	Static	NA							
	Semantics								
	The unique identifier for the entity ins	stance.							
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
	IsPartOfStruct	PS	DA	RO	HLAbestEffort				
	Update type	Update Con	dition						
IsPartOf	Conditional	On change	?						
Inherited from BaseEntity in RPR-Base_v2.0	Semantics								
	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.								
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
	SpatialVariantStruct	PS	DA	RO	HLAbestEffort				
Spatial	Update type	Update Con	dition						
Inherited from BaseEntity in RPR-Base_v2.0	Conditional	Conditional On change RPRnoteBase10 RPRnoteBase11 RPRnoteBase12 RPRnoteBase13 RPRnoteBase14							
	Semantics	•							
	Spatial state stored in one variant rec	ord attribu	te.						
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
	SpatialVariantStruct	PS	DA	RO	HLAbestEffort				
 RelativeSpatial	Update type	Update Con	dition	•	•				
Inherited from BaseEntity in RPR-Base_v2.0	Conditional	On change	RPRnoteBase10	0 RPRnoteBase	11 RPRnoteBase12 RPRnoteBase13 RPRn	oteBase14			
	Semantics								
	Relative spatial state stored in one va	riant record	d attribute.						

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions		
	HLAtoken	PS	DA	TS	HLAreliable			
HLAprivilegeToDeleteObject	Update type	Update Cond	lition					
	Static	NA						
, ,	Semantics							

4. Module NETN-SCP-Base_v1.1.3

Information

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

Primary author Point Of Contact

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Organization:	Pitch Technologies
Telephone:	+46 13705506
Email:	lennart.olsson@pitch.se

References

Dependency	NETN-Base_v1.0	
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Use History

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).

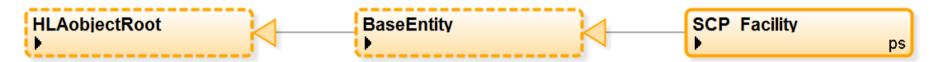
Dependencies

RPR-Foundation_v2.0

NETN-Base_v1.0.2		
RPR-Base_v2.0		
RPR-Enumerations v2.0		

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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, storaging, reparing, and other services.

Attributes:

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

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions		
	HLAboolean	PS	DA	RO	HLAbestEffort			
	Update type	Update Cond	lition	•				
IsOperational	Conditional							
	Semantics							
	The operational status of the facility (true = is operational)							
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions		
	ForceIdentifierEnum8	PS	DA	RO	HLAbestEffort			
	Update type	Update Cond	lition		-			
ForceIdentifier	Conditional	On change						
	Semantics	•						
	Force identifier of owner							
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions		
	NETN_ArrayOfSupplyStruct	PS	DA	RO	HLAbestEffort			
	Update type Update Condition							
StorageList	Conditional On change							
	Semantics							
	List of the material contained in the fa	acility						
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions		
	ArrayOfUuid	PS	DA	RO	HLAbestEffort			
	Update type	Update Cond	lition					
PlatformList	Conditional	On change						
	Semantics							
	Descripttion of platforms located with	nin the facili	ity					
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions		
	UuidArrayOfHLAbyte16 PS RO HLAbestEffort							
	Update type Update Condition							
UniqueID	Static	N/A						
	Semantics							
	The unique identifier for the facility							
UniqueID	UuidArrayOfHLAbyte16 Update type Static Semantics	PS RO HLAbestEffort Update Condition N/A						

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions	
	EntityTypeStruct	PS	DA	RO	HLAbestEffort		
EntityType	Update type Update Condition						
Inherited from BaseEntity in RPR-Base_v2.0	Static	NA					
	Semantics						
	The category of the entity.						
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions	
	EntityIdentifierStruct	PS	DA	RO	HLAbestEffort		
EntityIdentifier	Update type	Update Con	dition		·		
Inherited from BaseEntity in RPR-Base_v2.0	Static	NA					
	Semantics						
	The unique identifier for the entity instance.						
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions	
	IsPartOfStruct	PS	DA	RO	HLAbestEffort		
	Update type	Update Con	dition				
IsPartOf	Conditional On change						
Inherited from BaseEntity in RPR-Base_v2.0	Semantics	•					
	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 the HostEntityIdentifier shall be set to the EntityIdentifier of the host entity and the HostRTIObjectIdentifier shall be set to the RTI object in 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 HostRTIObje be set to the empty string.						
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions	
	SpatialVariantStruct	PS	DA	RO	HLAbestEffort		
Spatial	Update type	Update type Update Condition					
Inherited from BaseEntity in RPR-Base_v2.0	Conditional	On change	e RPRnoteBase1	0 RPRnoteBas	se11 RPRnoteBase12 RPRnoteBase13 RPR	noteBase14	
	Semantics		-				
	Spatial state stored in one variant red	cord attribu	te.				

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

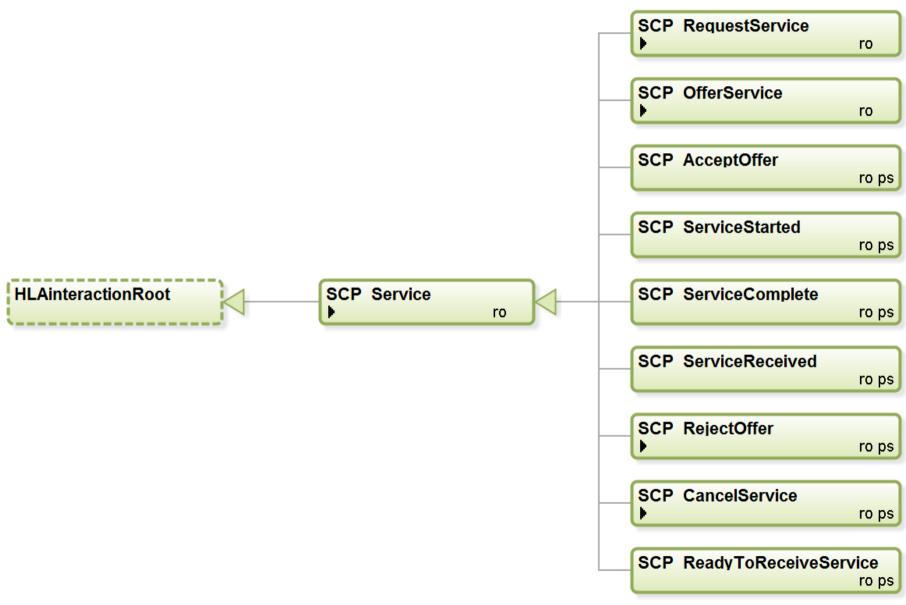
Parameters:

Name	Datatype	Semantics
ServiceID	NETN_ServiceIdentifier	Unique identifier for a service
Consumer	Callsign	Entity that has requested the service
Provider	Callsign	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.
ServiceType	SCP_ServiceTypeEnum8	Enumerated value describing the type of service

4.2.3. SCP_RequestService

Full Name: HLAinteractionRoot.SCP_Service.SCP_RequestService

Sharing:



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

4.2.4. SCP_OfferService

Full Name: HLAinteractionRoot.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.

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

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

4.2.5. SCP_AcceptOffer

Full Name: HLAinteractionRoot.SCP_Service.SCP_AcceptOffer

Publish/Subscribe Sharing:

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.

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

Name	Datatype	Semantics
ServiceType	SCP_ServiceTypeEnum8	Enumerated value describing the type of service
Inherited from SCP_Service in NETN-SCP-Base_v1.1.3		

4.2.6. SCP ServiceStarted

Full Name: HLAinteractionRoot.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
ServiceID	NETN_ServiceIdentifier	Unique identifier for a service
Inherited from SCP_Service in NETN-SCP-Base_v1.1.3		
Consumer	Callsign	Entity that has requested the service
Inherited from SCP_Service in NETN-SCP-Base_v1.1.3		
Provider	Callsign	Providing or intended provider entity. If no provider is specified and the request is a common
Inherited from SCP_Service in NETN-SCP-Base_v1.1.3		request shall en empty string be used as the Callsign.
ServiceType	SCP_ServiceTypeEnum8	Enumerated value describing the type of service
Inherited from SCP_Service in NETN-SCP-Base_v1.1.3		

4.2.7. SCP_ServiceComplete

Full Name: HLAinteractionRoot.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
ServiceID	NETN_ServiceIdentifier	Unique identifier for a service
Inherited from SCP_Service in NETN-SCP-Base_v1.1.3		
Consumer	Callsign	Entity that has requested the service
Inherited from SCP_Service in NETN-SCP-Base_v1.1.3		
Provider	Callsign	Providing or intended provider entity. If no provider is specified and the request is a common
Inherited from SCP_Service in NETN-SCP-Base_v1.1.3		request shall en empty string be used as the Callsign.
ServiceType	SCP_ServiceTypeEnum8	Enumerated value describing the type of service
Inherited from SCP_Service in NETN-SCP-Base_v1.1.3		

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.

Name	Datatype	Semantics
ServiceID	NETN_ServiceIdentifier	Unique identifier for a service
Inherited from SCP_Service in NETN-SCP-Base_v1.1.3		
Consumer	Callsign	Entity that has requested the service
Inherited from SCP_Service in NETN-SCP-Base_v1.1.3		

Name	Datatype	Semantics
Provider Inherited from SCP_Service in NETN-SCP-Base_v1.1.3		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.
ServiceType	SCP_ServiceTypeEnum8	Enumerated value describing the type of service
Inherited from SCP_Service in NETN-SCP-Base_v1.1.3		

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

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

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.

Name	Datatype	Semantics
ServiceID	NETN_ServiceIdentifier	Unique identifier for a service
Inherited from SCP_Service in NETN-SCP-Base_v1.1.3		

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

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 issiuing 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	Туре	Semantic
DateTime	TimeSecInt64	Date time in second since 1 junuary 1970 for the appointment
Location	WorldLocationStruct	Location of the appointment

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	Туре	Semantic
EventCount		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.
Service		A name associated with the service, e.g. name of the service, the issiuing federate or entity (Callsign).

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

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

Primary author Point Of Contact

Name:	Lennart Olsson
Organization:	Pitch Technologies
Telephone:	+46 13 4705506
Email:	lennart.olsson@pitch.se

References

Dependency	NETN-SCP-Base v1.1
Dependency	INDIN-SCF-Dase_v1.1

Use History

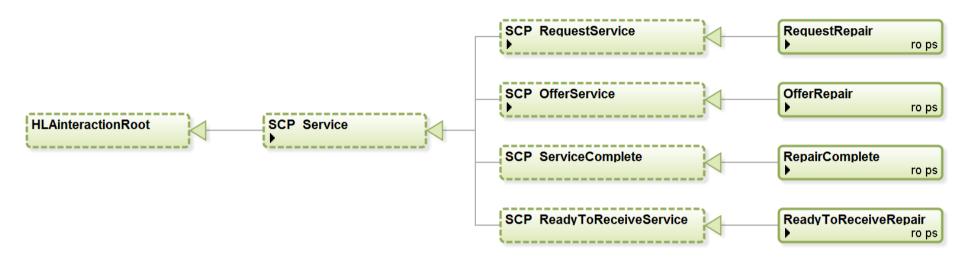
v1.0.0 - Initial, interaction classes and datatypes from FOM modules in NETN FOM v1
v1.1.0 - Interaction class RequestRepair: Added parameter Appointment as an optional parameter.
Interaction class OfferRepair: Added parameter Appointment as an optional parameter.
v1.1.1 - Semantics updates

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

5.1.3. **SCP_RequestService**

Full Name: HLAinteractionRoot.SCP_Service.SCP_RequestService

Sharing:

Transportation type: HLAreliable

Order: Receive

Dimensions: Semantics: Parameters:

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

Name	Datatype	Semantics
ServiceType	SCP_ServiceTypeEnum8	Enumerated value describing the type of service
Inherited from SCP_Service in NETN-SCP-Base_v1.1.3		

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

5.1.5. SCP_OfferService

Full Name: HLAinteractionRoot.SCP_Service.SCP_OfferService

Sharing:

Transportation type: HLAreliable

Order: Receive

Dimensions:	
Semantics:	
Parameters:	

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

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.

Name	Datatype	Semantics
RepairData		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
Appointment	AppointmentStruct	Time and location for the exchenge of the service. Optional

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

5.1.7. SCP_ServiceComplete

Full Name: HLAinteractionRoot.SCP_Service.SCP_ServiceComplete

Sharing:

Transportation type: HLAreliable

Order: Receive

Dimensions: Semantics:

Parameters:

NameDatatypeSemanticsServiceIDNETN_ServiceIdentifierUnique identifier for a serviceInherited from SCP_Service in NETN-SCP-Base_v1.1.3Entity that has requested the serviceConsumerEntity that has requested the serviceInherited from SCP_Service in NETN-SCP-Base_v1.1.3Providing 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
ServiceType	SCP_ServiceTypeEnum8	Enumerated value describing the type of service
Inherited from SCP_Service in NETN-SCP-Base_v1.1.3		

5.1.8. RepairComplete

Full Name: HLAinteractionRoot.SCP_Service.SCP_ServiceComplete.RepairComplete

Sharing: Publish/Subscribe

Transportation type: HLAreliable

Order: Receive

Dimensions:

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

Parameters:

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

5.1.9. SCP_ReadyToReceiveService

Full Name: HLAinteractionRoot.SCP_Service.SCP_ReadyToReceiveService

Sharing:

Transportation type: HLAreliable Order: Receive

Dimensions: Semantics:

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

5.1.10. ReadyToReceiveRepair

HLAinteractionRoot.SCP_Service.SCP_ReadyToReceiveService.ReadyToReceiveRepair Full Name:

Publish/Subscribe Sharing:

Transportation type: HLAreliable

Order: Receive

Dimensions:

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

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

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

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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: HLAvariableArray

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

ArrayOfRepairTypeEnum

Element Type: NETN_RepairTypeEnum16

Cardinality: Dynamic

Encoding: HLAvariableArray
Semantics: List of repair types

5.2.3. Fixed Record Datatypes

RepairStruct

Encoding: HLAfixedRecord

Semantics: Repairs associated with a specific material

Name	Туре	Semantic
MaterialID	<u>UuidArrayOfHLAbyte16</u>	UUID for the material.
Repairs	ArrayOfRepairTypeEnum	List of the types of repair associated with the material.

6. Module NETN-Storage_v1.2.2

Information

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

Primary author Point Of Contact

Name:	Lennart Olsson
Organization:	Pitch Technologies
Telephone:	+46 13 4705506
Email:	lennart.olsson@pitch.se

References

Dependency	NETN-SCP-Base_v1.1	
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Use History

v1.1.0 - Removed interaction StorageStarted.

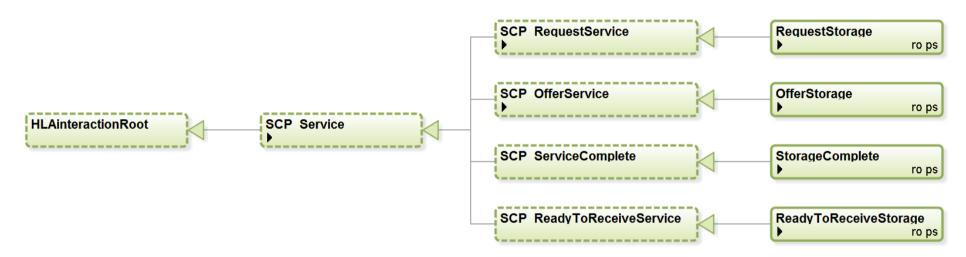
Interaction class RequestStorage: Added parameter Appointment as an optional parameter. Interaction class OfferStorage: Added parameter Appointment as an optional parameter.

- v1.2.0 Added two intaractions, 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
ServiceID	NETN_ServiceIdentifier	Unique identifier for a service
Inherited from SCP_Service in NETN-SCP-Base_v1.1.3		
Consumer	Callsign	Entity that has requested the service
Inherited from SCP_Service in NETN-SCP-Base_v1.1.3		
Provider	Callsign	Providing or intended provider entity. If no provider is specified and the request is a common
Inherited from SCP_Service in NETN-SCP-Base_v1.1.3		request shall en empty string be used as the Callsign.
ServiceType	SCP_ServiceTypeEnum8	Enumerated value describing the type of service
Inherited from SCP_Service in NETN-SCP-Base_v1.1.3		

6.1.3. SCP_RequestService

Full Name: HLAinteractionRoot.SCP_Service.SCP_RequestService

Sharing:

Transportation type: HLAreliable

Order: Receive

Dimensions: Semantics: Parameters:

Name	Datatype	Semantics
RequestTimeOut	TimeSecInt64	Wallclock time. The timeout time in seconds after 1 January 1970.
Inherited from SCP_RequestService in NETN-SCP- Base_v1.1.3		
ServiceID	NETN_ServiceIdentifier	Unique identifier for a service
Inherited from SCP_Service in NETN-SCP-Base_v1.1.3		
Consumer	Callsign	Entity that has requested the service
Inherited from SCP_Service in NETN-SCP-Base_v1.1.3		
Provider	Callsign	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.
Inherited from SCP_Service in NETN-SCP-Base_v1.1.3		

Name	Datatype	Semantics
ServiceType	SCP_ServiceTypeEnum8	Enumerated value describing the type of service
Inherited from SCP_Service in NETN-SCP-Base_v1.1.3		

6.1.4. RequestStorage

Full Name: HLAinteractionRoot.SCP_Service.SCP_RequestService.RequestStorage

Sharing: Publish/Subscribe

Transportation type: HLAreliable

Order: Receive

Dimensions:

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. Semantics:

Parameters:

Name	Datatype	Semantics
SuppliesData	NETN_ArrayOfSupplyStruct	Specifies the supply (type and quantity)
LoadingDoneByProvider	HLAboolean	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.
Appointment	AppointmentStruct	The time and location for the exchange of the service. Optional
RequestTimeOut	TimeSecInt64	Wallclock time. The timeout time in seconds after 1 January 1970.
Inherited from SCP_RequestService in NETN-SCP-Base_v1.1.3		
ServiceID	NETN_ServiceIdentifier	Unique identifier for a service
Inherited from SCP_Service in NETN-SCP-Base_v1.1.3		
Consumer	Callsign	Entity that has requested the service
Inherited from SCP_Service in NETN-SCP-Base_v1.1.3		
Provider	Callsign	Providing or intended provider entity. If no provider is specified and the request is a common
Inherited from SCP_Service in NETN-SCP-Base_v1.1.3		request shall en empty string be used as the Callsign.
ServiceType	SCP_ServiceTypeEnum8	Enumerated value describing the type of service
Inherited from SCP_Service in NETN-SCP-Base_v1.1.3		

6.1.5. SCP_OfferService

Full Name: HLAinteractionRoot.SCP_Service.SCP_OfferService

Sharing:

Transportation type: HLAreliable

Order: Receive

Dimensions:
Semantics:
Parameters:

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

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.

Name	Datatype	Semantics
SuppliesData	NETN_ArrayOfSupplyStruct	Specifies the supply (type and quantity)
LoadingDoneByProvider	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.
Appointment	AppointmentStruct	The time and location for the exchange of the service. Optional
IsOffering	HLAboolean	Defines if the requested service is offered (=true) or not (=false). (Not Optional)
Inherited from SCP_OfferService in NETN-SCP- Base_v1.1.3		
RequestTimeOut	TimeSecInt64	Wallclock time. The timeout time in seconds after 1 January 1970.
Inherited from SCP_OfferService in NETN-SCP- Base_v1.1.3		
ServiceID	NETN_ServiceIdentifier	Unique identifier for a service
Inherited from SCP_Service in NETN-SCP-Base_v1.1.3		
Consumer	Callsign	Entity that has requested the service
Inherited from SCP_Service in NETN-SCP-Base_v1.1.3		
Provider	Callsign	Providing or intended provider entity. If no provider is specified and the request is a common
Inherited from SCP_Service in NETN-SCP-Base_v1.1.3		request shall en empty string be used as the Callsign.
ServiceType	SCP_ServiceTypeEnum8	Enumerated value describing the type of service
Inherited from SCP_Service in NETN-SCP-Base_v1.1.3		

6.1.7. SCP_ServiceComplete

Full Name: HLAinteractionRoot.SCP_Service.SCP_ServiceComplete

Sharing:

Transportation type: HLAreliable

Order: Receive

Dimensions: Semantics: Parameters:

Name	Datatype	Semantics
ServiceID	NETN_ServiceIdentifier	Unique identifier for a service
Inherited from SCP_Service in NETN-SCP-Base_v1.1.3		

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

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

6.1.9. SCP_ReadyToReceiveService

Full Name: HLAinteractionRoot.SCP_Service.SCP_ReadyToReceiveService

Sharing:

Transportation type: HLAreliable

Receive Order:

Dimensions: Semantics: Parameters:

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

6.1.10. ReadyToReceiveStorage

Full Name: HLAinteractionRoot.SCP_Service.SCP_ReadyToReceiveService.ReadyToReceiveStorage

Sharing: Publish/Subscribe

Transportation type: HLAreliable

Order: Receive

Dimensions:

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

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

Name	Datatype	Semantics
Provider	Callsign	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.
Inherited from SCP_Service in NETN-SCP-Base_v1.1.3		request shall en empty string be used as the Calisign.
ServiceType	SCP_ServiceTypeEnum8	Enumerated value describing the type of service
Inherited from SCP_Service in NETN-SCP-Base_v1.1.3		

7. Module NETN-Supply_v1.1.2

Information

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

Primary author Point Of Contact

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References

Dependency	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.

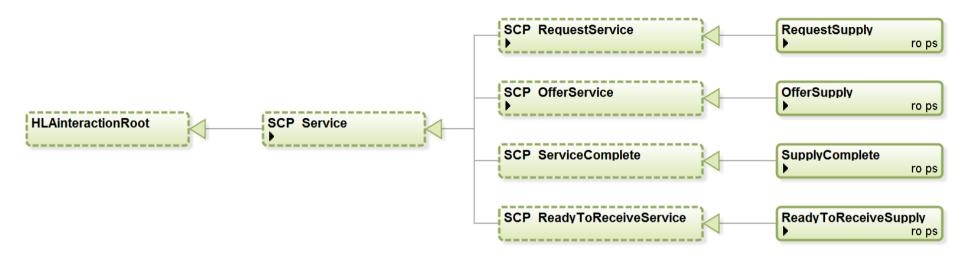
Interaction class OfferSupply: Added parameter Appointment as an optional parameter.

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

7.1.3. SCP_RequestService

Full Name: HLAinteractionRoot.SCP_Service.SCP_RequestService

Sharing:

Transportation type: HLAreliable

Order: Receive

Dimensions: Semantics: Parameters:

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

Name	Datatype	Semantics
ServiceType	SCP_ServiceTypeEnum8	Enumerated value describing the type of service
Inherited from SCP_Service in NETN-SCP-Base_v1.1.3		

7.1.4. RequestSupply

HLAinteractionRoot.SCP_Service.SCP_RequestService.RequestSupply Full Name:

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.

Name	Datatype	Semantics
SuppliesData	NETN_ArrayOfSupplyStruct	List of type and quantity of supplies requested.
LoadingDoneByProvider	HLAboolean	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.
Appointment	AppointmentStruct	Time and location for the exchange of the service. Optional
RequestTimeOut	TimeSecInt64	Wallclock time. The timeout time in seconds after 1 January 1970.
Inherited from SCP_RequestService in NETN-SCP-Base_v1.1.3		
ServiceID	NETN_ServiceIdentifier	Unique identifier for a service
Inherited from SCP_Service in NETN-SCP-Base_v1.1.3		
Consumer	Callsign	Entity that has requested the service
Inherited from SCP_Service in NETN-SCP-Base_v1.1.3		
Provider	Callsign	Providing or intended provider entity. If no provider is specified and the request is a common
Inherited from SCP_Service in NETN-SCP-Base_v1.1.3		request shall en empty string be used as the Callsign.
ServiceType	SCP_ServiceTypeEnum8	Enumerated value describing the type of service
Inherited from SCP_Service in NETN-SCP-Base_v1.1.3		

7.1.5. **SCP_OfferService**

Full Name: HLAinteractionRoot.SCP_Service.SCP_OfferService

Sharing:

Transportation type: HLAreliable

Order: Receive

Dimensions: Semantics: Parameters:

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

7.1.6. OfferSupply

Full Name: HLAinteractionRoot.SCP_Service.SCP_OfferService.OfferSupply

Sharing: Publish/Subscribe

Transportation type: HLAreliable

Order: Receive

Dimensions:

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 **Semantics:**

by the consumer.

Parameters:

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

7.1.7. SCP_ServiceComplete

Full Name: HLAinteractionRoot.SCP_Service.SCP_ServiceComplete

Sharing:

Transportation type: HLAreliable

Order: Receive

Dimensions: Semantics:

Parameters:

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

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

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

7.1.9. SCP_ReadyToReceiveService

Full Name: HLAinteractionRoot.SCP_Service.SCP_ReadyToReceiveService

Sharing:

Transportation type: HLAreliable

Order: Receive

Dimensions: Semantics: Parameters:

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

7.1.10. ReadyToReceiveSupply

Full Name: HLAinteractionRoot.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)

Name	Datatype	Semantics
SuppliesData	NETN_ArrayOfSupplyStruct	The amount of supplies, by type, that the consumer is able to accept at the time it declares ReadyToReceive.

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

8. Module NETN-Transport_v1.1.2

Information

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

References

Dependency	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

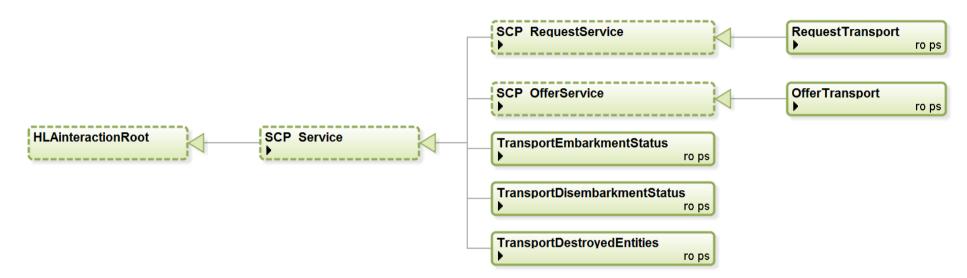
- v1.1.1 Update of semantics
- v1.1.2 Updated References, Dependency

Dependencies

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

RPR-Foundation_v2.0

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

8.1.3. SCP_RequestService

Full Name: HLAinteractionRoot.SCP_Service.SCP_RequestService

Sharing:

Transportation type: HLAreliable

Order: Receive

Dimensions: Semantics: Parameters:

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

Name	Datatype	Semantics
Provider Inherited from SCP_Service in NETN-SCP-Base_v1.1.3		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.
ServiceType	SCP_ServiceTypeEnum8	Enumerated value describing the type of service
Inherited from SCP_Service in NETN-SCP-Base_v1.1.3		

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
TransportData	TransportStruct	Data for the transport. Transported units and appointment data
RequestTimeOut	TimeSecInt64	Wallclock time. The timeout time in seconds after 1 January 1970.
Inherited from SCP_RequestService in NETN-SCP-Base_v1.1.3		
ServiceID	NETN_ServiceIdentifier	Unique identifier for a service
Inherited from SCP_Service in NETN-SCP-Base_v1.1.3		
Consumer	Callsign	Entity that has requested the service
Inherited from SCP_Service in NETN-SCP-Base_v1.1.3		
Provider	Callsign	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.
Inherited from SCP_Service in NETN-SCP-Base_v1.1.3		request shall en empty string be used as the Callsign.
ServiceType	SCP_ServiceTypeEnum8	Enumerated value describing the type of service
Inherited from SCP_Service in NETN-SCP-Base_v1.1.3		

8.1.5. SCP_OfferService

Full Name: HLAinteractionRoot.SCP_Service.SCP_OfferService

Sharing:

Transportation type: HLAreliable

Order: Receive

Dimensions: Semantics: Parameters:

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

8.1.6. OfferTransport

Full Name: $HLA interaction Root. SCP_Service. SCP_Offer Service. Offer Transport$

Publish/Subscribe Sharing:

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.

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

8.1.7. TransportEmbarkmentStatus

Full Name: $HLA interaction Root. SCP_Service. Transport Embarkment Status$

Sharing: Publish/Subscribe

Transportation type: HLAreliable

Order: Receive

Dimensions:

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 **Semantics:**

Name	Datatype	Semantics
EmbarkedObjects	ArrayOfUuid	Allows to follow the elements managed by the provider
TransportUnitIdentifier	UuidArrayOfHLAbyte16	Callsign of transporter

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

8.1.8. TransportDisembarkmentStatus

Full Name: HLAinteractionRoot.SCP_Service.TransportDisembarkmentStatus

Sharing: Publish/Subscribe

Transportation type: HLAreliable

Order: Receive

Dimensions:

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 Semantics:

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

8.1.9. TransportDestroyedEntities

HLAinteractionRoot.SCP_Service.TransportDestroyedEntities Full Name:

Publish/Subscribe Sharing:

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

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

8.2. Datatypes

8.2.1. Enumerated Datatypes

Transport Type Enum 32

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 disembarment

Name	Туре	Semantic
ObjectsToManage	ArrayOfUuid	List with the units to be landing or boarding
Appointment	AppointmentStruct	Expected location for the landing or boarding

DataTStruct

Encoding: HLAfixedRecord

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

Name	Туре	Semantic
ObjectsToManage	ArrayOfUuid	List with the units to be Transport
Appointment	AppointmentStruct	Expected location for the boarding
FinalAppointment	AppointmentStruct	Expected location for the landing

8.2.3. Variant Record Datatypes

TransportStruct

Encoding: HLAvariantRecord

Discriminant name: TransportType

Discriminant type: TransportTypeEnum32

Semantics: Transport data

Name	Enumerator	Туре	Semantics
DataTransport	Transport	<u>DataTStruct</u>	Data for transport
DataEmbarkment	Embarkment	DataEDStruct	Data for embarkment
DataDisembarkment	Disembarkment	<u>DataEDStruct</u>	Data for Disembarkment

9. Module CBRN_v1.1.9

Information

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

Primary author Point Of Contact

Name:	Hazard Assessment Simulation and Prediction (HASP) Group					
Organization:	Defence Science and Technology Laboratory (dstl)					
Telephone:	+44 (0) 1980 613121					
Email:	centralenquiries@dstl.gov.uk					

References

Dependency	NETN-Base_v1.0
Dependency	NETN-Physical_v1.1
Dependency	RPR-Base_v2.0
Dependency	RPR-Physical_v2.0

Use History

1.0.0 - Initial; object, interaction classes and datatypes.	
101 411 1	Ī

v1.0.1 - Added semantics.

v1.0.2 - Added missing QuantityUInt32 simple data type, fixed IPEEnum values.

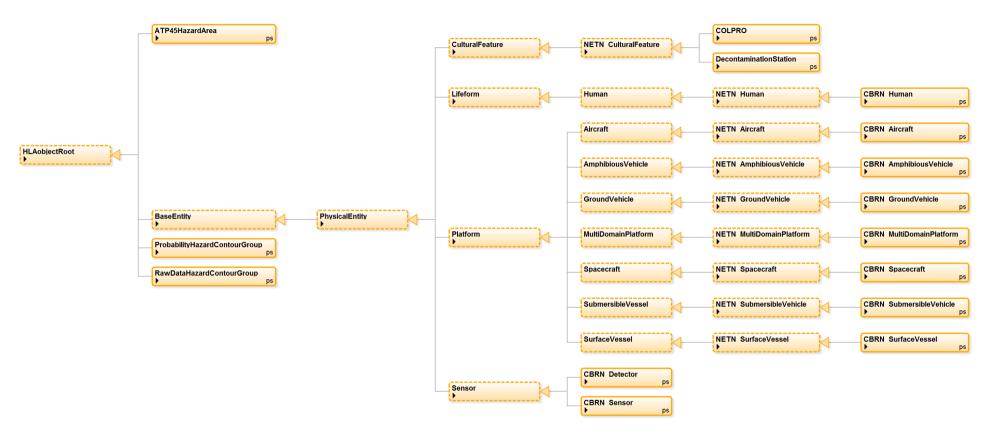
- v1.1.0 Added new attributes to ATP45HazardArea, CBRN_Sensor and CBRN_Detector. Added parent interaction type to COLPROUpdate and DecontaminationStationUpdate. Re-used existing RPR and NETN simple data types. Renamed several data types and attribute names.
- v1.1.1 Added references to dependencies.
- 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

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.

Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
FimeSecInt64	PS	DA	RO	HLAbestEffort				
Jpdate type	Update Condition							
Conditional On change								
Semantics								
Simulation time at which this hazard area was generated.								
D atatype	Sharing	Ownership	Order	Transportation	Dimensions			
TimeSecondInteger32	PS	DA	RO	HLAbestEffort				
Jpdate type	Update Cond	lition						
Conditional	On change							
emantics								
Duration (in seconds) from the Time a	ttribute tha	t this hazar	d area pre	diction is valid.				
Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
ArrayOfWorldLocationStruct3	PS	DA	RO	HLAbestEffort				
Update type Update Condition								
Conditional On change								
emantics								
Array of locations that define the haza	rd area							
Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
ATP45HazardAreaTypeEnum8	PS	DA	RO	HLAbestEffort				
Jpdate type	Update Cond	lition						
Static	N/A							
emantics								
This hazard area's type								
D atatype	Sharing	Ownership	Order	Transportation	Dimensions			
AgentClassEnum8	PS	DA	RO	HLAbestEffort				
Jpdate type	Update Condition							
Static N/A								
Semantics								
The agent class								
	imeSecInt64 pdate type conditional emantics imulation time at which this hazard at atatype conditional emantics co	pdate type On change conditional On change conditional On change conditional Conchange Conditional Conditional Conchange Conditional Conditional Conchange Conditional Conchange Conditional Conchange Conditional Conchange Conditional Conchange Conditional Conchange	imeSecInt64 pdate type Update Condition On change emantics imulation time at which this hazard area was generated. atatype Sharing Ownership imeSecondInteger32 PS DA Update Condition On change emantics Ouration (in seconds) from the Time attribute that this hazard atatype Sharing Ownership Ownership Ownership Ownership Ownership Ouration (in seconds) from the Time attribute that this hazard atatype Sharing Ownership Ounditional On change On c	pdate type Onditional On change emantics imulation time at which this hazard area was generated. atatype Sharing Ownership Onditional On change imuSecondInteger32 PS DA RO pdate type Update Condition On change emantics Our ation (in seconds) from the Time attribute that this hazard area presentatype Sharing Ownership Ownership Order	pdate type			

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
	<u>UuidArrayOfHLAbyte16</u>	PS	DA	RO	HLAbestEffort				
	Update type	Update Cond	Update Condition						
UniqueID	Static	N/A							
	Semantics								
	Unique representation of the area's ID.								
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
	HLAtoken	PS	DA	TS	HLAreliable				
HLAprivilegeToDeleteObject	Update type	Update type Update Condition							
Inherited from HLAobjectRoot in MIM	Static	NA NA							
	Semantics	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.

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
	QuantityUInt32	PS	DA	RO	HLAbestEffort				
	Update type	Update Cond	Update Condition						
NumberEntities	Static	N/A							
	Semantics								
	The number of entities that this COLPRO can handle.								
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
	$\frac{ArrayOfProtectionEffectivenessStruc}{\underline{t}}$	PS	DA	RO	HLAbestEffort				
Protection	Update type	Update Condition							
Totection	Static	N/A							
	Semantics								
	The effectiveness that this COLPRO offers for each agent.								

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	UuidArrayOfHLAbyte16	PS	DA	RO	HLAbestEffort						
	Update type	Update Con	dition		1						
UniqueID	Static NA										
Inherited from NETN_CulturalFeature in NETN-Physical v1.1.2	Semantics										
NEIN-Physical_v1.1.2	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.										
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	HLAunicodeString	PS	DA	RO	HLAbestEffort						
Callsign	Update type Update Condition										
Inherited from NETN_CulturalFeature in	Static	NA									
	Semantics	Semantics									
	Name of the object.										
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	ActiveStatusEnum8	PS	DA	RO	HLAbestEffort						
Status	Update type	Update Con	dition								
Inherited from NETN_CulturalFeature in	Conditional	On change	2								
NETN-Physical_v1.1.2	Semantics	1									
	If an instance shall be taken into acco	ount by fede	rates.								
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	AggregateMissionEnum16	PS	DA	RO	HLAbestEffort						
Activity	Update type	Update Con	dition	•	•						
Inherited from NETN_CulturalFeature in	Conditional	On change	2								
NETN-Physical_v1.1.2	Semantics	•									
	The activity of the object.										

ArrayOfUsid PS DA RO HLAbestEffort		Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
Conditional On change			PS	DA	RO	HLAbestEffort						
Semanties List of unique IDs of on-board elements List of unique IDs of on-board elements List of unique IDs of on-board elements Datatype Sharing Ownership Order Transportation Dimensions	EmbeddedUnitList	Update type	Update Con	dition		-						
Semantics List of unique IDs of on-board elements		Conditional On change										
Datatype Sharing Ownership Order Transportation Dimensions	NETN-Physical_v1.1.2	, v										
RPRboolean PS DA RO HLAbestEffort Update type Update Condition Inherited from Cultural Feature in RPR Physical y.2.0 Conditional Semantics Whether the cultural feature's external lights are on or not. InternalHeatSourceOn Inherited from Cultural Feature in RPR Physical y.2.0 PS DA RO HLAbestEffort Update type Update Condition Conditional On change Conditional On change PS DA RO HLAbestEffort Conditional On change Conditional On change Whether the cultural feature's internal heat source is on or not. Whether the cultural feature's internal heat source is on or not. Datatype Nonership Order Transportation Whether the cultural feature's internal heat source is on or not. Whether the cultural feature's internal heat source is on or not. PS DA RO HLAbestEffort Update type Update Condition InternalLightsOn Inherited from CulturalFeature in RPR Physical y.2.0 Conditional On change PS DA RO HLAbestEffort Conditional On change Whether the cultural feature's internal lights are on or not. Dimensions Conditional On change Whether the cultural feature's internal lights are on or not. Datatype Sharing Ownership Order Transportation Dimensions Integral 6 PS DA RO HLAbestEffort Update type Update Condition Dimensions		List of unique IDs of on-board eleme	List of unique IDs of on-board elements									
External LightsOn Inherited from Cultural Feature in RPR-Physical_v2.0 Update type Update Condition		Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
Conditional On change		RPRboolean	PS	DA	RO	HLAbestEffort						
Physical_v2.0 Semantics Whether the cultural feature's external lights are on or not.	ExternalLightsOn	Update type Update Condition										
Semantics Whether the cultural feature's external lights are on or not.		Conditional	On change	?								
Datatype Sharing Ownership Order Transportation Dimensions	Physicat_v2.0	Semantics	•									
InternalHeatSourceOn Inherited from CulturalFeature in RPR- Physical_v2.0 Conditional On change		Whether the cultural feature's extern	al lights are	on or not.								
InternalHeatSourceOn Inherited from CulturalFeature in RPR- Physical_v2.0 Conditional On change Semantics Whether the cultural feature's internal heat source is on or not. InternalLightsOn Inherited from CulturalFeature in RPR- Physical_v2.0 InternalLightsOn Inherited from CulturalFeature in RPR- Physical_v2.0 Conditional On change Conditional On change Conditional On change Semantics Whether the cultural feature's internal lights are on or not. AcousticSignatureIndex Update type Update Condition Update on or not. Datatype Sharing Ownership Order Transportation Dimensions Dimensions Dimensions Dimensions Dimensions Dimensions		Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
Internal Lights On Internal Lights On Internal Lights On Inherited from Cultural Feature in RPR-Physical_v2.0 Datatype RPR Sharing RPR-Dhysical_v2.0 Internal Lights On Inherited from Cultural Feature in RPR-Physical_v2.0 Internal Lights On Inherited from Cultural Feature in RPR-Physical_v2.0 Datatype Semantics Whether the cultural feature's internal lights are on or not. Datatype Sharing Ownership Order Transportation Dimensions		RPRboolean	PS	DA	RO	HLAbestEffort						
Physical_v2.0 Semantics Whether the cultural feature's internal heat source is on or not.	InternalHeatSourceOn	Update type Update Condition										
Semantics Whether the cultural feature's internal heat source is on or not.		Conditional On change										
InternalLightsOn Inherited from CulturalFeature in RPR-Physical_v2.0 Datatype	Fnysicai_v2.0	Semantics										
Internal Lights On Inherited from Cultural Feature in RPR- Physical_v2.0 Conditional On change Semantics Whether the cultural feature's internal lights are on or not. Datatype Integer 16 PS DA RO HLAbestEffort DATA RO HLAbestEffort FOR DATA RO HLAbestEffort DATA RO HLAbestEffort FOR DATA RO HLAbestEffort Dimensions Dimensions Dimensions Dimensions Update type Update Condition		Whether the cultural feature's internal heat source is on or not.										
InternalLightsOn Inherited from CulturalFeature in RPR- Physical_v2.0 Conditional On change Semantics Whether the cultural feature's internal lights are on or not. Datatype Integer16 PS DA RO HLAbestEffort Update type Update Condition Update Condition		Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
Inherited from CulturalFeature in RPR- Physical_v2.0 Conditional Semantics Whether the cultural feature's internal lights are on or not. Datatype Integer16 PS DA RO HLAbestEffort Update type Update Condition		RPRboolean	PS	DA	RO	HLAbestEffort						
Physical_v2.0 Semantics Whether the cultural feature's internal lights are on or not. Datatype Sharing Ownership Order Transportation Dimensions Integer16 PS DA RO HLAbestEffort Update type Update Condition	InternalLightsOn	Update type	Update Con	dition								
Semantics Whether the cultural feature's internal lights are on or not.		Conditional	On change	?								
Datatype Sharing Ownership Order Transportation Dimensions Integer16 PS DA RO HLAbestEffort AcousticSignatureIndex Update type Update Condition	Physical_v2.0	Semantics										
AcousticSignatureIndex Integer16 Update type Update Condition Integer16 Update type Update Condition		Whether the cultural feature's interna	al lights are	on or not.								
AcousticSignatureIndex Update type Update Condition		Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
		Integer16	PS	DA	RO	HLAbestEffort						
	AcousticSignatureIndex	Update type	Update Con	dition	-	•						
Inherited from PhysicalEntity in RPR- Conditional On change	Inherited from PhysicalEntity in RPR-	Conditional	On change	?								
Physical_v2.0 Semantics	rnysicai_v2.0	Semantics										
Index used to obtain the acoustics (sound through air) signature state of the entity.		Index used to obtain the acoustics (see	ound throug	h air) signa	ture state	of the entity.						

Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
EntityTypeStruct	PS	DA	RO	HLAbestEffort					
Update type	Update Cond	lition							
Static	NA								
Semantics									
The category of entity to be used when viewed by entities on the 'opposite' side.									
Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
ArticulatedParameterStructLengthles sArray	PS	DA	RO	HLAbestEffort					
Update type Update Condition									
Conditional	onditional On change								
Semantics									
Identification of the visible parts, and their states, of the entity which are capable of independent motion.									
Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
CamouflageEnum32	PS	DA	RO	HLAbestEffort					
Update type Update Condition									
Conditional On change									
Semantics									
The type of camouflage in use (if any).									
Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
DamageStatusEnum32	PS	DA	RO	HLAbestEffort					
Update type	Update Cond	dition							
Conditional	On change								
Semantics									
The state of damage of the entity.									
Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
RPRboolean	PS	DA	RO	HLAbestEffort					
Update type	Update Condition								
Conditional	On change								
Semantics	•								
Whether the entity's engine is generat	ing smoke d	or not.							
	EntityTypeStruct Update type Static Semantics The category of entity to be used when Datatype ArticulatedParameterStructLengthles sArray Update type Conditional Semantics Identification of the visible parts, and Datatype CamouflageEnum32 Update type Conditional Semantics The type of camouflage in use (if any) Datatype DamageStatusEnum32 Update type Conditional Semantics The state of damage of the entity. Datatype RPRboolean Update type Conditional Semantics The state of damage of the entity. Datatype RPRboolean Update type Conditional Semantics	EntityTypeStruct Update type Update Come Static NA Semantics The category of entity to be used when viewed by Datatype ArticulatedParameterStructLengthles sArray Update type Conditional On change Semantics Identification of the visible parts, and their states Identification of the visible parts, and their states Datatype CamouflageEnum32 PS Update type Update Conditional On change Semantics The type of camouflage in use (if any). Datatype Conditional Datatype Sharing DamageStatusEnum32 PS Update type Update Conditional On change Semantics The state of damage of the entity. Datatype RPRboolean PS Update Conditional On change Semantics The state of damage of the entity. Datatype Conditional On change Sharing RPRboolean PS Update Conditional On change Conditional On change	EntityTypeStruct PS DA Update type Update Condition Static NA Semantics The category of entity to be used when viewed by entities on Datatype Sharing Ownership ArticulatedParameterStructLengthles sArray Update type Update Condition Conditional On change Semantics Identification of the visible parts, and their states, of the entity Datatype Sharing Ownership CamouflageEnum32 PS DA Update type Update Condition Conditional On change Semantics The type of camouflage in use (if any). Datatype Sharing Ownership DamageStatusEnum32 PS DA Update type Update Condition Conditional On change Semantics The type of camouflage in use (if any). Datatype Sharing Ownership DamageStatusEnum32 PS DA Update type Update Condition Conditional On change Semantics The state of damage of the entity. Datatype Sharing Ownership RPRboolean PS DA Update Condition Conditional On change	EntityTypeStruct PS DA RO Update type Update Condition Static NA Semantics The category of entity to be used when viewed by entities on the 'oppos' Datatype Sharing Ownership Order ArticulatedParameterStructLengthles PS DA RO Update type Update Condition Conditional On change Semantics Identification of the visible parts, and their states, of the entity which a Datatype Sharing Ownership Order CamouflageEnum32 PS DA RO Update type Update Condition Conditional On change Semantics The type of camouflage in use (if any). Datatype DamageStatusEnum32 PS DA RO Update type Update Condition Conditional On change Semantics The state of damage of the entity. Datatype Sharing Ownership Order Conditional On change Semantics The state of damage of the entity. Datatype Sharing Ownership Order RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics The state of damage of the entity. Datatype Sharing Ownership Order RPRboolean PS DA RO Update type Update Condition Conditional On change	EntityTypeStruct PS DA RO HLAbestEffort Update type Update Condition Static NA Semantics The category of entity to be used when viewed by entities on the 'opposite' side. Datatype Sharing Ownership Order Transportation ArticulatedParameterStructLengthles SArray Update type Update Condition Conditional On change Semantics Identification of the visible parts, and their states, of the entity which are capable of independent moto Datatype Sharing Ownership Order Transportation CamouflageEnum32 PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics The type of camouflage in use (if any). Datatype Sharing Ownership Order Transportation Datatype Update type Update Condition Conditional On change Semantics The type of camouflage in use (if any). Datatype Sharing Ownership Order Transportation Datatype Update Condition Conditional On change Semantics The state of damage of the entity. Datatype Sharing Ownership Order Transportation PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics The state of damage of the entity. Datatype Sharing Ownership Order Transportation PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics The state of damage of the entity. Datatype Sharing Ownership Order Transportation PS DA RO HLAbestEffort Update type Update Condition Conditional On change				

	T	T _G ,	Ī		m						
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	RPRboolean	PS	DA	RO	HLAbestEffort						
FirePowerDisabled	Update type	Update Con	dition								
Inherited from PhysicalEntity in RPR- Physical v2.0	Conditional	Conditional On change									
Thysical_v2.0	Semantics										
	Whether the entity's main weapon system has been disabled or not.										
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	RPRboolean	PS	DA	RO	HLAbestEffort						
FlamesPresent	Update type	Update Con	dition		·						
Inherited from PhysicalEntity in RPR-	Conditional	On change	2								
Physical_v2.0	Semantics	Semantics									
	Whether the entity is on fire (with vis	Whether the entity is on fire (with visible flames) or not.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	ForceIdentifierEnum8	PS	DA	RO	HLAbestEffort						
ForceIdentifier	Update type Update Condition										
nherited from PhysicalEntity in RPR- Physical_v2.0	Conditional On change										
T hysical_v2.0	Semantics										
	The identification of the force that the entity belongs to.										
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	RPRboolean	PS	DA	RO	HLAbestEffort						
HasAmmunitionSupplyCap	Update type	Update Con	dition		•						
Inherited from PhysicalEntity in RPR-	Conditional	On change	ę								
Physical_v2.0	Semantics										
	Whether the entity has the capability	to supply of	ther entities	with amm	unition.						
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	RPRboolean	PS	DA	RO	HLAbestEffort						
HasFuelSupplyCap	Update type	Update Condition									
Inherited from PhysicalEntity in RPR-	Conditional	On change	2								
Physical_v2.0	Semantics										
	Whether the entity has the capability	to supply of	ther entities	with fuel o	or not.						
	memer me emmy has me capability to supply other entitles with fuel or not.										

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions						
	RPRboolean	PS	DA	RO	HLAbestEffort							
HasRecoveryCap	Update type	Update Condition										
Inherited from PhysicalEntity in RPR-	Conditional On change											
Physical_v2.0	Semantics											
	Whether the entity has the capability	Whether the entity has the capability to recover other entities or not.										
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions						
	RPRboolean	PS	DA	RO	HLAbestEffort							
HasRepairCap	Update type Update Condition											
Inherited from PhysicalEntity in RPR-	Conditional	On change	?									
Physical_v2.0	Semantics	Semantics										
	Whether the entity has the capability to repair other entities or not.											
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions						
	RPRboolean	PS	DA	RO	HLAbestEffort							
Immobilized	Update type Update Condition											
Physical_v2.0	Conditional On change											
	Semantics											
	Whether the entity is immobilized or not.											
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions						
	Integer16	PS	DA	RO	HLAbestEffort							
InfraredSignatureIndex	Update type	Update Con	dition			·						
Inherited from PhysicalEntity in RPR-	Conditional	On change	?									
Physical_v2.0	Semantics	•										
	Index used to obtain the infra-red sig	nature state	of the entit	y.								
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions						
	RPRboolean	PS	DA	RO	HLAbestEffort							
IsConcealed	Update type	te type Update Condition										
Inherited from PhysicalEntity in RPR-	Conditional	On change	?									
Physical_v2.0	Semantics											
	Whether the entity is concealed or no	t.										

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	VelocityDecimeterPerSecondInteger 16	PS	DA	RO	HLAbestEffort						
LiveEntityMeasuredSpeed	Update type	ate type Update Condition									
Inherited from PhysicalEntity in RPR- Physical_v2.0	Conditional On change										
, _	Semantics										
	The entity's own measurement of speed (e.g. air speed for aircraft).										
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	MarkingStruct	PS	DA	RO	HLAbestEffort						
Marking	Update type	Update type Update Condition									
Inherited from PhysicalEntity in RPR-	Conditional	On change									
Physical_v2.0	Semantics										
	A unique marking or combination of characters used to distinguish the entity from other entities.										
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	RPRboolean	PS	DA	RO	HLAbestEffort						
PowerPlantOn	Update type Update Condition										
Inherited from PhysicalEntity in RPR- Physical v2.0	Conditional On change										
Fnystcat_v2.0	Semantics										
	Whether the entity's power plant is on or not.										
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	PropulsionSystemDataStructLengthl essArray	PS	DA	RO	HLAbestEffort						
PropulsionSystemsData	Update type	Update Cond	lition								
Inherited from PhysicalEntity in RPR- Physical_v2.0	Conditional	On change									
	Semantics										
	The basic operating data of the propu	lsion systen	ns aboard ti	he entity.							
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	Integer16	PS	DA	RO	HLAbestEffort						
RadarCrossSectionSignatureIndex	Update type	Update Cond	lition								
Inherited from PhysicalEntity in RPR-	Conditional	On change	<u>. </u>								
Physical_v2.0	Semantics										
	Index used to obtain the radar cross s	ection signa	ature state o	of the $$	······································						

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions								
	RPRboolean	PS	DA	RO	HLAbestEffort									
SmokePlumePresent	Update type	Update Cond	dition											
Inherited from PhysicalEntity in RPR-	Conditional On change													
Physical_v2.0	Semantics													
	Whether the entity is generating smoke or not (intentional or unintentional).													
	Datatype	Sharing Ownership Order Transportation Dimensions												
	RPRboolean	PS	DA	RO	HLAbestEffort									
TentDeployed	Update type Update Condition													
Inherited from PhysicalEntity in RPR- Physical_v2.0	Conditional	On change	?											
Frystcat_v2.0	Semantics													
	Whether the entity has deployed tent of	or not.												
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions								
	TrailingEffectsCodeEnum32	PS	DA	RO	HLAbestEffort									
TrailingEffectsCode	Update type Update Condition													
Physical_v2.0	Conditional On change													
	Semantics													
	The type and size of any trail that the entity is making.													
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions								
	VectoringNozzleSystemDataStructL engthlessArray	PS	DA	RO	HLAbestEffort									
VectoringNozzleSystemData	Update type	Update Cond	dition	•	•	•								
Inherited from PhysicalEntity in RPR- Physical_v2.0	Conditional	On change	?											
J	Semantics													
	The basic operational data for the vec	ctoring nozz	le systems d	aboard the	e entity.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions								
	EntityTypeStruct	PS	DA	RO	HLAbestEffort									
 EntityType	Update type	Update Cond	dition	•		·								
Inherited from BaseEntity in RPR-Base_v2.0	Static	NA												
	Semantics	1												
	The category of the entity.													
						The category of the entity.								

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	EntityIdentifierStruct	PS	DA	RO	HLAbestEffort					
EntityIdentifier	Update type	Update Cond	lition	•						
Inherited from BaseEntity in RPR-Base_v2.0	Static NA									
_	Semantics									
	The unique identifier for the entity instance.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	IsPartOfStruct	PS	DA	RO	HLAbestEffort					
	Update type	Update type Update Condition								
IsPartOf	Conditional	On change	!							
Inherited from BaseEntity in RPR-Base_v2.0	Semantics									
	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 HostEntityIdentifier 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.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	SpatialVariantStruct	PS	DA	RO	HLAbestEffort					
Spatial	Update type	Update Cond	dition							
Inherited from BaseEntity in RPR-Base_v2.0	Conditional	On change	RPRnoteBase10) RPRnoteBase	1 RPRnoteBase12 RPRnoteBase13 RPRn	oteBase14				
	Semantics	•								
	Spatial state stored in one variant record attribute.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	SpatialVariantStruct	PS	DA	RO	HLAbestEffort					
RelativeSpatial	Update type	Update Cond	lition							
Inherited from BaseEntity in RPR-Base_v2.0	Conditional	On change	RPRnoteBase10) RPRnoteBase ²	1 RPRnoteBase12 RPRnoteBase13 RPRn	oteBase14				
	Semantics									
	Relative spatial state stored in one va	riant record	l attribute.							

HLAprivilegeToDeleteObject	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.

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	QuantityUInt32	PS	DA	RO	HLAbestEffort						
	Update type	Update Con	Update Condition								
NumberEntities	Static	N/A									
	Semantics										
	The number of entities that this decontamination station can handle.										
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	TimeSecondInteger32	PS	DA	RO	HLAbestEffort						
December in the Device of	Update type	Update type Update Condition									
	Static	c N/A									
	Semantics										
	Duration in seconds it takes to decontaminate an entity.										
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	ArrayOfTreatmentStruct	PS	DA	RO	HLAbestEffort						
	Update type	Update Con	dition								
Treatments	Conditional	On change	?								
	Semantics										
	The types of treatment that this decon	tamination	station curr	ently offer	s.						

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	<u>UuidArrayOfHLAbyte16</u>	PS	DA	RO	HLAbestEffort					
	Update type	Update Con	dition							
UniqueID	Static NA									
Inherited from NETN_CulturalFeature in NETN-Physical_v1.1.2	Semantics									
INETIN-FRYSICAL_VI.1.2	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.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	HLAunicodeString	PS	DA	RO	HLAbestEffort					
Callsign	Update type Update Condition									
Inherited from NETN_CulturalFeature in	Static NA									
-	Semantics	•								
	Name of the object.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	ActiveStatusEnum8	PS	DA	RO	HLAbestEffort					
Status	Update type	Update Con	dition							
Inherited from NETN_CulturalFeature in	Conditional	On change	?							
NETN-Physical_v1.1.2	Semantics	•								
	If an instance shall be taken into acco	ount by fede	rates.							
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	AggregateMissionEnum16	PS	DA	RO	HLAbestEffort					
Activity	Update type	Update Con	dition							
Inherited from NETN_CulturalFeature in	Conditional	On change	?							
NETN-Physical_v1.1.2	Semantics									
	The activity of the object.									

ArrayOfUsid PS DA RO HLAbestEffort		Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
Conditional On change			PS	DA	RO	HLAbestEffort						
Semanties List of unique IDs of on-board elements List of unique IDs of on-board elements List of unique IDs of on-board elements Datatype Sharing Ownership Order Transportation Dimensions	EmbeddedUnitList	Update type	Update Con	dition		-						
Semantics List of unique IDs of on-board elements		Conditional On change										
Datatype Sharing Ownership Order Transportation Dimensions	NETN-Physical_v1.1.2	, v										
RPRboolean PS DA RO HLAbestEffort Update type Update Condition Inherited from Cultural Feature in RPR Physical y.2.0 Conditional Semantics Whether the cultural feature's external lights are on or not. InternalHeatSourceOn Inherited from Cultural Feature in RPR Physical y.2.0 PS DA RO HLAbestEffort Update type Update Condition Conditional On change Conditional On change PS DA RO HLAbestEffort Conditional On change Conditional On change Whether the cultural feature's internal heat source is on or not. Whether the cultural feature's internal heat source is on or not. Datatype Nonership Order Transportation Whether the cultural feature's internal heat source is on or not. Whether the cultural feature's internal heat source is on or not. PS DA RO HLAbestEffort Update type Update Condition InternalLightsOn Inherited from CulturalFeature in RPR Physical y.2.0 Conditional On change PS DA RO HLAbestEffort Conditional On change Whether the cultural feature's internal lights are on or not. Dimensions Conditional On change Whether the cultural feature's internal lights are on or not. Datatype Sharing Ownership Order Transportation Dimensions Integral 6 PS DA RO HLAbestEffort Update type Update Condition Dimensions		List of unique IDs of on-board eleme	List of unique IDs of on-board elements									
External LightsOn Inherited from Cultural Feature in RPR-Physical_v2.0 Update type Update Condition		Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
Conditional On change		RPRboolean	PS	DA	RO	HLAbestEffort						
Physical_v2.0 Semantics Whether the cultural feature's external lights are on or not.	ExternalLightsOn	Update type Update Condition										
Semantics Whether the cultural feature's external lights are on or not.		Conditional	On change	?								
Datatype Sharing Ownership Order Transportation Dimensions	Physicat_v2.0	Semantics	•									
InternalHeatSourceOn Inherited from CulturalFeature in RPR- Physical_v2.0 Conditional On change		Whether the cultural feature's extern	al lights are	on or not.								
InternalHeatSourceOn Inherited from CulturalFeature in RPR- Physical_v2.0 Conditional On change Semantics Whether the cultural feature's internal heat source is on or not. InternalLightsOn Inherited from CulturalFeature in RPR- Physical_v2.0 InternalLightsOn Inherited from CulturalFeature in RPR- Physical_v2.0 Conditional On change Conditional On change Conditional On change Semantics Whether the cultural feature's internal lights are on or not. AcousticSignatureIndex Update type Update Condition Update on or not. Datatype Sharing Ownership Order Transportation Dimensions Dimensions Dimensions Dimensions Dimensions Dimensions		Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
Internal Lights On Internal Lights On Internal Lights On Inherited from Cultural Feature in RPR-Physical_v2.0 Datatype RPR Sharing RPR-Dhysical_v2.0 Internal Lights On Inherited from Cultural Feature in RPR-Physical_v2.0 Internal Lights On Inherited from Cultural Feature in RPR-Physical_v2.0 Datatype Semantics Whether the cultural feature's internal lights are on or not. Datatype Sharing Ownership Order Transportation Dimensions		RPRboolean	PS	DA	RO	HLAbestEffort						
Physical_v2.0 Semantics Whether the cultural feature's internal heat source is on or not.	InternalHeatSourceOn	Update type Update Condition										
Semantics Whether the cultural feature's internal heat source is on or not.		Conditional On change										
InternalLightsOn Inherited from CulturalFeature in RPR-Physical_v2.0 Datatype	Fnysicai_v2.0	Semantics										
Internal Lights On Inherited from Cultural Feature in RPR- Physical_v2.0 Conditional On change Semantics Whether the cultural feature's internal lights are on or not. Datatype Integer 16 PS DA RO HLAbestEffort DATA RO HLAbestEffort FOR DATA RO HLAbestEffort DATA RO HLAbestEffort FOR DATA RO HLAbestEffort Dimensions Dimensions Dimensions Dimensions Update type Update Condition		Whether the cultural feature's internal heat source is on or not.										
InternalLightsOn Inherited from CulturalFeature in RPR- Physical_v2.0 Conditional On change Semantics Whether the cultural feature's internal lights are on or not. Datatype Integer16 PS DA RO HLAbestEffort Update type Update Condition Update Condition		Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
Inherited from CulturalFeature in RPR- Physical_v2.0 Conditional Semantics Whether the cultural feature's internal lights are on or not. Datatype Integer16 PS DA RO HLAbestEffort Update type Update Condition		RPRboolean	PS	DA	RO	HLAbestEffort						
Physical_v2.0 Semantics Whether the cultural feature's internal lights are on or not. Datatype Sharing Ownership Order Transportation Dimensions Integer16 PS DA RO HLAbestEffort Update type Update Condition	InternalLightsOn	Update type	Update Con	dition								
Semantics Whether the cultural feature's internal lights are on or not.		Conditional	On change	?								
Datatype Sharing Ownership Order Transportation Dimensions Integer16 PS DA RO HLAbestEffort AcousticSignatureIndex Update type Update Condition	Physical_v2.0	Semantics										
AcousticSignatureIndex Integer16 Update type Update Condition Integer16 Update type Update Condition		Whether the cultural feature's interna	al lights are	on or not.								
AcousticSignatureIndex Update type Update Condition		Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
		Integer16	PS	DA	RO	HLAbestEffort						
	AcousticSignatureIndex	Update type	Update Con	dition	-	•						
Inherited from PhysicalEntity in RPR- Conditional On change	Inherited from PhysicalEntity in RPR-	Conditional	On change	?								
Physical_v2.0 Semantics	rnysicai_v2.0	Semantics										
Index used to obtain the acoustics (sound through air) signature state of the entity.		Index used to obtain the acoustics (see	ound throug	h air) signa	ture state	of the entity.						

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	EntityTypeStruct	PS	DA	RO	HLAbestEffort					
AlternateEntityType	Update type	Update Cond	lition	ı						
Inherited from PhysicalEntity in RPR-	Static	NA								
Physical_v2.0	Semantics									
	The category of entity to be used when viewed by entities on the 'opposite' side.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	ArticulatedParameterStructLengthles sArray	PS	DA	RO	HLAbestEffort					
ArticulatedParametersArray	Update type	Update Condition								
Inherited from PhysicalEntity in RPR- Physical_v2.0 Conditional On change										
	Semantics									
	Identification of the visible parts, and their states, of the entity which are capable of independent motion.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	CamouflageEnum32	PS	DA	RO	HLAbestEffort					
CamouflageType	Update type Update Condition									
Inherited from PhysicalEntity in RPR- Physical_v2.0	Conditional On change									
Fnysicat_v2.0	Semantics									
	The type of camouflage in use (if any)									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	DamageStatusEnum32	PS	DA	RO	HLAbestEffort					
DamageState	Update type	Update Cond	lition							
Inherited from PhysicalEntity in RPR-	Conditional	On change								
Physical_v2.0	Semantics									
	The state of damage of the entity.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
EngineSmokeOn	Update type	Update Condition								
Inherited from PhysicalEntity in RPR-	Conditional	On change	!							
Physical_v2.0	Semantics									
	Whether the entity's engine is generat	ing smoke o	or not.							
	<u>-</u>									

	Sharing	Ownership	Order	Transportation	Dimensions				
RPRboolean	PS	DA	RO	HLAbestEffort					
Update type	Update Con	Update Condition							
Conditional On change									
Semantics	•								
Whether the entity's main weapon sys	stem has bee	n disabled o	or not.						
Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
RPRboolean	PS	DA	RO	HLAbestEffort					
Update type	Update Con	dition							
Conditional	On change	?							
Semantics									
Whether the entity is on fire (with visible flames) or not.									
Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
ForceIdentifierEnum8	PS	DA	RO	HLAbestEffort					
Update type	Update Con	dition		<u> </u>					
Conditional On change									
Semantics									
The identification of the force that the entity belongs to.									
Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
RPRboolean	PS	DA	RO	HLAbestEffort					
Update type	Update Con	dition	•	•	•				
Conditional	On change	?							
Semantics	•								
Whether the entity has the capability	to supply ot	her entities	with amm	unition.					
Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
RPRboolean	PS	DA	RO	HLAbestEffort					
Update type	Update Condition								
Conditional	On change	?							
Semantics									
Whether the entity has the capability	to supply ot	her entities	with fuel o	or not.					
	Conditional Semantics Whether the entity's main weapon system of the process of the system of the	Conditional Semantics Whether the entity's main weapon system has been performed by the system ha	Conditional Semantics Whether the entity's main weapon system has been disabled of the property of the prope	Conditional Semantics Whether the entity's main weapon system has been disabled or not. Datatype RPRboolean PS DA RO Update type Update Condition Conditional Semantics Whether the entity is on fire (with visible flames) or not. Datatype Sharing Sharing Ownership Order ForceIdentifierEnum8 PS DA RO Update type Update Condition Conditional On change Semantics The identification of the force that the entity belongs to. Datatype Sharing Ownership Order RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics Whether the entity has the capability to supply other entities with amm Datatype RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics Whether the entity has the capability to supply other entities with amm Datatype RPRboolean PS DA RO Update type Update Condition Conditional On change Sharing Ownership Order RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics	Conditional On change Semantics Whether the entity's main weapon system has been disabled or not. Datatype Sharing Ownership Order Transportation RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Whether the entity is on fire (with visible flames) or not. Datatype Sharing Ownership Order Transportation ForceIdentifierEnum8 PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics The identification of the force that the entity belongs to. Datatype Sharing Ownership Order Transportation RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Whether the entity has the capability to supply other entities with ammunition. Datatype Sharing Ownership Order Transportation RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Whether the entity has the capability to supply other entities with ammunition. Datatype Sharing Ownership Order Transportation RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change				

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	RPRboolean	PS	DA	RO	HLAbestEffort						
HasRecoveryCap	Update type	Update Condition									
Inherited from PhysicalEntity in RPR-	Conditional On change										
Physical_v2.0	Semantics	•									
	Whether the entity has the capability	Whether the entity has the capability to recover other entities or not.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	RPRboolean	PS	DA	RO	HLAbestEffort						
HasRepairCap	Update type Update Condition										
Inherited from PhysicalEntity in RPR-	Conditional	On change	?								
Physical_v2.0	Semantics										
	Whether the entity has the capability	Whether the entity has the capability to repair other entities or not.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	RPRboolean	PS	DA	RO	HLAbestEffort						
Immobilized	Update type	Update Con	dition			·					
nherited from PhysicalEntity in RPR-	Conditional On change										
Physical_v2.0	Semantics										
	Whether the entity is immobilized or not.										
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	Integer16	PS	DA	RO	HLAbestEffort						
InfraredSignatureIndex	Update type	Update Con	dition			·					
Inherited from PhysicalEntity in RPR-	Conditional	On change	?								
Physical_v2.0	Semantics	•									
	Index used to obtain the infra-red sig	nature state	of the entit	y.							
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	RPRboolean	PS	DA	RO	HLAbestEffort						
IsConcealed	Update type	Update Con	dition	•	·						
Inherited from PhysicalEntity in RPR-	Conditional	On change	?								
Physical_v2.0	Semantics										
	Whether the entity is concealed or no	t.									

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	VelocityDecimeterPerSecondInteger 16	PS	DA	RO	HLAbestEffort					
LiveEntityMeasuredSpeed	Update type	Update Con	dition							
Inherited from PhysicalEntity in RPR- Physical_v2.0	Conditional On change									
	Semantics									
	The entity's own measurement of speed (e.g. air speed for aircraft).									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	MarkingStruct	PS	DA	RO	HLAbestEffort					
Marking	Update type	Update Con	dition							
Inherited from PhysicalEntity in RPR-	Conditional On change									
Physical_v2.0	Semantics									
	A unique marking or combination of characters used to distinguish the entity from other entities.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
PowerPlantOn	Update type Update Condition									
Inherited from PhysicalEntity in RPR-	Conditional On change									
Physical_v2.0	Semantics									
	Whether the entity's power plant is on or not.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	PropulsionSystemDataStructLengthl essArray	PS	DA	RO	HLAbestEffort					
PropulsionSystemsData	Update type	Update Con	dition							
Inherited from PhysicalEntity in RPR- Physical_v2.0	Conditional	On change	?							
, -	Semantics									
	The basic operating data of the propu	lsion systen	ns aboard th	he entity.						
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	Integer16	PS	DA	RO	HLAbestEffort					
RadarCrossSectionSignatureIndex	Update type	Update Con	dition							
Inherited from PhysicalEntity in RPR-	Conditional	Conditional On change								
Physical_v2.0	Semantics									
	Index used to obtain the radar cross s	ection sign	ature state d	of the entity	y.					

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
SmokePlumePresent	Update type	Update Cond	dition							
Inherited from PhysicalEntity in RPR-	Conditional On change									
Physical_v2.0	Semantics									
	Whether the entity is generating smoke or not (intentional or unintentional).									
	Datatype	Sharing Ownership Order Transportation Dimensions								
	RPRboolean	PS	DA	RO	HLAbestEffort					
TentDeployed	Update type Update Condition									
Inherited from PhysicalEntity in RPR- Physical_v2.0	Conditional	On change	?							
Frystcat_v2.0	Semantics									
	Whether the entity has deployed tent or not.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	TrailingEffectsCodeEnum32	PS	DA	RO	HLAbestEffort					
TrailingEffectsCode	Update type Update Condition									
Inherited from PhysicalEntity in RPR-	Conditional On change									
Physical_v2.0	Semantics									
	The type and size of any trail that the entity is making.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	VectoringNozzleSystemDataStructL engthlessArray	PS	DA	RO	HLAbestEffort					
VectoringNozzleSystemData	Update type	Update Cond	dition	•	•	•				
Inherited from PhysicalEntity in RPR- Physical_v2.0	Conditional	On change	?							
J	Semantics									
	The basic operational data for the vec	ctoring nozz	le systems d	aboard the	e entity.					
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	EntityTypeStruct	PS	DA	RO	HLAbestEffort					
 EntityType	Update type	Update Cond	dition	•		·				
Inherited from BaseEntity in RPR-Base_v2.0	Static	NA								
	Semantics	1								
	The category of the entity.									
	The emegory of the entity.									

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	EntityIdentifierStruct	PS	DA	RO	HLAbestEffort						
 EntityIdentifier	Update type	Update type Update Condition									
Inherited from BaseEntity in RPR-Base_v2.0	Static NA										
	Semantics	•									
	The unique identifier for the entity ins	The unique identifier for the entity instance.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	IsPartOfStruct	PS	DA	RO	HLAbestEffort						
	Update type	Update type Update Condition									
IsPartOf	Conditional On change										
Inherited from BaseEntity in RPR-Base_v2.0	Semantics										
	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 HostEntityIdentifier 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.										
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	SpatialVariantStruct	PS	DA	RO	HLAbestEffort						
Spatial	Update type	Update Con	dition								
Inherited from BaseEntity in RPR-Base_v2.0	Conditional	On change	RPRnoteBase1	0 RPRnoteBase	11 RPRnoteBase12 RPRnoteBase13 RPRn	oteBase14					
	Semantics	•									
	Spatial state stored in one variant record attribute.										
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	SpatialVariantStruct	PS	DA	RO	HLAbestEffort						
RelativeSpatial	Update type	Update Con	dition								
Inherited from BaseEntity in RPR-Base_v2.0	Conditional	On change	RPRnoteBase1	0 RPRnoteBase	11 RPRnoteBase12 RPRnoteBase13 RPRn	oteBase14					
	Semantics										
	Relative spatial state stored in one va	riant record	d attribute.								

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
HLAprivilegeToDeleteObject Inherited from HLAobjectRoot in MIM	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.

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	ArrayOfCBRNExposureStruct	PS	DA	RO	HLAbestEffort						
	Update type	Update Cond	Update Condition								
Exposures	Conditional	On change									
	Semantics										
	Array of agents to which this entity ha	as been expo	osed to. Def	aults to an	empty array.						
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	<u>ArrayOfTreatmentStruct</u>	PS	DA	RO	HLAbestEffort						
Treatments	Update type Update Condition										
	Conditional On change										
	Semantics										
	The types of treatment that this entity has used. Defaults to an empty array.										
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	CBRNDamageEnum8	PS	DA	RO	HLAbestEffort						
	Update type	Update Cond	lition								
TriageLevel	Conditional On change										
	Semantics										
	Triage level of this entity. Defaults to	Uninjured.									

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	IPETypeEnum8	PS	DA	RO	HLAbestEffort					
	Update type	Update Cond	dition		•					
IPEType	Conditional On change									
	Semantics									
	Type of IPE that the entity has donned. Defaults to None.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	HLAunicodeString	PS		RO	HLAbestEffort					
Callsign	Update type	Update type Update Condition								
Inherited from NETN_Human in NETN-	Static NA									
Physical_v1.1.2	Semantics									
	The name of the object.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	ActiveStatusEnum8	PS		RO	HLAbestEffort					
Status	Update type	Update Cond	dition							
Inherited from NETN_Human in NETN- Physical_v1.1.2	Conditional	On change	?							
Fnysicai_v1.1.2	Semantics									
	If an instance shall be taken into acco	ount by fede	rates							
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	AggregateMissionEnum16	PS								
Activity	Update type	Update Cond	dition							
Inherited from NETN_Human in NETN- Physical_v1.1.2										
1 nysicm_v1.1.2	Semantics									
	The activity of the object.									

Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
UuidArrayOfHLAbyte16	PS		RO	HLAbestEffort					
Update type	Update Con	dition							
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.									
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.									
Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
StanceCodeEnum32	PS	DA	RO	HLAbestEffort					
Update type	Update Con	dition							
Conditional	On change	?							
Semantics									
The stance of the lifeform.									
Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
WeaponStateEnum32	PS	DA	RO	HLAbestEffort					
Update type	Update Con	dition							
Conditional	On change	?							
Semantics	•								
The state of the soldier's primary wea	pon system								
	UnidarrayOfHLAbyte16 Update type Static Semantics The unique identifier of the object. Required value. If not assigned by the ORBAT specific attribute value. Datatype RPRboolean Update type Conditional Semantics Whether the lifeform's flash lights are Datatype StanceCodeEnum32 Update type Conditional Semantics The stance of the lifeform. Datatype WeaponStateEnum32 Update type Conditional Semantics The stance of the lifeform. Datatype Conditional Semantics The stance of the lifeform.	UnidArrayOfHLAbyte16 PS Update type Update Con Static NA Semantics The unique identifier of the object. Required value. If not assigned by the ORBAT specification or sin attribute value. Datatype Sharing RPRboolean PS Update type Update Con Conditional On change Semantics Sharing StanceCodeEnum32 PS Update type Update Con Conditional On change Semantics The stance of the lifeform. Datatype Sharing WeaponStateEnum32 PS Update type Update Con Conditional On change Semantics On change	UnidArrayOfHLAbyte16 PS Update Condition Static NA Semantics The unique identifier of the object. Required value. If not assigned by the ORBAT specification or similar, shall attribute value. Datatype Sharing Ownership RPRboolean PS DA Update type Update Condition Conditional On change Semantics Whether the lifeform's flash lights are on or not. Datatype Sharing Ownership StanceCodeEnum32 PS DA Update type Update Condition Conditional On change Semantics The stance of the lifeform. Datatype Sharing Ownership WeaponStateEnum32 PS DA Update type Update Condition Conditional On change	UnidArrayOfHLAbyte16 PS RO 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 attribute value. Datatype Sharing Ownership Order RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics Whether the lifeform's flash lights are on or not. Datatype Sharing Ownership Order StanceCodeEnum32 PS DA RO Update type Update Condition Conditional On change Semantics PS DA RO Update type Update Condition Conditional On change Semantics Update Condition	UnidArrayOfHLAbyte16 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 attribute value. Datatype Sharing Ownership Order Transportation RPRboolean PS DA RO HLAbestEffort Update type Semantics Wether the lifeform's flash lights are on or not. Datatype Sharing Ownership Order Transportation StanceCodeEnum32 PS DA RO HLAbestEffort Update type Condition Ownership Order Transportation Remarkies Transportation PS DA RO HLAbestEffort Update type Sharing Ownership Order Transportation PS DA RO HLAbestEffort				

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	WeaponStateEnum32	PS	DA	RO	HLAbestEffort					
SecondaryWeaponState	Update type	Update Cond	lition	1						
Inherited from Lifeform in RPR-Physical_v2.0	Conditional	On change								
	Semantics									
	The state of the soldier's secondary weapon system.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	ComplianceStateEnum32	PS	DA	RO	HLAbestEffort					
ComplianceState	Update type Update Condition									
Inherited from Lifeform in RPR-Physical_v2.0	Conditional On change									
	Semantics									
	The compliance of the lifeform.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	Integer16	PS	DA	RO	HLAbestEffort					
AcousticSignatureIndex	Update type Update Condition									
nherited from PhysicalEntity in RPR-	Conditional On change									
Physical_v2.0	Semantics									
	Index used to obtain the acoustics (sound through air) signature state of the entity.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	EntityTypeStruct	PS	DA	RO	HLAbestEffort					
AlternateEntityType	Update type	Update Cond	lition							
Inherited from PhysicalEntity in RPR-	Static	NA								
Physical_v2.0	Semantics									
	The category of entity to be used when	ı viewed by	entities on	the 'opposi	te' side.					
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	ArticulatedParameterStructLengthles sArray	PS	DA	RO	HLAbestEffort					
ArticulatedParametersArray	Update type	Update Cond	lition		•					
Inherited from PhysicalEntity in RPR- Physical_v2.0	Conditional	On change	!							
	Semantics									
	Identification of the visible parts, and	their states	, of the enti	ty which ar	re capable of independent mot	ion.				

CamouflageType Update type		Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
Conditional On change		CamouflageEnum32	PS	DA	RO	HLAbestEffort					
Semantics The type of camouflage in use (if any). Datatype DamageStatusEnum32 PS DA RO HLAbestEffort Dimensions	CamouflageType	Update type	Update Con	dition		1					
Semantics The type of camouflage in use (if any). Datatype Datatype Datatype DamageStatusEnum32 PS DA RO HLAbestEffort	Inherited from PhysicalEntity in RPR-	Conditional On change									
Datatype Sharing Ownership Order Transportation Dimensions	Physical_v2.0	Semantics	•								
DamageState DamageState Update type Update Condition Conditional On change Semantics The state of damage of the entity. Datatype RPRboolean Definitional On change Semantics To conditional Dimensions RPRboolean Datatype RPRboolean RPRboolean Datatype RPRboolean PS Datatype RPRboolean PS Dataring Datatype RPRboolean PS DA RO HLAbestEffort Dimensions HLAbestEffort Dimensions Dimensions Dimensions Conditional On change Semantics Whether the entity's engine is generating smoke or not. FirePowerDisabled Datatype RPRboolean Datatype RPRboolean PS DA RO HLAbestEffort Dimensions Dimensions Dimensions Dimensions Dimensions Dimensions Dimensions On change PS DA RO HLAbestEffort Dimensions Dimensions Dimensions Dimensions Dimensions Dimensions PS DA RO HLAbestEffort Dimensions Dimensions Dimensions Dimensions Dimensions Dimensions PS DA RO HLAbestEffort Dimensions Dimensions Dimensions Dimensions PS DA RO HLAbestEffort Dimensions PS DA RO HLAbestEffort Dimensions Dimensions PS DA RO HLAbestEffort Dimensions PS DA RO HLAbestEffort Dimensions PS Datatype RPRboolean PS Datatype RPRBDA RO HLAbestEffort RPRB RPRB RPRB RPRB RPRB RPRB RPRB RPR		The type of camouflage in use (ij	fany).								
DamageState Update type Update Condition Conditional On change		Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
Inherited from PhysicalEntity in RPR-Physical_v2.0 Semantics Semantics The state of damage of the entity.		DamageStatusEnum32	PS	DA	RO	HLAbestEffort					
Semantics The state of damage of the entity. Datatype Sharing Order Transportation Dimensions	DamageState	Update type	Update Con	dition							
Semantics The state of damage of the entity. Transportation Dimensions		Entity in RPR- Conditional On change									
Datatype Sharing Ownership Order Transportation Dimensions	Fnysicat_v2.0	Semantics									
RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Whether the entity's engine is generating smoke or not. FirePowerDisabled Inherited from PhysicalEntity in RPR-Physical_v2.0 FirePowerDisabled Inherited from PhysicalEntity in RPR-Physical_v2.0 FirePowerDisabled Inherited from PhysicalEntity in RPR-Physical_v2.0 Emantics Conditional On change PS DA RO HLAbestEffort Conditional On change Semantics Whether the entity's main weapon system has been disabled or not. Datatype RPRboolean PS DA RO HLAbestEffort Dimensions Dimensions Dimensions Dimensions PRRboolean Dimensions PRRboolean Dimensions PRRboolean PRRboolean		The state of damage of the entity									
EngineSmokeOn Update type Update Condition		Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
Inherited from PhysicalEntity in RPR- Physical_v2.0 Conditional Semantics Whether the entity's engine is generating smoke or not. PricePowerDisabled Inherited from PhysicalEntity in RPR- Physical_v2.0 Datatype RPR- Update type Update Condition Conditional On change Semantics Whether the entity's main weapon system has been disabled or not. Datatype Sharing Ownership Update Condition Conditional On change Semantics Whether the entity's main weapon system has been disabled or not. PS DA RO HLAbestEffort Dimensions Dimensions Dimensions PS DA RO HLAbestEffort		RPRboolean	PS	DA	RO	HLAbestEffort					
Physical_v2.0 Semantics Whether the entity's engine is generating smoke or not. Datatype RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change Physical_v2.0 Datatype Sharing Ownership Order Transportation HLAbestEffort Conditional On change Whether the entity's main weapon system has been disabled or not. Datatype Sharing Ownership Order Transportation Dimensions Dimensions Dimensions Dimensions Dimensions Dimensions	EngineSmokeOn	Update type	Update Con	dition		•					
Semantics Whether the entity's engine is generating smoke or not. Datatype RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional Semantics Whether the entity's main weapon system has been disabled or not. Datatype Sharing Ownership Order Transportation HLAbestEffort Dimensions Conditional On change Semantics Whether the entity's main weapon system has been disabled or not. Datatype Sharing Ownership Order Transportation Dimensions Dimensions		Conditional	Conditional On change								
Datatype Sharing Ownership Order Transportation Dimensions	Fnystcat_v2.0	Semantics									
RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Whether the entity's main weapon system has been disabled or not. Datatype Sharing Ownership Order Transportation Dimensions RPRboolean PS DA RO HLAbestEffort		Whether the entity's engine is generating smoke or not.									
FirePowerDisabled Inherited from PhysicalEntity in RPR- Physical_v2.0 Conditional On change Semantics Whether the entity's main weapon system has been disabled or not. Datatype RPRboolean PS DA RO HLAbestEffort		Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
Inherited from PhysicalEntity in RPR- Physical_v2.0 Conditional Semantics Whether the entity's main weapon system has been disabled or not. Datatype RPRboolean PS DA RO HLAbestEffort		RPRboolean	PS	DA	RO	HLAbestEffort					
Physical_v2.0 Semantics Whether the entity's main weapon system has been disabled or not. Datatype Sharing Ownership Order Transportation Dimensions RPRboolean PS DA RO HLAbestEffort	FirePowerDisabled	Update type	Update Con	dition		•					
Semantics Whether the entity's main weapon system has been disabled or not. Datatype Sharing Ownership Order Transportation Dimensions RPRboolean PS DA RO HLAbestEffort	Inherited from PhysicalEntity in RPR-	Conditional	On change	e							
DatatypeSharingOwnershipOrderTransportationDimensionsRPRbooleanPSDAROHLAbestEffort	Physical_v2.0	Semantics	·								
RPRboolean PS DA RO HLAbestEffort		Whether the entity's main weapo	n system has be	en disabled	or not.						
		Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
FlamesPresent Update type Update Condition		RPRboolean	PS	DA	RO	HLAbestEffort					
	FlamesPresent	Update type	Update Con	Update Condition							
Inherited from PhysicalEntity in RPR- Conditional On change		Conditional	On change	e							
Physical_v2.0 Semantics	Fnysicat_v2.0	Semantics									
Whether the entity is on fire (with visible flames) or not.		Whether the entity is on fire (wit	h visible flames)	or not.							

ForceIdentifier Understed from PhysicalEntity in RPR-Physical_v2.0 See	pdate type	PS Update Cond	DA	RO	HLAbestEffort					
Inherited from PhysicalEntity in RPR-Physical_v2.0		Update Cond	litian							
Physical_v2.0	Conditional		Update Condition							
Se		Conditional On change								
	Semantics									
	The identification of the force that the entity belongs to.									
D:	atatype	Sharing	Ownership	Order	Transportation	Dimensions				
R	RPRboolean	PS	DA	RO	HLAbestEffort					
HasAmmunitionSupplyCap U	pdate type	Update Cond	lition		•					
	Conditional On change									
Physical_v2.0	Semantics									
W	Whether the entity has the capability to	o supply oth	her entities	with ammu	nition.					
Di	atatype	Sharing	Ownership	Order	Transportation	Dimensions				
R	RPRboolean	PS	DA	RO	HLAbestEffort					
HasFuelSupplyCap U	Update type Update Condition									
	Conditional On change									
Physical_v2.0	Semantics									
W	Whether the entity has the capability to	o supply oth	her entities	with fuel o	r not.					
Di	atatype	Sharing	Ownership	Order	Transportation	Dimensions				
R	PRboolean	PS	DA	RO	HLAbestEffort					
HasRecoveryCap U ₁	Update type Update Condition									
	Conditional On change									
Physical_v2.0	Semantics									
W	Whether the entity has the capability to recover other entities or not.									
Di	atatype	Sharing	Ownership	Order	Transportation	Dimensions				
	PRboolean	PS	DA	RO	HLAbestEffort					
HasRepairCap U	pdate type	Update Condition								
	Conditional On change									
Physical_v2.0	Semantics									
W	Whether the entity has the capability to repair other entities or not.									

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
Immobilized	Update type	Update Condition								
Inherited from PhysicalEntity in RPR-	Conditional On change									
Physical_v2.0	Semantics									
	Whether the entity is immobilized or not.									
	Datatype	Dimensions								
	Integer16	PS	DA	RO	HLAbestEffort					
InfraredSignatureIndex	Update type Update Condition									
Inherited from PhysicalEntity in RPR-	Conditional On change									
Physical_v2.0	Semantics									
	Index used to obtain the infra-red signature state of the entity.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
IsConcealed	Update type Update Condition									
Inherited from PhysicalEntity in RPR-	Conditional On change									
Physical_v2.0	Semantics									
	Whether the entity is concealed or not	t.								
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	VelocityDecimeterPerSecondInteger 16	PS	DA	RO	HLAbestEffort					
LiveEntityMeasuredSpeed	Update type Update Condition									
Inherited from PhysicalEntity in RPR- Physical_v2.0	Conditional On change									
	Semantics									
	The entity's own measurement of speed (e.g. air speed for aircraft).									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	MarkingStruct	PS	DA	RO	HLAbestEffort					
Marking	Update type	Update Condition								
Inherited from PhysicalEntity in RPR-	Conditional On change									
Physical_v2.0	Semantics									
	A unique marking or combination of characters used to distinguish the entity from other entities.									

Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
RPRboolean	PS	DA	RO	HLAbestEffort					
Update type	Update Condition								
Conditional On change									
Semantics									
Whether the entity's power plant is on or not.									
Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
PropulsionSystemDataStructLengthl essArray	PS	DA	RO	HLAbestEffort					
Update type	Update Condition								
Conditional On change									
Semantics									
The basic operating data of the propu	lsion systen	ns aboard tl	ne entity.						
Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
Integer16	PS	DA	RO	HLAbestEffort					
Update type Update Condition									
Conditional On change									
Semantics									
Index used to obtain the radar cross section signature state of the entity.									
Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
RPRboolean	PS	DA	RO	HLAbestEffort					
Update type	Update Cond	dition							
Conditional	ditional On change								
Semantics									
Whether the entity is generating smoke or not (intentional or unintentional).									
Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
RPRboolean	PS	DA	RO	HLAbestEffort					
Update type	Update Condition								
Conditional On change									
Semantics									
Whether the entity has deployed tent of	or not.								
	RPRboolean Update type Conditional Semantics Whether the entity's power plant is on Datatype PropulsionSystemDataStructLengthl essArray Update type Conditional Semantics The basic operating data of the propu Datatype Integer16 Update type Conditional Semantics Index used to obtain the radar cross s Datatype RPRboolean Update type Conditional Semantics Whether the entity is generating smok Datatype RPRboolean Update type Conditional Semantics Whether the entity is generating smok Datatype RPRboolean Update type Conditional Semantics Whether the entity is generating smok Datatype RPRboolean Update type Conditional	RPRboolean PS Update type Update Conditional On change Semantics Whether the entity's power plant is on or not. Datatype Sharing PropulsionSystemDataStructLengthl essArray Update type Update Conditional On change Semantics The basic operating data of the propulsion system Datatype Sharing Integer16 PS Update type Update Conditional On change Semantics Index used to obtain the radar cross section signal Semantics Index used to obtain the radar cross section signal Semantics Update type Update Conditional On change Semantics Update type Update Conditional On change Semantics Whether the entity is generating smoke or not (incomparison) Datatype Sharing PS Update type Update Conditional On change Semantics Whether the entity is generating smoke or not (incomparison) Datatype Sharing PS Update type Update Conditional On change Semantics Update type Update Conditional On change Sharing PS Update type Update Conditional On change Sharing PS	RPRboolean PS DA Update type Update Condition Conditional On change Semantics Whether the entity's power plant is on or not. Datatype Sharing Ownership Propulsion System Data Struct Length less Array Update type Update Condition Conditional On change Semantics The basic operating data of the propulsion systems aboard the parameters aboard the propulsion systems aboard the propulsion	RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics Whether the entity's power plant is on or not. Datatype Sharing Ownership Order PropulsionSystemDataStructLengthl PS DA RO Update type Update Condition Conditional On change Semantics The basic operating data of the propulsion systems aboard the entity. Datatype Sharing Ownership Order Integer16 PS DA RO Update type Update Condition Conditional On change Semantics Index used to obtain the radar cross section signature state of the entity Datatype Sharing Ownership Order RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics Index used to obtain the radar cross section signature state of the entity Datatype Sharing Ownership Order RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics Whether the entity is generating smoke or not (intentional or unintentional or unintent	RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Whether the entity's power plant is on or not. Datatype Sharing Ownership Order Transportation PropulsionSystemDataStructLengthl PS DA RO HLAbestEffort essArray Update type Update Condition Conditional On change Semantics The basic operating data of the propulsion systems aboard the entity. Datatype Sharing Ownership Order Transportation Integer 16 PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Index used to obtain the radar cross section signature state of the entity. Datatype Sharing Ownership Order Transportation Integer 16 PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Index used to obtain the radar cross section signature state of the entity. Datatype Sharing Ownership Order Transportation RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Whether the entity is generating smoke or not (intentional or unintentional). Datatype Sharing Ownership Order Transportation RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Whether the entity is generating smoke or not (intentional or unintentional). Datatype Sharing Ownership Order Transportation RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change				

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	TrailingEffectsCodeEnum32	PS	DA	RO	HLAbestEffort					
TrailingEffectsCode	Update type	Update Condition								
Inherited from PhysicalEntity in RPR-	Conditional On change									
Physical_v2.0	Semantics									
	The type and size of any trail that the entity is making.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	VectoringNozzleSystemDataStructL engthlessArray	PS	DA	RO	HLAbestEffort					
VectoringNozzleSystemData	Update type Update Condition									
Inherited from PhysicalEntity in RPR- Physical_v2.0	Conditional On change									
	Semantics									
	The basic operational data for the ved	ctoring nozz	le systems d	aboard the	entity.					
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	EntityTypeStruct	PS	DA	RO	HLAbestEffort					
EntityType	Update type Update Condition									
Inherited from BaseEntity in RPR-Base_v2.0	Static NA									
_	Semantics									
	The category of the entity.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	EntityIdentifierStruct	PS	DA	RO	HLAbestEffort					
EntityIdentifier	Update type Update Condition									
Inherited from BaseEntity in RPR-Base_v2.0	Static NA									
	Semantics									
	The unique identifier for the entity instance.									

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
IsPartOf Inherited from BaseEntity in RPR-Base_v2.0	IsPartOfStruct	PS	DA	RO	HLAbestEffort					
	Update type	Update Condition								
	Conditional	On change								
	Semantics									
	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 HostEntityIdentifier 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.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	SpatialVariantStruct	PS	DA	RO	HLAbestEffort					
Spatial	Update type	Update Condition								
Inherited from BaseEntity in RPR-Base_v2.0	Conditional	tional On change RPRnoteBase10 RPRnoteBase11 RPRnoteBase13 RPRnoteBase14								
	Semantics									
	Spatial state stored in one variant record attribute.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	SpatialVariantStruct	PS	DA	RO	HLAbestEffort					
RelativeSpatial	Update type	Update Cond	dition							
Inherited from BaseEntity in RPR-Base v2.0	Conditional	On change RPRnoteBase10 RPRnoteBase11 RPRnoteBase12 RPRnoteBase13 RPRnoteBase14								
	Semantics									
	Relative spatial state stored in one variant record attribute.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	HLAtoken	PS	DA	TS	HLAreliable					
HLAprivilegeToDeleteObject	Update type Update Condition									
Inherited from HLAobjectRoot in MIM	Static NA									
	Semantics									

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.

	Sharing	Ownership	Order	Transportation	Dimensions				
rayOfAgentMassStruct	PS	DA	RO	HLAbestEffort					
date type	Update Condition								
Conditional On change									
Semantics									
CBRN hazardous agent inside vehicle due to embedded units.									
tatype	Sharing	Ownership	Order	Transportation	Dimensions				
_AunicodeString	PS		RO	HLAbestEffort					
Update type Update Condition									
Static N/A									
Semantics									
The name of the object.									
tatype	Sharing	Ownership	Order	Transportation	Dimensions				
etiveStatusEnum8	PS	DA	RO	HLAbestEffort					
pdate type Update Condition									
Conditional On change									
Semantics									
an instance shall be taken into accou	ınt by feder	rates							
tatype	Sharing	Ownership	Order	Transportation	Dimensions				
ggregateMissionEnum16	PS	DA	RO	HLAbestEffort					
date type	Update Cond	ition							
Conditional On change									
Semantics									
e activity of the object.									
tatype	Sharing	Ownership	Order	Transportation	Dimensions				
<u>rayOfUuid</u>	PS	DA	RO	HLAbestEffort					
date type	Update Condition								
Conditional On change									
Semantics									
List of unique IDs of on-board elements.									
	date type Inditional Inantics IRN hazardous agent inside vehicle Itatype AunicodeString Idate type Itic Inantics Inantics In name of the object. Itatype ItiveStatusEnum8 Idate type Inditional Inantics In instance shall be taken into accountatype Itatype Itatype Itatype Itatype Inditional Inantics In instance shall be taken into accountatype Itatype	date type Inditional I	date type Inditional On change Inantics RRN hazardous agent inside vehicle due to embedded units Interpretation of the object. Interpretation of the object	date type Update Condition Inditional On change Inantics Italype Sharing Ownership Order Italype Update Condition Italype Sharing Ownership Order Italype Sharing Ownership Order Italype Update Condition Italype Sharing Ownership Order Italype Sharing Ownership Order Italype Update Condition Italype	date type Update Condition Inditional On change Inditional On				

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	UuidArrayOfHLAbyte16	PS		RO	HLAbestEffort					
	Update type	Update Con	dition	•						
UniqueID	Static	NA								
Inherited from NETN_Aircraft in NETN- Physical v1.1.2	Semantics									
Physica_v1.1.2	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.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
AfterburnerOn	Update type Update Condition									
inneritea from Flatform in KFK-Physicat_v2.0	Conditional	On change	?							
	Semantics	1								
	Whether the entity's afterburner is on or not.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
AntiCollisionLightsOn	Update type	Update Con	dition							
Inherited from Platform in RPR-Physical_v2.0	Conditional On change									
	Semantics									
	Whether the entity's anti-collision lights are on or not.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
BlackOutBrakeLightsOn	Update type	Update Condition								
Inherited from Platform in RPR-Physical_v2.0	Conditional	On change	?							
	Semantics									
	Whether the entity's black out brake l	ights are on	or not.							

Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
RPRboolean	PS	DA	RO	HLAbestEffort					
Update type	Update Cond	lition		1	-				
Conditional On change									
Semantics									
Whether the entity's black out lights are on or not.									
Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
RPRboolean	PS	DA	RO	HLAbestEffort					
Update type Update Condition									
Conditional	On change								
Semantics									
Whether the entity's brake lights are on or not.									
Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
RPRboolean	PS	DA	RO	HLAbestEffort					
Update type Update Condition									
Conditional On change									
Semantics									
Whether the entity's formation lights are on or not.									
Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
HatchStateEnum32	PS	DA	RO	HLAbestEffort					
Update type	Update Cond	lition							
Conditional	On change								
Semantics									
The state of the entity's (main) hatch.									
Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
RPRboolean	PS	DA	RO	HLAbestEffort					
Update type	Update Cond	lition							
Conditional	On change								
Semantics									
Whether the entity's headlights are on	or not.								
	RPRboolean Update type Conditional Semantics Whether the entity's black out lights at Datatype RPRboolean Update type Conditional Semantics Whether the entity's brake lights are of Datatype RPRboolean Update type Conditional Semantics Whether the entity's formation lights at Datatype HatchStateEnum32 Update type Conditional Semantics The state of the entity's (main) hatch. Datatype RPRboolean Update type Conditional Semantics The state of the entity's (main) hatch. Datatype RPRboolean Update type Conditional Semantics Conditional	RPRboolean PS Update type Update Conditional On change Semantics Whether the entity's black out lights are on or not Datatype Sharing RPRboolean PS Update type Update Conditional On change Semantics Whether the entity's brake lights are on or not. Datatype Sharing RPRboolean PS Update type Update Conditional On change RPRboolean PS Update type Update Conditional On change Semantics Whether the entity's formation lights are on or no Datatype Sharing HatchStateEnum32 PS Update type Update Conditional On change Semantics The state of the entity's (main) hatch. Datatype Sharing RPRboolean PS Update type Update Conditional On change Semantics The state of the entity's (main) hatch. Datatype Sharing RPRboolean PS Update type Update Conditional On change	RPRboolean PS DA Update type Update Condition Conditional On change Semantics Whether the entity's black out lights are on or not. Datatype Sharing Ownership RPRboolean PS DA Update type Update Condition Conditional On change Semantics Whether the entity's brake lights are on or not. Datatype Sharing Ownership RPRboolean PS DA Update type Update Condition Conditional On change Semantics Whether the entity's formation lights are on or not. Datatype Sharing Ownership RPRboolean Update Condition Conditional On change Semantics Whether the entity's formation lights are on or not. Datatype Sharing Ownership HatchStateEnum32 PS DA Update type Update Condition Conditional On change Semantics The state of the entity's (main) hatch. Datatype Sharing Ownership RPRboolean PS DA Update type Update Condition Conditional On change Semantics The state of the entity's (main) hatch. Datatype Sharing Ownership RPRboolean PS DA Update type Update Condition Conditional On change	RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics Whether the entity's black out lights are on or not. Datatype Sharing Ownership Order RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics Whether the entity's brake lights are on or not. Datatype Sharing Ownership Order RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics Whether the entity's brake lights are on or not. Datatype Sharing Ownership Order RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics Whether the entity's formation lights are on or not. Datatype Sharing Ownership Order HatchStateEnum32 PS DA RO Update type Update Condition Conditional On change Semantics The state of the entity's (main) hatch. Datatype Sharing Ownership Order RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics The state of the entity's (main) hatch. Datatype Sharing Ownership Order RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics	RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Whether the entity's black out lights are on or not. Datatype Sharing Ownership DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Whether the entity's brake lights are on or not. Datatype Sharing Ownership Order Transportation RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Whether the entity's brake lights are on or not. Datatype Sharing Ownership Order Transportation RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Whether the entity's formation lights are on or not. Datatype Sharing Ownership Order Transportation HatchStateEnum32 PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics The state of the entity's (main) hatch. Datatype Sharing Ownership Order Transportation RPRboolean On change Semantics The state of the entity's (main) hatch. Datatype Sharing Ownership Order Transportation RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics The state of the entity's (main) hatch. Datatype Sharing Ownership Order Transportation RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change				

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
 Interior Lights On	Update type	Update Cond	lition							
Inherited from Platform in RPR-Physical_v2.0	Conditional On change									
	Semantics									
	Whether the entity's internal lights are on or not.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
LandingLightsOn	Update type	Update type Update Condition								
Inherited from Platform in RPR-Physical_v2.0	Conditional	On change								
	Semantics									
	Whether the entity's landing lights are on or not.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
LauncherRaised	Update type Update Condition									
Inherited from Platform in RPR-Physical_v2.0	Conditional On change									
	Semantics									
	Whether the entity's weapon launcher is in the raised position.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
NavigationLightsOn	Update type	Update Cond	lition							
Inherited from Platform in RPR-Physical_v2.0	Conditional	On change								
	Semantics									
	Whether the entity's navigation lights	are on or n	ot.							
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
RampDeployed	Update type	Update Cond	lition		•					
Inherited from Platform in RPR-Physical_v2.0	Conditional	On change								
	Semantics									
	Whether the entity has deployed a ran	np or not.								
	Themes the entity has deproyed a rump of not.									

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
 RunningLightsOn	Update type	Update Cond	lition		1	,				
Inherited from Platform in RPR-Physical_v2.0	Conditional On change									
, , , , , , , , , , , , , , , , , , ,	Semantics									
	Whether the entity's running lights are on or not.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
 SpotLightsOn	Update type	pdate type Update Condition								
Inherited from Platform in RPR-Physical_v2.0	Conditional	On change								
, , , , , , , , , , , , , , , , , , , ,	Semantics									
	Whether the entity's spotlights are on or not.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
 TailLightsOn	Update type Update Condition									
Inherited from Platform in RPR-Physical_v2.0	Conditional On change									
	Semantics									
	Whether the entity's tail lights are on or not.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	Integer16	PS	DA	RO	HLAbestEffort					
AcousticSignatureIndex	Update type	Update Cond	lition		•					
Inherited from PhysicalEntity in RPR-	Conditional	On change								
Physical_v2.0	Semantics									
	Index used to obtain the acoustics (sound through air) signature state of the entity.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	EntityTypeStruct	PS	DA	RO	HLAbestEffort					
AlternateEntityType	Update type	Update Cond	lition							
Inherited from PhysicalEntity in RPR-	Static	NA								
Physical_v2.0	Semantics									
	The category of entity to be used when	n viewed by	entities on	the 'oppos	rite' side.					
	The edictory of charg to be used when viewed by charles on the opposite state.									

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	ArticulatedParameterStructLengthles sArray	PS	DA	RO	HLAbestEffort					
ArticulatedParametersArray	Update type Update Condition									
Inherited from PhysicalEntity in RPR- Physical_v2.0	Conditional On change									
1.19516111_7215	Semantics									
	Identification of the visible parts, and their states, of the entity which are capable of independent motion.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	CamouflageEnum32	PS	DA	RO	HLAbestEffort					
CamouflageType	Update type	Update Cond	dition		1					
Inherited from PhysicalEntity in RPR-	Conditional	On change	?							
Physical_v2.0	Semantics									
	The type of camouflage in use (if any).									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	DamageStatusEnum32	PS	DA	RO	HLAbestEffort					
DamageState	Update type Update Condition									
Inherited from PhysicalEntity in RPR-	Conditional On change									
Physical_v2.0	Semantics									
	The state of damage of the entity.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
EngineSmokeOn	Update type	Update Cond	dition							
Inherited from PhysicalEntity in RPR-	Conditional	On change	?							
Physical_v2.0	Semantics									
	Whether the entity's engine is generating smoke or not.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
FirePowerDisabled	Update type	Update Cond	dition							
Inherited from PhysicalEntity in RPR-	Conditional	On change	?							
Physical_v2.0	Semantics									
	Whether the entity's main weapon syst	tem has bee	n disabled	or not.						

Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
RPRboolean	PS	DA	RO	HLAbestEffort					
Update type	Update Con	dition			<u> </u>				
Conditional On change									
Semantics	•								
Whether the entity is on fire (with visible flames) or not.									
Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
ForceIdentifierEnum8	PS	DA	RO	HLAbestEffort					
Update type		·							
Conditional	On change	ę							
Semantics									
The identification of the force that the entity belongs to.									
Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
RPRboolean	PS	DA	RO	HLAbestEffort					
Update type Update Condition									
Conditional On change									
Semantics									
Whether the entity has the capability	to supply of	ther entities	with amm	unition.					
Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
RPRboolean	PS	DA	RO	HLAbestEffort					
Update type	Update Con	dition		•	·				
Conditional	On change	2							
Semantics	Semantics								
Whether the entity has the capability	to supply of	ther entities	with fuel	or not.					
Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
RPRboolean	PS	DA	RO	HLAbestEffort					
Update type	Update Con	dition	•						
Conditional	On change	2							
Semantics									
Whether the entity has the capability	to recover o	other entitie.	s or not.						
	RPRboolean Update type Conditional Semantics Whether the entity is on fire (with vis.) Datatype ForceIdentifierEnum8 Update type Conditional Semantics The identification of the force that the Datatype RPRboolean Update type Conditional Semantics Whether the entity has the capability Datatype RPRboolean Update type Conditional Semantics Whether the entity has the capability Datatype RPRboolean Update type Conditional Semantics Whether the entity has the capability Datatype RPRboolean Update type Conditional Semantics Whether the entity has the capability Datatype RPRboolean Update type Conditional Semantics	RPRboolean Update type Update type Update Con Conditional On change Semantics Whether the entity is on fire (with visible flames) Datatype ForceIdentifierEnum8 PS Update type Update Con Conditional On change Semantics The identification of the force that the entity below Datatype RPRboolean PS Update type Update Con Conditional On change Semantics Whether the entity has the capability to supply on Datatype RPRboolean PS Update type Update Con Conditional On change Semantics Whether the entity has the capability to supply on Conditional On change Semantics Whether the entity has the capability to supply on Conditional Semantics Whether the entity has the capability to supply on Conditional Semantics Whether the entity has the capability to supply on Datatype Sharing RPRboolean PS Update type Update Con Conditional On change Semantics Update type Update Con Conditional On change Semantics	RPRboolean PS DA Update type Update Condition Conditional On change Semantics Whether the entity is on fire (with visible flames) or not. Datatype Sharing Ownership ForceIdentifierEnum8 PS DA Update type Update Condition Conditional On change Semantics The identification of the force that the entity belongs to. Datatype Sharing Ownership RPRboolean PS DA Update type Update Condition Conditional On change Semantics Whether the entity has the capability to supply other entities Datatype Sharing Ownership RPRboolean PS DA Update type Update Condition Conditional On change Semantics Whether the entity has the capability to supply other entities Datatype Update Condition Conditional On change Semantics Whether the entity has the capability to supply other entities Datatype Update Condition Conditional On change Semantics Whether the entity has the capability to supply other entities Datatype Sharing Ownership RPRboolean PS DA Update type Update Condition Conditional On change Semantics	RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics Whether the entity is on fire (with visible flames) or not. Datatype Sharing Ownership Order ForceIdentifierEnum8 PS DA RO Update type Update Condition Conditional On change Semantics The identification of the force that the entity belongs to. Datatype Sharing Ownership Order RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics Whether the entity has the capability to supply other entities with amm Datatype Sharing Ownership Order RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics Whether the entity has the capability to supply other entities with amm Datatype Sharing Ownership Order RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics Whether the entity has the capability to supply other entities with fuel of the properties of the force of the properties of th	RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Whether the entity is on fire (with visible flames) or not. Datatype Sharing Ownership Order Transportation ForceldentifierEnum8 PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics The identification of the force that the entity belongs to. Datatype Sharing Ownership Order Transportation RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Whether the entity has the capability to supply other entities with ammunition. Datatype Sharing Ownership Order Transportation RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Whether the entity has the capability to supply other entities with ammunition. Datatype Sharing Ownership Order Transportation RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Whether the entity has the capability to supply other entities with fuel or not. Datatype Sharing Ownership Order Transportation RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Whether the entity has the capability to supply other entities with fuel or not. Datatype Sharing Ownership Order Transportation RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change				

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort	Difficusions				
HasBanainCan				RO	TILAUCSTEITOIT					
HasRepairCap	Update type	Update Cond								
Inherited from PhysicalEntity in RPR- Physical_v2.0	Conditional On change									
	Semantics									
	Whether the entity has the capability to repair other entities or not.									
	Datatype	Sharing	•	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
Immobilized	Update type	Update Cond	dition							
Inherited from PhysicalEntity in RPR-	Conditional	Conditional On change								
Physical_v2.0	Semantics	•								
	Whether the entity is immobilized or not.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	Integer16	PS	DA	RO	HLAbestEffort					
InfraredSignatureIndex	Update type Update Condition									
Inherited from PhysicalEntity in RPR- Physical_v2.0	Conditional	On change								
Fnysicai_v2.0	Semantics									
	Index used to obtain the infra-red sign	nature state	of the entit	y.						
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
IsConcealed	Update type	Update Cond	Condition							
Inherited from PhysicalEntity in RPR-	Conditional	On change	?							
Physical_v2.0	Semantics	•								
	Whether the entity is concealed or not.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	VelocityDecimeterPerSecondInteger 16	PS	DA	RO	HLAbestEffort					
LiveEntityMeasuredSpeed	Update type	Update Cond	dition	•	•					
Inherited from PhysicalEntity in RPR- Physical_v2.0	Conditional	On change	!							
	Semantics									
	The entity's own measurement of spee	ed (e.g. air s	peed for air	rcraft).						
	The entity's own measurement of speed (e.g. air speed for aircraft).									

Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
MarkingStruct	PS	DA	RO	HLAbestEffort					
Update type	Update Cond	lition							
Conditional On change									
Semantics									
A unique marking or combination of characters used to distinguish the entity from other entities.									
Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
RPRboolean	PS	DA	RO	HLAbestEffort					
Update type	Update Cond	lition							
Conditional	On change								
Semantics	•								
Whether the entity's power plant is on or not.									
Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
PropulsionSystemDataStructLengthl essArray	PS	DA	RO	HLAbestEffort					
Update type	Update Cond	lition							
Conditional On change									
Semantics									
The basic operating data of the propulsion systems aboard the entity.									
Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
Integer16	PS	DA	RO	HLAbestEffort					
Update type	Update Cond	dition							
Conditional	On change								
Semantics									
Index used to obtain the radar cross s	ection signa	ature state o	of the entity						
Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
RPRboolean	PS	DA	RO	HLAbestEffort					
Update type	Update Cond	dition							
Conditional	On change								
Semantics									
Whether the entity is generating smok	e or not (in	tentional or	unintentio	nal).					
	MarkingStruct Update type Conditional Semantics A unique marking or combination of or Datatype RPRboolean Update type Conditional Semantics Whether the entity's power plant is on Datatype PropulsionSystemDataStructLengthl essArray Update type Conditional Semantics The basic operating data of the propurational Datatype Integer16 Update type Conditional Semantics Index used to obtain the radar cross son Datatype RPRboolean Update type Conditional Semantics Index used to obtain the radar cross son Datatype RPRboolean Update type Conditional Semantics	MarkingStruct Update type Update Cond Conditional On change Semantics A unique marking or combination of characters to Datatype RPRboolean PS Update type Update Cond Conditional On change Semantics Whether the entity's power plant is on or not. Datatype PropulsionSystemDataStructLengthl essArray Update type Update Cond Conditional On change Semantics The basic operating data of the propulsion system Datatype Sharing Integer16 PS Update type Update Cond Conditional On change Semantics Index used to obtain the radar cross section signe Datatype RPRboolean PS Update type Update Cond Conditional On change Semantics Index used to obtain the radar cross section signe Datatype RPRboolean PS Update type Update Cond Conditional On change Semantics Index used to obtain the radar cross section signe Datatype RPRboolean On change Semantics Update type Update Cond Conditional On change Semantics	MarkingStruct PS DA Update type Update Condition Conditional On change Semantics A unique marking or combination of characters used to distin Datatype Sharing Ownership RPRboolean PS DA Update type Update Condition Conditional On change Semantics Whether the entity's power plant is on or not. Datatype Sharing Ownership PropulsionSystemDataStructLengthl PS DA Update type Update Condition Conditional On change Semantics The basic operating data of the propulsion systems aboard the Datatype Sharing Ownership Integer16 PS DA Update type Update Condition Conditional On change Semantics Index used to obtain the radar cross section signature state of Datatype Sharing Ownership RPRboolean PS DA Update type Update Condition Conditional On change Semantics Index used to obtain the radar cross section signature state of Datatype Sharing Ownership RPRboolean PS DA Update type Update Condition Conditional On change Semantics Index used to obtain the radar cross section signature state of Datatype Sharing Ownership RPRboolean PS DA Update type Update Condition Conditional On change	MarkingStruct PS DA RO Update type Update Condition Conditional On change Semantics A unique marking or combination of characters used to distinguish the organization of characters used to obtain the radar cross section systems of characters used to of the entity. Datatype Update Condition Conditional On characters used to distinguish the organization of characters used to obtain the radar cross section signature state of the entity of characters used to obtain the radar cross section signature state of the entity of characters used to obtain the radar cross section signature state of the entity of characters used to obtain the radar cross section signature state of the entity of characters used to obtain the radar cross section signature state of the entity of characters used to obtain the radar cross section signature state of the entity of characters used to obtain the characters u	MarkingStruct PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics A unique marking or combination of characters used to distinguish the entity from other entities. Datatype Sharing Ownership Order Transportation RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Whether the entity's power plant is on or not. Datatype Sharing Ownership Order Transportation PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Whether the entity's power plant is on or not. Datatype Sharing Ownership Order Transportation PropulsionSystemDataStructLengthl PS DA RO HLAbestEffort Conditional On change Semantics The basic operating data of the propulsion systems aboard the entity. Datatype Sharing Ownership Order Transportation Integer16 PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Index used to obtain the radar cross section signature state of the entity. Datatype Sharing Ownership Order Transportation HLAbestEffort Update type Update Condition Conditional On change Semantics Index used to obtain the radar cross section signature state of the entity. Datatype Sharing Ownership Order Transportation RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change				

RPRboolean PS DA RO HLAbestEffort		Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
Conditional On change		RPRboolean	PS	DA	RO	HLAbestEffort						
Semantics Whether the entity has deployed tent or not. TrailingEffectsCode Datatype Sharing Ownership Order Transportation Dimensions	TentDeployed	Update type	pdate type Update Condition									
Semantics Whether the entity has deployed tent or not.		Conditional On change										
TrailingEffectsCode Inherited from PhysicalEntity in RPR- Physical_v2.0 Datatype Update type Update Condition Conditional On change Semantics The type and size of any trail that the entity is making. Datatype VectoringNozzleSystemData Inherited from PhysicalEntity in RPR- Physical_v2.0 Datatype Update type Update Condition Dimensions Conditional On change VectoringNozzleSystemData Inherited from PhysicalEntity in RPR- Physical_v2.0 Datatype Update type Update Condition Update type Update Condition On change Semantics The basic operational data for the vectoring nozzle systems aboard the entity. Datatype Sharing Ownership Order Transportation Dimensions Dimensions Order Transportation Dimensions Dimensions Dimensions Dimensions Dimensions Dimensions On change Semantics The basic operational data for the vectoring nozzle systems aboard the entity. Datatype Sharing Ownership Ownership Order Transportation Dimensions Dimensions	Physicai_v2.0	Semantics										
TrailingEffectsCode Inherited from PhysicalEntity in RPR- Physical_v2.0 TrailingEffectsCode Inherited from PhysicalEntity in RPR- Physical_v2.0 The type and size of any trail that the entity is making. Datatype Sharing VectoringNozzleSystemData Inherited from PhysicalEntity in RPR- Physical_v2.0 Datatype VectoringNozzleSystemData Inherited from PhysicalEntity in RPR- Physical_v2.0 Datatype Update type Update Condition Conditional On change Semantics The basic operational data for the vectoring nozzle systems aboard the entity. Datatype Sharing Ownership Ownership Order Transportation Dimensions Conditional On change Semantics The basic operational data for the vectoring nozzle systems aboard the entity. EntityType Inherited from BaseEntity in RPR-Base_v2.0 Static NA		Whether the entity has deployed tent or not.										
TrailingEffectsCode Inherited from Physical_v2.0 Inherited from Physical_v2.0 Conditional On change Semantics The type and size of any trail that the entity is making. VectoringNozzleSystemData Inherited from PhysicalEntity in RPR- Physical_v2.0 VectoringNozzleSystemData Inherited from PhysicalEntity in RPR- Physical_v2.0 EntityType Inherited from BaseEntity in RPR-Base_v2.0		Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
Inherited from Physical Entity in RPR- Physical_v2.0 Conditional On change Semantics The type and size of any trail that the entity is making. Datatype VectoringNozzleSystemData Inherited from PhysicalEntity in RPR- Physical_v2.0 Datatype Update type Update Condition On change Semantics The basic operational data for the vectoring nozzle systems aboard the entity. EntityType Inherited from BaseEntity in RPR-Base_v2.0 Conditional On change Sharing Ownership Order Transportation Dimensions Static NA		TrailingEffectsCodeEnum32	PS	DA	RO	HLAbestEffort						
Semantics The type and size of any trail that the entity is making.	TrailingEffectsCode	Update type	Update Con									
Semantics The type and size of any trail that the entity is making.	Inherited from PhysicalEntity in RPR-	Conditional	On change									
VectoringNozzleSystemData Inherited from PhysicalEntity in RPR- Physical_v2.0 Datatype Update type Update Condition Conditional On change Semantics The basic operational data for the vectoring nozzle systems aboard the entity. Datatype EntityType Inherited from BaseEntity in RPR-Base_v2.0 Datatype Update Condition Update Sharing Ownership Order Transportation Dimensions Dimensions Update Sharing Ownership Order Transportation Update Sharing Ownership Order Update Condition Update Condition Update Condition Static	Physical_v2.0	Semantics	•									
VectoringNozzleSystemData Inherited from PhysicalEntity in RPR- Physical_v2.0 Conditional Conditional Datatype EntityType Inherited from BaseEntity in RPR-Base_v2.0 VectoringNozzleSystemDataStructL PS DA RO HLAbestEffort Update Condition Condition On change Semantics The basic operational data for the vectoring nozzle systems aboard the entity. Datatype EntityTypeStruct PS DA RO HLAbestEffort Dimensions Dimensions Dimensions Dimensions Dimensions Static NA		The type and size of any trail that the entity is making.										
VectoringNozzleSystemData Inherited from PhysicalEntity in RPR- Physical_v2.0 Conditional Semantics The basic operational data for the vectoring nozzle systems aboard the entity. Datatype EntityType Inherited from BaseEntity in RPR-Base_v2.0 engthlessArray Update type Update Condition Update Transportation PS DA RO HLAbestEffort Update type Static NA		Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
Inherited from PhysicalEntity in RPR- Physical_v2.0 Conditional On change Semantics The basic operational data for the vectoring nozzle systems aboard the entity. Datatype EntityType Inherited from BaseEntity in RPR-Base_v2.0 Inherited from BaseEntity in RPR-Base_v2.0 Semantics The basic operational data for the vectoring nozzle systems aboard the entity. Datatype EntityTypeStruct PS DA RO HLAbestEffort Update type Update Condition Static NA		VectoringNozzleSystemDataStructL engthlessArray	PS	DA	RO	HLAbestEffort						
Physical_v2.0 Semantics The basic operational data for the vectoring nozzle systems aboard the entity. Datatype EntityType Inherited from BaseEntity in RPR-Base_v2.0 Semantics The basic operational data for the vectoring nozzle systems aboard the entity. Datatype Sharing Ownership Order Transportation Dimensions EntityType Update type Update Condition Static NA	,	Update type Update Condition										
The basic operational data for the vectoring nozzle systems aboard the entity. Datatype	Inherited from PhysicalEntity in RPR- Physical_v2.0	Conditional On change										
EntityType Inherited from BaseEntity in RPR-Base_v2.0 Datatype Sharing Ownership Order Transportation Dimensions PS DA RO HLAbestEffort Update Condition Static NA		Semantics										
EntityTypeStruct PS DA RO HLAbestEffort Update type Update Condition Inherited from BaseEntity in RPR-Base_v2.0 Static NA		The basic operational data for the vectoring nozzle systems aboard the entity.										
EntityType Update type Update Condition Inherited from BaseEntity in RPR-Base_v2.0 Static NA		Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
Inherited from BaseEntity in RPR-Base_v2.0 Static NA		EntityTypeStruct	PS	DA	RO	HLAbestEffort						
Inherited from BaseEntity in RPR-Base_v2.0 Static NA	EntityType	Update type	Update Con	dition								
		Static	NA									
1		Semantics										
The category of the entity.		The category of the entity.										
Datatype Sharing Ownership Order Transportation Dimensions		Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
EntityIdentifierStruct PS DA RO HLAbestEffort		EntityIdentifierStruct	PS	DA	RO	HLAbestEffort						
EntityIdentifier Update type Update Condition	EntityIdentifier	Update type	Update Con	dition								
Inherited from BaseEntity in RPR-Base_v2.0 Static NA		Static	NA									
Semantics		Semantics										
The unique identifier for the entity instance.		The unique identifier for the entity ins	stance.									

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	IsPartOfStruct	PS	DA	RO	HLAbestEffort					
	Update type	Update Condition								
IsPartOf	Conditional On change									
Inherited from BaseEntity in RPR-Base_v2.0	Semantics									
	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 HostEntityIdentifier 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.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	SpatialVariantStruct	PS	DA	RO	HLAbestEffort					
Spatial Spatial	Update type Update Condition									
Inherited from BaseEntity in RPR-Base_v2.0	Conditional	On change	RPRnoteBase10) RPRnoteBase	1 RPRnoteBase12 RPRnoteBase13 RPRn	oteBase14				
	Semantics									
	Spatial state stored in one variant rec	ord attribut	·e.							
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	SpatialVariantStruct	PS	DA	RO	HLAbestEffort					
RelativeSpatial	Update type	Update Cond	dition							
Inherited from BaseEntity in RPR-Base v2.0	Conditional On change RPRnoteBase10 RPRnoteBase11 RPRnoteBase13 RPRnoteBase14									
	Semantics									
	Relative spatial state stored in one variant record attribute.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	HLAtoken	PS	DA	TS	HLAreliable					
HLAprivilegeToDeleteObject	Update type	Update Cond	Update Condition							
Inherited from HLAobjectRoot in MIM	Static	NA								
	Semantics	•								

9.1.6. CBRN_AmphibiousVehicle

Full Name: HLAobjectRoot.BaseEntity.PhysicalEntity.Platform.AmphibiousVehicle.NETN_AmphibiousVehicle.CBRN_AmphibiousVehicle

Publish/Subscribe Sharing:

Semantics: Extension of NETN_AmphibiousVehicle to provide CBRN modelling.

Attributes:

	Datatype	Sharing	Sharing Ownership Order Transportation Dimensions						
	ArrayOfAgentMassStruct	PS	S DA RO HLAbestEffort						
	Update type	Update Cond	lition		1				
Contamination	Conditional	On change	On change						
	Semantics								
	CBRN hazardous agent inside vehicle	e due to embedded units.							
	Datatype	Sharing Ownership Order Transportation Dimensions							
	HLAunicodeString	PS RO HLAbestEffort							
Callsign	Update type	Update Condition							
Inherited from NETN_AmphibiousVehicle in	Static	N/A	N/A						
NETN-Physical_v1.1.2	Semantics	ics							
	The name of the object.								
	Datatype	Sharing Ownership Order Transportation Dimensions							
	ActiveStatusEnum8	PS	DA	RO	HLAbestEffort				
Status	Update type	Update Cond	lition						
Inherited from NETN_AmphibiousVehicle in	Conditional	On change							
NETN-Physical_v1.1.2	Semantics	mantics							
	If an instance shall be taken into acco	ount by feder	rates						
	Datatype	Sharing Ownership Order Transportation Dimensions							
	AggregateMissionEnum16	PS	DA	RO	HLAbestEffort				
Activity	Update type	Update Cond	lition						
Inherited from NETN_AmphibiousVehicle in NETN-Physical_v1.1.2	Conditional	On change							
	Semantics								
	The activity of the object.								

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	ArrayOfUuid	PS	DA	RO	HLAbestEffort					
EmbeddedUnitList	Update type	Update Condition								
Inherited from NETN_AmphibiousVehicle in	Conditional On change									
NETN-Physical_v1.1.2	Semantics									
	List of unique IDs of on-board elemen	ts								
	Datatype	Sharing Ownership Order Transportation Dimensions								
	<u>UuidArrayOfHLAbyte16</u>	PS		RO	HLAbestEffort					
	Update type	Update Cond	dition							
UniqueID	Static	NA NA								
Inherited from NETN_AmphibiousVehicle in NETN-Physical_v1.1.2	Semantics	1								
	The unique identifier of the object. Required value. If not assigned by the ORBAT specific attribute value.	lue. ed by the ORBAT specification or similar, shall a value be assigned, either randomized or generated from the Marking or EntityI								
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
AfterburnerOn	Update type	Update Cond	dition							
Inherited from Platform in RPR-Physical_v2.0	Conditional	On change	?							
, , , , , , , , , , , , , , , , , , , ,	Semantics									
	Whether the entity's afterburner is on	or not.								
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
				D.O.	HLAbestEffort					
	RPRboolean	PS	DA	RO	ILAUESTEITOIT					
AntiCollisionLightsOn	RPRboolean Update type	PS Update Cond		RO	HLAUESTEHOIT					
AntiCollisionLightsOn Inherited from Platform in RPR-Physical_v2.6	Update type		dition	RO	HLAUESTEHOIT					
	Update type	Update Con	dition	RO	HLAUESTEHOIT					

Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
RPRboolean	PS	DA	RO	HLAbestEffort						
Update type	Update Cond	lition	•							
Conditional On change										
Semantics										
Whether the entity's black out brake lights are on or not.										
Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
RPRboolean	PS	DA	RO	HLAbestEffort						
Update type Update Condition										
Conditional	On change									
Whether the entity's black out lights are on or not.										
Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
RPRboolean	PS	DA	RO	HLAbestEffort						
Update type Update Condition										
Conditional On change										
Semantics										
Whether the entity's brake lights are on or not.										
Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
RPRboolean	PS	DA	RO	HLAbestEffort						
Update type	Update Cond	lition								
Conditional	On change									
Semantics	•									
Whether the entity's formation lights of	ire on or no	ot.								
Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
HatchStateEnum32	PS	DA	RO	HLAbestEffort						
Update type	Update Cond	lition								
Conditional	On change									
Semantics										
The state of the entity's (main) hatch.										
	RPRboolean Update type Conditional Semantics Whether the entity's black out brake in Datatype RPRboolean Update type Conditional Semantics Whether the entity's black out lights at Datatype RPRboolean Update type Conditional Semantics Whether the entity's brake lights are of Datatype RPRboolean Update type Conditional Semantics Whether the entity's brake lights are of Datatype RPRboolean Update type Conditional Semantics Whether the entity's formation lights of Datatype HatchStateEnum32 Update type Conditional Semantics Conditional Semantics Conditional Semantics Conditional Semantics Conditional Semantics	RPRboolean PS Update type Update Conditional On change Semantics Whether the entity's black out brake lights are on Datatype Sharing RPRboolean PS Update type Update Conditional On change Semantics Whether the entity's black out lights are on or not Datatype Sharing RPRboolean PS Update type Update Conditional On change Semantics Whether the entity's black out lights are on or not On change Semantics Whether the entity's brake lights are on or not. Datatype Sharing RPRboolean PS Update type Update Conditional On change Semantics Whether the entity's brake lights are on or not. Datatype Sharing RPRboolean PS Update type Update Conditional On change Semantics Whether the entity's formation lights are on or not Datatype Sharing HatchStateEnum32 PS Update type Update Conditional On change Semantics Conditional On change Semantics	RPRboolean PS DA Update type Update Condition Conditional On change Semantics Whether the entity's black out brake lights are on or not. Datatype Sharing Ownership RPRboolean PS DA Update type Update Condition Conditional On change Semantics Whether the entity's black out lights are on or not. Datatype Sharing Ownership RPRboolean PS DA Update type Update Condition Conditional On change Semantics Whether the entity's brake lights are on or not. Datatype Sharing Ownership RPRboolean PS DA Update type Update Condition Conditional On change Semantics Whether the entity's brake lights are on or not. Datatype Sharing Ownership RPRboolean PS DA Update type Update Condition Conditional On change Semantics Whether the entity's formation lights are on or not. Datatype Sharing Ownership HatchStateEnum32 PS DA Update type Update Condition Conditional On change Sharing Ownership HatchStateEnum32 PS DA	RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics Whether the entity's black out brake lights are on or not. Datatype Sharing Ownership Order RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics Whether the entity's black out lights are on or not. Datatype Sharing Ownership Order RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics Whether the entity's black out lights are on or not. Datatype Sharing Ownership Order RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics Whether the entity's brake lights are on or not. Datatype Sharing Ownership Order RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics Whether the entity's formation lights are on or not. Datatype Sharing Ownership Order RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics Whether the entity's formation lights are on or not. Datatype Sharing Ownership Order HatchStateEnum32 PS DA RO Update type Update Condition Conditional On change	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. Datatype Sharing Ownership Order Transportation RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Whether the entity's black out lights are on or not. Datatype Sharing Ownership Order Transportation RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Whether the entity's black out lights are on or not. Datatype Sharing Ownership Order Transportation RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Whether the entity's brake lights are on or not. Datatype Sharing Ownership Order Transportation RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Whether the entity's formation lights are on or not. Datatype Sharing Ownership Order Transportation RPR Ownership Order Transportation HLAbestEffort Update type Update Condition Conditional On change Semantics Whether the entity's formation lights are on or not. Datatype Sharing Ownership Order Transportation HatchStateEnum32 PS DA RO HLAbestEffort Update type Update Condition Conditional On change					

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	RPRboolean	PS	DA	RO	HLAbestEffort						
 HeadLightsOn	Update type	Update Cond	lition								
Inherited from Platform in RPR-Physical_v2.0	Conditional	On change									
	Semantics										
	Whether the entity's headlights are on or not.										
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	RPRboolean	PS	DA	RO	HLAbestEffort						
 InteriorLightsOn	Update type Update Condition										
Inherited from Platform in RPR-Physical_v2.0	Conditional	On change									
	Semantics										
	Whether the entity's internal lights are on or not.										
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	RPRboolean	PS	DA	RO	HLAbestEffort						
	Update type Update Condition										
Inherited from Platform in RPR-Physical_v2.0	Conditional On change										
	Semantics										
	Whether the entity's landing lights are on or not.										
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	RPRboolean	PS	DA	RO	HLAbestEffort						
LauncherRaised	Update type	Update Cond	lition	•	•						
Inherited from Platform in RPR-Physical_v2.0	Conditional	On change									
	Semantics										
	Whether the entity's weapon launcher	is in the ra	ised positio	n.							
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	RPRboolean	PS	DA	RO	HLAbestEffort						
NavigationLightsOn	Update type	Update Cond	lition		•	·					
Inherited from Platform in RPR-Physical_v2.0	Conditional	On change									
	Semantics										
	Whether the entity's navigation lights	are on or n	ot.								
	Thener me charge narregulon ugus are on or non										

Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
RPRboolean	PS	DA	RO	HLAbestEffort						
Update type	Update Cond	lition								
Conditional	On change									
Semantics										
Whether the entity has deployed a ramp or not.										
Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
RPRboolean	PS	DA	RO	HLAbestEffort						
Update type Update Condition										
Conditional	On change									
Semantics										
Whether the entity's running lights are on or not.										
Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
RPRboolean	PS	DA	RO	HLAbestEffort						
Update type Update Condition										
Conditional On change										
Semantics										
Whether the entity's spotlights are on	or not.									
Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
RPRboolean	PS	DA	RO	HLAbestEffort						
Update type	Update Cond	lition								
Conditional	On change									
Semantics										
Whether the entity's tail lights are on a	or not.									
Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
Integer16	PS	DA	RO	HLAbestEffort						
Update type	Update Cond	lition								
Conditional	On change									
Semantics										
Index used to obtain the acoustics (so	und through	air) signat	ture state d	of the entity.						
	Update type Conditional Semantics Whether the entity has deployed a ran Datatype RPRboolean Update type Conditional Semantics Whether the entity's running lights are Datatype RPRboolean Update type Conditional Semantics Whether the entity's spotlights are on Datatype RPRboolean Update type Conditional Semantics Whether the entity's spotlights are on Datatype RPRboolean Update type Conditional Semantics Whether the entity's tail lights are on on Datatype Integer 16 Update type Conditional Semantics Conditional Semantics Semantics	RPRboolean PS Update type Update Conditional On change Semantics Whether the entity has deployed a ramp or not. Datatype Sharing RPRboolean PS Update type Update Conditional On change Semantics Whether the entity's running lights are on or not. Datatype Sharing RPRboolean PS Update type Update Conditional On change Semantics Whether the entity's running lights are on or not. Datatype Sharing RPRboolean PS Update type Update Conditional On change Semantics Whether the entity's spotlights are on or not. Datatype Sharing RPRboolean PS Update type Update Conditional On change Semantics Whether the entity's tail lights are on or not. Datatype Sharing Integer16 PS Update type Update Conditional On change Conditional On change Semantics Update type Update Conditional On change Conditional On change	RPRboolean PS DA Update type Update Condition Conditional On change Semantics Whether the entity has deployed a ramp or not. Datatype Sharing Ownership RPRboolean PS DA Update type Update Condition Conditional On change Semantics Whether the entity's running lights are on or not. Datatype Sharing Ownership RPRboolean PS DA Update type Update Condition Conditional On change Semantics Whether the entity's spotlights are on or not. Datatype Sharing Ownership RPRboolean PS DA Update type Update Condition Conditional On change Semantics Whether the entity's spotlights are on or not. Datatype Sharing Ownership RPRboolean PS DA Update type Update Condition Conditional On change Semantics Whether the entity's tail lights are on or not. Datatype Sharing Ownership Integer16 PS DA Update Conditional On change Semantics	RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics Whether the entity has deployed a ramp or not. Datatype Sharing Ownership Order RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics Whether the entity's running lights are on or not. Datatype Sharing Ownership Order RPRboolean PS DA RO Update type Update Condition Conditional PS DA RO Update type Update Condition Conditional On change Semantics Whether the entity's rype Update Condition Conditional On change Semantics Whether the entity's spotlights are on or not. Datatype Sharing Ownership Order RPRboolean PS DA RO Update type Update Condition Conditional PS DA RO Update type Update Condition Conditional On change Semantics Whether the entity's stail lights are on or not. Datatype Sharing Ownership Order RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics Whether the entity's tail lights are on or not. Datatype Sharing Ownership Order Integer 16 PS DA RO Update type Update Condition Conditional On change Semantics	RPRboolean PS DA RO HLAbestEffort Update type Update Condition Update Conditional Conditional On change Semantics Whether the entity has deployed a ramp or not. Datatype Sharing Ownership Order Transportation RPRboolean PS DA RO HLAbestEffort Update type Update Condition Update Conditional Semantics Sharing Ownership Order Transportation RPRboolean PS DA RO HLAbestEffort Update type Update Condition HLAbestEffort Update Condition Conditional On change Semantics Whether the entity's spotlights are on or not. Datatype Sharing Ownership Order Transportation RPRboolean PS DA RO HLAbestEffort Update type Update Condition Transportation Podate Condition Conditional On change <td< td=""></td<>					

Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
EntityTypeStruct	PS	DA	RO	HLAbestEffort						
Update type	Update Cond	lition								
Static	NA NA									
Semantics										
The category of entity to be used when viewed by entities on the 'opposite' side.										
Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
ArticulatedParameterStructLengthles sArray	PS	DA	RO	HLAbestEffort						
Update type	Update Condition									
Conditional	itional On change									
Semantics										
Identification of the visible parts, and	their states	, of the enti	ty which a	re capable of independent mot	ion.					
Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
CamouflageEnum32	PS	DA	RO	HLAbestEffort						
Update type Update Condition										
Conditional On change										
Semantics										
The type of camouflage in use (if any)										
Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
DamageStatusEnum32	PS	DA	RO	HLAbestEffort						
Update type	Update Cond	dition								
Conditional	On change									
Semantics										
The state of damage of the entity.										
Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
RPRboolean	PS	DA	RO	HLAbestEffort						
Update type	Update Condition									
Conditional	On change									
Physical_v2.0 Semantics										
Whether the entity's engine is generat	ing smoke d	or not.								
	EntityTypeStruct Update type Static Semantics The category of entity to be used when Datatype ArticulatedParameterStructLengthles sArray Update type Conditional Semantics Identification of the visible parts, and Datatype CamouflageEnum32 Update type Conditional Semantics The type of camouflage in use (if any) Datatype DamageStatusEnum32 Update type Conditional Semantics The state of damage of the entity. Datatype RPRboolean Update type Conditional Semantics The state of damage of the entity. Datatype RPRboolean Update type Conditional Semantics	EntityTypeStruct Update type Update Come Static NA Semantics The category of entity to be used when viewed by Datatype ArticulatedParameterStructLengthles sArray Update type Conditional On change Semantics Identification of the visible parts, and their states Identification of the visible parts, and their states Datatype CamouflageEnum32 PS Update type Update Conditional On change Semantics The type of camouflage in use (if any). Datatype Conditional Datatype Sharing DamageStatusEnum32 PS Update type Update Conditional On change Semantics The state of damage of the entity. Datatype RPRboolean PS Update Conditional On change Semantics The state of damage of the entity. Datatype Conditional On change Sharing RPRboolean PS Update Conditional On change Conditional On change	EntityTypeStruct PS DA Update type Update Condition Static NA Semantics The category of entity to be used when viewed by entities on Datatype Sharing Ownership ArticulatedParameterStructLengthles sArray Update type Update Condition Conditional On change Semantics Identification of the visible parts, and their states, of the entity Datatype Sharing Ownership CamouflageEnum32 PS DA Update type Update Condition Conditional On change Semantics The type of camouflage in use (if any). Datatype Sharing Ownership DamageStatusEnum32 PS DA Update type Update Condition Conditional On change Semantics The type of camouflage in use (if any). Datatype Sharing Ownership DamageStatusEnum32 PS DA Update type Update Condition Conditional On change Semantics The state of damage of the entity. Datatype Sharing Ownership RPRboolean PS DA Update Condition Conditional On change	EntityTypeStruct PS DA RO Update type Update Condition Static NA Semantics The category of entity to be used when viewed by entities on the 'oppos' Datatype Sharing Ownership Order ArticulatedParameterStructLengthles PS DA RO Update type Update Condition Conditional On change Semantics Identification of the visible parts, and their states, of the entity which a Datatype Sharing Ownership Order CamouflageEnum32 PS DA RO Update type Update Condition Conditional On change Semantics The type of camouflage in use (if any). Datatype DamageStatusEnum32 PS DA RO Update type Update Condition Conditional On change Semantics The state of damage of the entity. Datatype Sharing Ownership Order Conditional On change Semantics The state of damage of the entity. Datatype Sharing Ownership Order RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics The state of damage of the entity. Datatype Sharing Ownership Order RPRboolean PS DA RO Update type Update Condition Conditional On change	EntityTypeStruct PS DA RO HLAbestEffort Update type Update Condition Static NA Semantics The category of entity to be used when viewed by entities on the 'opposite' side. Datatype Sharing Ownership Order Transportation ArticulatedParameterStructLengthles SArray Update type Update Condition Conditional On change Semantics Identification of the visible parts, and their states, of the entity which are capable of independent moto Datatype Sharing Ownership Order Transportation CamouflageEnum32 PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics The type of camouflage in use (if any). Datatype Sharing Ownership Order Transportation Datatype Update type Update Condition Conditional On change Semantics The type of camouflage in use (if any). Datatype Sharing Ownership Order Transportation Datatype Update Condition Conditional On change Semantics The state of damage of the entity. Datatype Sharing Ownership Order Transportation PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics The state of damage of the entity. Datatype Sharing Ownership Order Transportation PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics The state of damage of the entity. Datatype Sharing Ownership Order Transportation PS DA RO HLAbestEffort Update type Update Condition Conditional On change					

	Detetune Showing Ownership Orden Transportation Dimensions									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
FirePowerDisabled	Update type	Update Con	dition							
Inherited from PhysicalEntity in RPR- Physical v2.0	Conditional	On change	2							
Thysical_v2.0	Semantics									
	Whether the entity's main weapon system has been disabled or not.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
FlamesPresent	Update type	Update Condition								
Inherited from PhysicalEntity in RPR-	Conditional	On change	2							
Physical_v2.0	Semantics									
	Whether the entity is on fire (with vis	Whether the entity is on fire (with visible flames) or not.								
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	ForceIdentifierEnum8	PS DA RO HLAbestEffort								
ForceIdentifier	Update type	Update Con	dition							
Inherited from PhysicalEntity in RPR- Physical_v2.0	Conditional On change									
T hysical_v2.0	Semantics									
	The identification of the force that the	e entity belo	ongs to.							
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
HasAmmunitionSupplyCap	Update type	Update Con	dition		•					
Inherited from PhysicalEntity in RPR-	Conditional	On change	ę							
Physical_v2.0	Semantics									
	Whether the entity has the capability	to supply of	ther entities	with amm	unition.					
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
HasFuelSupplyCap	Update type	Update Condition								
Inherited from PhysicalEntity in RPR-	Conditional	On change	2							
Physical_v2.0	Semantics									
	Whether the entity has the capability	to supply of	ther entities	with fuel o	or not.					
	Themes are carry to supply offer changes frame fact of from									

RPRboolean PS DA RO HLAbestEffort		Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
Description Physical Entity in RPR Semantics Whether the entity has the capability to recover other entities or not.		RPRboolean	PS	DA	RO	HLAbestEffort						
Semantics Whether the entity has the capability to recover other entities or not.	HasRecoveryCap	Update type	Update Con	dition								
Semantics Whether the entity has the capability to recover other entities or not.	Inherited from PhysicalEntity in RPR-	Conditional On change										
Datatype Sharing Ownership Order Transportation Dimensions	Physical_vz.0	Semantics										
RPRoolean PS DA RO HLAbestEffort Inherited from PhysicalEntity in RPR-Physical from Physical from Physic		Whether the entity has the capability to recover other entities or not.										
HasRepairCap Update type Update Condition On change		Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
Conditional Concisional		RPRboolean	PS	DA	RO	HLAbestEffort						
Physical_v2.0 Semantics	HasRepairCap	Update type	Update Con	dition	1							
Semantics Whether the entity has the capability to repair other entities or not.		Conditional	On change	?								
Datatype Sharing Ownership Order Transportation Dimensions	Physical_v2.0	Semantics	Semantics									
RPRboolean PS DA RO HLAbestEffort		Whether the entity has the capability to repair other entities or not.										
Immobilized Update type Update Condition		Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
Inherited from Physical_v2.0 Conditional On change Semantics Whether the entity is immobilized or not. InfraredSignatureIndex Inherited from PhysicalEntity in RPR- Physical_v2.0 Integer 16 PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Index used to obtain the infra-red signature state of the entity. Is Concealed Inherited from PhysicalEntity in RPR- Physical_v2.0 Conditional On change Semantics Index used to obtain the infra-red signature state of the entity. Is Concealed Inherited from PhysicalEntity in RPR- Physical_v2.0 Conditional On change		RPRboolean	PS	DA	RO	HLAbestEffort						
Semantics Whether the entity is immobilized or not.	Immobilized	Update type	Update Con	dition	•	•						
Semantics Whether the entity is immobilized or not.		Conditional On change										
Datatype Sharing Ownership Order Transportation Dimensions	Frystcat_v2.0	Semantics										
InferredSignatureIndex Inherited from PhysicalEntity in RPR- Physical_v2.0 Inherited from PhysicalEntity in RPR- Physical_v2.0 Index used to obtain the infra-red signature state of the entity. Index used to obtain the infra-red signature state of the entity. Index used to obtain the infra-red signature state of the entity. Index used to obtain the infra-red signature state of the entity. Index used to obtain the infra-red signature state of the entity. Index used to obtain the infra-red signature state of the entity. Index used to obtain the infra-red signature state of the entity. Index used to obtain the infra-red signature state of the entity. Index used to obtain the infra-red signature state of the entity. Index used to obtain the infra-red signature state of the entity. Index used to obtain the infra-red signature state of the entity. Index used to obtain the infra-red signature state of the entity. Index used to obtain the infra-red signature state of the entity. Index used to obtain the infra-red signature state of the entity. Index used to obtain the infra-red signature state of the entity. Index used to obtain the infra-red signature state of the entity. Index used to obtain the infra-red signature state of the entity. Index used to obtain the infra-red signature state of the entity. Index used to obtain the infra-red signature state of the entity. Index used to obtain the infra-red signature state of the entity. Index used to obtain the infra-red signature state of the entity.		Whether the entity is immobilized or i	ıot.									
InfraredSignatureIndex Inherited from PhysicalEntity in RPR- Physical_v2.0 Conditional On change Semantics Index used to obtain the infra-red signature state of the entity. Datatype RPRboolean PS DA RO HLAbestEffort IsConcealed Inherited from PhysicalEntity in RPR- Physical_v2.0 Conditional On change Update type Update Condition On change Conditional On change		Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
Inherited from PhysicalEntity in RPR- Physical_v2.0 Conditional On change Index used to obtain the infra-red signature state of the entity. Datatype RPR boolean PS DA RO HLAbestEffort Inherited from PhysicalEntity in RPR- Physical_v2.0 Conditional On change		Integer16	PS	DA	RO	HLAbestEffort						
Physical_v2.0 Semantics Index used to obtain the infra-red signature state of the entity. Datatype RPRboolean RPRboolean RPS DA RO HLAbestEffort Inherited from PhysicalEntity in RPR-Physical_v2.0 Conditional On change	InfraredSignatureIndex	Update type	Update Con	dition								
Semantics Index used to obtain the infra-red signature state of the entity.		Conditional	On change	?								
Datatype Sharing Ownership Order Transportation Dimensions	Physical_v2.0	Semantics	•									
RPRboolean PS DA RO HLAbestEffort IsConcealed Update type Update Condition Inherited from PhysicalEntity in RPR- Physical_v2.0 Conditional On change		Index used to obtain the infra-red sign	nature state	of the entit	y.							
IsConcealed Update type Update Condition Inherited from PhysicalEntity in RPR- Physical_v2.0 Conditional On change		Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
Inherited from PhysicalEntity in RPR- Physical_v2.0 Conditional On change		RPRboolean	PS	DA	RO	HLAbestEffort						
Physical_v2.0	IsConcealed	Update type	Update Con	dition								
Frysical_v2.0		Conditional	On change	?								
	F Hysicai_v2.0	Semantics										
Whether the entity is concealed or not.		Whether the entity is concealed or no	t.									

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	VelocityDecimeterPerSecondInteger 16	PS	DA	RO	HLAbestEffort						
LiveEntityMeasuredSpeed	Update type	te type Update Condition									
Inherited from PhysicalEntity in RPR- Physical_v2.0	Conditional On change										
, _	Semantics										
	The entity's own measurement of speed (e.g. air speed for aircraft).										
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	MarkingStruct	PS	DA	RO	HLAbestEffort						
Marking	Update type	Update type Update Condition									
Inherited from PhysicalEntity in RPR-	Conditional	On change									
Physical_v2.0	Semantics										
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	RPRboolean	PS	DA	RO	HLAbestEffort						
PowerPlantOn	Update type Update Condition										
Inherited from PhysicalEntity in RPR- Physical v2.0	Conditional On change										
Fnystcat_v2.0	Semantics										
	Whether the entity's power plant is on	or not.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	PropulsionSystemDataStructLengthl essArray	PS	DA	RO	HLAbestEffort						
PropulsionSystemsData	Update type	Update Cond	lition								
Inherited from PhysicalEntity in RPR- Physical_v2.0	Conditional	On change									
	Semantics										
	The basic operating data of the propu	lsion systen	ns aboard ti	he entity.							
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	Integer16	PS	DA	RO	HLAbestEffort						
RadarCrossSectionSignatureIndex	Update type	Update Condition									
Inherited from PhysicalEntity in RPR-	Conditional	On change	<u>. </u>								
Physical_v2.0	Semantics										
	Index used to obtain the radar cross s	ection signa	ature state o	of the $$	······································						

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	RPRboolean	PS	DA	RO	HLAbestEffort						
SmokePlumePresent	Update type	Update Cond	dition								
Inherited from PhysicalEntity in RPR-	Conditional On change										
Physical_v2.0	Semantics										
	Whether the entity is generating smoke or not (intentional or unintentional).										
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	RPRboolean	PS	DA	RO	HLAbestEffort						
TentDeployed	Update type	Update Cond	dition		•						
Inherited from PhysicalEntity in RPR- Physical_v2.0	n PhysicalEntity in RPR- Conditional On change										
Frystcat_v2.0	Semantics										
	Whether the entity has deployed tent or not.										
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
TrailingEffectsCode Inherited from PhysicalEntity in RPR-	TrailingEffectsCodeEnum32	PS	DA	RO	HLAbestEffort						
	Update type Update Condition										
	Conditional On change										
Physical_v2.0	Semantics										
	The type and size of any trail that the entity is making.										
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	VectoringNozzleSystemDataStructL engthlessArray	PS	DA	RO	HLAbestEffort						
VectoringNozzleSystemData	Update type	Update Cond	dition	•	•	•					
Inherited from PhysicalEntity in RPR- Physical_v2.0	Conditional	On change	?								
J	Semantics										
	The basic operational data for the vec	ctoring nozz	le systems d	aboard the	e entity.						
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	EntityTypeStruct	PS	DA	RO	HLAbestEffort						
 EntityType	Update type	Update Cond	dition	•		·					
Inherited from BaseEntity in RPR-Base_v2.0	Static	NA									
	Semantics	1									
	The category of the entity.										
	The emegory of the entity.										

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	EntityIdentifierStruct	PS	DA	RO	HLAbestEffort					
 EntityIdentifier	Update type	Update Con	dition	•	1					
Inherited from BaseEntity in RPR-Base_v2.0	Static NA									
	Semantics									
	The unique identifier for the entity ins	stance.								
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	IsPartOfStruct	PS	DA	RO	HLAbestEffort					
	Update type Update Condition									
IsPartOf	Conditional	Conditional On change								
Inherited from BaseEntity in RPR-Base_v2.0	Semantics									
	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 HostEntityIdentifier 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.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	SpatialVariantStruct	PS	DA	RO	HLAbestEffort					
Spatial	Update type	Update Con	dition							
Inherited from BaseEntity in RPR-Base_v2.0	Conditional	On change	RPRnoteBase10	0 RPRnoteBase	11 RPRnoteBase12 RPRnoteBase13 RPRn	oteBase14				
	Semantics	•								
	Spatial state stored in one variant red	ord attribu	te.							
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	SpatialVariantStruct	PS	DA	RO	HLAbestEffort					
 RelativeSpatial	Update type	Update Con	dition	•	•					
Inherited from BaseEntity in RPR-Base_v2.0	Conditional	On change	RPRnoteBase10	0 RPRnoteBase	11 RPRnoteBase12 RPRnoteBase13 RPRn	oteBase14				
	Semantics									
	Relative spatial state stored in one va	riant record	d attribute.							

	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.

cle

Sharing: Publish/Subscribe

Semantics: Extension of NETN_GroundVehicle to provide CBRN modelling.

Attributes:

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	ArrayOfAgentMassStruct	PS	DA	RO	HLAbestEffort						
	Update type	Update Con	Update Condition								
Contamination	Conditional	On change									
	Semantics										
	CBRN hazardous agent inside vehicle	CBRN hazardous agent inside vehicle due to embedded units.									
	Datatype	Sharing Ownership Order Transportation Dimensions									
	HLAunicodeString	PS		RO	HLAbestEffort						
Callsign	Update type	Update Con	dition	•							
Inherited from NETN_GroundVehicle in NETN-Physical_v1.1.2	Static	NA									
NETIV-Physical_v1.1.2	Semantics										
	The name of the object.										
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	ActiveStatusEnum8	PS	DA	RO	HLAbestEffort						
Status	Update type	Update Con	dition								
Inherited from NETN_GroundVehicle in	Conditional On change										
NETN-Physical_v1.1.2 Semantics											
	If an instance shall be taken into acco	ount by fede	rates								

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	AggregateMissionEnum16	PS	DA	RO	HLAbestEffort						
Activity	Update type	Update Condition									
Inherited from NETN_GroundVehicle in	Conditional On change										
NETN-Physical_v1.1.2	Semantics										
	The activity of the object.										
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	<u>ArrayOfUuid</u>	PS	DA	RO	HLAbestEffort						
EmbeddedUnitList	Update type										
Inherited from NETN_GroundVehicle in NETN-Physical_v1.1.2	Conditional										
INETIV-1 hysical_v1.1.2	Semantics										
	List of unique IDs of on-board elements										
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	<u>UuidArrayOfHLAbyte16</u>	PS		RO	HLAbestEffort						
	Update type	Update Con	dition								
UniqueID	Static	NA									
Inherited from NETN_GroundVehicle in NETN-Physical_v1.1.2	Semantics										
NEIN-Physical_v1.1.2	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.										
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	RPRboolean	PS	DA	RO	HLAbestEffort						
AfterburnerOn	Update type	Update Con	dition	· · · · · · · · · · · · · · · · · · ·							
Inherited from Platform in RPR-Physical_v2.0	Conditional	On change	?								
	Semantics										
	Whether the entity's afterburner is on	or not.									

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
AntiCollisionLightsOn	Update type	Update Cond	lition							
Inherited from Platform in RPR-Physical_v2.0	Conditional	On change								
	Semantics									
	Whether the entity's anti-collision lights are on or not.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
BlackOutBrakeLightsOn	Update type Update Condition									
Inherited from Platform in RPR-Physical_v2.0	Conditional On change									
	Semantics									
	Whether the entity's black out brake lights are on or not.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
BlackOutLightsOn Inherited from Platform in RPR-Physical_v2.0	RPRboolean	PS	DA	RO	HLAbestEffort					
	Update type Update Condition									
	Conditional On change									
	Semantics									
	Whether the entity's black out lights are on or not.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
BrakeLightsOn	Update type	Update Cond	lition		•					
Inherited from Platform in RPR-Physical_v2.0	Conditional	On change								
	Semantics									
	Whether the entity's brake lights are on or not.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
FormationLightsOn	Update type	Update Cond	lition		•	·				
Inherited from Platform in RPR-Physical_v2.0	Conditional	On change								
	Semantics									
	Whether the entity's formation lights of	are on or no	t.							
	whether the entity's formation lights are on or not.									

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions							
	HatchStateEnum32	PS	DA	RO	HLAbestEffort								
HatchState	Update type	Update Cond	lition										
Inherited from Platform in RPR-Physical_v2.0	Conditional	On change											
	Semantics	ļ.											
	The state of the entity's (main) hatch.												
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions							
	RPRboolean	PS	DA	RO	HLAbestEffort								
 HeadLightsOn	Update type Update Condition												
Inherited from Platform in RPR-Physical_v2.0	Conditional On change												
	Semantics												
	Whether the entity's headlights are on or not.												
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions							
InteriorLightsOn Inherited from Platform in RPR-Physical_v2.0	RPRboolean	PS	DA	RO	HLAbestEffort								
	Update type Update Condition												
	Conditional On change												
	Semantics												
	Whether the entity's internal lights are on or not.												
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions							
	RPRboolean	PS	DA	RO	HLAbestEffort								
LandingLightsOn	Update type	Update Cond	lition	•									
Inherited from Platform in RPR-Physical_v2.0	Conditional	On change											
	Semantics												
	Whether the entity's landing lights are on or not.												
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions							
	RPRboolean	PS	DA	RO	HLAbestEffort								
LauncherRaised	Update type	Update Cond	lition										
Inherited from Platform in RPR-Physical_v2.0	Conditional	On change											
	Semantics	•											
	Whether the entity's weapon launcher	is in the ra	ised positio	n.									
L	, , ,					Whether the entity's weapon launcher is in the raised position.							

Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
RPRboolean	PS	DA	RO	HLAbestEffort					
Update type	Update Cond	lition							
Conditional	On change								
Semantics									
Whether the entity's navigation lights are on or not.									
Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
RPRboolean	PS	DA	RO	HLAbestEffort					
Update type Update Condition									
Conditional On change									
Semantics									
Whether the entity has deployed a ramp or not.									
Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
RPRboolean	PS	DA	RO	HLAbestEffort					
Update type Update Condition									
Conditional On change									
Semantics									
Whether the entity's running lights are on or not.									
Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
RPRboolean	PS	DA	RO	HLAbestEffort					
Update type	Update Cond	lition							
Conditional	On change								
Semantics									
Whether the entity's spotlights are on or not.									
Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
RPRboolean	PS	DA	RO	HLAbestEffort					
Update type	Update Cond	lition							
Conditional	On change								
Semantics									
Whether the entity's tail lights are on	or not.								
	RPRboolean Update type Conditional Semantics Whether the entity's navigation lights Datatype RPRboolean Update type Conditional Semantics Whether the entity has deployed a ran Datatype RPRboolean Update type Conditional Semantics Whether the entity's running lights are Datatype RPRboolean Update type Conditional Semantics Whether the entity's running lights are Datatype RPRboolean Update type Conditional Semantics Whether the entity's spotlights are on Datatype RPRboolean Update type Conditional Semantics Whether the entity's spotlights are on Datatype RPRboolean Update type Conditional Semantics	RPRboolean PS Update type Update Conditional On change Semantics Whether the entity's navigation lights are on or not not patatype Sharing RPRboolean PS Update type Update Conditional On change Semantics Whether the entity has deployed a ramp or not. Datatype Sharing RPRboolean PS Update type Update Conditional On change Semantics Whether the entity has deployed a ramp or not. Datatype Sharing RPRboolean PS Update type Update Conditional On change Semantics Whether the entity's running lights are on or not. Datatype Sharing RPRboolean PS Update type Update Conditional On change Semantics Whether the entity's spotlights are on or not. Datatype Sharing RPRboolean PS Update type Update Conditional On change Semantics Whether the entity's spotlights are on or not. Datatype Sharing RPRboolean PS Update type Update Conditional On change	RPRboolean PS DA Update type Update Condition Conditional On change Semantics Whether the entity's navigation lights are on or not. Datatype Sharing Ownership RPRboolean PS DA Update type Update Condition Conditional On change Semantics Whether the entity has deployed a ramp or not. Datatype Sharing Ownership RPRboolean PS DA Update type Update Condition Conditional On change Semantics Whether the entity's running lights are on or not. Datatype Sharing Ownership RPRboolean PS DA Update type Update Condition Conditional On change Semantics Whether the entity's running lights are on or not. Datatype Sharing Ownership RPRboolean PS DA Update type Update Condition Conditional On change Semantics Whether the entity's spotlights are on or not. Datatype Sharing Ownership RPRboolean PS DA Update Condition Conditional On change Semantics Whether the entity's spotlights are on or not. Datatype Sharing Ownership RPRboolean PS DA Update type Update Condition Conditional On change	RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics Whether the entity's navigation lights are on or not. Datatype Sharing Ownership Order RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics Whether the entity has deployed a ramp or not. Datatype Sharing Ownership Order RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics Whether the entity has deployed a ramp or not. Datatype Sharing Ownership Order RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics Whether the entity's running lights are on or not. Datatype Sharing Ownership Order RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics Whether the entity's spotlights are on or not. Datatype Sharing Ownership Order RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics Whether the entity's spotlights are on or not. Datatype Sharing Ownership Order RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics Whether the entity's spotlights are on or not. Datatype Sharing Ownership Order RPRboolean PS DA RO Update type Update Condition Conditional On change	RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Whether the entity's navigation lights are on or not. Datatype Sharing Ownership Order Transportation RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Whether the entity has deployed a ramp or not. Datatype Sharing Ownership Order Transportation RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Whether the entity has deployed a ramp or not. Datatype Sharing Ownership Order Transportation RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Whether the entity's running lights are on or not. Datatype Sharing Ownership Order Transportation RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Whether the entity's spotlights are on or not. Datatype Update Condition Conditional On change Semantics Whether the entity's spotlights are on or not. Datatype Sharing Ownership Order Transportation RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Whether the entity's spotlights are on or not. Datatype Sharing Ownership Order Transportation RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change				

	atype		Ownership	Order	Transportation	Dimensions				
	eger16	PS	DA	RO	HLAbestEffort					
AcousticSignatureIndex Upd	date type	Update Cond	ition		1					
	nditional	On change								
Physical_v2.0 Sem	Semantics									
Ind	Index used to obtain the acoustics (sound through air) signature state of the entity.									
Dat	atype	Sharing	Ownership	Order	Transportation	Dimensions				
Ent	tityTypeStruct	PS	DA	RO	HLAbestEffort					
AlternateEntityType Upd	Update type Update Condition									
	Static NA									
Physical_v2.0	Semantics									
The	The category of entity to be used when viewed by entities on the 'opposite' side.									
Dat	atype	Sharing	Ownership	Order	Transportation	Dimensions				
sAı	ticulatedParameterStructLengthles rray	PS	DA	RO	HLAbestEffort					
1 -	Update type Update Condition									
Inherited from PhysicalEntity in RPR- Physical_v2.0	Conditional On change									
Sen	Semantics									
Ide	Identification of the visible parts, and their states, of the entity which are capable of independent motion.									
Dat	atype	Sharing	Ownership	Order	Transportation	Dimensions				
Car	mouflageEnum32	PS	DA	RO	HLAbestEffort					
CamouflageType	date type	Update Cond	ition							
	nditional	On change								
Physical_v2.0 Sem	Semantics									
The	e type of camouflage in use (if any).									
Dat	atype	Sharing	Ownership	Order	Transportation	Dimensions				
Da	mageStatusEnum32	PS	DA	RO	HLAbestEffort					
DamageState Upd	Update type Update Condition									
	nditional	On change								
Physical_v2.0	nantics									
The	e state of damage of the entity.									

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
EngineSmokeOn	Update type	Update Cond	dition							
Inherited from PhysicalEntity in RPR-	Conditional On change									
Physical_v2.0	Semantics									
	Whether the entity's engine is generating smoke or not.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
FirePowerDisabled	Update type	Update Cond	dition	•	-					
Inherited from PhysicalEntity in RPR-	Conditional	On change	?							
Physical_v2.0	Semantics									
	Whether the entity's main weapon system has been disabled or not.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
FlamesPresent	Update type Update Condition									
Inherited from PhysicalEntity in RPR- Physical_v2.0	Conditional On change									
Frysicai_v2.0	Semantics									
	Whether the entity is on fire (with visible flames) or not.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	ForceIdentifierEnum8	PS	DA	RO	HLAbestEffort					
ForceIdentifier	Update type	Update Cond	dition		•					
Inherited from PhysicalEntity in RPR-	Conditional	On change	?							
Physical_v2.0	Semantics									
	The identification of the force that the	The identification of the force that the entity belongs to.								
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
HasAmmunitionSupplyCap	Update type	Update Condition								
Inherited from PhysicalEntity in RPR-	Conditional	On change	?							
Physical_v2.0	Semantics									
	Whether the entity has the capability	to supply ot	her entities	with amm	unition.					

RPRboolean PS DA RO HLAbestEffort		D:	Transportation	Order	Ownership	Charia a	D-4-4						
Update type		Dimensions	•				Datatype DDDboolean						
Conditional On change			TLAUESTEHOIT	KO				HFICIC					
Physical_v2.0 Semantics Whether the entity has the capability to supply other entities with fuel or not.						1		1					
Semanties Whether the entity has the capability to supply other entities with fuel or not.						On change	Conditional						
HasRecoveryCap Datatype													
RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Whether the entity has the capability to recover other entities or not. HasRepairCap Inherited from PhysicalEntity in RPR-Physical_v2.0 Batatype Sharing Ownership Order Transportation Dimensions RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Whether the entity has the capability to repair other entities or not. Whether the entity has the capability to repair other entities or not. Whether the entity has the capability to repair other entities or not. Immobilized Inherited from PhysicalEntity in RPR-Physical_v2.0 Mether the entity has the capability to repair other entities or not. Update type Update Condition Whether the entity is immobilized or not.													
Update type		Dimensions	Transportation	Order	Ownership	Sharing	Datatype						
Conditional On change			HLAbestEffort	RO	DA	PS	RPRboolean						
Physical_v2.0 Semantics Whether the entity has the capability to recover other entities or not.					lition	Update Cond	Update type	HasRecoveryCap					
Semantics Whether the entity has the capability to recover other entities or not.						On change	Conditional	Inherited from PhysicalEntity in RPR-					
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$						•	Semantics	Physical_v2.0					
RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Whether the entity has the capability to repair other entities or not. Immobilized Inherited from PhysicalEntity in RPR-Physical_v2.0 Therited from PhysicalEntity in RPR-Physical_v2.0 Whether the entity has the capability to repair other entities or not. Update type Sharing Ownership Order Transportation Dimensions RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Whether the entity is immobilized or not.				or not.	ther entities	to recover o	Whether the entity has the capability						
HasRepairCap Inherited from PhysicalEntity in RPR-Physical_v2.0 Conditional On change Semantics Whether the entity has the capability to repair other entities or not. Datatype RPR-Dolean RPR-Dhysical_v2.0 Inherited from PhysicalEntity in RPR-Physical_v2.0 Inherited from PhysicalEntity in RPR-Physical_v2.0 Whether the entity is immobilized or not.		Dimensions	Transportation	Order	Ownership	Sharing	Datatype						
Inherited from PhysicalEntity in RPR- Physical_v2.0 Conditional On change Semantics Whether the entity has the capability to repair other entities or not. Datatype RPRboolean RPRboolean PS DA RO HLAbestEffort Update type Update Condition Inherited from PhysicalEntity in RPR- Physical_v2.0 Whether the entity is immobilized or not.			HLAbestEffort	RO	DA	PS	RPRboolean						
Physical_v2.0 Semantics Whether the entity has the capability to repair other entities or not.			HasRepairCap										
Semantics Whether the entity has the capability to repair other entities or not.													
Immobilized Inherited from PhysicalEntity in RPR-Physical_v2.0 Whether the entity is immobilized or not. Datatype			Thysica_v2.0										
RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Whether the entity is immobilized or not.	epair other entities or not.						Whether the entity has the capability						
Immobilized Update type Update Condition Inherited from PhysicalEntity in RPR-Physical_v2.0 Conditional On change Semantics Whether the entity is immobilized or not.		Dimensions	Transportation	Order	Ownership	Sharing	Datatype						
Inherited from PhysicalEntity in RPR-Physical_v2.0 Conditional On change Semantics Whether the entity is immobilized or not.			HLAbestEffort	RO	DA	PS	RPRboolean						
Physical_v2.0 Semantics Whether the entity is immobilized or not.					lition	Update Cond	Update type	Immobilized					
Semantics Whether the entity is immobilized or not.						On change	Conditional						
· · · · · · · · · · · · · · · · · · ·			Semantics	Physicai_v2.0									
Datatype Sharing Ownership Order Transportation Dimensions						not.	Whether the entity is immobilized or r						
		Dimensions	Transportation	Order	Ownership	Sharing	Datatype						
Integer16 PS DA RO HLAbestEffort			HLAbestEffort	RO	DA	PS	Integer16						
InfraredSignatureIndex Update type Update Condition					lition	Update Cond	Update type	InfraredSignatureIndex					
Inherited from PhysicalEntity in RPR- Conditional On change						On change	Conditional						
Physical_v2.0 Semantics						-	Semantics	Physical_v2.0					
Index used to obtain the infra-red signature state of the entity.				y.	of the entity	nature state	Index used to obtain the infra-red sign						

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
IsConcealed	Update type	Update Con	dition	•		·				
Inherited from PhysicalEntity in RPR-	Conditional	On chang	e							
Physical_v2.0	Semantics									
	Whether the entity is concealed or not.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	VelocityDecimeterPerSecondInteger 16	PS	DA	RO	HLAbestEffort					
LiveEntityMeasuredSpeed	Update type Update Condition									
Inherited from PhysicalEntity in RPR- Physical_v2.0	Conditional	On chang	e							
	Semantics	es .								
	The entity's own measurement of speed (e.g. air speed for aircraft).									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	MarkingStruct	PS	DA	RO	HLAbestEffort					
Marking	Update type Update Condition									
nherited from PhysicalEntity in RPR- Physical_v2.0	Conditional On change									
Fhysical_v2.0	Semantics									
	A unique marking or combination of characters used to distinguish the entity from other entities.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
PowerPlantOn	Update type	Update Con	dition							
Inherited from PhysicalEntity in RPR- Physical_v2.0	Conditional	On chang	e							
Thysica_v2.0	Semantics									
	Whether the entity's power plant is on or not.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	PropulsionSystemDataStructLengthl essArray	PS	DA	RO	HLAbestEffort					
PropulsionSystemsData	Update type	Update Con	dition							
Inherited from PhysicalEntity in RPR- Physical_v2.0	Conditional	On change	e							
	Semantics									
	The basic operating data of the propu	lsion syste	ms aboard t	he entity.						

Integer16		Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
Conditional On change		Integer16	PS	DA	RO	HLAbestEffort					
Semantics Index used to obtain the radar cross section signature state of the entity.	RadarCrossSectionSignatureIndex	Update type	Update Con	dition		1					
Semantics Index used to obtain the radar cross section signature state of the entity.		Conditional	On change	?							
Datatype Sharing Ownership Order Transportation Dimensions	Physical_v2.0	Semantics									
RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Whether the entity is generating smoke or not (intentional or unintentional). TentDeployed Inherited from PhysicalEntity in RPR-Physical_v2.0 PS DA RO HLAbestEffort Update type Update Conditional On change Semantics Update type Update Conditional On change Conditional On change Semantics Whether the entity has deployed tent or not. Whether the entity has deployed tent or not. Datatype Sharing Ownership Order Transportation Whether the entity has deployed tent or not. Dimensions TrailingEffectsCode Update type Update Condition TrailingEffectsCode Update Condition Update type Update Condition On change Semantics TrailingEffectsCode Update Condition Update type Update Condition On change Semantics TrailingEffectsCode Update Condition Dimensions TrailingEffectsCode Update Condition On change Semantics The type and size of any trail that the entity is making. Datatype Sharing Ownership Order Transportation Dimensions VectoringNozzleSystemDataStructl. PS DA RO HLAbestEffort		Index used to obtain the radar cross section signature state of the entity.									
SmokePlumePresent Update type Update Condition On change		Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
Inherited from PhysicalEntity in RPR-Physical_v2.0 Conditional On change		RPRboolean	PS	DA	RO	HLAbestEffort					
Physical_v2.0 Semantics Whether the entity is generating smoke or not (intentional or unintentional).	SmokePlumePresent	Update type Update Condition									
Semantics Whether the entity is generating smoke or not (intentional or unintentional).		Conditional On change									
Datatype Sharing Ownership Order Transportation Dimensions RPRboolean PS DA RO HLAbestEffort Update type Update Condition Inherited from Physical_v2.0 Conditional On change Semantics Whether the entity has deployed tent or not. TrailingEffectsCode Inherited from Physical_v2.0 Datatype Sharing Ownership Order Transportation Dimensions TrailingEffectsCode Update type Update Condition Inherited from Physical_v2.0 TrailingEffectsCode Update type Update Condition Conditional On change Semantics The type and size of any trail that the entity is making. Datatype Sharing Ownership Order Transportation Dimensions Transportation Dimensions Transportation Dimensions Transportation Dimensions Dimensions The type and size of any trail that the entity is making. Datatype Sharing Ownership Order Transportation Dimensions VectoringNozzleSystemDataStructL PS DA RO HLAbestEffort	Frysicai_v2.0	Semantics									
RPRboolean PS DA RO HLAbestEffort TentDeployed Update type Update Condition Conditional On change Semantics Whether the entity has deployed tent or not. TrailingEffectsCode Inherited from PhysicalEntity in RPR- Physical_v2.0 Datatype Sharing Ownership TrailingEffectsCode Update Condition Update type Update Condition Conditional On change PS DA RO HLAbestEffort Transportation Dimensions TrailingEffectsCode Update type Update Condition Conditional On change Semantics The type and size of any trail that the entity is making. Datatype Sharing Ownership Order Transportation Dimensions Transportation Dimensions Transportation Dimensions Physical_v2.0 Datatype Sharing Ownership Order Transportation Dimensions Dimensions Dimensions		Whether the entity is generating smok	e or not (in	tentional or	unintenti	onal).					
TentDeployed Inherited from PhysicalEntity in RPR- Physical_v2.0 Conditional On change Semantics Whether the entity has deployed tent or not. Datatype Inherited from PhysicalEntity in RPR- Physical_v2.0 Datatype Datatype Datatype Sharing Ownership Order Transportation Transportation Dimensions Dimensions Dimensions Dimensions Dimensions TrailingEffectsCode Update type Update Condition Dimensions TrailingEffectsCode Inherited from PhysicalEntity in RPR- Physical_v2.0 Datatype Datatype Sharing Ownership Order Transportation Dimensions Transportation Dimensions Transportation Dimensions Dimensions Dimensions		Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
Conditional On change		RPRboolean	PS	DA	RO	HLAbestEffort					
Physical_v2.0 Semantics Whether the entity has deployed tent or not. Datatype	TentDeployed	Update type Update Condition									
Semantics Whether the entity has deployed tent or not.	Physical_v2.0	Conditional On change									
Datatype		Semantics									
TrailingEffectsCode Inherited from PhysicalEntity in RPR- Physical_v2.0 Conditional Semantics The type and size of any trail that the entity is making. Datatype Sharing Ownership VectoringNozzleSystemDataStructL PS DA RO HLAbestEffort HLAbestEffort Dimensions Fransportation Dimensions Dimensions Dimensions Dimensions		Whether the entity has deployed tent or not.									
TrailingEffectsCode Inherited from PhysicalEntity in RPR- Physical_v2.0 Conditional On change Semantics The type and size of any trail that the entity is making. Datatype Sharing Ownership VectoringNozzleSystemDataStructL PS DA RO HLAbestEffort		Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
Inherited from PhysicalEntity in RPR- Physical_v2.0 Conditional On change Semantics The type and size of any trail that the entity is making. Datatype Sharing Ownership Order Transportation Dimensions VectoringNozzleSystemDataStructL PS DA RO HLAbestEffort		TrailingEffectsCodeEnum32	PS	DA	RO	HLAbestEffort					
Physical_v2.0 Semantics The type and size of any trail that the entity is making. Datatype Sharing Ownership Order Transportation Dimensions VectoringNozzleSystemDataStructL PS DA RO HLAbestEffort	TrailingEffectsCode	Update type	Update Con	dition		•					
Semantics The type and size of any trail that the entity is making. Datatype Sharing Ownership Order Transportation Dimensions VectoringNozzleSystemDataStructL PS DA RO HLAbestEffort		Conditional	On change	?							
Datatype Sharing Ownership Order Transportation Dimensions VectoringNozzleSystemDataStructL PS DA RO HLAbestEffort	Physical_v2.0	Semantics									
VectoringNozzleSystemDataStructL PS DA RO HLAbestEffort		The type and size of any trail that the entity is making.									
		Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
		VectoringNozzleSystemDataStructL engthlessArray	PS	DA	RO	HLAbestEffort					
VectoringNozzleSystemData Update type Update Condition	VectoringNozzleSystemData	Update type Update Condition									
Inherited from PhysicalEntity in RPR- Physical_v2.0 Conditional On change		Conditional	On change	?							
Semantics		Semantics	•								
The basic operational data for the vectoring nozzle systems aboard the entity.		The basic operational data for the vec	ctoring nozz	le systems d	aboard the	entity.					

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	EntityTypeStruct	PS	DA	RO	HLAbestEffort					
EntityType	Update type	Update Con	dition	•						
Inherited from BaseEntity in RPR-Base_v2.0	Static	NA								
	Semantics									
	The category of the entity.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	EntityIdentifierStruct	PS	DA	RO	HLAbestEffort					
EntityIdentifier	Update type Update Condition									
Inherited from BaseEntity in RPR-Base_v2.0	Static NA									
_	Semantics									
	The unique identifier for the entity instance.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	IsPartOfStruct	PS	DA	RO	HLAbestEffort					
	Update type Update Condition									
IsPartOf	Conditional	On change	?							
Inherited from BaseEntity in RPR-Base_v2.0	Semantics									
	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 HostEntityIdentifier 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.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	SpatialVariantStruct	PS	DA	RO	HLAbestEffort					
Spatial	Update type	Update Con	dition							
Inherited from BaseEntity in RPR-Base_v2.0	Conditional	On change	RPRnoteBase1	0 RPRnoteBase	e11 RPRnoteBase12 RPRnoteBase13 RPRn	noteBase14				
i i	Semantics									
	Spatial state stored in one variant rec	ord attribu	te.							

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

9.1.8. CBRN_MultiDomainPlatform

 $HLA object Root. Base Entity. Physical Entity. Platform. Multi Domain Platform. NETN_Multi Domain Platform. CBRN_Multi Domain Platform$ Full Name:

Sharing: Publish/Subscribe

Semantics: Extension of NETN_MultiDomainPlatform to provide CBRN modelling.

