

Parent Entity	Verb Phrase	Child Entity	Relationship Type	Logical Foreign Keys	Cardinality	Nulls
ABSOLUTE-POINT	Is a	CARTESIAN-POINT	Subtype	cartesian-point-id	Is a	
ABSOLUTE-POINT	Is a	GEOGRAPHIC-POINT	Subtype	geographic-point-id	Is a	
ACTION	has-remarks-added-by / provides-remarks-about	ACTION-COMMENT	Identifying	action-id	One-to- Zero-One-or-More	No Nulls
ACTION	is-placed-within	ACTION-CONTEXT	Identifying	action-id	One-to- Zero-One-or-More	No Nulls
ACTION	is-measured-by / records -observed-results-of	ACTION-EFFECT	Identifying	action-id	One-to- Zero-One-or-More	No Nulls
ACTION	Is a	ACTION-EVENT	Subtype	action-event-id	Is a	
ACTION	is-the-subject-of	ACTION-FUNCTIONAL-ASSOCIATION	Identifying	action-functional-association-subject-action-id	One-to- Zero-One-or-More	No Nulls
ACTION	is-the-object-of	ACTION-FUNCTIONAL-ASSOCIATION	Identifying	action-functional-association-object-action-id	One-to- Zero-One-or-More	No Nulls
ACTION	is-geometrically-defined -through	ACTION-LOCATION	Identifying	action-id	One-to- Zero-One-or-More	No Nulls
ACTION	is-focussed-on / is-focus-of	ACTION-OBJECTIVE	Identifying	action-id	One-to- Zero-One-or-More	No Nulls
ACTION	has-relevant-information-in	ACTION-REFERENCE-ASSOCIATION	Identifying	action-id	One-to- Zero-One-or-More	No Nulls
ACTION	requires-as-a-minimum / is -minimum-required-for	ACTION-REQUIRED-CAPABILITY	Identifying	action-id	One-to- Zero-One-or-More	No Nulls
ACTION	requires / is-required-for	ACTION-RESOURCE	Identifying	action-id	One-to- Zero-One-or-More	No Nulls
ACTION	Is a	ACTION-TASK	Subtype	action-task-id	Is a	
ACTION	is-the-subject-of	ACTION-TEMPORAL-ASSOCIATION	Identifying	action-temporal-association-subject-action-id	One-to- Zero-One-or-More	No Nulls
ACTION	is-the-object-of	ACTION-TEMPORAL-ASSOCIATION	Identifying	action-temporal-association-object-action-id	One-to- Zero-One-or-More	No Nulls
ACTION	is-the-reason-for / is-based-on	OBJECT-ITEM-GROUP-ACCOUNT	Non-identifying	action-id	Zero-or-One-to- Zero-One-or-More	Nulls allowed
ACTION	is-acted-upon-as-specified-by	ORGANISATION-ACTION -ASSOCIATION	Identifying	action-id	One-to- Zero-One-or-More	No Nulls
ACTION-CONTEXT	has / is-ascribed-to	ACTION-CONTEXT-STATUS	Identifying	action-id context-id action-context-index	One-to- Zero-One-or-More	No Nulls
ACTION-EFFECT	Is a	ACTION-EFFECT-ITEM	Subtype	action-id action-effect-index	Is a	
ACTION-EFFECT	Is a	ACTION-EFFECT-TYPE	Subtype	action-id action-effect-index	Is a	

Parent Entity	Verb Phrase	Child Entity	Relationship Type	Logical Foreign Keys	Cardinality	Nulls
ACTION-EVENT	is-detailed-through	ACTION-EVENT-DETAIL	Identifying	action-event-id	One-to- Zero-One-or-More	No Nulls
ACTION-EVENT	has / is-ascribed-to	ACTION-EVENT-STATUS	Identifying	action-event-id	One-to- One-or-More (P)	No Nulls
ACTION-EVENT	Is a	CBRN-EVENT	Subtype	cbrn-event-id	Is a	
ACTION-OBJECTIVE	Is a	ACTION-OBJECTIVE-ITEM	Subtype	action-id action-objective-index	Is a	
ACTION-OBJECTIVE	Is a	ACTION-OBJECTIVE-TASK	Subtype	action-id action-objective-index	Is a	
ACTION-OBJECTIVE	Is a	ACTION-OBJECTIVE-TYPE	Subtype	action-id action-objective-index	Is a	
ACTION-OBJECTIVE	is-the-subject-of / is-relevant -for	ACTION-RESOURCE-EMPLOYMENT	Non-identifying	action-objective-index action-id	Zero-or-One-to- Zero-One-or-More	Nulls allowed
ACTION-OBJECTIVE-ITEM	is-indicated-by / is-indicator-of	ACTION-OBJECTIVE-ITEM-MARKING	Identifying	action-id action-objective-index	One-to- Zero-One-or-More	No Nulls
ACTION-OBJECTIVE-ITEM	Is a	TARGET	Subtype	action-id action-objective-index	Is a	
ACTION-OBJECTIVE-TYPE	Is a	ACTION-OBJECTIVE-TYPE-IMAGERY -PRODUCT	Subtype	action-id action-objective-index	Is a	
ACTION-RESOURCE	is-used-according-to / describes-use-of	ACTION-RESOURCE-EMPLOYMENT	Identifying	action-id action-resource-index	One-to- Zero-or-One (Z)	No Nulls
ACTION-RESOURCE	Is a	ACTION-RESOURCE-ITEM	Subtype	action-id action-resource-index	Is a	
ACTION-RESOURCE	Is a	ACTION-RESOURCE-TYPE	Subtype	action-id action-resource-index	Is a	
ACTION-RESOURCE -EMPLOYMENT	Is a	ACTION-AIRCRAFT-EMPLOYMENT	Subtype	action-id action-resource-index action-resource-employment-index	Is a	
ACTION-RESOURCE -EMPLOYMENT	Is a	ACTION-ELECTRONIC-WARFARE -EMPLOYMENT	Subtype	action-id action-resource-index action-resource-employment-index	Is a	
ACTION-RESOURCE -EMPLOYMENT	Is a	ACTION-MARITIME-EMPLOYMENT	Subtype	action-id action-resource-index action-resource-employment-index	Is a	
ACTION-RESOURCE -EMPLOYMENT	Is a	ACTION-RECONNAISSANCE -EMPLOYMENT	Subtype	action-id action-resource-index action-resource-employment-index	Is a	

Parent Entity	Verb Phrase	Child Entity	Relationship Type	Logical Foreign Keys	Cardinality	Nulls
ACTION-TASK	is-the-objective-for	ACTION-OBJECTIVE-TASK	Non-identifying	action-objective-task-action-task-id	One-to- Zero-One-or-More	No Nulls
ACTION-TASK	is-constrained-by	ACTION-TASK-RULE-OF-ENGAGEMENT	Identifying	action-task-id	One-to- Zero-One-or-More	No Nulls
ACTION-TASK	has / is-ascribed-to	ACTION-TASK-STATUS	Identifying	action-task-id	One-to- Zero-One-or-More	No Nulls
ACTION-TASK	references / is-relevant-for	OBJECT-ITEM-ASSOCIATION	Non-identifying	action-task-id	Zero-or-One-to- Zero-One-or-More	Nulls allowed
ACTION-TASK	serves-as-timing-reference-for / uses-as-timing-reference	REPORTING-DATA-RELATIVE-TIMING	Non-identifying	reporting-data-relative-timing-reference-action-task-id	One-to- Zero-One-or-More	No Nulls
ACTION-TASK	Is a	REQUEST	Subtype	request-id	Is a	
ACTION-TASK-RULE-OF-ENGAGEMENT	has	ORGANISATION-ACTION-TASK-RULE-OF-ENGAGEMENT-STATUS	Identifying	action-task-id rule-of-engagement-id	One-to- Zero-One-or-More	No Nulls
ADDRESS	Is a	ELECTRONIC-ADDRESS	Subtype	address-id	Is a	
ADDRESS	is-reference-for	OBJECT-ITEM-ADDRESS	Identifying	address-id	One-to- Zero-One-or-More	No Nulls
ADDRESS	Is a	PHYSICAL-ADDRESS	Subtype	address-id	Is a	
AFFILIATION	Is a	AFFILIATION-ETHNIC-GROUP	Subtype	affiliation-id	Is a	
AFFILIATION	Is a	AFFILIATION-FUNCTIONAL-GROUP	Subtype	affiliation-id	Is a	
AFFILIATION	Is a	AFFILIATION-GEOPOLITICAL	Subtype	affiliation-id	Is a	
AFFILIATION	Is a	AFFILIATION-RELIGION	Subtype	affiliation-id	Is a	
AFFILIATION	is-referenced-in	OBJECT-ITEM-AFFILIATION	Identifying	affiliation-id	One-to- Zero-One-or-More	No Nulls
AFFILIATION	is-ascribed-to	OBJECT-TYPE-AFFILIATION	Identifying	affiliation-id	One-to- Zero-One-or-More	No Nulls
AMMUNITION-TYPE	is-used-in-the-definition-of / is -defined-with	FIRE-CAPABILITY	Non-identifying	ammunition-type-id	Zero-or-One-to- Zero-or-One (Z)	Nulls allowed
APPROACH-DIRECTION	is-the-object-of	RUNWAY-APPROACH-DIRECTION-ASSOCIATION	Identifying	approach-direction-id	One-to- Zero-One-or-More	No Nulls
CANDIDATE-TARGET-DETAIL	is-the-subject-of	CANDIDATE-TARGET-DETAIL-ASSOCIATION	Identifying	candidate-target-detail-association-subject-candidate-target-list-id candidate-target-detail-association-subject-candidate-target-detail-index	One-to- Zero-One-or-More	No Nulls
CANDIDATE-TARGET-DETAIL	is-the-object-of	CANDIDATE-TARGET-DETAIL-ASSOCIATION	Identifying	candidate-target-detail-association-object-candidate-target-list-id candidate-target-detail-association-object-candidate-target-detail-index	One-to- Zero-One-or-More	No Nulls

