

| 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 | 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 | |
| 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 |

| Parent Entity | Verb Phrase | Child Entity | Relationship Type | Logical Foreign Keys | Cardinality | 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 | |
| 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 | Identifying | action-task-id | One-to- Zero-One-or-More | No Nulls |

| Parent Entity | Verb Phrase | Child Entity | Relationship Type | Logical Foreign Keys | Cardinality | Nulls |
|--------------------------------|---|--|-------------------|---|----------------------------------|---------------|
| | | -ENGAGEMENT | | | | |
| 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 |
| 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 |

| Parent Entity | Verb Phrase | Child Entity | Relationship Type | Logical Foreign Keys | Cardinality | 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 | |
| CAPABILITY | Is a | SUPPORT-CAPABILITY | Subtype | support-capability-id | Is a | |
| CAPABILITY | Is a | SURVEILLANCE-CAPABILITY | Subtype | surveillance-capability-id | Is a | |

| Parent Entity | Verb Phrase | Child Entity | Relationship Type | Logical Foreign Keys | Cardinality | Nulls |
|--------------------------|---|------------------------------------|-------------------|---|----------------------------------|---------------|
| 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 |
| CONTEXT-ELEMENT | has / is-ascribed-to | CONTEXT-ELEMENT-STATUS | Identifying | context-id context-element-index | One-to- One-or-More (P) | No Nulls |

| Parent Entity | Verb Phrase | Child Entity | Relationship Type | Logical Foreign Keys | Cardinality | 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 | |
| FACILITY | Is a | DRY-DOCK | Subtype | dry-dock-id | Is a | |

| Parent Entity | Verb Phrase | Child Entity | Relationship Type | Logical Foreign Keys | Cardinality | Nulls |
|-------------------------------|--|---------------------------|-------------------|--|-------------------------------------|------------------|
| 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 | |
| GEOGRAPHIC-FEATURE -STATUS | Is a | LIQUID-BODY-STATUS | Subtype | liquid-body-status-id object-item-status-index | Is a | |

| Parent Entity | Verb Phrase | Child Entity | Relationship Type | Logical Foreign Keys | Cardinality | Nulls |
|------------------------------|--|----------------------------------|-------------------|--|---------------------------------|---------------|
| 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 | |
| MATERIEL-STATUS | Is a | MINE-STATUS | Subtype | mine-status-id object-item-status-index | Is a | |

| Parent Entity | Verb Phrase | Child Entity | Relationship Type | Logical Foreign Keys | Cardinality | Nulls |
|--------------------------------|--|---|-------------------|--|--------------------------|----------|
| 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 | |
| MILITARY-ORGANISATION -TYPE | Is a | TASK-FORMATION-TYPE | Subtype | task-formation-type-id | Is a | |

| Parent Entity | Verb Phrase | Child Entity | Relationship Type | Logical Foreign Keys | Cardinality | Nulls |
|----------------------------|--|--|-------------------|---|---------------------------------|---------------|
| 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 |
| OBJECT-ITEM | Is a | FACILITY | Subtype | facility-id | Is a | |
| OBJECT-ITEM | Is a | FEATURE | Subtype | feature-id | Is a | |

| Parent Entity | Verb Phrase | Child Entity | Relationship Type | Logical Foreign Keys | Cardinality | Nulls |
|-------------------------|--|---------------------------------------|-------------------|--|---------------------------------|---------------|
| 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-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 object-item-association-index | One-to- One-or-More (P) | No Nulls |
| 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 | is-enumerated-in / is-part-of | OBJECT-ITEM-GROUP-ACCOUNT | 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 |
|----------------------|--|------------------------------|-------------------|--|--------------------------|----------|
| -ACCOUNT | | -DETAIL | | object-item-group-account-index | | |
| 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 |
| 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 | OBJECT-TYPE-ESTABLISHMENT | Identifying | established-object-type-id | One-to- Zero-One-or-More | No Nulls |

| Parent Entity | Verb Phrase | Child Entity | Relationship Type | Logical Foreign Keys | Cardinality | Nulls |
|--|--|---|-------------------|---|-------------------------------------|------------------|
| | -the-composition-of | | | | | |
| 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 |
| 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 |

| Parent Entity | Verb Phrase | Child Entity | Relationship Type | Logical Foreign Keys | Cardinality | Nulls |
|-------------------------------------|--|---|-------------------|--|---------------------------------|---------------|
| 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-Zero-One-or-More | Nulls 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 | One-to- Zero-One-or-More | No Nulls |

| Parent Entity | Verb Phrase | Child Entity | Relationship Type | Logical Foreign Keys | Cardinality | Nulls |
|------------------------|--|--|-------------------|---|---------------------------------|---------------|
| | | | | organisation-plan-order-association-index | | |
| 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 |
| 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 | One-to- Zero-One-or-More | No Nulls |

| Parent Entity | Verb Phrase | Child Entity | Relationship Type | Logical Foreign Keys | Cardinality | Nulls |
|------------------------------|---|---|-------------------|---|--------------------------|----------|
| | | | | plan-order-component-structure-subject-plan-order-component-index | | |
| 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 |
| 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 | POLYARC-AREA | Non-identifying | polyarc-area-bearing-origin-point-id | One-to- Zero-One-or-More | No Nulls |

| Parent Entity | Verb Phrase | Child Entity | Relationship Type | Logical Foreign Keys | Cardinality | Nulls |
|----------------------------|---|--|-------------------|--|-------------------------------------|------------------|
| | -bearing-origin | | | | | |
| 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-SYSTEM | used-for-expression-of / expressed-with-reference-to | RELATIVE-POINT | Non-identifying | relative-coordinate-system-id | One-to- Zero-One-or-More | No Nulls |
| REPORTING-DATA | provides-applicable -information-for / is-referenced | ACTION-EFFECT | 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 |
|----------------|--|---|-------------------|----------------------|-------------------------------------|------------------|
| | -to | | | | | |
| 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 |
| 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 |

| Parent Entity | Verb Phrase | Child Entity | Relationship Type | Logical Foreign Keys | Cardinality | Nulls |
|----------------|--|--------------------------------|-------------------|--|-------------------------------------|------------------|
| 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-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 | |
| 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 |

| Parent Entity | Verb Phrase | Child Entity | Relationship Type | Logical Foreign Keys | Cardinality | Nulls |
|-------------------------|---|---------------------------------------|-------------------|-------------------------------------|----------------------------------|---------------|
| 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 | |
| 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 |

| Parent Entity | Verb Phrase | Child Entity | Relationship Type | Logical Foreign Keys | Cardinality | Nulls |
|-------------------|----------------------|------------------------|-------------------|---|---------------------------------|---------------|
| 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 | |