Attributes:

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	<u>ArrayOfAgentMassStruct</u>	PS	DA	RO	HLAbestEffort					
	Update type	Update Condition								
Contamination	Conditional	On change								
	Semantics									
	CBRN hazardous agent inside vehicle due to embedded units.									
	Datatype Sharing Ownership Order Transportation Dimensions									
	HLAunicodeString	PS		RO	HLAbestEffort					
Callsign	Update type	Update Cond	lition							
Inherited from NETN_MultiDomainPlatform in NETN-Physical_v1.1.2	NA Static NA									
In NETN-Physical_V1.1.2	Semantics									
	The name of the object.									

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	ActiveStatusEnum8	PS	DA	RO	HLAbestEffort					
Status	Update type	Update Con	dition							
Inherited from NETN_MultiDomainPlatform	Conditional	On change	?							
in NETN-Physical_v1.1.2	Semantics									
	If an instance shall be taken into acco	ount by fede	rates							
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	AggregateMissionEnum16	PS	DA	RO	HLAbestEffort					
Activity	Update type Update Condition									
Inherited from NETN_MultiDomainPlatform	Conditional On change									
in NETN-Physical_v1.1.2	Semantics									
	The activity of the object.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	<u>ArrayOfUuid</u>	PS	DA	RO	HLAbestEffort					
EmbeddedUnitList	Update type	Update Con	dition							
Inherited from NETN_MultiDomainPlatform	Conditional On change									
in NETN-Physical_v1.1.2	Semantics									
	List of unique IDs of on-board elemen	nts								
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	<u>UuidArrayOfHLAbyte16</u>	PS		RO	HLAbestEffort					
	Update type	Update Con	dition	•	•					
UniqueID	Static	NA								
Inherited from NETN_MultiDomainPlatform in NETN-Physical_v1.1.2	Semantics									
m 142.114-1 nystem_v1.1.2	The unique identifier of the object. Required value. If not assigned by the ORBAT specific attribute value.	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								

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

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

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	RPRboolean	PS	DA	RO	HLAbestEffort						
LauncherRaised	Update type	Update Cond	dition								
Inherited from Platform in RPR-Physical_v2.0	Conditional	On change	,								
	Semantics										
	Whether the entity's weapon launcher is in the raised position.										
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	RPRboolean	PS	DA	RO	HLAbestEffort						
NavigationLightsOn	Update type Update Condition										
Inherited from Platform in RPR-Physical_v2.0	Conditional On change										
	Semantics										
	Whether the entity's navigation lights are on or not.										
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	RPRboolean	PS	DA	RO	HLAbestEffort						
Kamp Deproyeu _	Update type	Update type Update Condition									
	Conditional On change										
	Semantics										
	Whether the entity has deployed a ramp or not.										
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	RPRboolean	PS	DA	RO	HLAbestEffort						
RunningLightsOn	Update type	Update Cond	dition	•							
Inherited from Platform in RPR-Physical_v2.0	Conditional	On change	?								
	Semantics										
	Whether the entity's running lights are	e on or not.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	RPRboolean	PS	DA	RO	HLAbestEffort						
SpotLightsOn	Update type	Update Cond	dition								
Inherited from Platform in RPR-Physical_v2.0	Conditional	On change	?								
_	Semantics										
	Whether the entity's spotlights are on	or not.									

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	RPRboolean	PS	DA	RO	HLAbestEffort						
TailLightsOn	Update type	Update Con	dition	•							
Inherited from Platform in RPR-Physical_v2.0	Conditional	On change	?								
Innerned from 1 tallorm in 14 1 1 hysical_v2.0	Semantics										
	Whether the entity's tail lights are on or not.										
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	Integer16	PS	DA	RO	HLAbestEffort						
AcousticSignatureIndex	Update type Update Condition										
Inherited from PhysicalEntity in RPR-	Conditional On change										
Physical_v2.0	Semantics										
	Index used to obtain the acoustics (sound through air) signature state of the entity.										
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	EntityTypeStruct	PS	DA	RO	HLAbestEffort						
AlternateEntityType	Update type Update Condition										
Physical_v2.0	Static NA										
	Semantics										
	The category of entity to be used when viewed by entities on the 'opposite' side.										
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	ArticulatedParameterStructLengthles sArray	PS	DA	RO	HLAbestEffort						
ArticulatedParametersArray	Update type	Update Con	dition	•							
Inherited from PhysicalEntity in RPR- Physical_v2.0	Conditional	On change	?								
	Semantics										
	Identification of the visible parts, and	their states	, of the enti	ty which a	re capable of independent	motion.					
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	CamouflageEnum32	PS	DA	RO	HLAbestEffort						
CamouflageType	Update type	Update Condition									
Inherited from PhysicalEntity in RPR-	Conditional	On change	?								
Physical_v2.0	Semantics										
	The type of camouflage in use (if any)										
	- 10 - 1/4 - 1/2 commonly and and (i) and //										

DamageState Upd Inherited from PhysicalEntity in RPR- Physical_v2.0 Sem	ndate type Inditional mantics e state of damage of the entity.	Update Cond	ition	RO	HLAbestEffort								
Inherited from PhysicalEntity in RPR-Physical_v2.0 Sem The	nantics e state of damage of the entity.												
Physical_v2.0 Sem The	e state of damage of the entity.	On change											
Sen: The	e state of damage of the entity.			Conditional On change									
				Semantics									
Data	t - 4		The state of damage of the entity.										
l ——	tatype	Sharing	Ownership	Order	Transportation	Dimensions							
RP.	Rboolean	PS	DA	RO	HLAbestEffort								
EngineSmokeOn Upd													
	Conditional On change												
Physical_v2.0	Semantics												
Wh	Whether the entity's engine is generating smoke or not.												
Data	tatype	Sharing	Ownership	Order	Transportation	Dimensions							
RP.	Rboolean	PS	DA	RO	HLAbestEffort								
FirePowerDisabled Upd	date type	Update Cond	ition	•									
Inherited from PhysicalEntity in RPR-Physical_v2.0	Conditional On change												
	Semantics												
Wh	Whether the entity's main weapon system has been disabled or not.												
Data	tatype	Sharing	Ownership	Order	Transportation	Dimensions							
RP.	Rboolean	PS	DA	RO	HLAbestEffort								
FlamesPresent Upd	date type	Update Cond	ition										
	nditional	On change											
Physical_v2.0 Sem	nantics												
Wh	nether the entity is on fire (with visib	ole flames) o	or not.										
Data	tatype	Sharing	Ownership	Order	Transportation	Dimensions							
For	rceIdentifierEnum8	PS	DA	RO	HLAbestEffort								
ForceIdentifier Upd	date type	Update Cond	ition										
	nditional	On change											
Physical_v2.0 Sem	nantics												
The	e identification of the force that the	entity belor	igs to.										

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	RPRboolean	PS	DA	RO	HLAbestEffort						
HasAmmunitionSupplyCap	Update type	Update Con	dition			1					
Inherited from PhysicalEntity in RPR-	Conditional	On change	?								
Physical_v2.0	Semantics										
	Whether the entity has the capability	Whether the entity has the capability to supply other entities with ammunition.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	RPRboolean	PS	DA	RO	HLAbestEffort						
HasFuelSupplyCap	Update type Update Condition										
Inherited from PhysicalEntity in RPR-	Conditional	Conditional On change									
Physical_v2.0	Semantics Whether the entity has the capability to supply other entities with fuel or not.										
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	RPRboolean	PS	DA	RO	HLAbestEffort						
HasRecoveryCap	Update type	Update type Update Condition									
Inherited from PhysicalEntity in RPR-	Conditional On change										
Physical_v2.0	Semantics										
	Whether the entity has the capability	to recover o	other entitie.	s or not.							
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	RPRboolean	PS	DA	RO	HLAbestEffort						
HasRepairCap	Update type	Update Con	dition		·	·					
Inherited from PhysicalEntity in RPR-	Conditional	On change	?								
Physical_v2.0	Semantics	•									
	Whether the entity has the capability	to repair ot	her entities	or not.							
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	RPRboolean	PS	DA	RO	HLAbestEffort						
Immobilized	Update type	Update Con	dition								
Inherited from PhysicalEntity in RPR-	Conditional	On change	2								
Physical_v2.0	Semantics										
	Whether the entity is immobilized or	not.									

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions							
	Integer16	PS	DA	RO	HLAbestEffort								
InfraredSignatureIndex	Update type	Update Cond	dition		'	- '							
Inherited from PhysicalEntity in RPR-	Conditional	On change	?										
Physical_v2.0	Semantics												
	Index used to obtain the infra-red signature state of the entity.												
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions							
	RPRboolean	PS	DA	RO	HLAbestEffort								
IsConcealed	Update type Update Condition												
Inherited from PhysicalEntity in RPR-	Conditional On change												
Physical_v2.0	Semantics	Semantics											
	Whether the entity is concealed or not.												
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions							
LiveEntityMeasuredSpeed	VelocityDecimeterPerSecondInteger 16	PS	DA	RO	HLAbestEffort								
	Update type	Update Cond	dition	•	•								
	Conditional On change												
	Semantics												
	The entity's own measurement of spee	d (e.g. air s	peed for air	craft).									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions							
	MarkingStruct	PS	DA	RO	HLAbestEffort								
Marking	Update type	Update Cond	dition		·								
Inherited from PhysicalEntity in RPR-	Conditional	On change	?										
Physical_v2.0	Semantics												
	A unique marking or combination of c	characters i	ısed to disti	nguish the	e entity from other entities.								
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions							
	RPRboolean	PS	DA	RO	HLAbestEffort								
PowerPlantOn	Update type	Update Con	dition										
Inherited from PhysicalEntity in RPR-	Conditional	On change	?										
Physical_v2.0	Semantics												
	Whether the entity's power plant is on	or not.											
	Whether the entity's power plant is on	or not.		Whether the entity's power plant is on or not.									

Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
PropulsionSystemDataStructLengthl essArray	PS	DA	RO	HLAbestEffort						
Update type	Update Con	dition		1	'					
Conditional	On change	?								
Semantics										
The basic operating data of the propulsion systems aboard the entity.										
Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
Integer16	PS	DA	RO	HLAbestEffort						
Update type	Update Con	dition								
Conditional On change										
emantics										
Index used to obtain the radar cross s	ection sign	ature state d	of the entit	y.						
Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
RPRboolean	PS	DA	RO	HLAbestEffort						
Update type Update Condition										
Conditional On change										
Semantics										
Whether the entity is generating smok	e or not (in	tentional or	unintentic	onal).						
Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
RPRboolean	PS	DA	RO	HLAbestEffort						
Update type	Update Con	dition								
Conditional	On change	?								
Semantics										
Whether the entity has deployed tent of	or not.									
Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
TrailingEffectsCodeEnum32	PS	DA	RO	HLAbestEffort						
Update type	Update Con	dition								
Conditional	On change	?								
Semantics										
The type and size of any trail that the	entity is ma	ıking.								
	PropulsionSystemDataStructLengthl essArray Update type Conditional Semantics The basic operating data of the propulation of	PropulsionSystemDataStructLengthl essArray Update type Update type Conditional On change Semantics The basic operating data of the propulsion system Datatype Integer16 PS Update type Update Concorditional On change Semantics Index used to obtain the radar cross section signal semantics Index used to obtain the radar cross section signal period of the propulsion system Semantics Index used to obtain the radar cross section signal period of the propulsion system Index used to obtain the radar cross section signal period of the propulsion system Index used to obtain the radar cross section signal period of the propulsion system Index used to obtain the radar cross section signal period of the propulsion system Index used to obtain the radar cross section signal period of the propulsion system Index used to obtain the radar cross section signal period of the propulsion system Index used to obtain the radar cross section signal period of the propulsion system Index used to obtain the radar cross section signal period of the propulsion system Index used to obtain the radar cross section signal period of the propulsion system Index used to obtain the radar cross section signal period of the propulsion system Index used to obtain the radar cross section signal period of the propulsion system Index used to obtain the radar cross section signal period of the propulsion system Index used to obtain the radar cross section signal period of the propulsion system Index used to obtain the radar cross section signal period of the propulsion system Index used to obtain the radar cross section signal period of the propulsion system Index used to obtain	PropulsionSystemDataStructLengthl essArray Update type Update type Update Condition Conditional On change Semantics The basic operating data of the propulsion systems aboard the propulsion of the propulsion systems aboard the propulsion systems aboard the propulsion of the propulsion systems aboard the propulsion of the propulsion systems aboard the propulsion systems aboard the propulsion systems aboard the propulsion of the propulsion systems aboard the propulsion systems aboard the propulsion systems aboard the propulsion systems aboard the propulsion of the propulsion systems aboard the propulsion of the propulsion systems aboard the propulsion of the propulsion systems aboard the propulsion systems aboard the propulsion systems aboard the propulsion of the propulsion systems aboard the propulsion systems aboard the propulsion of the propulsion of the propulsion systems aboard the propulsion of the propulsion systems aboard the propulsion systems aboard the propulsion of the propulsion systems aboard the propulsion of the propulsion systems aboard the prop	PropulsionSystemDataStructLengthl essArray Update type Update Condition Conditional On change Semantics The basic operating data of the propulsion systems aboard the entity. Datatype Integer 16 PS DA RO Update Conditional On change Semantics Index used to obtain the radar cross section signature state of the entity Datatype Sharing Ownership Order RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics Whether the entity is generating smoke or not (intentional or unintentic) Datatype Sharing Ownership Order RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics Whether the entity is generating smoke or not (intentional or unintentic) Datatype RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics Whether the entity has deployed tent or not. Datatype TrailingEffectsCodeEnum32 PS DA RO Update type Update Condition Conditional On change Semantics Whether the entity has deployed tent or not. Datatype Sharing Ownership Order TrailingEffectsCodeEnum32 PS DA RO Update type Update Condition Conditional On change Semantics	PropulsionSystemDataStructLengthl essArray Update type Update Condition Conditional On change Semantics The basic operating data of the propulsion systems aboard the entity. Datatype Sharing Ownership Update Condition Conditional On change Semantics The basic operating data of the propulsion systems aboard the entity. Datatype Sharing Ownership Order Transportation RO HLAbestEffort Update type Update Condition Conditional On change Semantics Index used to obtain the radar cross section signature state of the entity. Datatype Sharing Ownership Order Transportation RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Whether the entity is generating smoke or not (intentional or unintentional). Datatype Sharing Ownership RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Whether the entity has deployed tent or not. Datatype Sharing Ownership Ownership Order Transportation TrailingEffectsCodeEnum32 PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Whether the entity has deployed tent or not. Datatype Sharing Ownership Ownership Order Transportation TrailingEffectsCodeEnum32 PS DA RO HLAbestEffort Update type Update type Update Condition Conditional On change					

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	VectoringNozzleSystemDataStructL engthlessArray	PS	DA	RO	HLAbestEffort					
VectoringNozzleSystemData	Update type	Update Con	dition							
Inherited from PhysicalEntity in RPR- Physical_v2.0	Conditional On change									
	Semantics									
	The basic operational data for the vectoring nozzle systems aboard the entity.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	EntityTypeStruct	PS	DA	RO	HLAbestEffort					
 EntityType	Update type Update Condition									
Inherited from BaseEntity in RPR-Base_v2.0	Static NA									
	Semantics									
	The category of the entity.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	EntityIdentifierStruct	PS	DA	RO	HLAbestEffort					
EntityIdentifier	Update type	Update Con	dition							
Inherited from BaseEntity in RPR-Base_v2.0	Static	NA								
	Semantics	•								
	The unique identifier for the entity ins	stance.								
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	IsPartOfStruct	PS	DA	RO	HLAbestEffort					
	Update type	Update Con	dition							
IsPartOf	Conditional	On change	?							
Inherited from BaseEntity in RPR-Base_v2.0	Semantics	•								
j j j	Defines if the entity if a constituent portion of the entity of the entity is not a constituent portion of the entity. If the entity is not a constituent portion of the empty string.	art of anoth EntityIden tuent part o	er entity (de tifier of the of another ei	noted the host entity	nost entity). If the entity is a co and the HostRTIObjectIdentij ne HostEntityIdentifier shall b	onstituent part of another entity then the fier shall be set to the RTI object instance ID of the e set to 0.0.0 and the HostRTIObjectIdentifier shall				

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

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:

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	ArrayOfAgentMassStruct	PS	DA	RO	HLAbestEffort					
	Update type	Update Condition								
Contamination	Conditional	On change								
	Semantics									
	CBRN hazardous agent inside vehicle due to embedded units.									

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

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	UuidArrayOfHLAbyte16	PS		RO	HLAbestEffort						
	Update type	Update Con	dition			•					
UniqueID	Static	NA									
Inherited from NETN_Spacecraft in NETN- Physical v1.1.2	Semantics										
rnysica_v1.1.2	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.										
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	RPRboolean	PS	DA	RO	HLAbestEffort						
AfterburnerOn	Update type Update Condition										
Inherited from Platform in RPR-Physical_v2.0	Conditional	On change	?								
S	Semantics	•									
	Whether the entity's afterburner is on or not.										
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	RPRboolean	PS	DA	RO	HLAbestEffort						
AntiCollisionLightsOn	Update type	Update Con	dition								
Inherited from Platform in RPR-Physical_v2.0	Conditional	On change	?								
	Semantics	•									
	Whether the entity's anti-collision ligh	hts are on o	r not.								
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	RPRboolean	PS	DA	RO	HLAbestEffort						
BlackOutBrakeLightsOn	Update type	Update Con	dition								
Inherited from Platform in RPR-Physical_v2.0	Conditional	On change	?								
	Semantics										
	Whether the entity's black out brake l	ights are on	or not.								

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	RPRboolean	PS	DA	RO	HLAbestEffort						
BlackOutLightsOn	Update type	Update Cond	lition								
Inherited from Platform in RPR-Physical_v2.0	Conditional	On change									
	Semantics										
	Whether the entity's black out lights are on or not.										
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	RPRboolean	PS	DA	RO	HLAbestEffort						
BrakeLightsOn	Update type Update Condition										
Inherited from Platform in RPR-Physical_v2.0	Conditional On change										
	Semantics										
	Whether the entity's brake lights are on or not.										
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
FormationLightsOn [1]	RPRboolean	PS	DA	RO	HLAbestEffort						
	Update type	Update Cond	lition	•							
	Conditional On change										
	Semantics										
	Whether the entity's formation lights o	are on or no	pt.								
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	HatchStateEnum32	PS	DA	RO	HLAbestEffort						
HatchState	Update type	Update Cond	lition		•						
Inherited from Platform in RPR-Physical_v2.0	Conditional	On change									
	Semantics										
	The state of the entity's (main) hatch.										
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	RPRboolean	PS	DA	RO	HLAbestEffort						
 HeadLightsOn	Update type	Update Cond	lition								
Inherited from Platform in RPR-Physical_v2.0	Conditional	On change									
	Semantics										
	Whether the entity's headlights are on	or not.									
	Themer the charge in canadant are on or non										

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

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	RPRboolean	PS	DA	RO	HLAbestEffort						
 RunningLightsOn	Update type	Update Cond	lition		1	,					
Inherited from Platform in RPR-Physical_v2.0	Conditional	On change									
, , , , , , , , , , , , , , , , , , ,	Semantics										
	Whether the entity's running lights are on or not.										
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	RPRboolean	PS	DA	RO	HLAbestEffort						
 SpotLightsOn	Update type Update Condition										
Inherited from Platform in RPR-Physical_v2.0	Conditional	On change									
, , , , , , , , ,	Semantics										
	Whether the entity's spotlights are on	Whether the entity's spotlights are on or not.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	RPRboolean	PS	DA	RO	HLAbestEffort						
	Update type	Update Cond	lition		-						
Inherited from Platform in RPR-Physical_v2.0	Conditional On change										
	Semantics										
	Whether the entity's tail lights are on or not.										
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	Integer16	PS	DA	RO	HLAbestEffort						
AcousticSignatureIndex	Update type	Update Cond	lition		•						
Inherited from PhysicalEntity in RPR-	Conditional	On change									
Physical_v2.0	Semantics										
	Index used to obtain the acoustics (so	und through	n air) signai	ture state o	of the entity.						
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	EntityTypeStruct	PS	DA	RO	HLAbestEffort						
AlternateEntityType	Update type	Update Cond	lition								
Inherited from PhysicalEntity in RPR-	Static	NA									
Physical_v2.0	Semantics										
	The category of entity to be used when	n viewed by	entities on	the 'oppos	rite' side.						
	The caregory of chang to be asea much riencu by chances on the opposite state.										

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	ArticulatedParameterStructLengthles sArray	PS	DA	RO	HLAbestEffort					
ArticulatedParametersArray	Update type	Update Cond	dition		1					
Inherited from PhysicalEntity in RPR- Physical_v2.0	Conditional On change									
1.19516111_7215	Semantics									
	Identification of the visible parts, and their states, of the entity which are capable of independent motion.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	CamouflageEnum32	PS	DA	RO	HLAbestEffort					
CamouflageType	Update type	Update Cond	dition		1					
Inherited from PhysicalEntity in RPR-	Conditional On change									
Physical_v2.0	Semantics									
	The type of camouflage in use (if any)									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	DamageStatusEnum32	PS	DA	RO	HLAbestEffort					
DamageState	Update type Update Condition									
Inherited from PhysicalEntity in RPR-	Conditional On change									
Physical_v2.0	Semantics									
	The state of damage of the entity.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
EngineSmokeOn	Update type	Update Cond	dition							
Inherited from PhysicalEntity in RPR-	Conditional	On change	?							
Physical_v2.0	Semantics									
	Whether the entity's engine is generate	ing smoke o	or not.							
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
FirePowerDisabled	Update type	Update Cond	dition							
Inherited from PhysicalEntity in RPR-	Conditional	On change	?							
Physical_v2.0	Semantics									
	Whether the entity's main weapon syst	tem has bee	n disabled	or not.						

Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
RPRboolean	PS	DA	RO	HLAbestEffort						
Update type	Update Con	dition			<u> </u>					
Conditional On change										
Semantics	•									
Whether the entity is on fire (with vis	sible flames)	or not.								
Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
ForceIdentifierEnum8	PS	DA	RO	HLAbestEffort						
Update type	Update type Update Condition									
Conditional	On change	ę								
Semantics	Semantics									
The identification of the force that th	The identification of the force that the entity belongs to.									
Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
RPRboolean	PS	DA	RO	HLAbestEffort						
Update type Update Condition										
Conditional On change										
Semantics										
Whether the entity has the capability	to supply of	ther entities	with amm	unition.						
Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
RPRboolean	PS	DA	RO	HLAbestEffort						
Update type	Update Con	dition		•	·					
Conditional	On change	2								
Semantics	•									
Whether the entity has the capability	to supply of	ther entities	with fuel	or not.						
Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
RPRboolean	PS	DA	RO	HLAbestEffort						
Update type	Update Condition									
Conditional	On change	2								
Semantics										
Whether the entity has the capability	to recover o	other entitie.	s or not.							
	RPRboolean Update type Conditional Semantics Whether the entity is on fire (with vis.) Datatype ForceIdentifierEnum8 Update type Conditional Semantics The identification of the force that the Datatype RPRboolean Update type Conditional Semantics Whether the entity has the capability Datatype RPRboolean Update type Conditional Semantics Whether the entity has the capability Datatype RPRboolean Update type Conditional Semantics Whether the entity has the capability Datatype RPRboolean Update type Conditional Semantics Whether the entity has the capability Datatype RPRboolean Update type Conditional Semantics	RPRboolean Update type Update type Update Con Conditional On change Semantics Whether the entity is on fire (with visible flames) Datatype ForceIdentifierEnum8 PS Update type Update Con Conditional On change Semantics The identification of the force that the entity below Datatype RPRboolean PS Update type Update Con Conditional On change Semantics Whether the entity has the capability to supply on Datatype RPRboolean PS Update type Update Con Conditional On change Semantics Whether the entity has the capability to supply on Conditional On change Semantics Whether the entity has the capability to supply on Conditional Semantics Whether the entity has the capability to supply on Conditional Semantics Whether the entity has the capability to supply on Datatype Sharing RPRboolean PS Update type Update Con Conditional On change Semantics Update type Update Con Conditional On change Semantics	RPRboolean Update type Update Condition Conditional On change Semantics Whether the entity is on fire (with visible flames) or not. Datatype Sharing Conditional On change Semantics Update Condition Conditional On change Semantics The identification of the force that the entity belongs to. Datatype Sharing RPRboolean Update type Update Condition Conditional On change Semantics Whether the entity has the capability to supply other entities Datatype Sharing RPRboolean PS DA Update type Update Condition Conditional On change Semantics Whether the entity has the capability to supply other entities Datatype RPRboolean PS DA Update type Update Condition Conditional On change Semantics Whether the entity has the capability to supply other entities Datatype Sharing Semantics Whether the entity has the capability to supply other entities Datatype Sharing Ownership RPRboolean PS DA Update type Update Condition Conditional On change Semantics	RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics Whether the entity is on fire (with visible flames) or not. Datatype Sharing Ownership Order ForceIdentifierEnum8 PS DA RO Update type Update Condition Conditional On change Semantics The identification of the force that the entity belongs to. Datatype Sharing Ownership Order RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics Whether the entity has the capability to supply other entities with amm Datatype Sharing Ownership Order RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics Whether the entity has the capability to supply other entities with amm Datatype Sharing Ownership Order RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics Whether the entity has the capability to supply other entities with fuel of the properties of the force of the properties of th	RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Whether the entity is on fire (with visible flames) or not. Datatype Sharing Ownership Order Transportation ForceldentifierEnum8 PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics The identification of the force that the entity belongs to. Datatype Sharing Ownership Order Transportation RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Whether the entity has the capability to supply other entities with ammunition. Datatype Sharing Ownership Order Transportation RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Whether the entity has the capability to supply other entities with ammunition. Datatype Sharing Ownership Order Transportation RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Whether the entity has the capability to supply other entities with fuel or not. Datatype Sharing Ownership Order Transportation RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Whether the entity has the capability to supply other entities with fuel or not. Datatype Sharing Ownership Order Transportation RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change					

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort	Difficusions				
HasBanainCan				RO	TILAUCSTEITOIT					
HasRepairCap	Update type	Update Condition								
Inherited from PhysicalEntity in RPR- Physical_v2.0	Conditional On change									
	Semantics									
	Whether the entity has the capability	to repair otl	her entities	or not.						
	Datatype	Sharing	•	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
Immobilized	Update type	Update type Update Condition								
Inherited from PhysicalEntity in RPR-	Conditional	On change	?							
Physical_v2.0	Semantics									
	Whether the entity is immobilized or not.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	Integer16	PS	DA	RO	HLAbestEffort					
InfraredSignatureIndex	Update type	Update Cond	dition	•						
Inherited from PhysicalEntity in RPR-	Conditional On change									
Physical_v2.0	Semantics									
	Index used to obtain the infra-red signature state of the entity.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
IsConcealed	Update type	Update Cond	dition							
Inherited from PhysicalEntity in RPR-	Conditional	On change	?							
Physical_v2.0	Semantics	•								
	Whether the entity is concealed or not	t.								
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	VelocityDecimeterPerSecondInteger 16	PS	DA	RO	HLAbestEffort					
LiveEntityMeasuredSpeed	Update type	Update Cond	dition	•	•					
Inherited from PhysicalEntity in RPR- Physical_v2.0	Conditional	On change	!							
	Semantics									
	The entity's own measurement of spee	ed (e.g. air s	peed for air	rcraft).						

Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
MarkingStruct	PS	DA	RO	HLAbestEffort					
Update type	Update Cond	lition							
Conditional	On change								
Semantics									
A unique marking or combination of characters used to distinguish the entity from other entities.									
Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
RPRboolean	PS	DA	RO	HLAbestEffort					
Update type Update Condition									
Conditional	On change								
Semantics									
Whether the entity's power plant is on	or not.								
Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
PropulsionSystemDataStructLengthl essArray	PS	DA	RO	HLAbestEffort					
Update type	Update Cond	lition							
Conditional On change									
Semantics									
The basic operating data of the propu	lsion systen	ns aboard th	ne entity.						
Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
Integer16	PS	DA	RO	HLAbestEffort					
Update type	Update Cond	dition							
Conditional	On change								
Semantics									
Index used to obtain the radar cross s	ection signa	ature state o	of the entity						
Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
RPRboolean	PS	DA	RO	HLAbestEffort					
Update type	Update Cond	dition							
Conditional	On change								
Semantics									
Whether the entity is generating smok	e or not (in	tentional or	unintentio	nal).					
	MarkingStruct Update type Conditional Semantics A unique marking or combination of or Datatype RPRboolean Update type Conditional Semantics Whether the entity's power plant is on Datatype PropulsionSystemDataStructLengthl essArray Update type Conditional Semantics The basic operating data of the propurational Datatype Integer16 Update type Conditional Semantics Index used to obtain the radar cross son Datatype RPRboolean Update type Conditional Semantics Index used to obtain the radar cross son Datatype RPRboolean Update type Conditional Semantics	MarkingStruct Update type Update Cond Conditional On change Semantics A unique marking or combination of characters to Datatype RPRboolean PS Update type Update Cond Conditional On change Semantics Whether the entity's power plant is on or not. Datatype PropulsionSystemDataStructLengthl essArray Update type Update Cond Conditional On change Semantics The basic operating data of the propulsion system Datatype Sharing Integer16 PS Update type Update Cond Conditional On change Semantics Index used to obtain the radar cross section signe Datatype RPRboolean PS Update type Update Cond Conditional On change Semantics Index used to obtain the radar cross section signe Datatype RPRboolean PS Update type Update Cond Conditional On change Semantics Index used to obtain the radar cross section signe Datatype RPRboolean On change Semantics Update type Update Cond Conditional On change Semantics	MarkingStruct PS DA Update type Update Condition Conditional On change Semantics A unique marking or combination of characters used to distin Datatype Sharing Ownership RPRboolean PS DA Update type Update Condition Conditional On change Semantics Whether the entity's power plant is on or not. Datatype Sharing Ownership PropulsionSystemDataStructLengthl PS DA Update type Update Condition Conditional On change Semantics The basic operating data of the propulsion systems aboard the Datatype Sharing Ownership Integer16 PS DA Update type Update Condition Conditional On change Semantics Index used to obtain the radar cross section signature state of Datatype Sharing Ownership RPRboolean PS DA Update type Update Condition Conditional On change Semantics Index used to obtain the radar cross section signature state of Datatype Sharing Ownership RPRboolean PS DA Update type Update Condition Conditional On change Semantics Index used to obtain the radar cross section signature state of Datatype Sharing Ownership RPRboolean PS DA Update type Update Condition Conditional On change	MarkingStruct PS DA RO Update type Update Condition Conditional On change Semantics A unique marking or combination of characters used to distinguish the organization of characters used to obtain the radar cross section systems of characters used to of the entity. Datatype Update Condition Conditional On characters used to distinguish the organization of characters used to obtain the radar cross section signature state of the entity of characters used to obtain the radar cross section signature state of the entity of characters used to obtain the radar cross section signature state of the entity of characters used to obtain the radar cross section signature state of the entity of characters used to obtain the radar cross section signature state of the entity of characters used to obtain the radar cross section signature state of the entity of characters used to obtain the characters u	MarkingStruct PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics A unique marking or combination of characters used to distinguish the entity from other entities. Datatype Sharing Ownership Order Transportation RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Whether the entity's power plant is on or not. Datatype Sharing Ownership Order Transportation PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Whether the entity's power plant is on or not. Datatype Sharing Ownership Order Transportation PropulsionSystemDataStructLengthl PS DA RO HLAbestEffort Conditional On change Semantics The basic operating data of the propulsion systems aboard the entity. Datatype Sharing Ownership Order Transportation Integer16 PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Index used to obtain the radar cross section signature state of the entity. Datatype Sharing Ownership Order Transportation HLAbestEffort Update type Update Condition Conditional On change Semantics Index used to obtain the radar cross section signature state of the entity. Datatype Sharing Ownership Order Transportation RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change				

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
TentDeployed	Update type	Update Cond	dition							
Inherited from PhysicalEntity in RPR-	Conditional	On change	•							
Physical_v2.0	Semantics									
	Whether the entity has deployed tent or not.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	TrailingEffectsCodeEnum32	PS	DA	RO	HLAbestEffort					
TrailingEffectsCode	Update type Update Condition									
Inherited from PhysicalEntity in RPR-	Conditional	On change	?							
Physical_v2.0	Semantics	•								
	The type and size of any trail that the entity is making.									
VectoringNozzleSystemData	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	VectoringNozzleSystemDataStructL engthlessArray	PS	DA	RO	HLAbestEffort					
	Update type	Update Cond	dition							
Inherited from PhysicalEntity in RPR- Physical_v2.0	Conditional On change									
	Semantics									
	The basic operational data for the vec	ctoring nozz	le systems d	aboard the	entity.					
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	EntityTypeStruct	PS	DA	RO	HLAbestEffort					
EntityType	Update type	Update Cond	dition							
Inherited from BaseEntity in RPR-Base_v2.0	Static	NA								
, , , , , <u> </u>	Semantics	•								
	The category of the entity.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	EntityIdentifierStruct	PS	DA	RO	HLAbestEffort					
EntityIdentifier	Update type	Update Cond	dition							
Inherited from BaseEntity in RPR-Base_v2.0	Static	NA								
	Semantics									
	The unique identifier for the entity ins	stance.								

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	IsPartOfStruct	PS	DA	RO	HLAbestEffort					
	Update type	Update Cond	dition		1					
IsPartOf	Conditional On change									
Inherited from BaseEntity in RPR-Base_v2.0	Semantics									
	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 HostEntityIdentifier 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.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	SpatialVariantStruct	PS	DA	RO	HLAbestEffort					
Spatial Spatial	Update type Update Condition									
Inherited from BaseEntity in RPR-Base_v2.0	Conditional	On change	RPRnoteBase10) RPRnoteBase	1 RPRnoteBase12 RPRnoteBase13 RPRn	oteBase14				
	Semantics									
	Spatial state stored in one variant record attribute.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	SpatialVariantStruct	PS	DA	RO	HLAbestEffort					
RelativeSpatial	Update type	Update Cond	dition							
Inherited from BaseEntity in RPR-Base v2.0	Conditional	On change	RPRnoteBase10) RPRnoteBase ²	1 RPRnoteBase12 RPRnoteBase13 RPRn	oteBase14				
	Semantics									
	Relative spatial state stored in one va	riant record	l attribute.							
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	HLAtoken	PS	DA	TS	HLAreliable					
HLAprivilegeToDeleteObject	Update type	Update Cond	dition							
Inherited from HLAobjectRoot in MIM	Static	NA								
	Semantics	•								

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:

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	ArrayOfAgentMassStruct	PS	DA	RO	HLAbestEffort						
	Update type	Update Cond	lition		1						
Contamination	Conditional On change										
	Semantics										
	CBRN hazardous agent inside vehicle	CBRN hazardous agent inside vehicle due to embedded units.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	HLAunicodeString	PS		RO	HLAbestEffort						
Callsign	Update type	Update Cond	lition								
Inherited from NETN_SubmersibleVehicle in	Static NA										
NETN-Physical_v1.1.2	Semantics										
	The name of the object.										
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	ActiveStatusEnum8	PS	DA	RO	HLAbestEffort						
Status	Update type	Update Cond	lition								
Inherited from NETN_SubmersibleVehicle in	Conditional	On change									
NETN-Physical_v1.1.2	Semantics	•									
	If an instance shall be taken into acco	ount by fede	rates								
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	AggregateMissionEnum16	PS	DA	RO	HLAbestEffort						
Activity	Update type	Update Cond	lition								
Inherited from NETN_SubmersibleVehicle in NETN-Physical_v1.1.2	Conditional	On change									
NETIV-FNYSICAL_VI.1.2	Semantics										
	The activity of the object.										

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	ArrayOfUuid	PS	DA	RO	HLAbestEffort					
EmbeddedUnitList	Update type	Update Condition								
Inherited from NETN_SubmersibleVehicle in	Conditional On change									
NETN-Physical_v1.1.2	Semantics									
	List of unique IDs of on-board elements									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	UuidArrayOfHLAbyte16	PS		RO	HLAbestEffort					
	Update type Update Condition									
UniqueID	Static NA									
Inherited from NETN_SubmersibleVehicle in NETN-Physical_v1.1.2	Semantics									
	or generated from the Marking or EntityIdentifier									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
AfterburnerOn	Update type	Update Cond	dition							
Inherited from Platform in RPR-Physical_v2.0	Conditional	On change	?							
, , , , , , , , , , , , , , , , , , , ,	Semantics									
	Whether the entity's afterburner is on or not.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
AntiCollisionLightsOn	Update type	Update Cond	dition	•						
C	Conditional On change									
Inherited from Platform in RPR-Physical_v2.0	Conditional									
Inherited from Platform in RPR-Physical_v2.6	Conditional Semantics	On change								

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
BlackOutBrakeLightsOn	Update type	Update Cond	lition							
Inherited from Platform in RPR-Physical_v2.0	Conditional On change									
	Semantics									
	Whether the entity's black out brake lights are on or not.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
BlackOutLightsOn	Update type Update Condition									
Inherited from Platform in RPR-Physical_v2.0	Conditional	On change								
	Semantics									
	Whether the entity's black out lights are on or not.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
BrakeLightsOn [1]	RPRboolean	PS	DA	RO	HLAbestEffort					
	Update type Update Condition									
	Conditional On change									
	Semantics									
	Whether the entity's brake lights are o	Whether the entity's brake lights are on or not.								
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
FormationLightsOn	Update type	Update Cond	lition							
Inherited from Platform in RPR-Physical_v2.0	Conditional	On change								
	Semantics									
	Whether the entity's formation lights of	ire on or no	rt.							
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	HatchStateEnum32	PS	DA	RO	HLAbestEffort					
HatchState	Update type	Update Cond	lition		•	·				
Inherited from Platform in RPR-Physical_v2.0	Conditional	On change								
	Semantics									
	The state of the entity's (main) hatch.									
	The state of the chary's (main) haich.									

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	RPRboolean	PS	DA	RO	HLAbestEffort						
 HeadLightsOn	Update type	Update Cond	lition								
Inherited from Platform in RPR-Physical_v2.0	Conditional	On change									
	Semantics										
	Whether the entity's headlights are on or not.										
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	RPRboolean	PS	DA	RO	HLAbestEffort						
 InteriorLightsOn	Update type Update Condition										
Inherited from Platform in RPR-Physical_v2.0	Conditional	On change									
	Semantics	Semantics									
	Whether the entity's internal lights are on or not.										
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
LandingLightsOn	RPRboolean	PS	DA	RO	HLAbestEffort						
	Update type	Update Cond	lition			·					
	Conditional On change										
	Semantics										
	Whether the entity's landing lights are on or not.										
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	RPRboolean	PS	DA	RO	HLAbestEffort						
LauncherRaised	Update type	Update Cond	lition		•						
Inherited from Platform in RPR-Physical_v2.0	Conditional	On change									
	Semantics										
	Whether the entity's weapon launcher	is in the ra	ised positio	n.							
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	RPRboolean	PS	DA	RO	HLAbestEffort						
NavigationLightsOn	Update type	Update Cond	lition		•	·					
Inherited from Platform in RPR-Physical_v2.0	Conditional	On change									
	Semantics										
	Whether the entity's navigation lights	are on or n	ot.								
	Thener me charge narigation again are on or non										

	D:										
	Datatype RPRboolean	Sharing PS	Ownership DA	Order RO	Transportation HLAbestEffort	Dimensions					
				KO	ILAUESTEHOIT						
RampDeployed	Update type	Update Cond									
Inherited from Platform in RPR-Physical_v2.0	Conditional On change										
	Semantics										
	Whether the entity has deployed a ramp or not.										
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	RPRboolean	PS	DA	RO	HLAbestEffort						
 RunningLightsOn	Update type	Update Cond	lition		•						
Inherited from Platform in RPR-Physical_v2.0	Conditional	On change									
	Semantics										
	Whether the entity's running lights are	e on or not.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
I -	RPRboolean	PS	DA	RO	HLAbestEffort						
	Update type Update Condition										
Inherited from Platform in RPR-Physical_v2.0	Conditional On change										
	Semantics										
	Whether the entity's spotlights are on or not.										
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	RPRboolean	PS	DA	RO	HLAbestEffort						
 TailLightsOn	Update type	Update Cond	lition	•							
Inherited from Platform in RPR-Physical_v2.0	Conditional	On change									
	Semantics	•									
	Whether the entity's tail lights are on	or not.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	Integer16	PS	DA	RO	HLAbestEffort						
AcousticSignatureIndex	Update type	Update Condition									
Inherited from PhysicalEntity in RPR-	Conditional	On change									
Physical_v2.0	Semantics										
	Index used to obtain the acoustics (so	Index used to obtain the acoustics (sound through air) signature state of the entity.									

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	EntityTypeStruct	PS	DA	RO	HLAbestEffort					
AlternateEntityType	Update type	Update Cond	lition	ı						
Inherited from PhysicalEntity in RPR-	Static	NA								
Physical_v2.0	Semantics									
	The category of entity to be used when viewed by entities on the 'opposite' side.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	ArticulatedParameterStructLengthles sArray	PS	DA	RO	HLAbestEffort					
ArticulatedParametersArray	Update type	te type Update Condition								
Inherited from PhysicalEntity in RPR- Physical_v2.0	Conditional On change									
	Semantics									
	Identification of the visible parts, and their states, of the entity which are capable of independent motion.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	CamouflageEnum32	PS	DA	RO	HLAbestEffort					
CamouflageType	Update type Update Condition									
Inherited from PhysicalEntity in RPR- Physical_v2.0	Conditional On change									
Fnysicat_v2.0	Semantics									
	The type of camouflage in use (if any)									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	DamageStatusEnum32	PS	DA	RO	HLAbestEffort					
DamageState	Update type	Update Cond	lition							
Inherited from PhysicalEntity in RPR-	Conditional	On change								
Physical_v2.0	Semantics									
	The state of damage of the entity.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
EngineSmokeOn	Update type	Update Condition								
Inherited from PhysicalEntity in RPR-	Conditional	On change	!							
Physical_v2.0	Semantics									
	Whether the entity's engine is generat	ing smoke o	or not.							