Parent Entity	Verb Phrase	Child Entity	Relationship Type	Logical Foreign Keys	Cardinality	Nulls
CANDIDATE-TARGET-DETAIL	is-assigned / is-the-approval-for	CANDIDATE-TARGET-DETAIL-AUTHORISATION	Identifying	candidate-target-list-id candidate-target-detail-index	One-to- Zero-One-or-More	No Nulls
CANDIDATE-TARGET-DETAIL	Is a	CANDIDATE-TARGET-DETAIL-ITEM	Subtype	candidate-target-list-id candidate-target-detail-item-index	Is a	
CANDIDATE-TARGET-DETAIL	Is a	CANDIDATE-TARGET-DETAIL-TYPE	Subtype	candidate-target-list-id candidate-target-detail-type-index	Is a	
CANDIDATE-TARGET-DETAIL-ITEM	may-be-specified-as / may-specify	ACTION-OBJECTIVE-ITEM	Non-identifying	candidate-target-list-id candidate-target-detail-item-index	Zero-or-One-to-Zero-One-or-More	Nulls allowed
CANDIDATE-TARGET-DETAIL-TYPE	may-be-specified-as / may-specify	ACTION-OBJECTIVE-TYPE	Non-identifying	candidate-target-list-id candidate-target-detail-type-index	Zero-or-One-to-Zero-One-or-More	Nulls allowed
CANDIDATE-TARGET-LIST	may-be-used-in-planning / planning-may-use	ACTION-TASK	Non-identifying	candidate-target-list-id	Zero-or-One-to-Zero-One-or-More	Nulls allowed
CANDIDATE-TARGET-LIST	consists-of / makes-up	CANDIDATE-TARGET-DETAIL	Identifying	candidate-target-list-id	One-to- Zero-One-or-More	No Nulls
CANDIDATE-TARGET-LIST	is-the-subject-of	CANDIDATE-TARGET-LIST-ASSOCIATION	Identifying	candidate-target-list-association-subject -candidate-target-list-id	One-to- Zero-One-or-More	No Nulls
CANDIDATE-TARGET-LIST	is-the-object-of	CANDIDATE-TARGET-LIST-ASSOCIATION	Identifying	candidate-target-list-association-object -candidate-target-list-id	One-to- Zero-One-or-More	No Nulls
CANDIDATE-TARGET-LIST	is-assigned / is-the-approval-for	CANDIDATE-TARGET-LIST-AUTHORISATION	Identifying	candidate-target-list-id	One-to- Zero-One-or-More	No Nulls
CAPABILITY	is-quantified-in / quantifies	ACTION-REQUIRED-CAPABILITY	Identifying	capability-id	One-to- Zero-One-or-More	No Nulls
CAPABILITY	has-relevant-information-in	CAPABILITY-REFERENCE-ASSOCIATION	Identifying	capability-id	One-to- Zero-One-or-More	No Nulls
CAPABILITY	Is a	ENGINEERING-CAPABILITY	Subtype	engineering-capability-id	Is a	
CAPABILITY	Is a	FIRE-CAPABILITY	Subtype	fire-capability-id	Is a	
CAPABILITY	Is a	HANDLING-CAPABILITY	Subtype	handling-capability-id	Is a	
CAPABILITY	Is a	MAINTENANCE-CAPABILITY	Subtype	maintenance-capability-id	Is a	
CAPABILITY	Is a	MOBILITY-CAPABILITY	Subtype	mobility-capability-id	Is a	
CAPABILITY	is-quantified-in / quantifies	OBJECT-ITEM-CAPABILITY	Identifying	capability-id	One-to- Zero-One-or-More	No Nulls
CAPABILITY	is-quantified-in / quantifies	OBJECT-TYPE-CAPABILITY-NORM	Identifying	capability-id	One-to- Zero-One-or-More	No Nulls
CAPABILITY	Is a	OPERATIONAL-CAPABILITY	Subtype	operational-capability-id	Is a	
CAPABILITY	Is a	STORAGE-CAPABILITY	Subtype	storage-capability-id	Is a	

Parent Entity	Verb Phrase	Child Entity	Relationship Type	Logical Foreign Keys	Cardinality	Nulls
CAPABILITY	Is a	SUPPORT-CAPABILITY	Subtype	support-capability-id	Is a	
CAPABILITY	Is a	SURVEILLANCE-CAPABILITY	Subtype	surveillance-capability-id	Is a	
CAPABILITY	Is a	TRANSMISSION-CAPABILITY	Subtype	transmission-capability-id	Is a	
CBRN-EVENT	Is a	CHEMICAL-BIOLOGICAL-EVENT	Subtype	chemical-biological-event-id	Is a	
CBRN-EVENT	Is a	RADIOACTIVE-EVENT	Subtype	radioactive-event-id	Is a	
COMPONENT-HEADER-CONTENT	constitutes-part-of / includes	PLAN-ORDER-COMPONENT-CONTENT	Non-identifying	component-header-content-id	One-to- Zero-One-or-More	No Nulls
COMPONENT-TEXT-CONTENT	constitutes-part-of / includes	PLAN-ORDER-COMPONENT-CONTENT	Non-identifying	component-text-content-id	Zero-or-One-to-Zero-One-or-More	Nulls allowed
CONSUMABLE-MATERIEL-TYPE	Is a	AMMUNITION-TYPE	Subtype	ammunition-type-id	Is a	
CONSUMABLE-MATERIEL-TYPE	Is a	BIOLOGICAL-MATERIEL-TYPE	Subtype	biological-materiel-type-id	Is a	
CONSUMABLE-MATERIEL-TYPE	Is a	CHEMICAL-MATERIEL-TYPE	Subtype	chemical-materiel-type-id	Is a	
CONSUMABLE-MATERIEL-TYPE	Is a	RADIOACTIVE-MATERIEL-TYPE	Subtype	radioactive-materiel-type-id	Is a	
CONTEXT	provides-circumstances-for	ACTION-CONTEXT	Identifying	context-id	One-to- Zero-One-or-More	No Nulls
CONTEXT	identifies-the-data-for	CONTEXT-ASSESSMENT	Identifying	context-id	One-to- Zero-One-or-More	No Nulls
CONTEXT	is-the-subject-of	CONTEXT-ASSOCIATION	Identifying	context-association-subject-context-id	One-to- Zero-One-or-More	No Nulls
CONTEXT	is-the-object-of	CONTEXT-ASSOCIATION	Identifying	context-association-object-context-id	One-to- Zero-One-or-More	No Nulls
CONTEXT	has-as-constituent-part / is-a-part-of	CONTEXT-ELEMENT	Identifying	context-id	One-to- Zero-One-or-More	No Nulls
CONTEXT	is-the-subject-of	CONTEXT-OBJECT-ITEM-ASSOCIATION	Identifying	context-id	One-to- Zero-One-or-More	No Nulls
CONTEXT	is-the-subject-of	CONTEXT-REPORTING-DATA-ASSOCIATION	Identifying	context-id	One-to- Zero-One-or-More	No Nulls
CONTEXT	Is a	OPERATIONAL-INFORMATION-GROUP	Subtype	operational-information-group-id	Is a	
CONTEXT	provides-data-content-for / is-defined-by	PLAN-ORDER-COMPONENT-CONTENT	Non-identifying	plan-order-component-content-data-context-id	Zero-or-One-to-Zero-One-or-More	Nulls allowed
CONTEXT-ASSOCIATION	has / is-ascribed-to	CONTEXT-ASSOCIATION-STATUS	Identifying	context-association-subject-context-id context-association-object-context-id	One-to- One-or-More (P)	No Nulls

Parent Entity	Verb Phrase	Child Entity	Relationship Type	Logical Foreign Keys	Cardinality	Nulls
CONTEXT-ELEMENT	has / is-ascribed-to	CONTEXT-ELEMENT-STATUS	Identifying	context-id context-element-index	One-to- One-or-More (P)	No Nulls
CONTEXT-OBJECT-ITEM-ASSOCIATION	has / is-ascribed-to	CONTEXT-OBJECT-ITEM-ASSOCIATION-STATUS	Identifying	context-id object-item-id	One-to- Zero-One-or-More	No Nulls
CONTROL-FEATURE	Is a	AIRSPACE-CONTROL-MEANS	Subtype	airspace-control-means-id	Is a	
CONTROL-FEATURE	Is a	APPROACH-DIRECTION	Subtype	approach-direction-id	Is a	
CONTROL-FEATURE	Is a	ROUTE	Subtype	route-id	Is a	
CONTROL-FEATURE	Is a	ROUTE-SEGMENT	Subtype	route-segment-id	Is a	
CONTROL-FEATURE-TYPE	Is a	ROUTE-TYPE	Subtype	route-type-id	Is a	
ELECTRONIC-EQUIPMENT-TYPE	is-used-in-the-definition-of / is-defined-with	TRANSMISSION-CAPABILITY	Non-identifying	electronic-equipment-type-id	Zero-or-One-to-Zero-One-or-More	Nulls allowed
EQUIPMENT-TYPE	Is a	AIRCRAFT-TYPE	Subtype	aircraft-type-id	Is a	
EQUIPMENT-TYPE	Is a	CBRN-EQUIPMENT-TYPE	Subtype	cbrn-equipment-type-id	Is a	
EQUIPMENT-TYPE	Is a	ELECTRONIC-EQUIPMENT-TYPE	Subtype	electronic-equipment-type-id	Is a	
EQUIPMENT-TYPE	Is a	ENGINEERING-EQUIPMENT-TYPE	Subtype	engineering-equipment-type-id	Is a	
EQUIPMENT-TYPE	Is a	MARITIME-EQUIPMENT-TYPE	Subtype	maritime-equipment-type-id	Is a	
EQUIPMENT-TYPE	Is a	MISCELLANEOUS-EQUIPMENT-TYPE	Subtype	miscellaneous-equipment-type-id	Is a	
EQUIPMENT-TYPE	Is a	RAILCAR-TYPE	Subtype	railcar-type-id	Is a	
EQUIPMENT-TYPE	is-main-equipment-of / has-as-main-equipment	UNIT-TYPE	Non-identifying	unit-type-principal-equipment-type-id	Zero-or-One-to-Zero-One-or-More	Nulls allowed
EQUIPMENT-TYPE	Is a	VEHICLE-TYPE	Subtype	vehicle-type-id	Is a	
EQUIPMENT-TYPE	Is a	VESSEL-TYPE	Subtype	vessel-type-id	Is a	
EQUIPMENT-TYPE	Is a	WEAPON-TYPE	Subtype	weapon-type-id	Is a	
FACILITY	Is a	AIRFIELD	Subtype	airfield-id	Is a	
FACILITY	Is a	ANCHORAGE	Subtype	anchorage-id	Is a	
FACILITY	Is a	APRON	Subtype	apron-id	Is a	
FACILITY	Is a	BASIN	Subtype	basin-id	Is a	
FACILITY	Is a	BERTH	Subtype	berth-id	Is a	
FACILITY	Is a	BRIDGE	Subtype	bridge-id	Is a	

Parent Entity	Verb Phrase	Child Entity	Relationship Type	Logical Foreign Keys	Cardinality	Nulls
FACILITY	Is a	DRY-DOCK	Subtype	dry-dock-id	Is a	
FACILITY	Is a	HARBOUR	Subtype	harbour-id	Is a	
FACILITY	Is a	JETTY	Subtype	jetty-id	Is a	
FACILITY	Is a	MILITARY-OBSTACLE	Subtype	military-obstacle-id	Is a	
FACILITY	Is a	NETWORK	Subtype	network-id	Is a	
FACILITY	Is a	QUAY	Subtype	quay-id	Is a	
FACILITY	Is a	RAILWAY	Subtype	railway-id	Is a	
FACILITY	Is a	ROAD	Subtype	road-id	Is a	
FACILITY	Is a	RUNWAY	Subtype	runway-id	Is a	
FACILITY	Is a	SLIPWAY	Subtype	slipway-id	Is a	
FACILITY-STATUS	Is a	AIRFIELD-STATUS	Subtype	airfield-status-id object-item-status-index	Is a	
FACILITY-STATUS	Is a	MEDICAL-FACILITY-STATUS	Subtype	medical-facility-status-id object-item-status-index	Is a	
FACILITY-STATUS	Is a	MINEFIELD-MARITIME-STATUS	Subtype	minefield-maritime-status-id object-item-status-index	Is a	
FACILITY-TYPE	Is a	AIRFIELD-TYPE	Subtype	airfield-type-id	Is a	
FACILITY-TYPE	Is a	BRIDGE-TYPE	Subtype	bridge-type-id	Is a	
FACILITY-TYPE	is-used-in-the-definition-of / is -defined-with	ENGINEERING-CAPABILITY	Non-identifying	facility-type-id	One-to- Zero-One-or-More	No Nulls
FACILITY-TYPE	identifies-the-major-building -types-in-a	FACILITY	Non-identifying	facility-major-building-type-id	Zero-or-One-to- Zero-One-or-More	Nulls allowed
FACILITY-TYPE	Is a	HARBOUR-TYPE	Subtype	harbour-type-id	Is a	
FACILITY-TYPE	Is a	MILITARY-OBSTACLE-TYPE	Subtype	military-obstacle-type-id	Is a	
FEATURE	Is a	CONTROL-FEATURE	Subtype	control-feature-id	Is a	
FEATURE	Is a	GEOGRAPHIC-FEATURE	Subtype	geographic-feature-id	Is a	
FEATURE	Is a	METEOROLOGIC-FEATURE	Subtype	meteorologic-feature-id	Is a	
FEATURE-TYPE	Is a	CONTROL-FEATURE-TYPE	Subtype	control-feature-type-id	Is a	
FEATURE-TYPE	Is a	GEOGRAPHIC-FEATURE-TYPE	Subtype	geographic-feature-type-id	Is a	

Parent Entity	Verb Phrase	Child Entity	Relationship Type	Logical Foreign Keys	Cardinality	Nulls
GEOGRAPHIC-FEATURE-STATUS	Is a	LIQUID-BODY-STATUS	Subtype	liquid-body-status-id object-item-status-index	Is a	
GEOGRAPHIC-FEATURE-STATUS	Is a	LIQUID-SURFACE-STATUS	Subtype	liquid-surface-status-id object-item-status-index	Is a	
GEOGRAPHIC-FEATURE-STATUS	Is a	SOLID-SURFACE-STATUS	Subtype	solid-surface-status-id object-item-status-index	Is a	
GEOMETRIC-VOLUME	Is a	CONE-VOLUME	Subtype	cone-volume-id	Is a	
GEOMETRIC-VOLUME	Is a	SPHERE-VOLUME	Subtype	sphere-volume-id	Is a	
GEOMETRIC-VOLUME	Is a	SURFACE-VOLUME	Subtype	surface-volume-id	Is a	
GOVERNMENT-ORGANISATION-TYPE	Is a	MILITARY-ORGANISATION-TYPE	Subtype	military-organisation-type-id	Is a	
GROUP-CHARACTERISTIC	provides-categorisation-for / is-classified-according-to	OBJECT-ITEM-GROUP-ACCOUNT-DETAIL	Non-identifying	group-characteristic-id	Zero-or-One-to-Zero-One-or-More	Nulls allowed
HOLDING	is-changed-by / changes	HOLDING-TRANSFER	Identifying	object-item-id object-type-id holding-index	One-to- Zero-One-or-More	No Nulls
LINE	constitutes-the-set-of-waypoints-for / is-defined-using	CORRIDOR-AREA	Non-identifying	corridor-area-centre-line-id	One-to- Zero-One-or-More	No Nulls
LINE	is-defined-using / is-used-in-the-definition-of	LINE-POINT	Identifying	line-id	One-to- One-or-More (P)	No Nulls
LINE	is-part-of-the-boundary-for	POLYARC-AREA	Non-identifying	polyarc-area-defining-line-id	One-to- Zero-One-or-More	No Nulls
LINE	is-the-boundary-for / is-bounded-by	POLYGON-AREA	Non-identifying	polygon-area-bounding-line-id	One-to- Zero-One-or-More	No Nulls
LOCATION	provides-geometric-definition-for	ACTION-LOCATION	Identifying	location-id	One-to- Zero-One-or-More	No Nulls
LOCATION	Is a	GEOMETRIC-VOLUME	Subtype	geometric-volume-id	Is a	
LOCATION	Is a	LINE	Subtype	line-id	Is a	
LOCATION	provides-geometric-definition-for	OBJECT-ITEM-LOCATION	Identifying	location-id	One-to- Zero-One-or-More	No Nulls
LOCATION	Is a	POINT	Subtype	point-id	Is a	
LOCATION	Is a	SURFACE	Subtype	surface-id	Is a	
MATERIEL	Is a	INSTRUMENT-LANDING-SYSTEM	Subtype	instrument-landing-system-id	Is a	