	Datatype Sharing Ownership Order Transportation Dimensions									
	Datatype	<u> </u>	•		<u> </u>	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
FirePowerDisabled	Update type	Update Condition								
Inherited from PhysicalEntity in RPR- Physical v2.0	Conditional	On change	2							
Thysical_v2.0	Semantics									
	Whether the entity's main weapon system has been disabled or not.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
FlamesPresent	Update type	Update Con	dition		·					
Inherited from PhysicalEntity in RPR-	Conditional	On change	2							
Physical_v2.0	Semantics	Semantics								
	Whether the entity is on fire (with vis	Whether the entity is on fire (with visible flames) or not.								
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	ForceIdentifierEnum8	PS DA RO HLAbestEffort								
ForceIdentifier	Update type	Update Con	dition							
Inherited from PhysicalEntity in RPR- Physical_v2.0	Conditional On change									
T hysical_v2.0	Semantics									
	The identification of the force that the	e entity belo	ongs to.							
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
HasAmmunitionSupplyCap	Update type	Update Con	dition		•					
Inherited from PhysicalEntity in RPR-	Conditional	On change	ę							
Physical_v2.0	Semantics									
	Whether the entity has the capability	to supply of	ther entities	with amm	unition.					
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS								
HasFuelSupplyCap	Update type	Update Condition								
Inherited from PhysicalEntity in RPR-	Conditional	On change	2							
Physical_v2.0	Semantics									
	Whether the entity has the capability	to supply of	ther entities	with fuel o	or not.					
	Thener he char, has the capability to supply other charles wan fact of hor									

RPRboolean PS DA RO HLAbestEffort		Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
Description Physical Entity in RPR Semantics Whether the entity has the capability to recover other entities or not.		RPRboolean	PS	DA	RO	HLAbestEffort						
Semantics Whether the entity has the capability to recover other entities or not.	HasRecoveryCap	Update type	Update Con	dition								
Semantics Whether the entity has the capability to recover other entities or not.	Inherited from PhysicalEntity in RPR-	Conditional On change										
Datatype Sharing Ownership Order Transportation Dimensions	Physical_vz.0	Semantics										
RPRoolean PS DA RO HLAbestEffort Inherited from PhysicalEntity in RPR-Physical from Physical from Physic		Whether the entity has the capability to recover other entities or not.										
HasRepairCap Update type Update Condition On change		Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
Conditional Concisional		RPRboolean	PS	DA	RO	HLAbestEffort						
Physical_v2.0 Semantics	HasRepairCap	Update type	Update Con	dition	1							
Semantics Whether the entity has the capability to repair other entities or not.		Conditional	On change	?								
Datatype Sharing Ownership Order Transportation Dimensions	Physical_v2.0	Semantics										
RPRboolean PS DA RO HLAbestEffort		Whether the entity has the capability to repair other entities or not.										
Immobilized Update type Update Condition		Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
Inherited from Physical_v2.0 Conditional On change Semantics Whether the entity is immobilized or not. InfraredSignatureIndex Inherited from PhysicalEntity in RPR- Physical_v2.0 Integer 16 PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Index used to obtain the infra-red signature state of the entity. Is Concealed Inherited from PhysicalEntity in RPR- Physical_v2.0 Conditional On change Semantics Index used to obtain the infra-red signature state of the entity. Is Concealed Inherited from PhysicalEntity in RPR- Physical_v2.0 Conditional On change		RPRboolean	PS	DA	RO	HLAbestEffort						
Semantics Whether the entity is immobilized or not.	Immobilized	Update type	Update Con	dition	•	•						
Semantics Whether the entity is immobilized or not.		Conditional On change										
Datatype Sharing Ownership Order Transportation Dimensions	Frystcat_v2.0	Semantics										
InferredSignatureIndex Inherited from PhysicalEntity in RPR- Physical_v2.0 Inherited from PhysicalEntity in RPR- Physical_v2.0 Index used to obtain the infra-red signature state of the entity. Index used to obtain the infra-red signature state of the entity. Index used to obtain the infra-red signature state of the entity. Index used to obtain the infra-red signature state of the entity. Index used to obtain the infra-red signature state of the entity. Index used to obtain the infra-red signature state of the entity. Index used to obtain the infra-red signature state of the entity. Index used to obtain the infra-red signature state of the entity. Index used to obtain the infra-red signature state of the entity. Index used to obtain the infra-red signature state of the entity. Index used to obtain the infra-red signature state of the entity. Index used to obtain the infra-red signature state of the entity. Index used to obtain the infra-red signature state of the entity. Index used to obtain the infra-red signature state of the entity. Index used to obtain the infra-red signature state of the entity. Index used to obtain the infra-red signature state of the entity. Index used to obtain the infra-red signature state of the entity. Index used to obtain the infra-red signature state of the entity. Index used to obtain the infra-red signature state of the entity. Index used to obtain the infra-red signature state of the entity. Index used to obtain the infra-red signature state of the entity.		Whether the entity is immobilized or i	Whether the entity is immobilized or not.									
InfraredSignatureIndex Inherited from PhysicalEntity in RPR- Physical_v2.0 Conditional On change Semantics Index used to obtain the infra-red signature state of the entity. Datatype RPRboolean PS DA RO HLAbestEffort IsConcealed Inherited from PhysicalEntity in RPR- Physical_v2.0 Conditional On change Update type Update Condition On change Conditional On change		Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
Inherited from PhysicalEntity in RPR- Physical_v2.0 Conditional On change Index used to obtain the infra-red signature state of the entity. Datatype RPR boolean PS DA RO HLAbestEffort Inherited from PhysicalEntity in RPR- Physical_v2.0 Conditional On change		Integer16	PS	DA	RO	HLAbestEffort						
Physical_v2.0 Semantics Index used to obtain the infra-red signature state of the entity. Datatype RPRboolean RPRboolean RPS DA RO HLAbestEffort Inherited from PhysicalEntity in RPR-Physical_v2.0 Conditional On change	InfraredSignatureIndex	Update type	Update Con	dition								
Semantics Index used to obtain the infra-red signature state of the entity.		Conditional	On change	?								
Datatype Sharing Ownership Order Transportation Dimensions	Physical_v2.0	Semantics	•									
RPRboolean PS DA RO HLAbestEffort IsConcealed Update type Update Condition Inherited from PhysicalEntity in RPR- Physical_v2.0 Conditional On change		Index used to obtain the infra-red sign	nature state	of the entit	y.							
IsConcealed Update type Update Condition Inherited from PhysicalEntity in RPR- Physical_v2.0 Conditional On change		Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
Inherited from PhysicalEntity in RPR- Physical_v2.0 Conditional On change		RPRboolean	PS	DA	RO	HLAbestEffort						
Physical_v2.0	IsConcealed	Update type	Update Condition									
Frysical_v2.0		Conditional	On change	?								
	F Hysicai_v2.0	Semantics										
Whether the entity is concealed or not.		Whether the entity is concealed or no	t.									

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	VelocityDecimeterPerSecondInteger 16	PS	DA	RO	HLAbestEffort					
LiveEntityMeasuredSpeed	Update type	Update Cond	lition	•						
Inherited from PhysicalEntity in RPR- Physical_v2.0	Conditional On change									
, _	Semantics									
	The entity's own measurement of speed (e.g. air speed for aircraft).									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	MarkingStruct	PS	DA	RO	HLAbestEffort					
Marking	Update type	Update type Update Condition								
Inherited from PhysicalEntity in RPR-	Conditional	On change								
Physical_v2.0	Semantics									
	A unique marking or combination of c	haracters u	ised to disti	nguish the	entity from other entities.					
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
PowerPlantOn	Update type	Update Cond	lition							
Inherited from PhysicalEntity in RPR- Physical v2.0	Conditional On change									
Fnystcat_v2.0	Semantics									
	Whether the entity's power plant is on or not.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	PropulsionSystemDataStructLengthl essArray	PS	DA	RO	HLAbestEffort					
PropulsionSystemsData	Update type	Update Cond	lition							
Inherited from PhysicalEntity in RPR- Physical_v2.0	Conditional	On change								
	Semantics									
	The basic operating data of the propu	lsion systen	ns aboard ti	he entity.						
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	Integer16	PS DA RO HLAbestEffort								
RadarCrossSectionSignatureIndex	Update type	Update Condition								
Inherited from PhysicalEntity in RPR-	Conditional	On change	<u>. </u>							
Physical_v2.0	Semantics									
	Index used to obtain the radar cross s	ection signa	ature state o	of the $$	······································					

PRboolean	DC	Datatype Sharing Ownership Order Transportation Dimensions									
	PS	DA	RO	HLAbestEffort							
pdate type	Update Cond	lition	•	•							
onditional	On change										
Semantics											
hether the entity is generating smoke	e or not (int	tentional or	unintentio	nal).							
atatype	Sharing	Ownership	Order	Transportation	Dimensions						
PRboolean	PS	DA	RO	HLAbestEffort							
pdate type	Update Cond	lition									
onditional	On change										
emantics											
Whether the entity has deployed tent or not.											
atatype	Sharing	Ownership	Order	Transportation	Dimensions						
railingEffectsCodeEnum32	PS	DA	RO	HLAbestEffort							
pdate type	Update Cond	lition									
Conditional On change											
Semantics											
The type and size of any trail that the entity is making.											
atatype	Sharing	Ownership	Order	Transportation	Dimensions						
ectoringNozzleSystemDataStructLngthlessArray	PS	DA	RO	HLAbestEffort							
pdate type	Update Cond	lition	•								
onditional	On change										
emantics											
he basic operational data for the vec	toring nozz	le systems o	board the	entity.							
atatype	Sharing	Ownership	Order	Transportation	Dimensions						
ntityTypeStruct	PS	DA	RO	HLAbestEffort							
Update type Update Condition											
Static NA											
emantics											
he category of the entity.											
The property of the property o	hether the entity is generating smoke tatype PRboolean date type onditional mantics hether the entity has deployed tent of tatype ailing Effects Code Enum 32 date type onditional mantics he type and size of any trail that the electoring Nozzle System Data Struct Lightless Array date type onditional mantics he basic operational data for the vectority Type Struct date type attic mantics	tatype Sharing PRoolean PS date type Update Cond conditional On change mantics thether the entity has deployed tent or not. tatype Sharing calling Effects Code Enum 32 PS date type Update Cond conditional On change mantics the type And size of any trail that the entity is mantatype Sharing cattype Sharing cettoring Nozzle System Data Struct L conditional On change	mantics the there the entity is generating smoke or not (intentional or tatype	mantics thether the entity is generating smoke or not (intentional or unintention tatype PRoolean PS DA RO date type Update Condition On change mantics thether the entity has deployed tent or not. tatype Sharing Ownership Order ARO date type Update Condition On change mantics the type and size of any trail that the entity is making. tatype Sharing Ownership Order DA RO date type Update Condition On change mantics the type and size of any trail that the entity is making. tatype Sharing Ownership Order DA RO Update Condition On change mantics the type and size of any trail that the entity is making. tatype Update Condition On change mantics the basic operational data for the vectoring nozzle systems aboard the statype tatype Sharing Ownership Order DA RO Update Condition On change mantics The basic operational data for the vectoring nozzle systems aboard the statype Update Condition Order Update Condition	mantics the there the entity is generating smoke or not (intentional or unintentional). tatatype Sharing Ownership Order Transportation PS DA RO HLAbestEffort date type Update Condition mantics the there the entity has deployed tent or not. tatype Sharing Ownership Order Transportation allingEffectsCodeEnum32 PS DA RO HLAbestEffort date type Update Condition mantics the type and size of any trail that the entity is making. tatype Sharing Ownership Order Transportation mantics to type and size of any trail that the entity is making. tatype Staring Ownership Order Transportation mantics to type and size of any trail that the entity is making. tatype Update Condition On change mantics to type and size of any trail that the entity is making. tatype Update Condition On change mantics to basic operational data for the vectoring nozzle systems aboard the entity. tatype Sharing Ownership Order Transportation Transportation HLAbestEffort MA MA MA MA MA MA Mantics						

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	EntityIdentifierStruct	PS	DA	RO	HLAbestEffort					
EntityIdentifier	Update type	Update Con	dition							
Inherited from BaseEntity in RPR-Base_v2.0	Static NA									
	Semantics									
	The unique identifier for the entity instance.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	IsPartOfStruct	PS	DA	RO	HLAbestEffort					
	Update type Update Condition									
IsPartOf	Conditional On change									
Inherited from BaseEntity in RPR-Base_v2.0	Semantics									
	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.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	SpatialVariantStruct	PS	DA	RO	HLAbestEffort					
Spatial	Update type	Update Con	dition							
Inherited from BaseEntity in RPR-Base_v2.0	Conditional	On change	RPRnoteBase1	0 RPRnoteBase	e11 RPRnoteBase12 RPRnoteBase13 RPRn	noteBase14				
	Semantics	•								
	Spatial state stored in one variant rec	ord attribu	te.							
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	SpatialVariantStruct	PS	DA	RO	HLAbestEffort					
RelativeSpatial	Update type	Update Con								
Inherited from BaseEntity in RPR-Base_v2.0	Conditional	On change	RPRnoteBase1	0 RPRnoteBase	e11 RPRnoteBase12 RPRnoteBase13 RPRn	noteBase14				
	Semantics									
	Relative spatial state stored in one va	riant record	d attribute.							

HLAprivilegeToDeleteObject Inherited from HLAobjectRoot in MIM	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	HLAtoken	PS	DA	TS	HLAreliable					
	Update type	Update Condition								
	Static	atic 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:

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	<u>ArrayOfAgentMassStruct</u>	PS	DA	RO	HLAbestEffort						
	Update type	Update Condition									
Contamination	Conditional On change										
	Semantics										
	CBRN hazardous agent inside vehicle	e due to emb	pedded units	7.							
	Datatype Sharing Ownership Order Transportation Dimensions										
	HLAunicodeString	PS		RO	HLAbestEffort						
Callsign	Update type	Update Condition									
Inherited from NETN_SurfaceVessel in NETN-Physical_v1.1.2	Static NA										
NETN-Fnysical_v1.1.2	Semantics										
	The name of the object.										
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	ActiveStatusEnum8	PS	DA	RO	HLAbestEffort						
Status	Update type	Update Con	dition								
Inherited from NETN_SurfaceVessel in NETN-Physical_v1.1.2 Conditional On change											
NETN-Fnysical_v1.1.2	Semantics										
	If an instance shall be taken into acco	ount by fede	rates								

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	AggregateMissionEnum16	PS	DA	RO	HLAbestEffort						
Activity	Update type	Update Con	Update Condition								
Inherited from NETN_SurfaceVessel in	Conditional On change										
NETN-Physical_v1.1.2	Semantics										
	The activity of the object.										
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	<u>ArrayOfUuid</u>	PS	DA	RO	HLAbestEffort						
EmbeddedUnitList	Update type	Update Condition									
Inherited from NETN_SurfaceVessel in NETN-Physical_v1.1.2	Conditional	On change	?								
INETIV-1 hysical_v1.1.2	Semantics										
	List of unique IDs of on-board elements										
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	<u>UuidArrayOfHLAbyte16</u>	PS		RO	HLAbestEffort						
	Update type	Update Con	dition								
UniqueID	Static	NA									
Inherited from NETN_SurfaceVessel in NETN-Physical_v1.1.2	Semantics										
NEIN-Physical_v1.1.2	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.										
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	RPRboolean	PS	DA	RO	HLAbestEffort						
AfterburnerOn	Update type	Update Con	dition								
Inherited from Platform in RPR-Physical_v2.0	Conditional On change										
	Semantics										
	Whether the entity's afterburner is on	or not.									

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	RPRboolean	PS	DA	RO	HLAbestEffort						
AntiCollisionLightsOn	Update type	Update Cond	lition								
Inherited from Platform in RPR-Physical_v2.0	Conditional On change										
	Semantics										
	Whether the entity's anti-collision lights are on or not.										
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	RPRboolean	PS	DA	RO	HLAbestEffort						
BlackOutBrakeLightsOn	Update type	Update Cond	lition		•	·					
Inherited from Platform in RPR-Physical_v2.0	Conditional	On change									
	Semantics										
	Whether the entity's black out brake lights are on or not.										
	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 lights are on or not.										
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	RPRboolean	PS	DA	RO	HLAbestEffort						
BrakeLightsOn	Update type	Update Cond	lition		•						
Inherited from Platform in RPR-Physical_v2.0	Conditional	On change									
	Semantics										
	Whether the entity's brake lights are o	on or not.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	RPRboolean	PS	DA	RO	HLAbestEffort						
FormationLightsOn	Update type	Update Cond	lition		•	·					
Inherited from Platform in RPR-Physical_v2.0	Conditional	On change									
	Semantics										
	Whether the entity's formation lights of	are on or no	t.								
	Thener the charge government ugins will be on or non										

Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
HatchStateEnum32	PS	DA	RO	HLAbestEffort						
Update type	Update Cond	lition								
Conditional	On change									
Semantics										
The state of the entity's (main) hatch.										
Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
RPRboolean	PS	DA	RO	HLAbestEffort						
Update type	Update Cond	lition								
Conditional	On change									
demantics demantics										
Whether the entity's headlights are on or not.										
Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
RPRboolean	PS	DA	RO	HLAbestEffort						
Update type Update Condition										
Conditional On change										
Semantics										
Whether the entity's internal lights are on or not.										
Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
RPRboolean	PS	DA	RO	HLAbestEffort						
Update type	Update Cond	lition								
Conditional	On change									
Semantics										
Whether the entity's landing lights are	on or not.									
Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
RPRboolean	PS	DA	RO	HLAbestEffort						
Update type	Update Cond	lition	•							
Conditional	On change									
Semantics	•									
Whether the entity's weapon launcher	is in the ra	ised positio	n.							
	HatchStateEnum32 Update type Conditional Semantics The state of the entity's (main) hatch. Datatype RPRboolean Update type Conditional Semantics Whether the entity's headlights are on Datatype RPRboolean Update type Conditional Semantics Whether the entity's internal lights are Datatype RPRboolean Update type Conditional Semantics Whether the entity's internal lights are Datatype RPRboolean Update type Conditional Semantics Whether the entity's landing lights are Datatype RPRboolean Update type Conditional Semantics Whether the entity's landing lights are Datatype RPRboolean Update type Conditional Semantics	HatchStateEnum32 PS Update type Update Cond Conditional On change Semantics The state of the entity's (main) hatch. Datatype Sharing RPRboolean PS Update type Update Cond Conditional On change Semantics Whether the entity's headlights are on or not. Datatype Sharing RPRboolean PS Update type Update Cond Conditional On change Semantics Whether the entity's internal lights are on or not. Datatype Sharing RPRboolean PS Update type Update Cond Conditional On change Semantics Whether the entity's internal lights are on or not. Datatype Sharing RPRboolean PS Update type Update Cond Conditional On change Semantics Whether the entity's landing lights are on or not. Datatype Sharing RPRboolean PS Update type Update Cond Conditional On change RPRboolean PS Update type Update Cond Conditional On change RPRboolean PS Update type Update Cond Conditional On change RPRboolean PS Update type Update Cond Conditional On change Semantics	HatchStateEnum32 PS DA Update type Update Condition Conditional On change Semantics The state of the entity's (main) hatch. Datatype Sharing Ownership RPRboolean PS DA Update type Update Condition Conditional On change Semantics Whether the entity's headlights are on or not. Datatype Sharing Ownership RPRboolean PS DA Update type Update Condition Conditional On change Semantics Whether the entity's internal lights are on or not. Datatype Sharing Ownership RPRboolean PS DA Update type Update Condition Conditional On change Semantics Whether the entity's internal lights are on or not. Datatype Sharing Ownership RPRboolean PS DA Update type Update Condition Conditional On change Semantics Whether the entity's landing lights are on or not. Datatype Sharing Ownership RPRboolean PS DA Update Conditional On change Semantics Whether the entity's landing lights are on or not. Datatype Sharing Ownership RPRboolean PS DA Update type Update Condition Conditional On change	HatchStateEnum32 PS DA RO Update type Update Condition Conditional On change Semantics The state of the entity's (main) hatch. Datatype Sharing Ownership Order RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics Whether the entity's headlights are on or not. Datatype Sharing Ownership Order RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics Whether the entity's headlights are on or not. Datatype Sharing Ownership Order RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics Whether the entity's internal lights are on or not. Datatype Sharing Ownership Order RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics Whether the entity's landing lights are on or not. Datatype Sharing Ownership Order RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics Whether the entity's landing lights are on or not. Datatype Sharing Ownership Order RPRboolean PS DA RO Update type Update Condition Conditional On change	HatchStateEnum32 PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics The state of the entity's (main) hatch. Datatype Sharing Ownership Order Transportation RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Whether the entity's headlights are on or not. Datatype Sharing Ownership Order Transportation RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Whether the entity's headlights are on or not. Datatype Sharing Ownership Order Transportation RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Whether the entity's internal lights are on or not. Datatype Sharing Ownership Order Transportation RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Whether the entity's landing lights are on or not. Datatype Sharing Ownership Order Transportation RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Whether the entity's landing lights are on or not. Datatype Sharing Ownership Order Transportation RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics					

Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
RPRboolean	PS	DA	RO	HLAbestEffort				
Update type	Update Condition							
Conditional	On change							
Semantics Whether the entity's navigation lights are on or not.								
RPRboolean	PS	DA	RO	HLAbestEffort				
Update type	Update Condition							
Conditional	onditional On change							
Inherited from Platform in RPR-Physical_v2.0 Conditional On Change Semantics								
Whether the entity has deployed a ramp or not.								
Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
RPRboolean	PS	DA	RO	HLAbestEffort				
Update type	Update Condition							
Conditional On change								
Semantics								
Whether the entity's running lights are on or not.								
Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
RPRboolean	PS	DA	RO	HLAbestEffort				
Update type	Update Condition							
Conditional On change								
Semantics								
Whether the entity's spotlights are on or not.								
Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
RPRboolean	PS	DA	RO	HLAbestEffort				
Update type	Update Condition							
TailLightsOn Inherited from Platform in RPR-Physical_v2.0 Semantics Update type Update Condition								
								Whether the entity's tail lights are on
	RPRboolean Update type Conditional Semantics Whether the entity's navigation lights Datatype RPRboolean Update type Conditional Semantics Whether the entity has deployed a ran Datatype RPRboolean Update type Conditional Semantics Whether the entity's running lights are Datatype RPRboolean Update type Conditional Semantics Whether the entity's running lights are Datatype RPRboolean Update type Conditional Semantics Whether the entity's spotlights are on Datatype RPRboolean Update type Conditional Semantics Whether the entity's spotlights are on Datatype RPRboolean Update type Conditional Semantics	RPRboolean PS Update type Update Conditional On change Semantics Whether the entity's navigation lights are on or not not patatype Sharing RPRboolean PS Update type Update Conditional On change Semantics Whether the entity has deployed a ramp or not. Datatype Sharing RPRboolean PS Update type Update Conditional On change Semantics Whether the entity has deployed a ramp or not. Datatype Sharing RPRboolean PS Update type Update Conditional On change Semantics Whether the entity's running lights are on or not. Datatype Sharing RPRboolean PS Update type Update Conditional On change Semantics Whether the entity's spotlights are on or not. Datatype Sharing RPRboolean PS Update type Update Conditional On change Semantics Whether the entity's spotlights are on or not. Datatype Sharing RPRboolean PS Update type Update Conditional On change RPRboolean PS Update type Update Conditional On change	RPRboolean PS DA Update type Update Condition Conditional On change Semantics Whether the entity's navigation lights are on or not. Datatype Sharing Ownership RPRboolean PS DA Update type Update Condition Conditional On change Semantics Whether the entity has deployed a ramp or not. Datatype Sharing Ownership RPRboolean PS DA Update type Update Condition Conditional On change Semantics Whether the entity has deployed a ramp or not. Datatype Sharing Ownership RPRboolean PS DA Update type Update Condition Conditional On change Semantics Whether the entity's running lights are on or not. Datatype Sharing Ownership RPRboolean PS DA Update type Update Condition Conditional On change Semantics Whether the entity's spotlights are on or not. Datatype Sharing Ownership RPRboolean PS DA Update type Update Condition Conditional On change Semantics Whether the entity's spotlights are on or not. Datatype Sharing Ownership RPRboolean PS DA Update type Update Condition Conditional On change Semantics	RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics Whether the entity's navigation lights are on or not. Datatype Sharing Ownership Order RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics Whether the entity has deployed a ramp or not. Datatype Sharing Ownership Order RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics Whether the entity has deployed a ramp or not. Datatype Sharing Ownership Order RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics Whether the entity's running lights are on or not. Datatype Sharing Ownership Order RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics Whether the entity's spotlights are on or not. Datatype Sharing Ownership Order RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics Whether the entity's spotlights are on or not. Datatype Sharing Ownership Order RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics Whether the entity's spotlights are on or not. Datatype Sharing Ownership Order RPRboolean PS DA RO Update type Update Condition Conditional On change	RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Whether the entity's navigation lights are on or not. Datatype Sharing Ownership Order Transportation Update type Update Condition Conditional On change Semantics Whether the entity has deployed a ramp or not. Datatype Sharing Ownership Order Transportation RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Whether the entity has deployed a ramp or not. Datatype Sharing Ownership Order Transportation RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Whether the entity's running lights are on or not. Datatype Sharing Ownership Order Transportation RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Whether the entity's spotlights are on or not. Datatype Update Condition Conditional On change Semantics Whether the entity's spotlights are on or not. Datatype Sharing Ownership Order Transportation RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Whether the entity's spotlights are on or not. Datatype Sharing Ownership Order Transportation RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics			

Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
Integer16	PS	DA	RO	HLAbestEffort					
Update type	Update Condition								
Conditional	On change								
Semantics									
Index used to obtain the acoustics (sound through air) signature state of the entity.									
Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
EntityTypeStruct	PS	DA	RO	HLAbestEffort					
Update type	Update Condition								
Static	NA NA								
Semantics									
The category of entity to be used when viewed by entities on the 'opposite' side.									
Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
ArticulatedParameterStructLengthles sArray	PS	DA	RO	HLAbestEffort					
Update type	Update Condition								
Conditional On change									
Semantics									
Identification of the visible parts, and their states, of the entity which are capable of independent motion.									
Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
CamouflageEnum32	PS	DA	RO	HLAbestEffort					
Update type	Update Condition								
Conditional	On change								
emantics									
The type of camouflage in use (if any).									
Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
DamageStatusEnum32	PS	DA	RO	HLAbestEffort					
Update type	Update Condition								
Conditional	On change								
Semantics									
The state of damage of the entity.									
	Integer16 Update type Conditional Semantics Index used to obtain the acoustics (so Datatype EntityTypeStruct Update type Static Semantics The category of entity to be used when Datatype ArticulatedParameterStructLengthles sArray Update type Conditional Semantics Identification of the visible parts, and Datatype CamouflageEnum32 Update type Conditional Semantics The type of camouflage in use (if any) Datatype DamageStatusEnum32 Update type Conditional Semantics The type of camouflage in use (if any) Datatype DamageStatusEnum32 Update type Conditional Semantics	Integer16 Update type Update Conditional On change Semantics Index used to obtain the acoustics (sound through Datatype EntityTypeStruct PS Update type Update Cond Static NA Semantics The category of entity to be used when viewed by Datatype ArticulatedParameterStructLengthles sArray Update type Update type Update Cond Conditional On change Semantics Identification of the visible parts, and their states Datatype CamouflageEnum32 PS Update type Update Cond Conditional On change Semantics The type of camouflage in use (if any). Datatype Sharing DamageStatusEnum32 PS Update type Update Cond Conditional On change Semantics The type of camouflage in use (if any). Datatype DamageStatusEnum32 PS Update type Update Cond Conditional On change Semantics The type of camouflage in use (if any). Datatype DamageStatusEnum32 PS Update type Update Cond Conditional On change Semantics	Integer16 PS DA Update type Update Condition Conditional On change Semantics Index used to obtain the acoustics (sound through air) signal obtatype EntityTypeStruct PS DA Update type Update Condition Static NA Semantics The category of entity to be used when viewed by entities on Datatype Sharing Ownership ArticulatedParameterStructLengthles PS DA Update type Update Condition Conditional On change Semantics Identification of the visible parts, and their states, of the entity Datatype Sharing Ownership CamouflageEnum32 PS DA Update Condition Conditional On change Semantics The type of camouflage in use (if any). Datatype Sharing Ownership DamageStatusEnum32 PS DA Update Condition Conditional On change Semantics The type of camouflage in use (if any). Datatype Sharing Ownership DamageStatusEnum32 PS DA Update Condition Conditional On change Semantics The type of camouflage in use (if any). Datatype Sharing Ownership DamageStatusEnum32 PS DA Update Condition Conditional On change	Integer16 PS DA RO Update type Update Condition Conditional On change Semantics Index used to obtain the acoustics (sound through air) signature state of the state of the property of the	Integer16 PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Index used to obtain the acoustics (sound through air) signature state of the entity. Datatype Sharing Ownership Order Transportation EntityTypeStruct PS DA RO HLAbestEffort Update type Update Condition Static NA Semantics The category of entity to be used when viewed by entities on the 'opposite' side. Datatype Sharing Ownership Order Transportation ArticulatedParameterStructLengthles PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Identification of the visible parts, and their states, of the entity which are capable of independent of the condition of the visible parts, and their states, of the entity which are capable of independent of the condition of the visible parts, and their states, of the entity which are capable of independent of the visible parts, and their states, of the entity which are capable of independent of the type Update type Update Condition CamouflageEnum32 PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics The type of camouflage in use (if any). Datatype Sharing Ownership Order Transportation DamageStatusEnum32 PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics The type of camouflage in use (if any). Datatype Sharing Ownership Order Transportation DamageStatusEnum32 PS DA RO HLAbestEffort Update type Update Condition Conditional On change				

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	RPRboolean	PS	DA	RO	HLAbestEffort						
EngineSmokeOn	Update type	Update Cond	dition								
Inherited from PhysicalEntity in RPR-	Conditional On change										
Physical_v2.0	Semantics	Semantics									
	Whether the entity's engine is general	ing smoke o	or not.								
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	RPRboolean	PS	DA	RO	HLAbestEffort						
FirePowerDisabled	Update type	Update Condition									
Inherited from PhysicalEntity in RPR-	Conditional On change										
Physical_v2.0	Whether the entity's main weapon system has been disabled or not.										
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	RPRboolean	PS	DA	RO	HLAbestEffort						
FlamesPresent	Update type	Update Cond	dition								
Inherited from PhysicalEntity in RPR- Physical_v2.0	Conditional On change										
Frysicai_v2.0	Semantics										
	Whether the entity is on fire (with visible flames) or not.										
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	ForceIdentifierEnum8	PS	DA	RO	HLAbestEffort						
ForceIdentifier	Update type	Update Cond	dition		•						
Inherited from PhysicalEntity in RPR-	Conditional	On change	?								
Physical_v2.0	Semantics										
	The identification of the force that the	entity belo	ngs to.								
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	RPRboolean	PS	DA	RO	HLAbestEffort						
HasAmmunitionSupplyCap	Update type	Update Cond	dition	•							
Inherited from PhysicalEntity in RPR-	Conditional	On change	?								
Physical_v2.0	Semantics										
	Whether the entity has the capability	to supply ot	her entities	with amm	unition.						

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

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
IsConcealed	Update type	Update Con	dition							
Inherited from PhysicalEntity in RPR-	Conditional	On change	ę							
Physical_v2.0	Semantics									
	Whether the entity is concealed or not.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	VelocityDecimeterPerSecondInteger 16	PS	DA	RO	HLAbestEffort					
LiveEntityMeasuredSpeed	Update type Update Condition									
Inherited from PhysicalEntity in RPR- Physical_v2.0	Conditional	On change	ę							
	Semantics									
The entity's own measurement of speed (e.g. air speed for aircraft).										
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	MarkingStruct	PS	DA	RO	HLAbestEffort					
Marking	Update type Update Condition									
nherited from PhysicalEntity in RPR- Physical_v2.0	Conditional On change									
Thysical_v2.0	Semantics									
	A unique marking or combination of characters used to distinguish the entity from other entities.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
PowerPlantOn	Update type	Update Con	dition							
Inherited from PhysicalEntity in RPR- Physical_v2.0	Conditional	On change	2							
Thysical_v2.0	Semantics									
	Whether the entity's power plant is on	or not.								
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	PropulsionSystemDataStructLengthl essArray	PS	DA	RO	HLAbestEffort					
PropulsionSystemsData	Update type	Update Con	dition							
Inherited from PhysicalEntity in RPR- Physical_v2.0	Conditional	On change	2							
	Semantics									
	The basic operating data of the propu	lsion syster	ns aboard ti	he entity.						

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	Integer16	PS	DA	RO	HLAbestEffort					
RadarCrossSectionSignatureIndex	Update type	Update Con	dition	•						
Inherited from PhysicalEntity in RPR-	Conditional	On change	?							
Physical_v2.0	Semantics									
	Index used to obtain the radar cross section signature state of the entity.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
SmokePlumePresent	Update type Update Condition									
Inherited from PhysicalEntity in RPR-	Conditional On change									
Physical_v2.0	Semantics									
	Whether the entity is generating smok	e or not (in	tentional or	unintentio	onal).					
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
TentDeployed	Update type Update Condition									
Physical_v2.0	Conditional On change									
	Semantics									
	Whether the entity has deployed tent or not.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	TrailingEffectsCodeEnum32	PS	DA	RO	HLAbestEffort					
TrailingEffectsCode	Update type	Update Con	dition		•	·				
Inherited from PhysicalEntity in RPR-	Conditional	On change	?							
Physical_v2.0	Semantics	•								
	The type and size of any trail that the	entity is ma	ıking.							
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	VectoringNozzleSystemDataStructL engthlessArray	PS	DA	RO	HLAbestEffort					
VectoringNozzleSystemData	Update type	Update Con	dition	•	,					
Inherited from PhysicalEntity in RPR- Physical_v2.0	Conditional	On change	?							
	Semantics									
	The basic operational data for the vec	ctoring nozz	gle systems o	aboard the	entity.					
	The basic operational data for the vectoring nozzie systems about a the entity.									

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	EntityTypeStruct	PS	DA	RO	HLAbestEffort						
EntityType	Update type	Update Con	dition		·						
Inherited from BaseEntity in RPR-Base_v2.0	Static	atic NA									
	Semantics										
	The category of the entity.										
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	EntityIdentifierStruct	PS	DA	RO	HLAbestEffort						
EntityIdentifier	Update type Update Condition										
Inherited from BaseEntity in RPR-Base_v2.0	Static NA										
	Semantics										
	The unique identifier for the entity in:	The unique identifier for the entity instance.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	IsPartOfStruct	PS	DA	RO	HLAbestEffort						
	Update type	Update Con	dition								
IsPartOf	Conditional	On change	e								
Inherited from BaseEntity in RPR-Base_v2.0	Semantics	•									
	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 HostEntityIdentifier 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.										
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	SpatialVariantStruct	PS	DA	RO	HLAbestEffort						
Spatial	Update type	Update Con	dition								
Inherited from BaseEntity in RPR-Base_v2.0	Conditional	On change	e RPRnoteBase1	0 RPRnoteBas	se11 RPRnoteBase12 RPRnoteBase13 RPR	noteBase14					
	Semantics		-								
	Spatial state stored in one variant red	cord attribu	te.								

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
RelativeSpatial Inherited from BaseEntity in RPR-Base_v2.0	SpatialVariantStruct	PS	DA	RO	HLAbestEffort						
	Update type	Update Cond	Update Condition								
	Conditional	On change	RPRnoteBase10	RPRnoteBase1	1 RPRnoteBase12 RPRnoteBase13 RPRn	oteBase14					
	Semantics										
	Relative spatial state stored in one variant record attribute.										
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	HLAtoken	PS	DA	TS	HLAreliable						
HLAprivilegeToDeleteObject	Update type	Update Cond	lition								
Inherited from HLAobjectRoot in MIM	Static	NA									
ů ů	Semantics	Semantics									

9.1.12. CBRN_Detector

HLAobjectRoot.BaseEntity.PhysicalEntity.Sensor.CBRN_Detector Full Name:

Sharing: Publish/Subscribe

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. Semantics:

Attributes:

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	<u>UuidArrayOfHLAbyte16</u>	PS	DA	RO	HLAbestEffort						
	Update type	Update Cond	Update Condition								
UniqueID	Static	N/A									
	Semantics										
	Unique representation of the detector's ID.										
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	TimeSecondInteger32	PS	DA	RO	HLAbestEffort						
	Update type	Update Cond	lition								
ProcessingTime	Static	N/A									
	Semantics										
	Duration (in seconds) between the det	tector being	exposed to	a concentro	ation of agent above its thres	hold and the detector raising an alarm.					

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	TimeSecondInteger32	PS	DA	RO	HLAbestEffort						
	Update type	Update Con	dition								
AveragingTime	Static	N/A									
	Semantics										
	Duration (in seconds) over which the detector will collect samples.										
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	<u>ArrayOfAgentConcentrationStruct</u>	PS	DA	RO	HLAbestEffort						
	Update type Update Condition										
DetectableAgents	Static	N/A									
	Semantics	•									
	Array of detectable agents and their thresholds.										
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	<u>CBRNAlarmStruct</u>	PS	DA	RO	HLAbestEffort						
\10	Update type Update Condition										
	Conditional On change										
	Semantics										
	Data representing the alarm of this de	etector. Def	aults to no d	alarm if th	e attribute is not set.						
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	RPRboolean	PS	DA	RO	HLAbestEffort						
AntennaRaised	Update type	Update Cond	dition	•							
Inherited from Sensor in RPR-Physical_v2.0	Conditional	On change	?								
	Semantics										
	Whether the sensor/emitter's antenna	is raised or	not.								
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	RPRboolean	PS	DA	RO	HLAbestEffort						
BlackoutLightsOn	Update type	Update Cond	dition								
Inherited from Sensor in RPR-Physical_v2.0	Conditional	On change	?								
	Semantics										
	Whether the sensor/emitter's blackout	t lights are o	on or not.								
	whether the sensor/entitler's oldekout ughts are on or not.										

	D	a ·			m	The state of the s				
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
LightsOn	Update type	Update Cond	lition							
Inherited from Sensor in RPR-Physical_v2.0	Conditional On change									
	Semantics									
	Whether the sensor/emitter's lights are	e on or not.								
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
 InteriorLightsOn	Update type Update Condition									
Inherited from Sensor in RPR-Physical_v2.0	Conditional	On change								
_	Semantics									
	Whether the sensor/emitter's interior lights are on or not.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
MissionKill	RPRboolean	PS	DA	RO	HLAbestEffort					
	Update type Update Condition									
	Conditional On change									
	Semantics									
	Whether the sensor/emitter has sustained damage that will prevent it carrying out its mission or not (e.g. damaged antenna).									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	Integer16	PS	DA	RO	HLAbestEffort					
AcousticSignatureIndex	Update type	Update Cond	lition							
Inherited from PhysicalEntity in RPR-	Conditional	On change								
Physical_v2.0	Semantics									
	Index used to obtain the acoustics (so	und through	h air) signa	ture state o	of the entity.					
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	EntityTypeStruct	PS	DA	RO	HLAbestEffort					
AlternateEntityType	Update type	Update Cond	lition	•	-					
Inherited from PhysicalEntity in RPR-	Static	NA								
Physical_v2.0	Semantics									
	The category of entity to be used when	n viewed by	entities on	the 'oppos	ite' side.					

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	ArticulatedParameterStructLengthles sArray	PS	DA	RO	HLAbestEffort					
ArticulatedParametersArray	Update type	Update Cond	dition		1					
Inherited from PhysicalEntity in RPR- Physical_v2.0	Conditional On change									
1.19516111_7215	Semantics									
	Identification of the visible parts, and their states, of the entity which are capable of independent motion.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	CamouflageEnum32	PS	DA	RO	HLAbestEffort					
CamouflageType	Update type	Update Cond	dition		1					
Inherited from PhysicalEntity in RPR-	Conditional On change									
Physical_v2.0	Semantics									
	The type of camouflage in use (if any)	of camouflage in use (if any).								
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	DamageStatusEnum32	PS	DA	RO	HLAbestEffort					
DamageState	Update type Update Condition									
Inherited from PhysicalEntity in RPR-	Conditional On change									
Physical_v2.0	Semantics									
	The state of damage of the entity.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
EngineSmokeOn	Update type	Update Cond	dition							
Inherited from PhysicalEntity in RPR-	Conditional	On change	?							
Physical_v2.0	Semantics									
	Whether the entity's engine is generate	ing smoke o	or not.							
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
FirePowerDisabled	Update type	Update Cond	dition							
Inherited from PhysicalEntity in RPR-	Conditional	On change	?							
Physical_v2.0	Semantics									
	Whether the entity's main weapon syst	tem has bee	n disabled	or not.						

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	RPRboolean	PS	DA	RO	HLAbestEffort						
FlamesPresent	Update type	Update Cor	ndition								
Inherited from PhysicalEntity in RPR-	Conditional	Conditional On change									
Physical_v2.0	Semantics										
	Whether the entity is on fire (with visible flames) or not.										
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	ForceIdentifierEnum8	PS	DA	RO	HLAbestEffort						
ForceIdentifier	Update type	Update Cor	ndition	•							
Inherited from PhysicalEntity in RPR-	Conditional	On chang	e								
Physical_v2.0	Semantics The identification of the force that the entity belongs to.										
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	RPRboolean	PS	DA	RO	HLAbestEffort						
HasAmmunitionSupplyCap	Update type Update Condition										
Inherited from PhysicalEntity in RPR-	Conditional On change										
Physical_v2.0	Semantics										
	Whether the entity has the capability to supply other entities with ammunition.										
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	RPRboolean	PS	DA	RO	HLAbestEffort						
HasFuelSupplyCap	Update type	Update Cor	ndition		•						
Inherited from PhysicalEntity in RPR-	Conditional	On chang	e								
Physical_v2.0	Semantics										
	Whether the entity has the capabili	ty to supply o	ther entities	with fuel	or not.						
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	RPRboolean	PS	DA	RO	HLAbestEffort						
HasRecoveryCap	Update type	Update Cor	ndition	•							
Inherited from PhysicalEntity in RPR-	Conditional	On chang	e								
Physical_v2.0	Semantics	· ·									
	Whether the entity has the capabili	ty to recover	other entitie	s or not.							
	Themer the chary has the capability to recover other chanes or not.										

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	RPRboolean	PS	DA	RO	HLAbestEffort						
HasRepairCap	Update type	Update Cond	dition								
Inherited from PhysicalEntity in RPR-	Conditional	On change	?								
Physical_v2.0	Semantics										
	Whether the entity has the capability to repair other entities or not.										
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	RPRboolean	PS	DA	RO	HLAbestEffort						
Immobilized	Update type Update Condition										
Inherited from PhysicalEntity in RPR-	Conditional On change										
Physical_v2.0	Semantics										
	Whether the entity is immobilized or not.										
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	Integer16	PS	DA	RO	HLAbestEffort						
InfraredSignatureIndex	Update type	Update Cond	dition								
Physical_v2.0	Conditional On change										
	Semantics										
	Index used to obtain the infra-red signature state of the entity.										
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	RPRboolean	PS	DA	RO	HLAbestEffort						
IsConcealed	Update type	Update Cond	dition	•	•						
Inherited from PhysicalEntity in RPR-	Conditional	On change	?								
Physical_v2.0	Semantics										
	Whether the entity is concealed or not	•									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions					
	VelocityDecimeterPerSecondInteger 16	PS	DA	RO	HLAbestEffort						
LiveEntityMeasuredSpeed	Update type	Update Con	dition	•	•	·					
Inherited from PhysicalEntity in RPR- Physical_v2.0	Conditional	On change	?								
· -	Semantics										
	The entity's own measurement of spee	d (e.g. air s	peed for air	craft).							

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	MarkingStruct	PS	DA	RO	HLAbestEffort	Bilicustons				
Marking	Update type	Update Cond		RO	TIET TO CSTELLIOIT					
Inherited from PhysicalEntity in RPR-	Conditional	On change								
Physical_v2.0	Semantics Semantics									
	A unique marking or combination of characters used to distinguish the entity from other entities.									
	Datatype	Sharing	Ownership	 	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort	Dimensions				
 PowerPlantOn	Update type	Update Condition								
Inherited from PhysicalEntity in RPR-	Conditional On change									
Physical_v2.0	Semantics Semantics									
	Whether the entity's power plant is on	1			m	In				
	Datatype PropulsionSystemDataStructLengthl	Sharing	Ownership DA	Order RO	Transportation HLAbestEffort	Dimensions				
	essArray	rs	DA	KO	HLAUESTEHOIT					
Inharitad from Physical Entity in PDP	Update type	Update Cond	lition							
	Conditional On change									
	Semantics									
	The basic operating data of the propulsion systems aboard the entity.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	Integer16	PS	DA	RO	HLAbestEffort					
RadarCrossSectionSignatureIndex	Update type	Update Cond	lition							
Inherited from PhysicalEntity in RPR-	Conditional	On change								
Physical_v2.0	Semantics	!								
	Index used to obtain the radar cross s	ection signa	ature state d	of the entity						
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
SmokePlumePresent	Update type	Update Cond	lition	•	•					
Inherited from PhysicalEntity in RPR-										
Physical_v2.0	Semantics	•								
	Whether the entity is generating smok	e or not (in	tentional or	unintentio	nal).					

Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
RPRboolean	PS	DA	RO	HLAbestEffort					
Update type	Update Cond	lition							
Conditional	On change								
Semantics									
Whether the entity has deployed tent or not.									
Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
TrailingEffectsCodeEnum32	PS	DA	RO	HLAbestEffort					
Update type Update Condition									
Conditional On change									
Semantics									
The type and size of any trail that the entity is making.									
Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
VectoringNozzleSystemDataStructL engthlessArray	PS	DA	RO	HLAbestEffort					
Update type	Update Cond	lition							
Conditional	On change								
Semantics									
The basic operational data for the vectoring nozzle systems aboard the entity.									
Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
EntityTypeStruct	PS	DA	RO	HLAbestEffort					
Update type	Update Cond	lition							
Static	NA								
Semantics									
The category of the entity.									
Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
EntityIdentifierStruct	PS	DA	RO	HLAbestEffort					
Update type	Update Cond	lition							
Static	NA								
Semantics									
The unique identifier for the entity ins	tance.								
	RPRboolean Update type Conditional Semantics Whether the entity has deployed tent of Datatype TrailingEffectsCodeEnum32 Update type Conditional Semantics The type and size of any trail that the Datatype VectoringNozzleSystemDataStructLengthlessArray Update type Conditional Semantics The basic operational data for the vectorityTypeStruct Update type EntityTypeStruct Update type Static Semantics The category of the entity. Datatype EntityIdentifierStruct Update type Static Semantics The semantics The category of the entity. Datatype EntityIdentifierStruct Update type Static Semantics Semantics	RPRboolean PS Update type Update Cond Conditional On change Semantics Whether the entity has deployed tent or not. Datatype Sharing TrailingEffectsCodeEnum32 PS Update type Update Cond Conditional On change Semantics The type and size of any trail that the entity is made type Sharing VectoringNozzleSystemDataStructL engthlessArray Update type Update Cond Conditional On change Semantics The basic operational data for the vectoring nozzonatype Sharing EntityTypeStruct PS Update type Update Cond Static NA Semantics The category of the entity. Datatype Sharing EntityIdentifierStruct PS Update Cond Static NA Static NA Static PS Update Cond Static NA	RPRboolean PS DA Update type Update Condition Conditional On change Semantics Whether the entity has deployed tent or not. Datatype Sharing Ownership TrailingEffectsCodeEnum32 PS DA Update type Update Condition Conditional On change Semantics Sharing Ownership VectoringNozzleSystemDataStructL engthlessArray PS DA Update type Update Condition Conditional On change Semantics On change Semantics Interpretational data for the vectoring nozzle systems of Datatype Sharing Ownership EntityTypeStruct PS DA Update type Update Condition Static NA Semantics Sharing Ownership EntityIdentifierStruct PS DA Update type Sharing Ownership EntityIdentifierStruct PS DA Update type Update Condition Static NA Semantics Sharing Ownership EntityIdentifierStruct PS DA Update type Update Condition Static NA	RPRboolean PS DA RO Update type Update Condition Conditional On change Semantics Whether the entity has deployed tent or not. Datatype Sharing Ownership Order TrailingEffectsCodeEnum32 PS DA RO Update type Update Condition Conditional On change Semantics The type and size of any trail that the entity is making. Datatype Sharing Ownership Order VectoringNozzleSystemDataStructL engthlessArray Update type Update Condition Conditional On change Semantics The basic operational data for the vectoring nozzle systems aboard the Datatype Sharing Ownership Order EntityTypeStruct PS DA RO Update type Update Condition Static NA Semantics The category of the entity. Datatype Sharing Ownership Order EntityIdentifierStruct PS DA RO Update Condition Static NA Semantics The category of the entity. Datatype Sharing Ownership Order EntityIdentifierStruct PS DA RO Update Condition Static NA Semantics The category of the entity. Datatype Sharing Ownership Order EntityIdentifierStruct PS DA RO Update Condition Static NA Semantics	RPRboolean PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics Whether the entity has deployed tent or not. Datatype Sharing Ownership Order Transportation TrailingEffectsCodeEnum32 PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics The type and size of any trail that the entity is making. Datatype Sharing Ownership Order Transportation PS DA RO HLAbestEffort Update type Update Condition VectoringNozzleSystemDataStruct PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics The basic operational data for the vectoring nozzle systems aboard the entity. Datatype Sharing Ownership Order Transportation PS DA RO HLAbestEffort Update type Update Condition Conditional On change Semantics The basic operational data for the vectoring nozzle systems aboard the entity. Datatype Sharing Ownership Order Transportation EntityTypeStruct PS DA RO HLAbestEffort Update type Update Condition Static NA Semantics The category of the entity. Datatype Sharing Ownership Order Transportation EntityIdentifierStruct PS DA RO HLAbestEffort Update type Update Condition Static NA Semantics				

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	IsPartOfStruct	PS	DA	RO	HLAbestEffort					
	Update type	Update Cond	dition		1					
IsPartOf	Conditional	On change	?							
Inherited from BaseEntity in RPR-Base_v2.0	Semantics									
	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 HostEntityIdentifier 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.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	SpatialVariantStruct	PS	DA	RO	HLAbestEffort					
Spatial	Update type Update Condition									
Inherited from BaseEntity in RPR-Base_v2.0	Conditional	On change	RPRnoteBase10) RPRnoteBase	1 RPRnoteBase12 RPRnoteBase13 RPRn	oteBase14				
S	Semantics									
	Spatial state stored in one variant record attribute.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	SpatialVariantStruct	PS	DA	RO	HLAbestEffort					
RelativeSpatial	Update type	Update Cond	dition							
Inherited from BaseEntity in RPR-Base v2.0	Conditional	On change	RPRnoteBase10) RPRnoteBase ²	1 RPRnoteBase12 RPRnoteBase13 RPRn	oteBase14				
	Semantics									
	Relative spatial state stored in one va	riant record	l attribute.							
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	HLAtoken	PS	DA	TS	HLAreliable					
HLAprivilegeToDeleteObject	Update type	Update Cond	dition							
Inherited from HLAobjectRoot in MIM	Static	NA								
	Semantics	•								

9.1.13. **CBRN_Sensor**

Full Name: HLAobjectRoot.BaseEntity.PhysicalEntity.Sensor.CBRN_Sensor

Sharing: Publish/Subscribe

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. Semantics:

Attributes:

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	UuidArrayOfHLAbyte16	PS	DA	RO	HLAbestEffort					
	Update type	Update Cond	dition	•	•					
UniqueID	Static	N/A								
	Semantics	•								
	Unique representation of the sensor's ID.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	TimeSecondInteger32	PS	DA	RO	HLAbestEffort					
	Update type Update Condition									
UpdateFrequency	Static N/A									
	Semantics	•								
	Duration (in seconds) that this sensor would like between updated readings.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	TimeSecondInteger32	PS	DA	RO	HLAbestEffort					
	Update type	Update Cond	dition							
AveragingTime	Static	N/A								
	Semantics	•								
	Duration (in seconds) over which the	sensor will	collect sam	ples.						
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	<u>ArrayOfAgentTypeEnum</u>	PS	DA	RO	HLAbestEffort					
	Update type	Update Cond	dition							
DetectableAgents	Static	N/A								
	Semantics	-	-							
	Array of agents that this sensor wishe	s to detect.								

BRNSensorReadingStruct e al			RO	HLAbestEffort							
				1							
al	On change		Update Condition								
	Conditional On change										
	Semantics										
Latest sensor readings. Defaults to no readings if this attribute is not set.											
	Sharing	Ownership	Order	Transportation	Dimensions						
ean	PS	DA	RO	HLAbestEffort							
Update type Update Condition											
Conditional On change											
Semantics											
Whether the sensor/emitter's antenna is raised or not.											
	Sharing	Ownership	Order	Transportation	Dimensions						
ean	PS	DA	RO	HLAbestEffort							
2	Update Cond	lition	•	•							
Conditional On change											
Semantics											
Whether the sensor/emitter's blackout lights are on or not.											
	Sharing	Ownership	Order	Transportation	Dimensions						
ean	PS	DA	RO	HLAbestEffort							
2	Update Cond	lition	•	•							
al	On change										
he sensor/emitter's lights ar	e on or not.										
	Sharing	Ownership	Order	Transportation	Dimensions						
ean	PS	DA	RO	HLAbestEffort							
2	Update Cond	lition									
al	On change										
Whether the sensor/emitter's interior lights are on or not.											
	ean e nal the sensor/emitter's antenna ean e nal the sensor/emitter's blackout ean e nal the sensor/emitter's lights are ean e nal	Sharing PS e	Sharing Ownership PS DA the Update Condition The sensor/emitter's antenna is raised or not. Sharing Ownership PS DA the sensor/emitter's antenna is raised or not. Sharing Ownership PS DA the Update Condition The sensor/emitter's blackout lights are on or not. Sharing Ownership PS DA the Update Condition The update Condition The sensor/emitter's lights are on or not. Sharing Ownership The sensor/emitter's lights are on or not. Sharing Ownership PS DA the sensor/emitter's lights are on or not. Sharing Ownership PS DA the Update Condition On change	Sharing Ownership Order PS DA RO e Update Condition On change The sensor/emitter's antenna is raised or not. Sharing Ownership Order PS DA RO e Update Condition On change The sensor/emitter's blackout lights are on or not. Sharing Ownership Order PS DA RO Update Condition On change The sensor/emitter's blackout lights are on or not. Sharing Ownership Order PS DA RO Update Condition On change The sensor/emitter's lights are on or not. Sharing Ownership Order PS DA RO Update Condition On change The sensor/emitter's lights are on or not. On change Update Condition On change	Sharing Ownership Order Transportation PS DA RO HLAbestEffort e Update Condition On change The sensor/emitter's antenna is raised or not. Sharing Ownership Order Transportation PS DA RO HLAbestEffort e Update Condition On change The sensor/emitter's blackout lights are on or not. Sharing Ownership Order Transportation PS DA RO HLAbestEffort e Update Condition On change The sensor/emitter's blackout lights are on or not. Sharing Ownership Order Transportation PS DA RO HLAbestEffort e Update Condition On change The sensor/emitter's lights are on or not. Sharing Ownership Order Transportation PS DA RO HLAbestEffort the sensor/emitter's lights are on or not. Sharing Ownership Order Transportation PS DA RO HLAbestEffort e Update Condition On change						

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
MissionKill	Update type	Update Con	dition							
Inherited from Sensor in RPR-Physical_v2.0	Conditional	On change	?							
l l l l l l l l l l l l l l l l l l l	Semantics									
	Whether the sensor/emitter has sustained damage that will prevent it carrying out its mission or not (e.g. damaged antenna).									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	Integer16	PS	DA	RO	HLAbestEffort					
AcousticSignatureIndex	Update type	Update Con	dition							
Inherited from PhysicalEntity in RPR-	Conditional On change									
Physical_v2.0	Semantics									
	Index used to obtain the acoustics (sound through air) signature state of the entity.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	EntityTypeStruct	PS	DA	RO	HLAbestEffort					
AlternateEntityType	Update type Update Condition									
nherited from PhysicalEntity in RPR- Physical_v2.0	Static NA									
Physicai_v2.0	Semantics									
	The category of entity to be used when viewed by entities on the 'opposite' side.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	ArticulatedParameterStructLengthles sArray	PS	DA	RO	HLAbestEffort					
ArticulatedParametersArray	Update type	Update Con	dition		1					
Inherited from PhysicalEntity in RPR- Physical_v2.0	Conditional	On change	?							
	Semantics									
	Identification of the visible parts, and	their states	, of the enti	ty which a	re capable of independent n	notion.				
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	CamouflageEnum32	PS	DA	RO	HLAbestEffort					
CamouflageType	Update type	Update Con	dition	•	•	·				
Inherited from PhysicalEntity in RPR-	Conditional	On change	•							
Physical_v2.0	Semantics									
	The type of camouflage in use (if any)									
	The type of contemporate in the (if they).									

DamageState Upd Inherited from PhysicalEntity in RPR- Physical_v2.0 Sem The	ndate type Inditional mantics e state of damage of the entity.	Update Cond	ition	RO	HLAbestEffort								
Inherited from PhysicalEntity in RPR-Physical_v2.0 Sem The	nantics e state of damage of the entity.												
Physical_v2.0 Sem The	e state of damage of the entity.	On change											
Sen: The	e state of damage of the entity.			Conditional On change									
				Semantics									
Data	t - 4		The state of damage of the entity.										
l ——	Datatype Sharing Ownership Order Transportation Dimensions												
RP.	Rboolean	PS	DA	RO	HLAbestEffort								
EngineSmokeOn Upd	date type	Update Cond	ition										
	nditional	On change											
Physical_v2.0	Semantics												
Wh	Whether the entity's engine is generating smoke or not.												
Data	tatype	Sharing	Ownership	Order	Transportation	Dimensions							
RP.	Rboolean	PS	DA	RO	HLAbestEffort								
FirePowerDisabled Upd	date type	Update Cond	ition	•									
Inherited from PhysicalEntity in RPR-Physical_v2.0	Conditional On change												
	Semantics												
Wh	Whether the entity's main weapon system has been disabled or not.												
Data	tatype	Sharing	Ownership	Order	Transportation	Dimensions							
RP.	Rboolean	PS	DA	RO	HLAbestEffort								
FlamesPresent Upd	date type	Update Cond	ition										
	nditional	On change											
Physical_v2.0 Sem	nantics												
Wh	nether the entity is on fire (with visib	ole flames) o	or not.										
Data	tatype	Sharing	Ownership	Order	Transportation	Dimensions							
For	rceIdentifierEnum8	PS	DA	RO	HLAbestEffort								
ForceIdentifier Upd	date type	Update Cond	ition										
	nditional	On change											
Physical_v2.0 Sem	nantics												
The	e identification of the force that the	entity belor	igs to.										

	D	[cr. :		0.1	m	n				
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
HasAmmunitionSupplyCap	Update type	Update Cond	dition							
Inherited from PhysicalEntity in RPR- Physical v2.0	Conditional	On change	?							
	Semantics									
	Whether the entity has the capability to supply other entities with ammunition.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
HasFuelSupplyCap	Update type	Update Condition								
Inherited from PhysicalEntity in RPR-	Conditional On change									
Physical_v2.0	Semantics	•								
	Whether the entity has the capability	Whether the entity has the capability to supply other entities with fuel or not.								
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS DA RO HLAbestEffort								
HasRecoveryCap	Update type	Update Cond	dition							
Inherited from PhysicalEntity in RPR- Physical_v2.0	Conditional On change									
Thysica_v2.0	Semantics									
	Whether the entity has the capability	Whether the entity has the capability to recover other entities or not.								
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
HasRepairCap	Update type	Update Cond	dition	•						
Inherited from PhysicalEntity in RPR-	Conditional	On change	?							
Physical_v2.0	Semantics	•								
	Whether the entity has the capability is	to repair oti	her entities	or not.						
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
Immobilized	Update type	Update Cond	dition							
Inherited from PhysicalEntity in RPR- Conditional On change										
Physical_v2.0	Semantics									
	Whether the entity is immobilized or n	not.								
	Thener me chary is minioralled or not.									

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	Integer16	PS	DA	RO	HLAbestEffort					
InfraredSignatureIndex	Update type	Update Cond	dition		'	- '				
Inherited from PhysicalEntity in RPR-	Conditional	On change	?							
Physical_v2.0	Semantics									
	Index used to obtain the infra-red signature state of the entity.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
IsConcealed	Update type	Update Cond	dition		'					
Inherited from PhysicalEntity in RPR-	Conditional On change									
Physical_v2.0	Semantics									
	Whether the entity is concealed or not.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
LiveEntityMeasuredSpeed	VelocityDecimeterPerSecondInteger 16	PS	DA	RO	HLAbestEffort					
	Update type	Update Con	dition	•	•					
	Conditional On change									
	Semantics									
	The entity's own measurement of spee	d (e.g. air s	peed for air	craft).						
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	MarkingStruct	PS	DA	RO	HLAbestEffort					
Marking	Update type	Update Cond	dition		·					
Inherited from PhysicalEntity in RPR-	Conditional	On change	?							
Physical_v2.0	Semantics									
	A unique marking or combination of c	characters i	ısed to disti	nguish the	e entity from other entities.					
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
PowerPlantOn	Update type	Update Con	dition							
Inherited from PhysicalEntity in RPR-	Conditional	On change	?							
Physical_v2.0	Semantics									
	Whether the entity's power plant is on	or not.								
Whether the entity's power plant is on or not.										

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	PropulsionSystemDataStructLengthl essArray	PS	DA	RO	HLAbestEffort					
PropulsionSystemsData	Update type	Update Con	dition							
Inherited from PhysicalEntity in RPR- Physical v2.0	Conditional On change									
	Semantics									
	The basic operating data of the propulsion systems aboard the entity.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	Integer16	PS	DA	RO	HLAbestEffort					
RadarCrossSectionSignatureIndex	Update type	Update Condition								
Inherited from PhysicalEntity in RPR-	Conditional On change									
Physical_v2.0	Semantics									
	Index used to obtain the radar cross section signature state of the entity.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
SmokePlumePresent	Update type	Update Con	dition	•	•					
Inherited from PhysicalEntity in RPR-	Conditional On change									
Physical_v2.0	Semantics									
	Whether the entity is generating smok	e or not (in	tentional or	unintentic	onal).					
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	RPRboolean	PS	DA	RO	HLAbestEffort					
TentDeployed	Update type	Update Con	dition							
Inherited from PhysicalEntity in RPR-	Conditional	On change	?							
Physical_v2.0	Semantics									
	Whether the entity has deployed tent of	or not.								
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	TrailingEffectsCodeEnum32	PS	DA	RO	HLAbestEffort					
TrailingEffectsCode	Update type	Update Con	dition							
Inherited from PhysicalEntity in RPR-	Conditional	On change	?							
Physical_v2.0	Semantics	•								
	The type and size of any trail that the	entity is ma	ıking.							

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	VectoringNozzleSystemDataStructL engthlessArray	PS	DA	RO	HLAbestEffort					
VectoringNozzleSystemData	Update type	Update Cor	ndition							
Inherited from PhysicalEntity in RPR- Physical_v2.0	Conditional	On change								
	Semantics									
	The basic operational data for the vectoring nozzle systems aboard the entity.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	EntityTypeStruct	PS	DA	RO	HLAbestEffort					
 EntityType	Update type Update Condition									
Inherited from BaseEntity in RPR-Base_v2.0	Static NA									
	Semantics									
	The category of the entity.									
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	EntityIdentifierStruct	PS	DA	RO	HLAbestEffort					
EntityIdentifier	Update type Update Condition									
Inherited from BaseEntity in RPR-Base v2.0	Static	NA								
	Semantics									
	The unique identifier for the entity ins	stance.								
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	IsPartOfStruct	PS	DA	RO	HLAbestEffort					
	Update type	Update Cor	ndition							
IsPartOf	Conditional	On chang	e							
Inherited from BaseEntity in RPR-Base_v2.0	Semantics	•								
, , , , , , , , , , , , , , , , , , ,	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.									

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

9.1.14. ProbabilityHazardContourGroup

Full Name: HLAobjectRoot.ProbabilityHazardContourGroup

Publish/Subscribe Sharing:

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

Attributes:

Datatype	Sharing	Ownership	Order	Transportation	Dimensions	
	TimeSecInt64	PS	DA	RO	HLAbestEffort	
1	Update type					
Time	Conditional					
	Semantics					
	Simulation time at which this contour group was generated.					

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	AgentTypeEnum16	PS	DA	RO	HLAbestEffort	
	Update type	Update Cond	lition	•	1	
Agent	Static	NA				
	Semantics					
	Agent reflected in this contour.					
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	ExposureTypeEnum8	PS	DA	RO	HLAbestEffort	
	Update type	Update Cond	lition		•	
ExposureType	Static	NA				
	Semantics					
	Type of exposure.					
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	$\frac{ArrayOfProbabilityHazardContourSt}{ruct}$	PS	DA	RO	HLAbestEffort	
Contours	Update type	Update Cond	lition	•		
Contours	Conditional On change					
	Semantics					
	Array of contours. These should be or	dered in a s	sequence of	ascending	PercentProbabilityLevel.	
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	<u>UuidArrayOfHLAbyte16</u>	PS	DA	RO	HLAbestEffort	
	Update type	Update Cond	lition			
UniqueID	Static	N/A				
	Semantics					
	Unique representation of the contour	s ID.				
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	HLAtoken	PS	DA	TS	HLAreliable	
HLAprivilegeToDeleteObject	Update type	Update Cond	lition			
Inherited from HLAobjectRoot in MIM	Static	NA				
	Semantics					
	1					

9.1.15. RawDataHazardContourGroup

HLAobjectRoot.RawDataHazardContourGroup Full Name:

Sharing: Publish/Subscribe

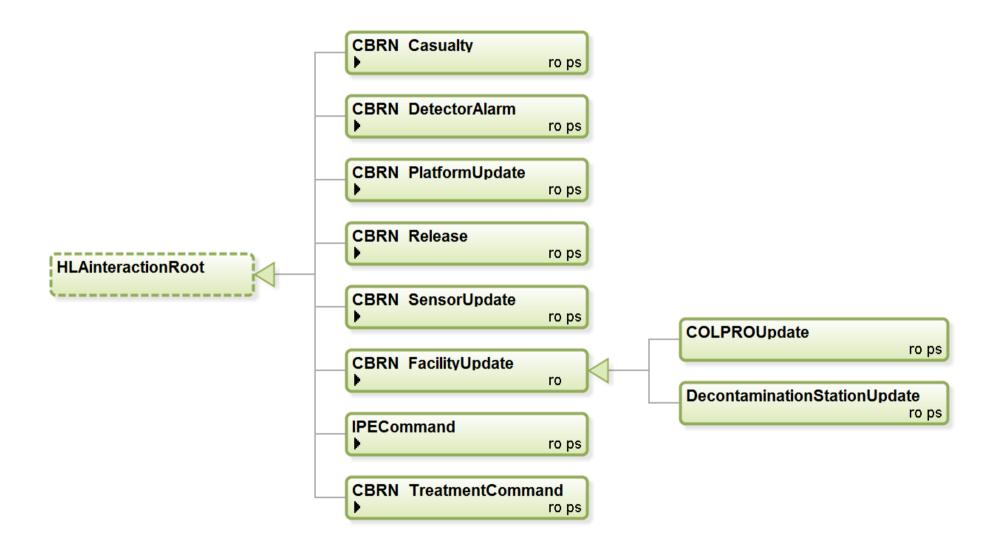
Represents the footprint covered by a CBRN hazard. This object covers the raw data which would be the output from a dispersion model. Semantics:

Attributes:

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

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	<u>UuidArrayOfHLAbyte16</u>	PS	DA	RO	HLAbestEffort	
	Update type					
UniqueID	Static	N/A				
	Semantics					
	Unique representation of the contour's ID.					
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions
	HLAtoken	PS	DA	TS	HLAreliable	
HLAprivilegeToDeleteObject	Update type	Update Cond	lition			
Inherited from HLAobjectRoot in MIM	Static					
	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
UniqueID	<u>UuidArrayOfHLAbyte16</u>	Unique representation of the entity's ID.
TriageLevel	CBRNDamageEnum8	Triage level of this entity.
Exposures	ArrayOfCBRNExposureStruct	Array of agents to which this unit has been exposed.

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
DetectorID	UuidArrayOfHLAbyte16	Unique representation of the detector's ID.
Alarm	CBRNAlarmStruct	Details of the alarm.

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
PlatformID	UuidArrayOfHLAbyte16	The unique ID of the platform.
Contamination	ArrayOfAgentMassStruct	New state of CBRN hazardous agent inside vehicle due to embedded units.

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.

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

Name	Datatype	Semantics
Duration	TimeSecondInteger32	Duration in seconds over which the release takes place.
ReleaseSize	ReleaseSizeStruct	Includes SourceSize (sigmas), mean and variance of released particulates.
ReleaseDynamics	ReleaseDynamicsStruct	Temperature and buoyancy of released mass.
ReleaseVelocity	VelocityVectorStruct	Velocity of the source term.

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
Time	TimeSecInt64	Time of this sensor update
SensorID	<u>UuidArrayOfHLAbyte16</u>	Unique representation of the sensor's ID.
Readings	ArrayOfAgentConcentrationStruct	Readings for this sensor

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.

Name	Datatype	Semantics
FacilityID	UuidArrayOfHLAbyte16	The unique ID of the CBRN facility.
EmbeddedUnitList	ArrayOfUuid	List of unique IDs of the entities who will enter or exit the CBRN facility.

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

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
FacilityID	UuidArrayOfHLAbyte16	The unique ID of the CBRN facility.
Inherited from CBRN_FacilityUpdate in CBRN_v1.1.9		
EmbeddedUnitList	ArrayOfUuid	List of unique IDs of the entities who will enter or exit the CBRN facility.
Inherited from CBRN_FacilityUpdate in CBRN_v1.1.9		
IsEntry	HLAboolean	Determines whether the entities are entering (IsEntry = true) or exiting (IsEntry = false) the CBRN facility.
Inherited from CBRN_FacilityUpdate in CBRN_v1.1.9		CDKN jaciniy.

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.

Name	Datatype	Semantics
FacilityID	UuidArrayOfHLAbyte16	The unique ID of the CBRN facility.
Inherited from CBRN_FacilityUpdate in CBRN_v1.1.9		

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

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
UnitList	ArrayOfUuid	List of unique IDs of the entities who will don IPE.
IPEType	IPETypeEnum8	Type of IPE that the entities will don.

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.

Name	Datatype	Semantics
UnitList	ArrayOfUuid	List of unique IDs of the entities who will receive the treatment.
Treatments	TreatmentStruct	Type of treatment to be applied to the entities.

9.3. Datatypes

9.3.1. Simple Datatypes

Concentration KgPer Meter Cubed Float 32

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

perfect Accuracy:

Semantics: Variance of a Gaussian distribution, based on SI unit meter squared, unit symbol m2.

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

ATP45 Hazard Area Type Enum 8

Representation: HLAoctet

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

Enumerator	Value
Simple	0
Detailed	1

CBRND amage Enum 8

Representation: HLAoctet

Semantics: Level of damage due to CBRN exposure.

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

${\bf Exposure Type Enum 8}$

Representation: HLAoctet

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

Enumerator	Value
Exposure	0
Incapacitation	1
Lethal	2

${\bf Hazard Type Enum 8}$

Representation: HLAoctet

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

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

IPETypeEnum8

Representation: HLAoctet

Semantics: Types of Individual Protective Equipment.

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

9.3.3. Array Datatypes

Array Of Agent Concentration Struct

Element Type: AgentConcentrationStruct

Cardinality: Dynamic

Encoding: HLAvariableArray

Semantics: Array of agents and their concentrations.

ArrayOfAgentMassStruct

Element Type: AgentMassStruct

Cardinality: Dynamic

Encoding: HLAvariableArray

Semantics: *Array of agents and their masses.*

ArrayOfAgentTypeEnum

Element Type: AgentTypeEnum16

Cardinality: Dynamic

Encoding: HLAvariableArray Semantics: *Array of agents.*

ArrayOfCBRNExposureStruct

Element Type: CBRNExposureStruct

Cardinality: Dynamic

Encoding: HLAvariableArray

Semantics: Array of agents and their dosages.

Array Of CBRNS ensor Reading Struct

Element Type: CBRNSensorReadingStruct

Cardinality: Dynamic

Encoding: HLAvariableArray

Semantics: Array of sensor readings.

Array Of Probability Hazard Contour Struct

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.

Array Of Raw Data Hazard Contour Struct

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: <u>TreatmentStruct</u>

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	Туре	Semantic
MeanConcentration	ConcentrationKgPerMeterCubedFloat32	Concentration in kg m-3.
Agent	AgentTypeEnum16	Enumeration representation of the agent.

AgentMassStruct

Encoding: HLAfixedRecord

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

Name	Туре	Semantic
ContaminatedMass	MassKilogramFloat32	Mass in kg of contaminant.
Agent	AgentTypeEnum16	Enumeration representation of the agent.

CBRNAlarmStruct

Encoding: HLAfixedRecord

Semantics: Properties of a CBRN alarm.

Name	Туре	Semantic
Time	<u>TimeSecInt64</u>	Simulation time of this detector alarm.
Location	WorldLocationStruct	Location of the detector alarm.
Agent	AgentTypeEnum16	Agent that the detector believes to have triggered this alarm.

CBRNEx posure Struct

Encoding: HLAfixedRecord

Semantics: Dosage exposure value associated with a specific agent.

Name	Туре	Semantic
Exposure	DosageKgSecondPerMeterCubedFloat32	Dosage value (in kg.s.m-3) which has caused this casualty. Defaults to 0.0.
Agent	AgentTypeEnum16	Enumeration representation of the agent.

CBRNS ensor Reading Struct

HLAfixedRecord Encoding:

Semantics: Timed CBRN sensor reading.

Name	Туре	Semantic
Time	TimeSecInt64	Simulation time of this sensor reading.
Reading	AgentConcentrationStruct	Agent and concentration value in this reading.

${\bf Probability Hazard Contour Struct}$

Encoding: HLAfixedRecord

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

Name	Туре	Semantic
PercentProbabilityLevel		Percentage of entities within this contour being affected to the define exposure level.
Locations	ArrayOfWorldLocationStruct3	Array of locations that define the probability contour.

ProtectionEffectivenessStruct

Encoding: HLAfixedRecord

Protection effectiveness associated with a specific agent. Semantics:

Name	Туре	Semantic
Effectiveness	PercentFloat32	Percentage by which this protection reduces effects.
Agent	AgentTypeEnum16	Enumeration representation of the agent.

RawDataHazardContourStruct

Encoding: HLAfixedRecord

Semantics: Contour locations bounding a given exposure value.

Name	Туре	Semantic
ExposureLevel	ExposureFloat32	Quantity of exposure, measured in SI units.
Locations	ArrayOfWorldLocationStruct3	Array of locations that define the hazard contour.

ReleaseDistributionStruct

Encoding: HLAfixedRecord

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

Name	Туре	Semantic
Mean	MeanMetersFloat32	Mean size of the released material in meters.
Variance	VarianceMetersSquaredFloat32	Variance of the distribution of released particulates/droplets.

ReleaseDynamicsStruct

Encoding: HLAfixedRecord

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

Name	Туре	Semantic
DensityRatio	DensityRatioFloat32	Ratio of material density relative to the atmosphere.
TemperatureDifference		Difference in temperature between the released material and the atmosphere in Celsius.

ReleaseSizeStruct

Encoding: HLAfixedRecord

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

Name	Туре	Semantic
SigmaArray	ArrayOfSigmas6	Initial Gaussian sigmas of the released puff.
ReleaseDistribution		Details regarding the size of the released particles/droplets for non-gaseous materials.

TreatmentStruct

Encoding: HLAfixedRecord

Semantics: Defines the properties for a CBRN treatment.

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

10. Module TMR_v1.1.3

Information

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

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References

T 1	NEWNID	
Danandanev	NETN-Base	
Dependency	INE TIV-Dasc	

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 Dependecy table

v1.1.2 - Rename of enumeration values (AttributeSetTooRestricted, AttributeSetTooExtensive).

v1.1.3 - Rename of enumeration value (FederateTooBusy).

Dependencies

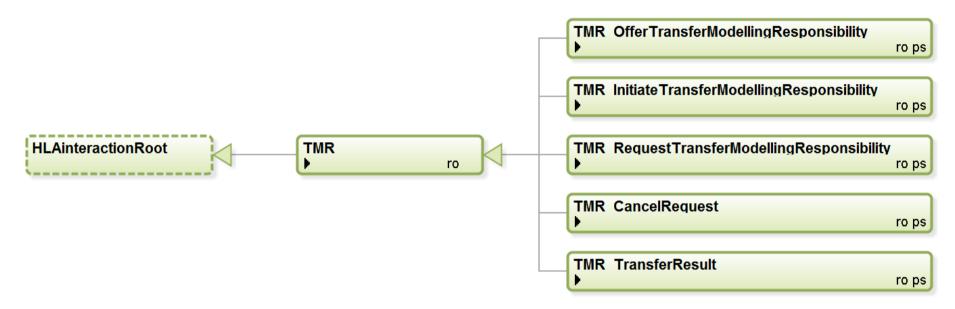
NETN-Base_v1.0.2

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
TransactionID	TransactionId	Identifier for this transaction. Required
RequestFederate	<u>FederateName</u>	Federate name, Required
ResponseFederate	<u>FederateName</u>	Federate name. Not necessary if TransferType is AquireWithoutNegotiation

$10.1.3. \ \textbf{TMR_OfferTransferModellingResponsibility}$

Full Name: HLAinteractionRoot.TMR.TMR_OfferTransferModellingResponsibility

Sharing: Publish/Subscribe

Transportation type: HLAreliable

Order: Receive

Dimensions:

Semantics: Offer Transfer of Modelling Responsibility

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

Name	Datatype	Semantics
ResponseFederate	<u>FederateName</u>	Federate name. Not necessary if TransferType is AquireWithoutNegotiation
Inherited from TMR in TMR_v1.1.3		

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

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

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 fedrate that the transfer is canceled

Name	Datatype	Semantics
Reason	CancellationReasonEnum32	The reason for the cancellation
TransactionID	TransactionId	Identifier for this transaction. Required
Inherited from TMR in TMR_v1.1.3		

Name	Datatype	Semantics
RequestFederate	<u>FederateName</u>	Federate name, Required
Inherited from TMR in TMR_v1.1.3		
ResponseFederate	FederateName	Federate name. Not necessary if TransferType is AquireWithoutNegotiation
Inherited from TMR in TMR_v1.1.3		

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

Name	Datatype	Semantics
TransferOk	HLAboolean	True if the transfer is completed, else false
TransactionID	TransactionId	Identifier for this transaction. Required
Inherited from TMR in TMR_v1.1.3		
RequestFederate	<u>FederateName</u>	Federate name, Required
Inherited from TMR in TMR_v1.1.3		
ResponseFederate	FederateName	Federate name. Not necessary if TransferType is AquireWithoutNegotiation
Inherited from TMR in TMR_v1.1.3		

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	Туре	Semantic
TransactionCounter	Counter	This value shall be incremented by 1 for each sent transaction. Required
FederateHandle	HLAhandle	The handle that the federate get when joining the federation. Required

AttributeValueStruct

Encoding: HLAfixedRecord

Semantics: The name-value pair for attributes

Name	Туре	Semantic
AttributeName	HLAunicodeString	Name of the attribute
Value	ArrayOfBytes	The value as a byte array

In stance Attribute Values Struct

Encoding: HLAfixedRecord

Semantics: Instance and name-value pairs for instance attributes

Name	Туре	Semantic
Instance	<u>UuidArrayOfHLAbyte16</u>	The UUID for the instance
AttributeValues	<u>ArrayOfAttributeValues</u>	Array with attribute name-value pairs

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: <u>TransactionId</u>

Semantics: NA

Divestiture Completion

Datatype: NA Semantics: *NA*

Acquisition Request

Datatype: <u>TransactionId</u>

Semantics: NA

Request Update

Datatype: NA Semantics: *NA*

11. Module MRM_v1.1.1

Information

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

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References

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

Use History

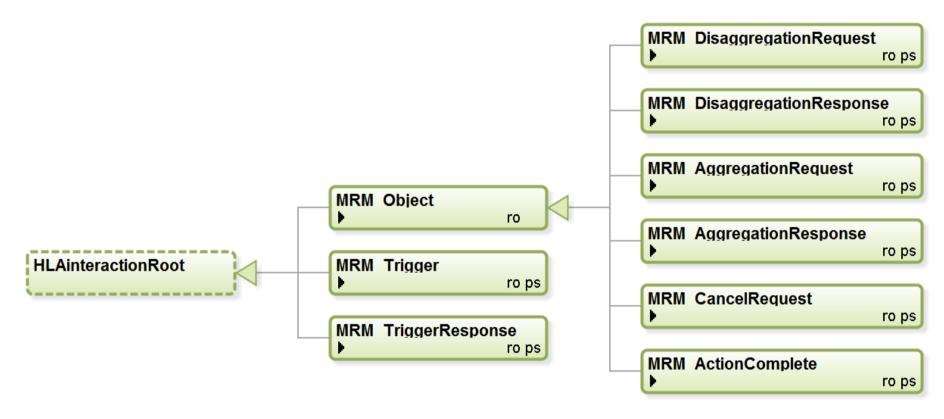
4 4 0 14	A TERRA TO THE
v1.1.0d1	- NETN2 First version

- 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

A
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
TransactionID	TransactionId	Identifier for this transaction. Required
AggregateFederate		Federate name; Required in MRM_DisaggregationRequest or MRM_AggregationRequest from MRM SP, and in MRM_DisaggregationResponse or MRM_AggregationResponse from AggregateFederate, else Optional.
HigherResolutionFederate		Federate name; Required in MRM_DisaggregationRequest or MRM_AggregationRequest from MRM SP, and in MRM_DisaggregationResponse or MRM_AggregationResponse from HigherResolutionFederate, else Optional.

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.

Name	Datatype	Semantics
AggregateUuid	UuidArrayOfHLAbyte16	The UUID of the object instance intended for disaggregation.

Name	Datatype	Semantics
AggregationState	AggregateStateEnum32	Informs Aggregate Federate of intended Aggregation State: If Fully Disaggregate, the aggregate unit does not send updates and all Entities and/or (sub)units of the aggregate unit are updated If Disaggregate, the aggregate unit sends updates and entities and/or (sub)units of the aggregate unit are updated 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" 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)
UuidList	ArrayOfUuid	Optional for: Disaggregated and FullyDisaggregated Required for: PartllyDisaggregated (and PseudoDisaggregated) The list of UUIDs which will be instantiated as a result of the disaggregation.
TransactionID	TransactionId	Identifier for this transaction. Required
Inherited from MRM_Object in MRM_v1.1.1		
AggregateFederate Inherited from MRM_Object in MRM_v1.1.1	<u>FederateName</u>	Federate name; Required in MRM_DisaggregationRequest or MRM_AggregationRequest from MRM SP, and in MRM_DisaggregationResponse or MRM_AggregationResponse from AggregateFederate, else Optional.
HigherResolutionFederate Inherited from MRM_Object in MRM_v1.1.1	FederateName	Federate name; Required in MRM_DisaggregationRequest or MRM_AggregationRequest from MRM SP, and in MRM_DisaggregationResponse or MRM_AggregationResponse from HigherResolutionFederate, else Optional.

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.

Name	Datatype	Semantics
Acknowledge	ResponseFlagEnum16	The receiver federates response to the disaggregation request.
NonComplianceReason		An optional parameter sent only if the ResponseFlagEnum16 value equals 2, UnableToComply, to specify the reason for non-compliance.

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

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

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

11.1.7. MRM_CancelRequest

Full Name: HLAinteractionRoot.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

Name	Datatype	Semantics
Reason	CancellationReasonEnum32	Reason given for cancelling the request
TransactionID	TransactionId	Identifier for this transaction. Required
Inherited from MRM_Object in MRM_v1.1.1		

Name	Datatype	Semantics
AggregateFederate Inherited from MRM_Object in MRM_v1.1.1		Federate name; Required in MRM_DisaggregationRequest or MRM_AggregationRequest from MRM SP, and in MRM_DisaggregationResponse or MRM_AggregationResponse from AggregateFederate, else Optional.
HigherResolutionFederate Inherited from MRM_Object in MRM_v1.1.1		Federate name; Required in MRM_DisaggregationRequest or MRM_AggregationRequest from MRM SP, and in MRM_DisaggregationResponse or MRM_AggregationResponse from HigherResolutionFederate, else Optional.

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
CompletionResult	HLAboolean	True if the MRM_Action is successfully completed, else false
TransactionID	TransactionId	Identifier for this transaction. Required
Inherited from MRM_Object in MRM_v1.1.1		
AggregateFederate	<u>FederateName</u>	Federate name; Required in MRM_DisaggregationRequest or MRM_AggregationRequest from MRM SP, and in MRM_DisaggregationResponse or MRM_AggregationResponse from
Inherited from MRM_Object in MRM_v1.1.1		AggregateFederate, else Optional.
HigherResolutionFederate Inherited from MRM_Object in MRM_v1.1.1		Federate name; Required in MRM_DisaggregationRequest or MRM_AggregationRequest from MRM SP, and in MRM_DisaggregationResponse or MRM_AggregationResponse from HigherResolutionFederate, else Optional.

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
Instance	<u>UuidArrayOfHLAbyte16</u>	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
AggregationState	AggregateStateEnum32	Informs Aggregate Federate of intended Aggregation State: If Aggregate, the aggregate unit send updates If Fully Disaggregate, the aggregate unit does not send updates and all Entities and/or (sub)units of the aggregate unit send updates If Disaggregate, the aggregate unit sends updates and entities and/or (sub)units of the aggregate unit send updates 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" 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)
UuidList	<u>ArrayOfUuid</u>	Optional when in triggering an AggregationRequest or DisaggregationRequest, state: Disaggregate and Fully Disaggregate Required when in triggering an DisaggregationRequest, state: Partially Disaggregate and Pseudo Disaggregate.

11.1.10. MRM_TriggerResponse

Full Name: HLAinteractionRoot.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).

Name	Datatype	Semantics
Instance	UuidArrayOfHLAbyte16	Required. This is the UUID of the object instance specified in the MRM_Trigger interaction.

Name	Datatype	Semantics
TransactionID	TransactionId	Required. The TransactionID which will be used for all interactions (to include the MRM_ActionComplete interaction) associated with the particular MRM_Trigger interaction.

11.2. Datatypes

11.2.1. Enumerated Datatypes

Non Compliance Reason Enum

Representation: RPRunsignedInteger32BE

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

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

AggregateStateEnum32

RPRunsignedInteger32BE Representation:

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

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

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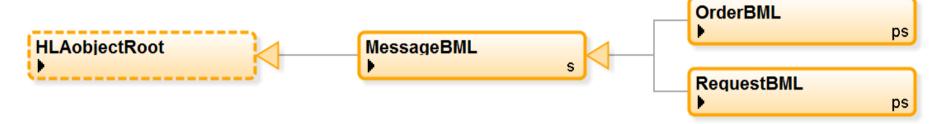
References

HLA Evolved Editor Tool	Pitch Visual OMT 1516 v2.2.0
Dependency	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:

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

HLAprivilegeToDeleteObject Inherited from HLAobjectRoot in MIM	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	HLAtoken	PS	DA	TS	HLAreliable					
	Update type	Update Cond	Update Condition							
	Static	NA NA								
	Semantics	•								

12.1.2. **OrderBML**

Full Name: HLAobjectRoot.MessageBML.OrderBML

Sharing: Publish/Subscribe

Semantics: Object which describe a BML Order

Attributes:

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
	<u>ArrayOfMetaDataOrder</u>	PS	DA	RO	HLAbestEffort				
	Update type	Update Condition							
MetaData	Conditional	On change	?						
	Semantics								
	Meta data which describe information	n contains i	n the Order						
	Datatype Sharing Ownership Order Transportation Dimensions					Dimensions			
	<u>OperationalHeaderStruct</u>	PS	DA	RO	HLAbestEffort				
OpsHeader	Update type	Update Condition							
Inherited from MessageBML in NETN- HCBML_v1.1.1	Conditional On change								
HCBML_VI.I.I	Semantics	emantics							
	Military header information about BM	ML distribut	ion						
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions			
	BMLContentDescription	PS		RO	HLAbestEffort				
BMLContent	Update type	Update Con	dition		·				
Inherited from MessageBML in NETN-	Conditional	On change	?						
HCBML_v1.1.1	Semantics								
	Contains the entire CBML message. CBML message is describe in XML format compliante with CBML 2.2.C shema								

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions		
	HLAtoken	PS	DA	TS	HLAreliable			
	Update type	Update Condition						
	Static	NA NA						
1	Semantics							

12.1.3. RequestBML

Full Name: HLAobjectRoot.MessageBML.RequestBML

Sharing: Publish/Subscribe

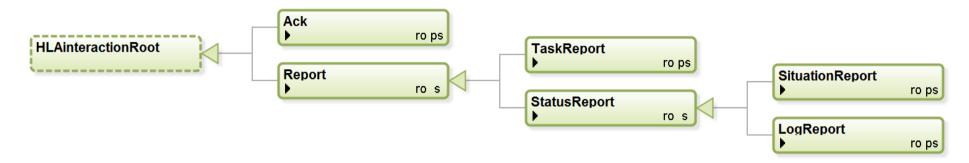
Semantics: Object which describe a BML Request

Attributes:

	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	ArrayOfMetaDataRequest	PS	DA	RO	HLAbestEffort					
	Update type	Update Con	Update Condition							
MetaData	Conditional	On change	On change							
	Semantics									
	Meta data which describe information	n contains i	n the Reque	st						
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	<u>OperationalHeaderStruct</u>	PS	DA	RO	HLAbestEffort					
OpsHeader	Update type	Update Condition								
Inherited from MessageBML in NETN- HCBML_v1.1.1	Conditional On change									
IICBML_v1.1.1	Semantics									
	Military header information about BM	ML distribut	tion							
	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	BMLContentDescription	PS		RO	HLAbestEffort					
BMLContent	Update type	Update Con	dition		•					
Inherited from MessageBML in NETN-	Conditional	On change	?							
HCBML_v1.1.1	Semantics									
	Contains the entire CBML message. CBML message is describe in XML format compliante with CBML 2.2.C shema									

HLAprivilegeToDeleteObject Inherited from HLAobjectRoot in MIM	Datatype	Sharing	Ownership	Order	Transportation	Dimensions				
	HLAtoken	PS	DA	TS	HLAreliable					
	Update type	Update Cond	Update Condition							
	Static	NA 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

Publish/Subscribe Sharing:

Transportation type: HLAreliable

Order: Receive

Dimensions:

Semantics:

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

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

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
Id	<u>BmlId</u>	Identifier of the report
When	Datetime18	Time of the report

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

Name	Datatype	Semantics
IdTask	<u>BmlId</u>	Identifier of the Task associated to the Report

Name	Datatype	Semantics
IdOrder	BmlId	Identifier of the Order (optional)
Status	StatusReportEnum32BE	Progress status of the Task
Comments	CommentDescription	Additionnal information about Task progress
Id	BmlId	Identifier of the report
Inherited from Report in NETN-HCBML_v1.1.1		
When	Datetime18	Time of the report
Inherited from Report in NETN-HCBML_v1.1.1		

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
IdTask	BmlId	Identifier of the Task associated to the report (optional)
IdOrder	BmlId	Identifier of the Order (optional)
Who	Callsign	Sender of the Report
Id	BmlId	Identifier of the report
Inherited from Report in NETN-HCBML_v1.1.1		
When	Datetime18	Time of the report
Inherited from Report in NETN-HCBML_v1.1.1		

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

12.2.7. LogReport

Full Name: HLAinteractionRoot.Report.StatusReport.LogReport

Sharing: Publish/Subscribe

Transportation type: HLAreliable

Order: Receive

Dimensions:

Semantics: Logistic Report

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

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
RECMMW	15
RETASK	16
SCRMBL	17
TASKED	18
TRNMMW	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

The specific value that represents the perceived hostility status of a specific OBJECT-ITEM. JC3IEDM_ObjectItemHostilityStatusCodeXmlType Semantics:

Enumerator	Value
AFR	0
АНО	1
AIV	2

Enumerator	Value
ANT	3
FAKER	4
FR	5
НО	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
О	1
P	2
R	4

${\bf Acknowledgment Status Enum}$

Representation: HLAoctet

Semantics: Represente the different status of an acknowledgment

Enumerator	Value
Received	0
Acknowledged_Ok	1
Acknowledged_Nok	2

Consumable Type Enum

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: HLAvariableArray
Semantics: Order Meta data list

ArrayOfMetaDataRequest

Element Type: MetaDataOrderStruct

Cardinality: Dynamic

Encoding: HLAvariableArray
Semantics: Request Meta data list

ArrayofReceiver

Element Type: ReceiverStruct

Cardinality: Dynamic

Encoding: HLAvariableArray

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

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 compliante 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	Туре	Semantic
Id	<u>BmlData</u>	BML message order id Information extract from Xml data message
IdTask	<u>BmlData</u>	BML message task id Information extract from Xml data message
Who	<u>BmlData</u>	BML message taskee Information extract from Xml data message
What	<u>BmlData</u>	BML message mission Information extract from Xml data message
GeographicInterest	WGS84Location	BML message mission zone (Baricentre) Information extract from Xml data message
Status	StatusReportEnum32BE	Actual state of the BML Task State is update with the progress of the Order

Operational Header Struct

Encoding: HLAfixedRecord

Semantics: Meta data for distributed BML message

Name	Туре	Semantic
Sender	<u>BmlData</u>	BML message sender Information extract from Xml data message
Receivers	<u>ArrayofReceiver</u>	List of Receivers for the BML message Information extract from Xml data message
SendTime	Datetime18	Sending date of the BML message
Priority	PriorityEnum32BE	BML message priority Information extract from Xml data message

ReceiverStruct

Encoding: HLAfixedRecord Semantics: Receiver description

Name	Type	Semantic
Name	<u>BmlData</u>	BML message receiver Information extract from Xml data message
SendAction		BML message action for the receiver Information extract from Xml data message

BmlId

Encoding: HLAfixedRecord

Semantics: Represent Identifier of a BML message

Name	Туре	Semantic
Counter		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.
MessageId		Identifier of BML message. This identifier corresponds to xml id information of Request and Order

WGS84Location

Encoding: HLAfixedRecord

Semantics: Represents a location in WGS84

Name	Туре	Semantic
latitude	Float32	Latitude representation in degree
longitude	Float32	Longitude representation in degree
altitude	MeterFloat32	Altitude representation in meter

${\bf Consumable Type Struct}$

Encoding: HLAfixedRecord

Semantics: Consumable Description

Name	Туре	Semantic
ConsumableType	ConsumableTypeEnum	Consumable type.
SubCategory	EntityTypeStruct	Consumable Enumere
SubCategoryDesription	HLAunicodeString	OPTIONAL- Consumable name.