Parent Entity	Verb Phrase	Child Entity	Relationship Type	Logical Foreign Keys	Cardinality	Nulls
MATERIEL-STATUS	Is a	MINE-STATUS	Subtype	mine-status-id object-item-status-index	Is a	
MATERIEL-STATUS	Is a	UXO-STATUS	Subtype	uxo-status-id object-item-status-index	Is a	
MATERIEL-TYPE	Is a	CONSUMABLE-MATERIEL-TYPE	Subtype	consumable-materiel-type-id	Is a	
MATERIEL-TYPE	Is a	EQUIPMENT-TYPE	Subtype	equipment-type-id	Is a	
MATERIEL-TYPE	is-assigned-reporting-code-in	ORGANISATION-MATERIEL-TYPE -ASSOCIATION	Identifying	materiel-type-id	One-to- Zero-One-or-More	No Nulls
MEDICAL-FACILITY-STATUS	has	MEDICAL-FACILITY-STATUS -CASUALTY-BED-OCCUPANCY	Identifying	medical-facility-status-id object-item-status-index	One-to- Zero-One-or-More	No Nulls
MEDICAL-FACILITY-STATUS	includes-report-of / report-is -part-of	MEDICAL-FACILITY-STATUS-INTERVAL -CASUALTY-GROUP	Identifying	medical-facility-status-id object-item-status-index	One-to- Zero-One-or-More	No Nulls
MEDICAL-FACILITY-STATUS	includes-report-of / report-is -part-of	MEDICAL-FACILITY-STATUS-INTERVAL -CASUALTY-TYPE	Identifying	medical-facility-status-id object-item-status-index	One-to- Zero-One-or-More	No Nulls
MEDICAL-FACILITY-STATUS	includes-report-of / report-is -part-of	MEDICAL-FACILITY-STATUS-INTERVAL -EVACUATION	Identifying	medical-facility-status-id object-item-status-index	One-to- Zero-One-or-More	No Nulls
MEDICAL-FACILITY-STATUS	has	MEDICAL-FACILITY-STATUS-PENDING -CASUALTY-EVACUATION	Identifying	medical-facility-status-id object-item-status-index	One-to- Zero-One-or-More	No Nulls
MEDICAL-FACILITY-STATUS	has	MEDICAL-FACILITY-STATUS-PENDING -SURGERY	Identifying	medical-facility-status-id object-item-status-index	One-to- Zero-One-or-More	No Nulls
METEOROLOGIC-FEATURE	Is a	ATMOSPHERE	Subtype	atmosphere-id	Is a	
METEOROLOGIC-FEATURE	Is a	CLOUD-COVER	Subtype	cloud-cover-id	Is a	
METEOROLOGIC-FEATURE	Is a	ICING	Subtype	icing-id	Is a	
METEOROLOGIC-FEATURE	Is a	LIGHT	Subtype	light-id	Is a	
METEOROLOGIC-FEATURE	Is a	PRECIPITATION	Subtype	precipitation-id	Is a	
METEOROLOGIC-FEATURE	Is a	VISIBILITY	Subtype	visibility-id	Is a	
METEOROLOGIC-FEATURE	Is a	WIND	Subtype	wind-id	Is a	
MILITARY-OBSTACLE	Is a	MINEFIELD	Subtype	minefield-id	Is a	
MILITARY-ORGANISATION -TYPE	Is a	EXECUTIVE-MILITARY-ORGANISATION -TYPE	Subtype	executive-military-organisation-type-id	Is a	
MILITARY-ORGANISATION -TYPE	Is a	MILITARY-POST-TYPE	Subtype	military-post-type-id	Is a	

Parent Entity	Verb Phrase	Child Entity	Relationship Type	Logical Foreign Keys	Cardinality	Nulls
MILITARY-ORGANISATION-TYPE	Is a	TASK-FORMATION-TYPE	Subtype	task-formation-type-id	Is a	
MILITARY-ORGANISATION-TYPE	Is a	UNIT-TYPE	Subtype	unit-type-id	Is a	
MILITARY-ORGANISATION-TYPE	has-for-support-a-specific / is-constituted-to-support	UNIT-TYPE	Non-identifying	unit-type-supported-military-organisation-type-id	Zero-or-One-to-Zero-One-or-More	Nulls allowed
MINEFIELD	Is a	MINEFIELD-LAND	Subtype	minefield-land-id	Is a	
MINEFIELD	Is a	MINEFIELD-MARITIME	Subtype	minefield-maritime-id	Is a	
MINEFIELD-MARITIME	has	MINEFIELD-MARITIME-CASUALTY-ESTIMATE	Identifying	minefield-maritime-id	One-to- Zero-One-or-More	No Nulls
MINEFIELD-MARITIME	has	MINEFIELD-MARITIME-SUSTAINED-THREAT-MEASURE-OF-EFFECTIVENESS	Identifying	minefield-maritime-id	One-to- Zero-One-or-More	No Nulls
NETWORK	has / is-specified-for	NETWORK-CAPACITY	Identifying	network-id	One-to- Zero-One-or-More	No Nulls
NETWORK	uses / is-specified-for	NETWORK-FREQUENCY	Identifying	network-id	One-to- Zero-One-or-More	No Nulls
NETWORK	provides / is-provided-by	NETWORK-SERVICE	Identifying	network-id	One-to- Zero-One-or-More	No Nulls
NETWORK-FREQUENCY	is-assigned-through	OBJECT-ITEM-ADDRESS	Non-identifying	network-id network-frequency-index	Zero-or-One-to-Zero-One-or-More	Nulls allowed
NETWORK-SERVICE	can-be-accessed-via / provides-access-to	ELECTRONIC-ADDRESS	Non-identifying	network-id network-service-index	One-to- Zero-One-or-More	No Nulls
NETWORK-SERVICE	has / is-ascribed-to	NETWORK-SERVICE-STATUS	Identifying	network-id network-service-index	One-to- Zero-One-or-More	No Nulls
NUCLEAR-EVENT	Is a	NUCLEAR-WEAPON-EVENT	Subtype	nuclear-weapon-event-id	Is a	
OBJECT-ITEM	is-specified-in / records-the-observed-results-for	ACTION-EFFECT-ITEM	Non-identifying	object-item-id	One-to- Zero-One-or-More	No Nulls
OBJECT-ITEM	is-specified-as / is-specification-of	ACTION-OBJECTIVE-ITEM	Non-identifying	object-item-id	One-to- Zero-One-or-More	No Nulls
OBJECT-ITEM	is-specified-as / is-specification-of	ACTION-RESOURCE-ITEM	Non-identifying	object-item-id	One-to- Zero-One-or-More	No Nulls
OBJECT-ITEM	is-specified-as / is-a-designation-for	CANDIDATE-TARGET-DETAIL-ITEM	Non-identifying	object-item-id	One-to- Zero-One-or-More	No Nulls
OBJECT-ITEM	is-the-object-of	CONTEXT-OBJECT-ITEM-ASSOCIATION	Identifying	object-item-id	One-to- Zero-One-or-More	No Nulls

Parent Entity	Verb Phrase	Child Entity	Relationship Type	Logical Foreign Keys	Cardinality	Nulls
OBJECT-ITEM	Is a	FACILITY	Subtype	facility-id	Is a	
OBJECT-ITEM	Is a	FEATURE	Subtype	feature-id	Is a	
OBJECT-ITEM	has / belongs-to	HOLDING	Identifying	object-item-id	One-to- Zero-One-or-More	No Nulls
OBJECT-ITEM	is-correspondent-in / is-transaction-for	HOLDING-TRANSFER	Non-identifying	holding-transfer-corresponding-object-item-id	Zero-or-One-to-Zero-One-or-More	Nulls allowed
OBJECT-ITEM	Is a	MATERIEL	Subtype	materiel-id	Is a	
OBJECT-ITEM	has-for-address / is-the-address-for	OBJECT-ITEM-ADDRESS	Identifying	object-item-id	One-to- Zero-One-or-More	No Nulls
OBJECT-ITEM	has	OBJECT-ITEM-AFFILIATION	Identifying	object-item-id	One-to- Zero-One-or-More	No Nulls
OBJECT-ITEM	has	OBJECT-ITEM-ALIAS	Identifying	object-item-id	One-to- Zero-One-or-More	No Nulls
OBJECT-ITEM	is-the-subject-of	OBJECT-ITEM-ASSOCIATION	Identifying	object-item-association-subject-object-item-id	One-to- Zero-One-or-More	No Nulls
OBJECT-ITEM	is-the-object-of	OBJECT-ITEM-ASSOCIATION	Identifying	object-item-association-object-object-item-id	One-to- Zero-One-or-More	No Nulls
OBJECT-ITEM	is-specified-with / is-specified-for	OBJECT-ITEM-CAPABILITY	Identifying	object-item-id	One-to- Zero-One-or-More	No Nulls
OBJECT-ITEM	has-remarks-added-by / provides-remarks-about	OBJECT-ITEM-COMMENT	Identifying	object-item-id	One-to- Zero-One-or-More	No Nulls
OBJECT-ITEM	has-an-associated / is-associated-with	OBJECT-ITEM-GROUP-ACCOUNT	Identifying	object-item-id	One-to- Zero-One-or-More	No Nulls
OBJECT-ITEM	has / is-ascribed-to	OBJECT-ITEM-HOSTILITY-STATUS	Identifying	object-item-id	One-to- Zero-One-or-More	No Nulls
OBJECT-ITEM	is-geometrically-defined-through	OBJECT-ITEM-LOCATION	Identifying	object-item-id	One-to- Zero-One-or-More	No Nulls
OBJECT-ITEM	is-assigned-establishment-through	OBJECT-ITEM-OBJECT-TYPE-ESTABLISHMENT	Identifying	object-item-id	One-to- Zero-One-or-More	No Nulls
OBJECT-ITEM	has-relevant-information-in	OBJECT-ITEM-REFERENCE-ASSOCIATION	Identifying	object-item-id	One-to- Zero-One-or-More	No Nulls
OBJECT-ITEM	has / is-ascribed-to	OBJECT-ITEM-STATUS	Identifying	object-item-id	One-to- Zero-One-or-More	No Nulls
OBJECT-ITEM	is-classified-as	OBJECT-ITEM-TYPE	Identifying	object-item-id	One-to- One-or-More (P)	No Nulls
OBJECT-ITEM	Is a	ORGANISATION	Subtype	organisation-id	Is a	
OBJECT-ITEM	Is a	PERSON	Subtype	person-id	Is a	
OBJECT-ITEM-ASSOCIATION	has / is-ascribed-to	OBJECT-ITEM-ASSOCIATION-STATUS	Identifying	object-item-association-subject-object-item-id object-item-association-object-object-item-id	One-to- One-or-More (P)	No Nulls

Parent Entity	Verb Phrase	Child Entity	Relationship Type	Logical Foreign Keys	Cardinality	Nulls
				object-item-association-index		
OBJECT-ITEM-ASSOCIATION	is-referenced-in / refers-to	ORGANISATION-STRUCTURE-DETAIL	Non-identifying	object-item-association-subject-object-item-id object-item-association-object-object-item-id object-item-association-index	One-to- Zero-One-or-More	No Nulls
OBJECT-ITEM-GROUP-ACCOUNT	is-enumerated-in / is-part-of	OBJECT-ITEM-GROUP-ACCOUNT-DETAIL	Identifying	object-item-id object-item-group-account-index	One-to- Zero-One-or-More	No Nulls
OBJECT-ITEM-LOCATION	provides-coordinate-frame-reference-for	OBJECT-REFERENCE	Non-identifying	object-reference-object-item-id object-reference-location-id object-reference-object-item-location-index	One-to- Zero-One-or-More	No Nulls
OBJECT-ITEM-STATUS	Is a	CONTROL-FEATURE-STATUS	Subtype	control-feature-status-id object-item-status-index	Is a	
OBJECT-ITEM-STATUS	Is a	FACILITY-STATUS	Subtype	facility-status-id object-item-status-index	Is a	
OBJECT-ITEM-STATUS	Is a	GEOGRAPHIC-FEATURE-STATUS	Subtype	geographic-feature-status-id object-item-status-index	Is a	
OBJECT-ITEM-STATUS	Is a	MATERIEL-STATUS	Subtype	materiel-status-id object-item-status-index	Is a	
OBJECT-ITEM-STATUS	Is a	ORGANISATION-STATUS	Subtype	organisation-status-id object-item-status-index	Is a	
OBJECT-ITEM-STATUS	Is a	PERSON-STATUS	Subtype	person-status-id object-item-status-index	Is a	
OBJECT-TYPE	is-specified-in / records-the-observed-results-for	ACTION-EFFECT-TYPE	Non-identifying	object-type-id	One-to- Zero-One-or-More	No Nulls
OBJECT-TYPE	is-specified-as / is-specification-of	ACTION-OBJECTIVE-TYPE	Non-identifying	object-type-id	One-to- Zero-One-or-More	No Nulls
OBJECT-TYPE	is-specified-as / is-specification-of	ACTION-RESOURCE-TYPE	Non-identifying	object-type-id	One-to- Zero-One-or-More	No Nulls
OBJECT-TYPE	is-specified-as / is-a-designation-for	CANDIDATE-TARGET-DETAIL-TYPE	Non-identifying	object-type-id	One-to- Zero-One-or-More	No Nulls
OBJECT-TYPE	Is a	FACILITY-TYPE	Subtype	facility-type-id	Is a	
OBJECT-TYPE	Is a	FEATURE-TYPE	Subtype	feature-type-id	Is a	
OBJECT-TYPE	is-subject-of / is-constrained-to	HOLDING	Identifying	object-type-id	One-to- Zero-One-or-More	No Nulls
OBJECT-TYPE	Is a	MATERIEL-TYPE	Subtype	materiel-type-id	Is a	
OBJECT-TYPE	is-used-as-a-classification-for	OBJECT-ITEM-TYPE	Identifying	object-type-id	One-to- Zero-One-or-More	No Nulls

Parent Entity	Verb Phrase	Child Entity	Relationship Type	Logical Foreign Keys	Cardinality	Nulls
OBJECT-TYPE	has	OBJECT-TYPE-AFFILIATION	Identifying	object-type-id	One-to- Zero-One-or-More	No Nulls
OBJECT-TYPE	is-specified-as-having / is-normal-quantity-stated-for	OBJECT-TYPE-CAPABILITY-NORM	Identifying	object-type-id	One-to- Zero-One-or-More	No Nulls
OBJECT-TYPE	is-made-up-through / specifies-the-composition-of	OBJECT-TYPE-ESTABLISHMENT	Identifying	established-object-type-id	One-to- Zero-One-or-More	No Nulls
OBJECT-TYPE	is-specified-as-part-of / references	OBJECT-TYPE-ESTABLISHMENT-OBJECT-TYPE-DETAIL	Non-identifying	object-type-establishment-object-type-detail-object-type-id	One-to- Zero-One-or-More	No Nulls
OBJECT-TYPE	has-relevant-information-in	OBJECT-TYPE-REFERENCE-ASSOCIATION	Identifying	object-type-id	One-to- Zero-One-or-More	No Nulls
OBJECT-TYPE	Is a	ORGANISATION-TYPE	Subtype	organisation-type-id	Is a	
OBJECT-TYPE	Is a	PERSON-TYPE	Subtype	person-type-id	Is a	
OBJECT-TYPE	is-the-load-in / specifies-the-stored-amount-of	STORAGE-CAPABILITY	Non-identifying	object-type-id	One-to- Zero-One-or-More	No Nulls
OBJECT-TYPE-ESTABLISHMENT	is-assigned-through	OBJECT-ITEM-OBJECT-TYPE-ESTABLISHMENT	Identifying	established-object-type-id object-type-establishment-index	One-to- Zero-One-or-More	No Nulls
OBJECT-TYPE-ESTABLISHMENT	is-specified-through / is-a-component-of	OBJECT-TYPE-ESTABLISHMENT-OBJECT-TYPE-DETAIL	Identifying	established-object-type-id object-type-establishment-index	One-to- Zero-One-or-More	No Nulls
OBJECT-TYPE-ESTABLISHMENT	identifies-establishment-for-detail-object-type-in / references	OBJECT-TYPE-ESTABLISHMENT-OBJECT-TYPE-DETAIL	Non-identifying	object-type-establishment-detail-object-type-establishment-index object-type-establishment-object-type-detail-object-type-id	Zero-or-One-to-Zero-One-or-More	Nulls allowed
OPERATIONAL-INFORMATION-GROUP	is-cited-by	OPERATIONAL-INFORMATION-GROUP-ORGANISATION-ASSOCIATION	Identifying	operational-information-group-id	One-to- One-or-More (P)	No Nulls
OPERATIONAL-INFORMATION-GROUP	includes / is-included-in	OPERATIONAL-INFORMATION-GROUP-PLAN-ORDER-CONTENT	Identifying	operational-information-group-id	One-to- Zero-One-or-More	No Nulls
OPERATIONAL-INFORMATION-GROUP-ORGANISATION-ASSOCIATION	has / is-ascribed-to	OPERATIONAL-INFORMATION-GROUP-ORGANISATION-ASSOCIATION-STATUS	Identifying	operational-information-group-id organisation-id operational-information-group-organisation-association-index	One-to- One-or-More (P)	No Nulls
ORDER	is-subject-to / is-referenced-to	ORDER-STATUS	Identifying	order-id	One-to- One-or-More (P)	No Nulls
ORGANISATION	establishes / is-established-by	ACTION-CONTEXT-STATUS	Non-identifying	action-context-status-establishing-organisation-id	One-to- Zero-One-or-More	No Nulls
ORGANISATION	is-authority-for-the-use-of / is-used-as-specified-by	ACTION-OBJECTIVE	Non-identifying	action-objective-authorising-organisation-id	Zero-or-One-to-Zero-One-or-More	Nulls allowed