12.4. Switches

Disabled Auto Provide 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 Disabled **Delay Subscription Evaluation Automatic Resign Action** CancelThenDeleteThenDivest

13. Module NETN-LBML_v1.1.0

Information

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

Primary author Point Of Contact

Name:	Roger Jansen
Organization:	
Telephone:	
Email:	

References

HLA Evolved Conversion	Pitch Visual OMT v2.2.3
Tool	

Release Restrictions

Use History

v.1.1.0 - Renamed (from 1.0.0d6)

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.

Name	Datatype	Semantics
Task	<u>TaskId</u>	Identifies the task.



Name	Datatype	Semantics
Taskee	<u>UuidArrayOfHLAbyte16</u>	The unit that has to execute the task.
Tasker	Callsign	Identifies the commander of the task.
StartWhen	Datetime18	Time when the task execution has to start.
EndWhen	Datetime18	Time when the task execution has to end. 00000000000000000 means no end time.
Why	HLAunicodeString	For what reason has this task to be executed.
TaskType	TaskTypeEnum8	Determines how this new task is related to the current task.

13.1.4. **Move**

Full Name: HLA interaction Root. LBML Message. LBML Task. Move

Sharing: Publish/Subscribe

Transportation type: HLAreliable

Order: Receive

Dimensions:

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

Name	Datatype	Semantics
Direction	AngleRadianFloat32	Determines the azimuth direction, in radians.
Task	<u>TaskId</u>	Identifies the task.
Inherited from LBMLTask in NETN-LBML_v1.1.0		
Taskee	<u>UuidArrayOfHLAbyte16</u>	The unit that has to execute the task.
Inherited from LBMLTask in NETN-LBML_v1.1.0		
Tasker	Callsign	Identifies the commander of the task.
Inherited from LBMLTask in NETN-LBML_v1.1.0		
StartWhen	Datetime18	Time when the task execution has to start.
Inherited from LBMLTask in NETN-LBML_v1.1.0		
EndWhen	Datetime18	Time when the task execution has to end. 00000000000000000 means no end time.
Inherited from LBMLTask in NETN-LBML_v1.1.0		
Why	HLAunicodeString	For what reason has this task to be executed.
Inherited from LBMLTask in NETN-LBML_v1.1.0		

Name	Datatype	Semantics
TaskType	TaskTypeEnum8	Determines how this new task is related to the current task.
Inherited from LBMLTask in NETN-LBML_v1.1.0		

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.

Name	Datatype	Semantics
Destination	WorldLocationStruct	The location to move to.
MoveType	MoveTypeEnum32	Indicates if roads have to be followed.
Waypoints	WorldLocationStructLengthlessArray	Optional route to the destination.
Task	<u>TaskId</u>	Identifies the task.
Inherited from LBMLTask in NETN-LBML_v1.1.0		
Taskee	<u>UuidArrayOfHLAbyte16</u>	The unit that has to execute the task.
Inherited from LBMLTask in NETN-LBML_v1.1.0		
Tasker	Callsign	Identifies the commander of the task.
Inherited from LBMLTask in NETN-LBML_v1.1.0		
StartWhen	Datetime18	Time when the task execution has to start.
Inherited from LBMLTask in NETN-LBML_v1.1.0		
EndWhen	Datetime18	Time when the task execution has to end. 0000000000000000000000 means no end time.
Inherited from LBMLTask in NETN-LBML_v1.1.0		
Why	HLAunicodeString	For what reason has this task to be executed.
Inherited from LBMLTask in NETN-LBML_v1.1.0		
TaskType	TaskTypeEnum8	Determines how this new task is related to the current task.
Inherited from LBMLTask in NETN-LBML_v1.1.0		

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
Unit	<u>UuidArrayOfHLAbyte16</u>	The unit to move to.
MoveType	MoveTypeEnum32	Indicates if roads have to be followed.
Waypoints	WorldLocationStructLengthlessArray	Optional route to the destination.
Task	TaskId	Identifies the task.
Inherited from LBMLTask in NETN-LBML_v1.1.0		
Taskee	<u>UuidArrayOfHLAbyte16</u>	The unit that has to execute the task.
Inherited from LBMLTask in NETN-LBML_v1.1.0		
Tasker	Callsign	Identifies the commander of the task.
Inherited from LBMLTask in NETN-LBML_v1.1.0		
StartWhen	Datetime18	Time when the task execution has to start.
Inherited from LBMLTask in NETN-LBML_v1.1.0		
EndWhen	Datetime18	Time when the task execution has to end. 0000000000000000000000 means no end time.
Inherited from LBMLTask in NETN-LBML_v1.1.0		
Why	HLAunicodeString	For what reason has this task to be executed.
Inherited from LBMLTask in NETN-LBML_v1.1.0		
TaskType	TaskTypeEnum8	Determines how this new task is related to the current task.
Inherited from LBMLTask in NETN-LBML_v1.1.0		

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
Formation	FormationEnum32	The category of positional arrangement of the entities within the aggregate.
Distance	MeterFloat32	Distance between the individual vehicles in the formation.
Location	WorldLocationStruct	The location (x, y and z) to move to.
Heading	AngleRadianFloat32	The heading of the formation in radians.
Task	TaskId	Identifies the task.
Inherited from LBMLTask in NETN-LBML_v1.1.0		
Taskee	UuidArrayOfHLAbyte16	The unit that has to execute the task.
Inherited from LBMLTask in NETN-LBML_v1.1.0		
Tasker	Callsign	Identifies the commander of the task.
Inherited from LBMLTask in NETN-LBML_v1.1.0		
StartWhen	Datetime18	Time when the task execution has to start.
Inherited from LBMLTask in NETN-LBML_v1.1.0		
EndWhen	Datetime18	Time when the task execution has to end. 0000000000000000000000 means no end time.
Inherited from LBMLTask in NETN-LBML_v1.1.0		
Why	HLAunicodeString	For what reason has this task to be executed.
Inherited from LBMLTask in NETN-LBML_v1.1.0		
TaskType	TaskTypeEnum8	Determines how this new task is related to the current task.
Inherited from LBMLTask in NETN-LBML_v1.1.0		

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
MoveType	MoveTypeEnum32	
ControlMeasure	EntityIdentifierStruct	Follow a control measure referenced by an entity identifier struct. This would typically be an envionmental object which contains one (waypoint) or many points (route), but could also be another entity.
Task	<u>TaskId</u>	Identifies the task.
Inherited from LBMLTask in NETN-LBML_v1.1.0		
Taskee	<u>UuidArrayOfHLAbyte16</u>	The unit that has to execute the task.
Inherited from LBMLTask in NETN-LBML_v1.1.0		
Tasker	Callsign	Identifies the commander of the task.
Inherited from LBMLTask in NETN-LBML_v1.1.0		
StartWhen	Datetime18	Time when the task execution has to start.
Inherited from LBMLTask in NETN-LBML_v1.1.0		
EndWhen	Datetime18	Time when the task execution has to end. 000000000000000000 means no end time.
Inherited from LBMLTask in NETN-LBML_v1.1.0		
Why	HLAunicodeString	For what reason has this task to be executed.
Inherited from LBMLTask in NETN-LBML_v1.1.0		
TaskType	TaskTypeEnum8	Determines how this new task is related to the current task.
Inherited from LBMLTask in NETN-LBML_v1.1.0		

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.

Name	Datatype	Semantics
Unit	UuidArrayOfHLAbyte16	The unit to follow.

Name	Datatype	Semantics
Behind	MeterFloat32	The distance in meters behind the unit to follow.
Right	MeterFloat32	The distance in meters to the right of the unit to follow.
Above	MeterFloat32	The distance in meters above the unit to follow.
Task	TaskId	Identifies the task.
Inherited from LBMLTask in NETN-LBML_v1.1.0		
Taskee	<u>UuidArrayOfHLAbyte16</u>	The unit that has to execute the task.
Inherited from LBMLTask in NETN-LBML_v1.1.0		
Tasker	Callsign	Identifies the commander of the task.
Inherited from LBMLTask in NETN-LBML_v1.1.0		
StartWhen	Datetime18	Time when the task execution has to start.
Inherited from LBMLTask in NETN-LBML_v1.1.0		
EndWhen	Datetime18	Time when the task execution has to end. 000000000000000000 means no end time.
Inherited from LBMLTask in NETN-LBML_v1.1.0		
Why	HLAunicodeString	For what reason has this task to be executed.
Inherited from LBMLTask in NETN-LBML_v1.1.0		
TaskType	<u>TaskTypeEnum8</u>	Determines how this new task is related to the current task.
Inherited from LBMLTask in NETN-LBML_v1.1.0		

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.

Name	Datatype	Semantics
Heading	AngleRadianFloat32	Determines the heading, in radians, a unit has to turn to.
Task	TaskId	Identifies the task.
Inherited from LBMLTask in NETN-LBML_v1.1.0		

Name	Datatype	Semantics
Taskee	UuidArrayOfHLAbyte16	The unit that has to execute the task.
Inherited from LBMLTask in NETN-LBML_v1.1.0		
Tasker	Callsign	Identifies the commander of the task.
Inherited from LBMLTask in NETN-LBML_v1.1.0		
StartWhen	Datetime18	Time when the task execution has to start.
Inherited from LBMLTask in NETN-LBML_v1.1.0		
EndWhen	Datetime18	Time when the task execution has to end. 0000000000000000000000 means no end time.
Inherited from LBMLTask in NETN-LBML_v1.1.0		
Why	HLAunicodeString	For what reason has this task to be executed.
Inherited from LBMLTask in NETN-LBML_v1.1.0		
TaskType	TaskTypeEnum8	Determines how this new task is related to the current task.
Inherited from LBMLTask in NETN-LBML_v1.1.0		

13.1.11. TurnToOrientation

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

Sharing: Publish/Subscribe

Transportation type: HLAreliable

Order: Receive

Dimensions: Semantics: Parameters:

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

Name	Datatype	Semantics
Tasker	Callsign	Identifies the commander of the task.
Inherited from LBMLTask in NETN-LBML_v1.1.0		
StartWhen	Datetime18	Time when the task execution has to start.
Inherited from LBMLTask in NETN-LBML_v1.1.0		
EndWhen	Datetime18	Time when the task execution has to end. 00000000000000000 means no end time.
Inherited from LBMLTask in NETN-LBML_v1.1.0		
Why	HLAunicodeString	For what reason has this task to be executed.
Inherited from LBMLTask in NETN-LBML_v1.1.0		
TaskType	TaskTypeEnum8	Determines how this new task is related to the current task.
Inherited from LBMLTask in NETN-LBML_v1.1.0		

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.

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

Name	Datatype	Semantics
EndWhen	Datetime18	Time when the task execution has to end. 0000000000000000000000 means no end time.
Inherited from LBMLTask in NETN-LBML_v1.1.0		
Why	HLAunicodeString	For what reason has this task to be executed.
Inherited from LBMLTask in NETN-LBML_v1.1.0		
TaskType	TaskTypeEnum8	Determines how this new task is related to the current task.
Inherited from LBMLTask in NETN-LBML_v1.1.0		

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.

Name	Datatype	Semantics
Task	<u>TaskId</u>	Identifies the task.
Inherited from LBMLTask in NETN-LBML_v1.1.0		
Taskee	<u>UuidArrayOfHLAbyte16</u>	The unit that has to execute the task.
Inherited from LBMLTask in NETN-LBML_v1.1.0		
Tasker	Callsign	Identifies the commander of the task.
Inherited from LBMLTask in NETN-LBML_v1.1.0		
StartWhen	Datetime18	Time when the task execution has to start.
Inherited from LBMLTask in NETN-LBML_v1.1.0		
EndWhen	Datetime18	Time when the task execution has to end. 0000000000000000000000 means no end time.
Inherited from LBMLTask in NETN-LBML_v1.1.0		
Why	HLAunicodeString	For what reason has this task to be executed.
Inherited from LBMLTask in NETN-LBML_v1.1.0		
TaskType	<u>TaskTypeEnum8</u>	Determines how this new task is related to the current task.
Inherited from LBMLTask in NETN-LBML_v1.1.0		

13.1.14. FireAtLocation

Full Name: HLAinteractionRoot.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
TargetLocation	WorldLocationStruct	The location to fire at.
Task	TaskId	Identifies the task.
Inherited from LBMLTask in NETN-LBML_v1.1.0		
Taskee	UuidArrayOfHLAbyte16	The unit that has to execute the task.
Inherited from LBMLTask in NETN-LBML_v1.1.0		
Tasker	Callsign	Identifies the commander of the task.
Inherited from LBMLTask in NETN-LBML_v1.1.0		
StartWhen	Datetime18	Time when the task execution has to start.
Inherited from LBMLTask in NETN-LBML_v1.1.0		
EndWhen	Datetime18	Time when the task execution has to end. 00000000000000000 means no end time.
Inherited from LBMLTask in NETN-LBML_v1.1.0		
Why	HLAunicodeString	For what reason has this task to be executed.
Inherited from LBMLTask in NETN-LBML_v1.1.0		
TaskType	TaskTypeEnum8	Determines how this new task is related to the current task.
Inherited from LBMLTask in NETN-LBML_v1.1.0		

13.1.15. FireIndirectWM

Full Name: HLAinteractionRoot.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
WeaponTypeToUse	EntityTypeStruct	
MunitionTypeToUse	EntityTypeStruct	
TargetLocation	WorldLocationStruct	The location to fire at.
Inherited from FireAtLocation in NETN-LBML_v1.1.0		
Task	<u>TaskId</u>	Identifies the task.
Inherited from LBMLTask in NETN-LBML_v1.1.0		
Taskee	<u>UuidArrayOfHLAbyte16</u>	The unit that has to execute the task.
Inherited from LBMLTask in NETN-LBML_v1.1.0		
Tasker	Callsign	Identifies the commander of the task.
Inherited from LBMLTask in NETN-LBML_v1.1.0		
StartWhen	Datetime18	Time when the task execution has to start.
Inherited from LBMLTask in NETN-LBML_v1.1.0		
EndWhen	Datetime18	Time when the task execution has to end. 0000000000000000000 means no end time.
Inherited from LBMLTask in NETN-LBML_v1.1.0		
Why	HLAunicodeString	For what reason has this task to be executed.
Inherited from LBMLTask in NETN-LBML_v1.1.0		
TaskType	TaskTypeEnum8	Determines how this new task is related to the current task.
Inherited from LBMLTask in NETN-LBML_v1.1.0		

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.

Name	Datatype	Semantics
Target	UuidArrayOfHLAbyte16	The unit to fire at.
Task	<u>TaskId</u>	Identifies the task.
Inherited from LBMLTask in NETN-LBML_v1.1.0		
Taskee	UuidArrayOfHLAbyte16	The unit that has to execute the task.
Inherited from LBMLTask in NETN-LBML_v1.1.0		
Tasker	Callsign	Identifies the commander of the task.
Inherited from LBMLTask in NETN-LBML_v1.1.0		
StartWhen	Datetime18	Time when the task execution has to start.
Inherited from LBMLTask in NETN-LBML_v1.1.0		
EndWhen	Datetime18	Time when the task execution has to end. 000000000000000000000 means no end time.
Inherited from LBMLTask in NETN-LBML_v1.1.0		
Why	HLAunicodeString	For what reason has this task to be executed.
Inherited from LBMLTask in NETN-LBML_v1.1.0		
TaskType	TaskTypeEnum8	Determines how this new task is related to the current task.
Inherited from LBMLTask in NETN-LBML_v1.1.0		

13.1.17. FireDirectWM

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

Sharing: Publish/Subscribe

Transportation type: HLAreliable

Order: Receive

Name	Datatype	Semantics
WeaponTypeToUse	EntityTypeStruct	The weapon type to use.
MunitionTypeToUse	EntityTypeStruct	The munition type that should be used by the select weapon type.
Target	UuidArrayOfHLAbyte16	The unit to fire at.
Inherited from FireAtUnit in NETN-LBML_v1.1.0		

Name	Datatype	Semantics
Task	<u>TaskId</u>	Identifies the task.
Inherited from LBMLTask in NETN-LBML_v1.1.0		
Taskee	UuidArrayOfHLAbyte16	The unit that has to execute the task.
Inherited from LBMLTask in NETN-LBML_v1.1.0		
Tasker	Callsign	Identifies the commander of the task.
Inherited from LBMLTask in NETN-LBML_v1.1.0		
StartWhen	Datetime18	Time when the task execution has to start.
Inherited from LBMLTask in NETN-LBML_v1.1.0		
EndWhen	Datetime18	Time when the task execution has to end. 000000000000000000 means no end time.
Inherited from LBMLTask in NETN-LBML_v1.1.0		
Why	HLAunicodeString	For what reason has this task to be executed.
Inherited from LBMLTask in NETN-LBML_v1.1.0		
TaskType	TaskTypeEnum8	Determines how this new task is related to the current task.
Inherited from LBMLTask in NETN-LBML_v1.1.0		

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.

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

Name	Datatype	Semantics
StartWhen	Datetime18	Time when the task execution has to start.
Inherited from LBMLTask in NETN-LBML_v1.1.0		
EndWhen	Datetime18	Time when the task execution has to end. 000000000000000000 means no end time.
Inherited from LBMLTask in NETN-LBML_v1.1.0		
Why	HLAunicodeString	For what reason has this task to be executed.
Inherited from LBMLTask in NETN-LBML_v1.1.0		
TaskType	TaskTypeEnum8	Determines how this new task is related to the current task.
Inherited from LBMLTask in NETN-LBML_v1.1.0		

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.

Name	Datatype	Semantics
Speed	VelocityMeterPerSecondFloat32	Determines the ordered speed to set for a unit, in m/s.
Task	<u>TaskId</u>	Identifies the task.
Inherited from LBMLTask in NETN-LBML_v1.1.0		
Taskee	<u>UuidArrayOfHLAbyte16</u>	The unit that has to execute the task.
Inherited from LBMLTask in NETN-LBML_v1.1.0		
Tasker	Callsign	Identifies the commander of the task.
Inherited from LBMLTask in NETN-LBML_v1.1.0		
StartWhen	Datetime18	Time when the task execution has to start.
Inherited from LBMLTask in NETN-LBML_v1.1.0		
EndWhen	Datetime18	Time when the task execution has to end. 0000000000000000000000 means no end time.
Inherited from LBMLTask in NETN-LBML_v1.1.0		

Name	Datatype	Semantics
Why	HLAunicodeString	For what reason has this task to be executed.
Inherited from LBMLTask in NETN-LBML_v1.1.0		
TaskType	TaskTypeEnum8	Determines how this new task is related to the current task.
Inherited from LBMLTask in NETN-LBML_v1.1.0		

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.

Name	Datatype	Semantics
Altitude	Float64	
AltitudeType	AltitudeTypeEnum8	
Task	TaskId	Identifies the task.
Inherited from LBMLTask in NETN-LBML_v1.1.0		
Taskee	<u>UuidArrayOfHLAbyte16</u>	The unit that has to execute the task.
Inherited from LBMLTask in NETN-LBML_v1.1.0		
Tasker	Callsign	Identifies the commander of the task.
Inherited from LBMLTask in NETN-LBML_v1.1.0		
StartWhen	Datetime18	Time when the task execution has to start.
Inherited from LBMLTask in NETN-LBML_v1.1.0		
EndWhen	Datetime18	Time when the task execution has to end. 00000000000000000 means no end time.
Inherited from LBMLTask in NETN-LBML_v1.1.0		
Why	HLAunicodeString	For what reason has this task to be executed.
Inherited from LBMLTask in NETN-LBML_v1.1.0		

Name	Datatype	Semantics
TaskType	TaskTypeEnum8	Determines how this new task is related to the current task.
Inherited from LBMLTask in NETN-LBML_v1.1.0		

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
RulesOfEngagement	RulesOfEngagementEnum8	Determines the rules of engagment for a unit.
Task	TaskId	Identifies the task.
Inherited from LBMLTask in NETN-LBML_v1.1.0		
Taskee	UuidArrayOfHLAbyte16	The unit that has to execute the task.
Inherited from LBMLTask in NETN-LBML_v1.1.0		
Tasker	Callsign	Identifies the commander of the task.
Inherited from LBMLTask in NETN-LBML_v1.1.0		
StartWhen	Datetime18	Time when the task execution has to start.
Inherited from LBMLTask in NETN-LBML_v1.1.0		
EndWhen	Datetime18	Time when the task execution has to end. 000000000000000000 means no end time.
Inherited from LBMLTask in NETN-LBML_v1.1.0		
Why	HLAunicodeString	For what reason has this task to be executed.
Inherited from LBMLTask in NETN-LBML_v1.1.0		
TaskType	TaskTypeEnum8	Determines how this new task is related to the current task.
Inherited from LBMLTask in NETN-LBML_v1.1.0		

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
Taskee	UuidArrayOfHLAbyte16	The unit that has to execute the task.
Tasker	Callsign	Identifies the commander of the task.

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
Taskee	UuidArrayOfHLAbyte16	The unit that has to execute the task.
Inherited from LBMLTaskManagement in NETN- LBML_v1.1.0		
Tasker	Callsign	Identifies the commander of the task.
Inherited from LBMLTaskManagement in NETN- LBML_v1.1.0		

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
Tasks	ArrayOfTaskIds	Tasks that have to be cancelled.
Taskee	UuidArrayOfHLAbyte16	The unit that has to execute the task.
Inherited from LBMLTaskManagement in NETN- LBML_v1.1.0		
Tasker	Callsign	Identifies the commander of the task.
Inherited from LBMLTaskManagement in NETN- LBML_v1.1.0		

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
When	Datetime18	Date and time when the reported status was valid.
Comments	HLAunicodeString	Any additional comments

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
Unit	UuidArrayOfHLAbyte16	The unit that is reported about.
When	Datetime18	Date and time when the reported status was valid.
Inherited from LBMLReport in NETN-LBML_v1.1.0		
Comments	HLAunicodeString	Any additional comments
Inherited from LBMLReport in NETN-LBML_v1.1.0		

13.1.27. TaskStatusReport

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

Publish/Subscribe Sharing:

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
Task	<u>TaskId</u>	Identifies the task associated with the task report.
TaskStatus	TaskStatusEnum32	Indicates the evaluation status of the task.
Unit	UuidArrayOfHLAbyte16	The unit that is reported about.
Inherited from StatusReport in NETN-LBML_v1.1.0		
When	Datetime18	Date and time when the reported status was valid.
Inherited from LBMLReport in NETN-LBML_v1.1.0		
Comments	HLAunicodeString	Any additional comments
Inherited from LBMLReport in NETN-LBML_v1.1.0		

13.1.28. PositionStatusReport

Full Name: HLAinteractionRoot.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
Position	WorldLocationStruct	Position of the unit at the specified time.
Heading	AngleRadianFloat32	Heading of the unit.
Speed	VelocityMeterPerSecondFloat32	Speed of the unit.
Unit	UuidArrayOfHLAbyte16	The unit that is reported about.
Inherited from StatusReport in NETN-LBML_v1.1.0		
When	Datetime18	Date and time when the reported status was valid.
Inherited from LBMLReport in NETN-LBML_v1.1.0		
Comments	HLAunicodeString	Any additional comments
Inherited from LBMLReport in NETN-LBML_v1.1.0		

13.1.29. DamageStatusReport

Full Name: HLAinteractionRoot.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.

Name	Datatype	Semantics
DamageType	DamageStatusEnhancedEnum32	Damage state of the reported unit.
Unit	UuidArrayOfHLAbyte16	The unit that is reported about.
Inherited from StatusReport in NETN-LBML_v1.1.0		

Name	Datatype	Semantics
When	Datetime18	Date and time when the reported status was valid.
Inherited from LBMLReport in NETN-LBML_v1.1.0		
Comments	HLAunicodeString	Any additional comments
Inherited from LBMLReport in NETN-LBML_v1.1.0		

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
FuelType	HLAunicodeString	The type of fuel
FuelPercentage	PercentFloat32	The amount of fuel the unit has not yet used, in percentages.
Unit	<u>UuidArrayOfHLAbyte16</u>	The unit that is reported about.
Inherited from StatusReport in NETN-LBML_v1.1.0		
When	Datetime 18	Date and time when the reported status was valid.
Inherited from LBMLReport in NETN-LBML_v1.1.0		
Comments	HLAunicodeString	Any additional comments
Inherited from LBMLReport in NETN-LBML_v1.1.0		

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
AmmunitionType	EntityTypeStruct	The type of ammunition.
AmmunitionPercentage	PercentFloat32	The amount of ammunition the entity has not yet used in percentages.
Unit	UuidArrayOfHLAbyte16	The unit that is reported about.
Inherited from StatusReport in NETN-LBML_v1.1.0		
When	Datetime18	Date and time when the reported status was valid.
Inherited from LBMLReport in NETN-LBML_v1.1.0		
Comments	HLAunicodeString	Any additional comments
Inherited from LBMLReport in NETN-LBML_v1.1.0		

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
FromDirection	AngleRadianFloat32	Direction from which the unit is attacked.
Severeness	AttackTypeEnum32	Severeness of the attack upon the reporting unit.
Unit	<u>UuidArrayOfHLAbyte16</u>	The unit that is reported about.
Inherited from StatusReport in NETN-LBML_v1.1.0		
When	Datetime18	Date and time when the reported status was valid.
Inherited from LBMLReport in NETN-LBML_v1.1.0		
Comments	HLAunicodeString	Any additional comments
Inherited from LBMLReport in NETN-LBML_v1.1.0		

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
EntitiesInvolved	ArrayOfUuid	Reference to entities involved in a particular activity.
TimeLeftToCompletion	Float64	Amount of time (if known) to completion of activity. 0 if unknown.
Activity	HLAunicodeString	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.
ActivityType	AggregateMissionEnum16	Provide a universally understood summary of the activity using the aggregate mission enum (for compatability)
Unit	<u>UuidArrayOfHLAbyte16</u>	The unit that is reported about.
Inherited from StatusReport in NETN-LBML_v1.1.0		
When	Datetime18	Date and time when the reported status was valid.
Inherited from LBMLReport in NETN-LBML_v1.1.0		
Comments	HLAunicodeString	Any additional comments
Inherited from LBMLReport in NETN-LBML_v1.1.0		

13.1.34. CurrentActivityStatusReport

Full Name: HLAinteractionRoot.LBMLMessage.LBMLReport.StatusReport.ActivityStatusReport.CurrentActivitySta

tus Report

Sharing: Publish/Subscribe

Transportation type: HLAreliable

Order: Receive

Name	Datatype	Semantics
ElapsedTaskTime	Float64	Time entity has been performing task.
TaskExecutionStatus	HLAunicodeString	Includes more specific information about the current task state (application specific) or substates within the task.
EntitiesInvolved	ArrayOfUuid	Reference to entities involved in a particular activity.
Inherited from ActivityStatusReport in NETN- LBML_v1.1.0		
TimeLeftToCompletion	Float64	Amount of time (if known) to completion of activity. 0 if unknown.
Inherited from ActivityStatusReport in NETN- LBML_v1.1.0		
Activity Inherited from ActivityStatusReport in NETN- LBML_v1.1.0	HLAunicodeString	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.
ActivityType Inherited from ActivityStatusReport in NETN-LBML_v1.1.0	AggregateMissionEnum16	Provide a universally understood summary of the activity using the aggregate mission enum (for compatability)
Unit	UuidArrayOfHLAbyte16	The unit that is reported about.
Inherited from StatusReport in NETN-LBML_v1.1.0		
When	Datetime18	Date and time when the reported status was valid.
Inherited from LBMLReport in NETN-LBML_v1.1.0		
Comments	HLAunicodeString	Any additional comments
Inherited from LBMLReport in NETN-LBML_v1.1.0		

13.1.35. NextActivityStatusReport

Full Name: HLAinteractionRoot.LBMLMessage.LBMLReport.StatusReport.ActivityStatusReport.NextActivityStatus

Report

Sharing: Publish/Subscribe

Transportation type: HLAreliable

Order: Receive

Name	Datatype	Semantics
StartCondition	TaskStartConditionEnum8	
TimeToStart	Float64	
EntitiesInvolved	ArrayOfUuid	Reference to entities involved in a particular activity.
Inherited from ActivityStatusReport in NETN- LBML_v1.1.0		
TimeLeftToCompletion	Float64	Amount of time (if known) to completion of activity. 0 if unknown.
Inherited from ActivityStatusReport in NETN- LBML_v1.1.0		
Activity	HLAunicodeString	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
Inherited from ActivityStatusReport in NETN- LBML_v1.1.0		AggregateMissionEnum16.
ActivityType	AggregateMissionEnum16	Provide a universally understood summary of the activity using the aggregate mission enum
Inherited from ActivityStatusReport in NETN- LBML_v1.1.0		(for compatability)
Unit	UuidArrayOfHLAbyte16	The unit that is reported about.
Inherited from StatusReport in NETN-LBML_v1.1.0		
When	Datetime18	Date and time when the reported status was valid.
Inherited from LBMLReport in NETN-LBML_v1.1.0		
Comments	HLAunicodeString	Any additional comments
Inherited from LBMLReport in NETN-LBML_v1.1.0		

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.

Name	Datatype	Semantics
Observer	<u>UuidArrayOfHLAbyte16</u>	Unit that observed the enemy (or neutral/unknown unit) and sends the spot report.
IdentificationLevel	IdentificationLevelEnum8	The identification level of the unit(s) spotted.
ForceIdentifier	PerceivedForceIdentifierEnum32	Force Id of the spotted unit(s) as assumed by the observer.
Position	WorldLocationStruct	Position of the spotted unit at the specified time.
NumberOfUnits	Integer32	Number of spotted units.
UnitType	EntityTypeStruct	Description of the units spotted. Subfields can be 0 if unknown, depending on the identification level.
NumberOfEquipments	Integer32	Number of spotted enemy equipments.
EquipmentType	EntityTypeStruct	Description of the equipments spotted. Subfields can be 0 if unknown, depending on the identification level.
When	Datetime18	Date and time when the reported status was valid.
Inherited from LBMLReport in NETN-LBML_v1.1.0		
Comments	HLAunicodeString	Any additional comments
Inherited from LBMLReport in NETN-LBML_v1.1.0		

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.

Name	Datatype	Semantics
EntitiesInvolved	ArrayOfUuid	Entities involved in the perceived activity.
TimeLeftToCompletion	Float64	
Activity	HLAunicodeString	Description of the activity of the enemy spotted.
ActivityType	AggregateMissionEnum16	Perceived activities are engaged in.

Name	Datatype	Semantics
Observer	UuidArrayOfHLAbyte16	Unit that observed the enemy (or neutral/unknown unit) and sends the spot report.
Inherited from SpotReport in NETN-LBML_v1.1.0		
IdentificationLevel	IdentificationLevelEnum8	The identification level of the unit(s) spotted.
Inherited from SpotReport in NETN-LBML_v1.1.0		
ForceIdentifier	PerceivedForceIdentifierEnum32	Force Id of the spotted unit(s) as assumed by the observer.
Inherited from SpotReport in NETN-LBML_v1.1.0		
Position	WorldLocationStruct	Position of the spotted unit at the specified time.
Inherited from SpotReport in NETN-LBML_v1.1.0		
NumberOfUnits	Integer32	Number of spotted units.
Inherited from SpotReport in NETN-LBML_v1.1.0		
UnitType	EntityTypeStruct	Description of the units spotted. Subfields can be 0 if unknown, depending on the identification level.
Inherited from SpotReport in NETN-LBML_v1.1.0		ievei.
NumberOfEquipments	Integer32	Number of spotted enemy equipments.
Inherited from SpotReport in NETN-LBML_v1.1.0		
EquipmentType	EntityTypeStruct	Description of the equipments spotted. Subfields can be 0 if unknown, depending on the
Inherited from SpotReport in NETN-LBML_v1.1.0		identification level.
When	Datetime18	Date and time when the reported status was valid.
Inherited from LBMLReport in NETN-LBML_v1.1.0		
Comments	HLAunicodeString	Any additional comments
Inherited from LBMLReport in NETN-LBML_v1.1.0		

13.1.38. CurrentActivitySpotReport

Full Name: HLAinteractionRoot.LBMLMessage.LBMLReport.SpotReport.ActivitySpotReport.CurrentActivitySpotRe

eport

Sharing: Publish/Subscribe

Transportation type: HLAreliable

Order: Receive

Name	Datatype	Semantics
ElapsedTaskTime	Float64	Perceived time the task started if known. 0 if unknown.
TaskExecutionStatus	HLAunicodeString	Perceived exeuction status.
EntitiesInvolved	ArrayOfUuid	Entities involved in the perceived activity.
Inherited from ActivitySpotReport in NETN-LBML_v1.1.0		
TimeLeftToCompletion	Float64	
Inherited from ActivitySpotReport in NETN-LBML_v1.1.0		
Activity	HLAunicodeString	Description of the activity of the enemy spotted.
Inherited from ActivitySpotReport in NETN-LBML_v1.1.0		
ActivityType	AggregateMissionEnum16	Perceived activities are engaged in.
Inherited from ActivitySpotReport in NETN-LBML_v1.1.0		
Observer	<u>UuidArrayOfHLAbyte16</u>	Unit that observed the enemy (or neutral/unknown unit) and sends the spot report.
Inherited from SpotReport in NETN-LBML_v1.1.0		
IdentificationLevel	IdentificationLevelEnum8	The identification level of the unit(s) spotted.
Inherited from SpotReport in NETN-LBML_v1.1.0		
ForceIdentifier	PerceivedForceIdentifierEnum32	Force Id of the spotted unit(s) as assumed by the observer.
Inherited from SpotReport in NETN-LBML_v1.1.0		
Position	WorldLocationStruct	Position of the spotted unit at the specified time.
Inherited from SpotReport in NETN-LBML_v1.1.0		
NumberOfUnits	Integer32	Number of spotted units.
Inherited from SpotReport in NETN-LBML_v1.1.0		
UnitType	EntityTypeStruct	Description of the units spotted. Subfields can be 0 if unknown, depending on the identification
Inherited from SpotReport in NETN-LBML_v1.1.0		level.
NumberOfEquipments	Integer32	Number of spotted enemy equipments.
Inherited from SpotReport in NETN-LBML_v1.1.0		
EquipmentType	EntityTypeStruct	Description of the equipments spotted. Subfields can be 0 if unknown, depending on the
Inherited from SpotReport in NETN-LBML_v1.1.0		identification level.
When	Datetime18	Date and time when the reported status was valid.
Inherited from LBMLReport in NETN-LBML_v1.1.0		
Comments	HLAunicodeString	Any additional comments
Inherited from LBMLReport in NETN-LBML_v1.1.0		

13.1.39. NextActivitySpotReport

Full Name: HLAinteractionRoot.LBMLMessage.LBMLReport.SpotReport.ActivitySpotReport.NextActivitySpotRep

ort

Sharing: Publish/Subscribe

Transportation type: HLAreliable

Order: Receive

Name	Datatype	Semantics
StartCondition	TaskStartConditionEnum8	
TimeToStart	Float64	
EntitiesInvolved	ArrayOfUuid	Entities involved in the perceived activity.
Inherited from ActivitySpotReport in NETN-LBML_v1.1.0		
TimeLeftToCompletion	Float64	
Inherited from ActivitySpotReport in NETN-LBML_v1.1.0		
Activity	HLAunicodeString	Description of the activity of the enemy spotted.
Inherited from ActivitySpotReport in NETN-LBML_v1.1.0		
ActivityType	AggregateMissionEnum16	Perceived activities are engaged in.
Inherited from ActivitySpotReport in NETN-LBML_v1.1.0		
Observer	<u>UuidArrayOfHLAbyte16</u>	Unit that observed the enemy (or neutral/unknown unit) and sends the spot report.
Inherited from SpotReport in NETN-LBML_v1.1.0		
IdentificationLevel	IdentificationLevelEnum8	The identification level of the unit(s) spotted.
Inherited from SpotReport in NETN-LBML_v1.1.0		
ForceIdentifier	PerceivedForceIdentifierEnum32	Force Id of the spotted unit(s) as assumed by the observer.
Inherited from SpotReport in NETN-LBML_v1.1.0		
Position	WorldLocationStruct	Position of the spotted unit at the specified time.
Inherited from SpotReport in NETN-LBML_v1.1.0		
NumberOfUnits	Integer32	Number of spotted units.
Inherited from SpotReport in NETN-LBML_v1.1.0		

Name	Datatype	Semantics
UnitType	EntityTypeStruct	Description of the units spotted. Subfields can be 0 if unknown, depending on the identification
Inherited from SpotReport in NETN-LBML_v1.1.0		level.
NumberOfEquipments	Integer32	Number of spotted enemy equipments.
Inherited from SpotReport in NETN-LBML_v1.1.0		
EquipmentType	EntityTypeStruct	Description of the equipments spotted. Subfields can be 0 if unknown, depending on the
Inherited from SpotReport in NETN-LBML_v1.1.0		identification level.
When	Datetime18	Date and time when the reported status was valid.
Inherited from LBMLReport in NETN-LBML_v1.1.0		
Comments	HLAunicodeString	Any additional comments
Inherited from LBMLReport in NETN-LBML_v1.1.0		

13.1.40. InSensorReport

Full Name: HLAinteractionRoot.LBMLMessage.LBMLReport.SpotReport.InSensorReport

Sharing: Publish/Subscribe

Transportation type: HLAreliable

Order: Receive

Name	Datatype	Semantics
SensorType	EntityTypeStruct	
SensedEntities	ArrayOfUuid	
Observer	UuidArrayOfHLAbyte16	Unit that observed the enemy (or neutral/unknown unit) and sends the spot report.
Inherited from SpotReport in NETN-LBML_v1.1.0		
IdentificationLevel	IdentificationLevelEnum8	The identification level of the unit(s) spotted.
Inherited from SpotReport in NETN-LBML_v1.1.0		
ForceIdentifier	PerceivedForceIdentifierEnum32	Force Id of the spotted unit(s) as assumed by the observer.
Inherited from SpotReport in NETN-LBML_v1.1.0		
Position	WorldLocationStruct	Position of the spotted unit at the specified time.
Inherited from SpotReport in NETN-LBML_v1.1.0		

Name	Datatype	Semantics
NumberOfUnits	Integer32	Number of spotted units.
Inherited from SpotReport in NETN-LBML_v1.1.0		
UnitType	EntityTypeStruct	Description of the units spotted. Subfields can be 0 if unknown, depending on the identification
Inherited from SpotReport in NETN-LBML_v1.1.0		level.
NumberOfEquipments	Integer32	Number of spotted enemy equipments.
Inherited from SpotReport in NETN-LBML_v1.1.0		
EquipmentType	EntityTypeStruct	Description of the equipments spotted. Subfields can be 0 if unknown, depending on the
Inherited from SpotReport in NETN-LBML_v1.1.0		identification level.
When	Datetime18	Date and time when the reported status was valid.
Inherited from LBMLReport in NETN-LBML_v1.1.0		
Comments	HLAunicodeString	Any additional comments
Inherited from LBMLReport in NETN-LBML_v1.1.0		

13.1.41. InWeaponRangeReport

Full Name: HLAinteractionRoot.LBMLMessage.LBMLReport.SpotReport.InWeaponRangeReport

Sharing: Publish/Subscribe

Transportation type: HLAreliable

Order: Receive

i didiffeters.		
Name	Datatype	Semantics
WeaponType	EntityTypeStruct	
EntitiesInWeaponRange	ArrayOfUuid	
Observer	<u>UuidArrayOfHLAbyte16</u>	Unit that observed the enemy (or neutral/unknown unit) and sends the spot report.
Inherited from SpotReport in NETN-LBML_v1.1.0		
IdentificationLevel	IdentificationLevelEnum8	The identification level of the unit(s) spotted.
Inherited from SpotReport in NETN-LBML_v1.1.0		
ForceIdentifier	PerceivedForceIdentifierEnum32	Force Id of the spotted unit(s) as assumed by the observer.
Inherited from SpotReport in NETN-LBML_v1.1.0		

Name	Datatype	Semantics
Position	WorldLocationStruct	Position of the spotted unit at the specified time.
Inherited from SpotReport in NETN-LBML_v1.1.0		
NumberOfUnits	Integer32	Number of spotted units.
Inherited from SpotReport in NETN-LBML_v1.1.0		
UnitType	EntityTypeStruct	Description of the units spotted. Subfields can be 0 if unknown, depending on the identification
Inherited from SpotReport in NETN-LBML_v1.1.0		level.
NumberOfEquipments	Integer32	Number of spotted enemy equipments.
Inherited from SpotReport in NETN-LBML_v1.1.0		
EquipmentType	EntityTypeStruct	Description of the equipments spotted. Subfields can be 0 if unknown, depending on the
Inherited from SpotReport in NETN-LBML_v1.1.0		identification level.
When	Datetime18	Date and time when the reported status was valid.
Inherited from LBMLReport in NETN-LBML_v1.1.0		
Comments	HLAunicodeString	Any additional comments
Inherited from LBMLReport in NETN-LBML_v1.1.0		

13.2. Datatypes

13.2.1. Simple Datatypes

Counter

Representation: HLAinteger32BE

Units: NA Resolution: 1

Accuracy: perfect Semantics: Counter

13.2.2. Enumerated Datatypes

Rules Of Engagement Enum 8

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 = Abve 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: <u>TaskId</u>
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	Туре	Semantic
TaskCounter	Counter	This value shall be incremented by 1 for each sent task.
FederateHandle	HLAhandle	The handle that the federate get when joining the federation.