Parent Entity	Verb Phrase	Child Entity	Relationship Type	Logical Foreign Keys	Cardinality	Nulls
ORGANISATION	is-the-user-of / is-used-by	ACTION-OBJECTIVE-ITEM-MARKING	Non-identifying	action-objective-item-marking-using-organisation-id	One-to- Zero-One-or-More	No Nulls
ORGANISATION	is-authority-for-the-use-of / is-used-as-specified-by	ACTION-RESOURCE	Non-identifying	action-resource-authorising-organisation-id	Zero-or-One-to- Zero-One-or-More	Nulls allowed
ORGANISATION	establishes / is-established-by	CONTEXT-ASSOCIATION-STATUS	Non-identifying	context-association-status-establishing-organisation-id	One-to- Zero-One-or-More	No Nulls
ORGANISATION	establishes / is-established-by	CONTEXT-ELEMENT-STATUS	Non-identifying	context-element-status-establishing-organisation-id	One-to- Zero-One-or-More	No Nulls
ORGANISATION	establishes / is-established-by	CONTEXT-OBJECT-ITEM-ASSOCIATION-STATUS	Non-identifying	context-object-item-association-status-establishing-organisation-id	One-to- Zero-One-or-More	No Nulls
ORGANISATION	Is a	CONVOY	Subtype	convoy-id	Is a	
ORGANISATION	has-a-role-with-respect-to	OPERATIONAL-INFORMATION-GROUP-ORGANISATION-ASSOCIATION	Identifying	organisation-id	One-to- Zero-One-or-More	No Nulls
ORGANISATION	establishes / is-established-by	OPERATIONAL-INFORMATION-GROUP-ORGANISATION-ASSOCIATION-STATUS	Non-identifying	operational-information-group-organisation-association-status-establishing-organisation-id	One-to- Zero-One-or-More	No Nulls
ORGANISATION	has-its-role-specified-through	ORGANISATION-ACTION-ASSOCIATION	Identifying	organisation-id	One-to- Zero-One-or-More	No Nulls
ORGANISATION	specifies	ORGANISATION-ACTION-TASK-RULE-OF-ENGAGEMENT-STATUS	Identifying	organisation-action-task-rule-of-engagement-status-organisation-id	One-to- Zero-One-or-More	No Nulls
ORGANISATION	assigns-reporting-code-in	ORGANISATION-MATERIEL-TYPE-ASSOCIATION	Identifying	organisation-id	One-to- Zero-One-or-More	No Nulls
ORGANISATION	has-role-for	ORGANISATION-PLAN-ORDER-ASSOCIATION	Identifying	organisation-id	One-to- Zero-One-or-More	No Nulls
ORGANISATION	establishes	ORGANISATION-PLAN-ORDER-ASSOCIATION-STATUS	Non-identifying	establishing-organisation-id	One-to- Zero-One-or-More	No Nulls
ORGANISATION	has-a-role-with-respect-to	ORGANISATION-REFERENCE-ASSOCIATION	Identifying	organisation-id	One-to- Zero-One-or-More	No Nulls
ORGANISATION	is-configured-as-specified-in / specifies-the-configuration-of	ORGANISATION-STRUCTURE	Identifying	organisation-structure-root-organisation-id	One-to- Zero-One-or-More	No Nulls
ORGANISATION	is-recipient-of	PLAN-ORDER-DISTRIBUTION	Non-identifying	recipient-organisation-id	One-to- Zero-One-or-More	No Nulls
ORGANISATION	is-the-reporting-agent-for / is-reported-by	REPORTING-DATA	Non-identifying	reporting-data-reporting-organisation-id	One-to- Zero-One-or-More	No Nulls
ORGANISATION	is-the-owner-of	RULE-OF-ENGAGEMENT	Non-identifying	owning-organisation-id	Zero-or-One-to-	Nulls

Parent Entity	Verb Phrase	Child Entity	Relationship Type	Logical Foreign Keys	Cardinality	Nulls
					Zero-One-or-More	allowed
ORGANISATION	Is a	UNIT	Subtype	unit-id	Is a	
ORGANISATION-PLAN-ORDER-ASSOCIATION	has / is-ascribed-to	ORGANISATION-PLAN-ORDER-ASSOCIATION-STATUS	Identifying	organisation-id plan-order-id organisation-plan-order-association-index	One-to- Zero-One-or-More	No Nulls
ORGANISATION-STRUCTURE	is-specified-for / requires-the-use-of	ACTION-TASK	Non-identifying	organisation-structure-root-organisation-id organisation-structure-index	Zero-or-One-to- Zero-One-or-More	Nulls allowed
ORGANISATION-STRUCTURE	includes / is-an-element-of	ORGANISATION-STRUCTURE-DETAIL	Identifying	organisation-structure-root-organisation-id organisation-structure-index	One-to- One-or-More (P)	No Nulls
ORGANISATION-TYPE	Is a	CIVILIAN-POST-TYPE	Subtype	civilian-post-type-id	Is a	
ORGANISATION-TYPE	Is a	GOVERNMENT-ORGANISATION-TYPE	Subtype	government-organisation-type-id	Is a	
ORGANISATION-TYPE	Is a	GROUP-ORGANISATION-TYPE	Subtype	group-organisation-type-id	Is a	
ORGANISATION-TYPE	Is a	PRIVATE-SECTOR-ORGANISATION-TYPE	Subtype	private-sector-organisation-type-id	Is a	
PERSON	is-identified-by / identifies	PERSON-IDENTIFICATION-DOCUMENT	Identifying	person-id	One-to- Zero-One-or-More	No Nulls
PERSON	is-recognised-as-having / is-ascribed-to	PERSON-LANGUAGE-SKILL	Identifying	person-id	One-to- Zero-One-or-More	No Nulls
PERSON-TYPE	is-cited-in / is-the-count-of	OBJECT-ITEM-GROUP-ACCOUNT-DETAIL	Non-identifying	person-type-id	One-to- Zero-One-or-More	No Nulls
PLAN	is-subject-to / is-referenced-to	PLAN-STATUS	Identifying	plan-id	One-to- One-or-More (P)	No Nulls
PLAN-ORDER	is-cited-in / cites	OPERATIONAL-INFORMATION-GROUP-PLAN-ORDER-CONTENT	Non-identifying	plan-order-id	One-to- Zero-One-or-More	No Nulls
PLAN-ORDER	Is a	ORDER	Subtype	order-id	Is a	
PLAN-ORDER	is-subject-to	ORGANISATION-PLAN-ORDER-ASSOCIATION	Identifying	plan-order-id	One-to- Zero-One-or-More	No Nulls
PLAN-ORDER	Is a	PLAN	Subtype	plan-id	Is a	
PLAN-ORDER	is-the-subject-of	PLAN-ORDER-ASSOCIATION	Identifying	plan-order-association-subject-plan-order-id	One-to- Zero-One-or-More	No Nulls
PLAN-ORDER	is-the-object-of	PLAN-ORDER-ASSOCIATION	Identifying	plan-order-association-object-plan-order-id	One-to- Zero-One-or-More	No Nulls
PLAN-ORDER	includes / is-part-of	PLAN-ORDER-COMPONENT	Identifying	plan-order-id	One-to- Zero-One-or-More	No Nulls
PLAN-ORDER	is-distributed-to	PLAN-ORDER-DISTRIBUTION	Identifying	plan-order-id	One-to- Zero-One-or-More	No Nulls
PLAN-ORDER	has / applies-to	PLAN-ORDER-HEADER-CONTENT	Identifying	plan-order-id	One-to- One-or-More (P)	No Nulls

Parent Entity	Verb Phrase	Child Entity	Relationship Type	Logical Foreign Keys	Cardinality	Nulls
PLAN-ORDER-COMPONENT	is-defined-by / provides -content-for	PLAN-ORDER-COMPONENT-CONTENT	Identifying	plan-order-id plan-order-component-index	One-to- One-or-More (P)	No Nulls
PLAN-ORDER-COMPONENT	is-the-subject-of	PLAN-ORDER-COMPONENT -STRUCTURE	Identifying	plan-order-component-structure-subject-plan -order-id plan-order-component-structure-subject-plan -order-component-index	One-to- Zero-One-or-More	No Nulls
PLAN-ORDER-COMPONENT	is-the-object-of	PLAN-ORDER-COMPONENT -STRUCTURE	Identifying	plan-order-component-structure-object-plan -order-id plan-order-component-structure-object-plan -order-component-index	One-to- Zero-One-or-More	No Nulls
PLAN-ORDER-COMPONENT -CONTENT	cites-as-amplifying-information / is-cited-in	PLAN-ORDER-COMPONENT-CONTENT -REFERENCE	Identifying	plan-order-id plan-order-component-index plan-order-component-content-index	One-to- Zero-One-or-More	No Nulls
PLAN-ORDER -DISTRIBUTION	is-subject-to / is-response-to	PLAN-ORDER-DISTRIBUTION -ACKNOWLEDGEMENT	Identifying	plan-order-id plan-order-distribution-index	One-to- Zero-One-or-More	No Nulls
POINT	Is a	ABSOLUTE-POINT	Subtype	absolute-point-id	Is a	
POINT	is-the-vertex-for / has-as-its -vertex	CONE-VOLUME	Non-identifying	cone-volume-vertex-point-id	One-to- Zero-One-or-More	No Nulls
POINT	is-the-centre-for / has-as-its -centre	ELLIPSE	Non-identifying	ellipse-centre-point-id	One-to- Zero-One-or-More	No Nulls
POINT	is-the-first-conjugate-point-for / has-as-its-first-conjugate-point	ELLIPSE	Non-identifying	ellipse-first-conjugate-diameter-point-id	One-to- Zero-One-or-More	No Nulls
POINT	is-the-second-conjugate-point -for / has-as-its-second -conjugate-point	ELLIPSE	Non-identifying	ellipse-second-conjugate-diameter-point-id	One-to- Zero-One-or-More	No Nulls
POINT	is-the-vertex-for / is-defined -using	FAN-AREA	Non-identifying	fan-area-vertex-point-id	One-to- Zero-One-or-More	No Nulls
POINT	is-used-as / makes-reference -to	LINE-POINT	Non-identifying	line-point-point-id	One-to- Zero-One-or-More	No Nulls
POINT	is-first-point-for / is-defined -using	ORBIT-AREA	Non-identifying	orbit-area-first-point-id	One-to- Zero-One-or-More	No Nulls
POINT	is-second-point-for / is-defined -using	ORBIT-AREA	Non-identifying	orbit-area-second-point-id	One-to- Zero-One-or-More	No Nulls
POINT	is-origin-for / is-defined-using	POINT-REFERENCE	Non-identifying	point-reference-origin-point-id	One-to- Zero-One-or-More	No Nulls
POINT	is-endpoint-of-x-vector-for / is -defined-using	POINT-REFERENCE	Non-identifying	point-reference-x-vector-point-id	One-to- Zero-One-or-More	No Nulls

Parent Entity	Verb Phrase	Child Entity	Relationship Type	Logical Foreign Keys	Cardinality	Nulls
POINT	is-endpoint-of-y-vector-for / is-defined-using	POINT-REFERENCE	Non-identifying	point-reference-y-vector-point-id	One-to- Zero-One-or-More	No Nulls
POINT	is-used-to-define / has-as-its-bearing-origin	POLYARC-AREA	Non-identifying	polyarc-area-bearing-origin-point-id	One-to- Zero-One-or-More	No Nulls
POINT	Is a	RELATIVE-POINT	Subtype	relative-point-id	Is a	
POINT	is-the-centre-for / has-as-its-centre	SPHERE-VOLUME	Non-identifying	sphere-volume-centre-point-id	One-to- Zero-One-or-More	No Nulls
POINT	is-beginning-point-for / is-defined-using	TRACK-AREA	Non-identifying	track-area-begin-point-id	One-to- Zero-One-or-More	No Nulls
POINT	is-ending-point-for / is-defined-using	TRACK-AREA	Non-identifying	track-area-end-point-id	One-to- Zero-One-or-More	No Nulls
RADIOACTIVE-EVENT	Is a	NUCLEAR-EVENT	Subtype	nuclear-event-id	Is a	
RADIOACTIVE-EVENT	Is a	RADIOLOGICAL-EVENT	Subtype	radiological-event-id	Is a	
REFERENCE	applies-to	ACTION-REFERENCE-ASSOCIATION	Identifying	reference-id	One-to- Zero-One-or-More	No Nulls
REFERENCE	applies-to	CAPABILITY-REFERENCE-ASSOCIATION	Identifying	reference-id	One-to- Zero-One-or-More	No Nulls
REFERENCE	applies-to	OBJECT-ITEM-REFERENCE-ASSOCIATION	Identifying	reference-id	One-to- Zero-One-or-More	No Nulls
REFERENCE	applies-to	OBJECT-TYPE-REFERENCE-ASSOCIATION	Identifying	reference-id	One-to- Zero-One-or-More	No Nulls
REFERENCE	is-administered-by	ORGANISATION-REFERENCE-ASSOCIATION	Identifying	reference-id	One-to- Zero-One-or-More	No Nulls
REFERENCE	is-cited-in / cites	PLAN-ORDER-COMPONENT-CONTENT-REFERENCE	Non-identifying	reference-id	One-to- Zero-One-or-More	No Nulls
REFERENCE	is-the-subject-of	REFERENCE-ASSOCIATION	Identifying	reference-association-subject-reference-id	One-to- Zero-One-or-More	No Nulls
REFERENCE	is-the-object-of	REFERENCE-ASSOCIATION	Identifying	reference-association-object-reference-id	One-to- Zero-One-or-More	No Nulls
REFERENCE	provides-information-related-to / is-amplified-by	REPORTING-DATA	Non-identifying	reference-id	Zero-or-One-to-Zero-One-or-More	Nulls allowed
RELATIVE-COORDINATE-SYSTEM	Is a	OBJECT-REFERENCE	Subtype	relative-coordinate-system-id	Is a	
RELATIVE-COORDINATE-SYSTEM	Is a	POINT-REFERENCE	Subtype	relative-coordinate-system-id	Is a	
RELATIVE-COORDINATE	used-for-expression-of /	RELATIVE-POINT	Non-identifying	relative-coordinate-system-id	One-to- Zero-One-or-More	No Nulls

Parent Entity	Verb Phrase	Child Entity	Relationship Type	Logical Foreign Keys	Cardinality	Nulls
-SYSTEM	expressed-with-reference-to					
REPORTING-DATA	provides-applicable -information-for / is-referenced -to	ACTION-COMMENT	Non-identifying	reporting-data-id	One-to- Zero-One-or-More	No Nulls
REPORTING-DATA	provides-applicable -information-for / is-referenced -to	ACTION-EFFECT	Non-identifying	reporting-data-id	One-to- Zero-One-or-More	No Nulls
REPORTING-DATA	provides-applicable -information-for / is-referenced -to	ACTION-EVENT-DETAIL	Non-identifying	reporting-data-id	One-to- Zero-One-or-More	No Nulls
REPORTING-DATA	provides-applicable -information-for / is-referenced -to	ACTION-EVENT-STATUS	Non-identifying	reporting-data-id	One-to- Zero-One-or-More	No Nulls
REPORTING-DATA	provides-applicable -information-for / is-referenced -to	ACTION-LOCATION	Non-identifying	reporting-data-id	Zero-or-One-to- Zero-One-or-More	Nulls allowed
REPORTING-DATA	provides-applicable -information-for / is-referenced -to	ACTION-TASK-STATUS	Non-identifying	reporting-data-id	One-to- Zero-One-or-More	No Nulls
REPORTING-DATA	identifies-the-source-for / is -referenced-to	CANDIDATE-TARGET-DETAIL -AUTHORISATION	Non-identifying	reporting-data-id	One-to- Zero-One-or-More	No Nulls
REPORTING-DATA	identifies-the-source-for / is -referenced-to	CANDIDATE-TARGET-LIST	Non-identifying	reporting-data-id	One-to- Zero-One-or-More	No Nulls
REPORTING-DATA	identifies-the-source-for / is -referenced-to	CANDIDATE-TARGET-LIST -AUTHORISATION	Non-identifying	reporting-data-id	One-to- Zero-One-or-More	No Nulls
REPORTING-DATA	provides-applicable -information-for / is-referenced -to	CONTEXT-ASSESSMENT	Non-identifying	reporting-data-id	One-to- Zero-One-or-More	No Nulls
REPORTING-DATA	is-cited-in / is-referenced-to	CONTEXT-ELEMENT	Non-identifying	reporting-data-id	One-to- Zero-One-or-More	No Nulls
REPORTING-DATA	is-the-object-of	CONTEXT-REPORTING-DATA -ASSOCIATION	Identifying	reporting-data-id	One-to- Zero-One-or-More	No Nulls
REPORTING-DATA	provides-applicable -information-for / is-referenced -to	HOLDING	Non-identifying	reporting-data-id	One-to- Zero-One-or-More	No Nulls
REPORTING-DATA	provides-applicable -information-for / is-referenced -to	HOLDING-TRANSFER	Non-identifying	reporting-data-id	One-to- Zero-One-or-More	No Nulls

Parent Entity	Verb Phrase	Child Entity	Relationship Type	Logical Foreign Keys	Cardinality	Nulls
REPORTING-DATA	provides-applicable -information-for / is-referenced -to	NETWORK-SERVICE-STATUS	Non-identifying	reporting-data-id	One-to- Zero-One-or-More	No Nulls
REPORTING-DATA	provides-applicable -information-for / is-referenced -to	OBJECT-ITEM-ADDRESS	Non-identifying	reporting-data-id	Zero-or-One-to- Zero-One-or-More	Nulls allowed
REPORTING-DATA	provides-applicable -information-for / is-referenced -to	OBJECT-ITEM-AFFILIATION	Non-identifying	reporting-data-id	One-to- Zero-One-or-More	No Nulls
REPORTING-DATA	provides-applicable -information-for / is-referenced -to	OBJECT-ITEM-ASSOCIATION-STATUS	Non-identifying	reporting-data-id	One-to- Zero-One-or-More	No Nulls
REPORTING-DATA	provides-applicable -information-for / is-referenced -to	OBJECT-ITEM-CAPABILITY	Non-identifying	reporting-data-id	One-to- Zero-One-or-More	No Nulls
REPORTING-DATA	provides-applicable -information-for / is-referenced -to	OBJECT-ITEM-COMMENT	Non-identifying	reporting-data-id	One-to- Zero-One-or-More	No Nulls
REPORTING-DATA	provides-applicable -information-for / is-referenced -to	OBJECT-ITEM-GROUP-ACCOUNT	Non-identifying	reporting-data-id	One-to- Zero-One-or-More	No Nulls
REPORTING-DATA	provides-applicable -information-for / is-referenced -to	OBJECT-ITEM-HOSTILITY-STATUS	Non-identifying	reporting-data-id	One-to- Zero-One-or-More	No Nulls
REPORTING-DATA	provides-applicable -information-for / is-referenced -to	OBJECT-ITEM-LOCATION	Non-identifying	reporting-data-id	One-to- Zero-One-or-More	No Nulls
REPORTING-DATA	provides-applicable -information-for / is-referenced -to	OBJECT-ITEM-STATUS	Non-identifying	reporting-data-id	One-to- Zero-One-or-More	No Nulls
REPORTING-DATA	provides-applicable -information-for / is-referenced -to	OBJECT-ITEM-TYPE	Non-identifying	reporting-data-id	One-to- Zero-One-or-More	No Nulls
REPORTING-DATA	provides-applicable -information-for / is-referenced -to	ORGANISATION-STRUCTURE	Non-identifying	reporting-data-id	One-to- Zero-One-or-More	No Nulls
REPORTING-DATA	Is a	REPORTING-DATA-ABSOLUTE-TIMING	Subtype	reporting-data-absolute-timing-reporting-data -id	Is a	

Parent Entity	Verb Phrase	Child Entity	Relationship Type	Logical Foreign Keys	Cardinality	Nulls
REPORTING-DATA	Is a	REPORTING-DATA-RELATIVE-TIMING	Subtype	reporting-data-relative-timing-reporting-data-id	Is a	
REPORTING-DATA	provides-applicable-information-for / is-referenced-to	REQUEST-ANSWER	Non-identifying	reporting-data-id	One-to- Zero-One-or-More	No Nulls
REPORTING-DATA	is-part-of	REQUEST-ANSWER-ELEMENT	Identifying	comprising-reporting-data-id	One-to- Zero-One-or-More	No Nulls
REPORTING-DATA	provides-applicable-information-for / is-referenced-to	TARGET-PERSONNEL-PROTECTION	Non-identifying	reporting-data-id	Zero-or-One-to-Zero-One-or-More	Nulls allowed
REQUEST	results-in / is-a-response-to	REQUEST-ANSWER	Identifying	request-id	One-to- Zero-One-or-More	No Nulls
REQUEST-ANSWER	is-comprised-of	REQUEST-ANSWER-ELEMENT	Identifying	request-id request-answer-index	One-to- Zero-One-or-More	No Nulls
ROUTE-SEGMENT	Is a	AIR-ROUTE-SEGMENT	Subtype	air-route-segment-id	Is a	
RULE-OF-ENGAGEMENT	is-a-constraint-on	ACTION-TASK-RULE-OF-ENGAGEMENT	Identifying	rule-of-engagement-id	One-to- Zero-One-or-More	No Nulls
RUNWAY	is-the-subject-of	RUNWAY-APPROACH-DIRECTION-ASSOCIATION	Identifying	runway-id	One-to- Zero-One-or-More	No Nulls
SECURITY-CLASSIFICATION	applies-to / is-marked-with	COMPONENT-HEADER-CONTENT	Non-identifying	security-classification-id	Zero-or-One-to-Zero-One-or-More	Nulls allowed
SECURITY-CLASSIFICATION	provides-to	CONTEXT	Non-identifying	security-classification-id	Zero-or-One-to-Zero-One-or-More	Nulls allowed
SECURITY-CLASSIFICATION	provides-to	NETWORK-SERVICE	Non-identifying	security-classification-id	One-to- Zero-One-or-More	No Nulls
SECURITY-CLASSIFICATION	applies-to / is-marked-with	PLAN-ORDER-HEADER-CONTENT	Non-identifying	security-classification-id	Zero-or-One-to-Zero-One-or-More	Nulls allowed
SECURITY-CLASSIFICATION	provides-to	REFERENCE	Non-identifying	security-classification-id	Zero-or-One-to-Zero-One-or-More	Nulls allowed
SURFACE	is-used-to-define / is-defined-using	CONE-VOLUME	Non-identifying	cone-volume-defining-surface-id	One-to- Zero-One-or-More	No Nulls
SURFACE	Is a	CORRIDOR-AREA	Subtype	corridor-area-id	Is a	
SURFACE	Is a	ELLIPSE	Subtype	ellipse-id	Is a	
SURFACE	Is a	FAN-AREA	Subtype	fan-area-id	Is a	
SURFACE	Is a	ORBIT-AREA	Subtype	orbit-area-id	Is a	
SURFACE	Is a	POLYARC-AREA	Subtype	polyarc-area-id	Is a	

Parent Entity	Verb Phrase	Child Entity	Relationship Type	Logical Foreign Keys	Cardinality	Nulls
SURFACE	Is a	POLYGON-AREA	Subtype	polygon-area-id	Is a	
SURFACE	is-used-to-define / is-defined -using	SURFACE-VOLUME	Non-identifying	surface-volume-defining-surface-id	One-to- Zero-One-or-More	No Nulls
SURFACE	Is a	TRACK-AREA	Subtype	track-area-id	Is a	
TARGET	is-recognised-as-having / is -ascribed-to	TARGET-PERSONNEL-PROTECTION	Identifying	action-id action-objective-index	One-to- Zero-or-One (Z)	No Nulls
VERTICAL-DISTANCE	is-specified-for	ABSOLUTE-POINT	Non-identifying	absolute-point-vertical-distance-id	Zero-or-One-to- Zero-One-or-More	Nulls allowed
VERTICAL-DISTANCE	bounds-on-the-bottom	GEOMETRIC-VOLUME	Non-identifying	geometric-volume-lower-vertical-distance-id	Zero-or-One-to- Zero-One-or-More	Nulls allowed
VERTICAL-DISTANCE	bounds-on-the-top	GEOMETRIC-VOLUME	Non-identifying	geometric-volume-upper-vertical-distance-id	Zero-or-One-to- Zero-One-or-More	Nulls allowed
VESSEL-TYPE	Is a	SUBSURFACE-VESSEL-TYPE	Subtype	subsurface-vessel-type-id	Is a	
VESSEL-TYPE	Is a	SURFACE-VESSEL-TYPE	Subtype	surface-vessel-type-id	Is a	