2020

# Sketch-Thru-Plan Military Symbol Gestures





Version History

| Date     | Description   | Version |
|----------|---------------|---------|
| Feb 2020 | Initial draft | 1.0     |

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#### 1 Introduction

This document describes the stroked/inked gestures employed by Sketch-Thru-Plan (STP) to designate the location of military symbols being placed on a map via a stylus, touch or mouse, as users define Courses of Action.

STP fuses this location information with the users' spoken doctrine to determine which symbol is desired at the particular location. As an example, the user may draw a Point and speak "Recon Platton" to place such a unit at a desired location on the map.

Most symbols can be placed by a Point, Line or Area location. STP also supports additional gestures that simplify the specification of the location of a large number of symbols that require additional width, angle and direction information. All of these are described in detail here.

#### 1.1 Intended audience

- Developers looking for details on STP's stroked gestures and related anchor points
- General users that want to deepen their understanding of stroked gestures they can use to place different categories of symbols

#### 1.2 Related documentation

- MIL-STD-2525D Joint Military Symbology Standard

#### 2 Overview

As part of the natural language interpretation that it performs, STP extracts *anchor points* that describe location, size and orientation of the symbols. STP follows the anchor points Draw Rules definitions both in terms of the number of points as well as their order, as documented e.g. in Appendix H of the MIL-STD-2525D Joint Military Symbology standard.

To simplify input, STP adopts a few classes of single stroke representations that can be used to place symbols that may require multiple anchor points. The great majority of symbols can be placed by simply using a Point, a Line, or an Area (PLA). For the small number of symbols that require additional detail that will not fit within PLA stroke gestures, STP provides five additional stroke styles – "harpoon", "ubend", "hook", "open circle" that allow for the capture of the required anchor points in a uniform way across a variety of different symbols. Table 1 summarizes the supported stroked gestures.

Table 1 - STP stroked gestures

| Sketch  | Description   | Sample <sup>1</sup> | Class                         |
|---------|---|---------------------|-------------------------------|
| Point   | Point, small line, small dot/circle<br>Single anchor point indicates the<br>middle or base of a symbol  | 1 or 1 or 1         | Point                         |
| Line    | One or more line segments of a single stroke. Two or more anchor points indicate beginning and end of potentially multiple line segments.  Some symbols are defined by a single (2-point) segment.  Inflection points are automatically ignored in this case. | 1 2 3 4 5 6 7 8 n   | Line StraightLine ArrowThin   |
| Area    | Single-stroke line enclosing an area. Multiple anchor points delimiting an irregular area. A segment closing the delimited area is implicitly created, connecting the last point of the stroke to the first   | 3 2 1               | Area                          |
| Harpoon | Single-stroke "harpoon" shape, with the barb indicating the width. Three or more anchor points, indicating beginning and end of potentially multiple line segments. The last point provides the witdth  | 2 n = width 3 4     | ArrowFat                      |
| Hook    | Single-stroke "hook" shape. Three anchor points: the first two indicate the beginning and end of line segment; the last point provides the start position of the hook   | 1 2                 | Hook                          |
| "U"     | Right-angled "U" shaped stroke. Three or four anchor points, given by the beginning, end of the "U" shape, followed by two points indicating the inflection points at the closed/bottom of  | 3<br>1<br>2         | Ubend<br>UbendThree<br>Points |

<sup>&</sup>lt;sup>1</sup> Numbering indicates in general the direction the sample stroke was drawn. Exceptions are: "hook", where "3" is the first point, "vee", where point number 2 is the first, followed by the vertex (1), ending in 3, and "opencircle", where 1 indicates the center and 2 the first point.

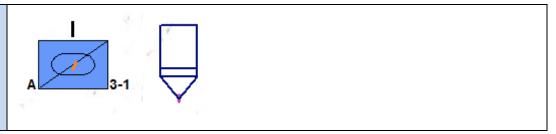
|                     | the "U" (if 4 points) or middle of the "U" (3 points)   | 3 2                            |            |
|---------------------|---|--------------------------------|------------|
| "V"                 | "V" shaped stroke. Three points, given by the vertex of the "V", followed by the beginning and end of the "V" shape | 2 3                            | Vee        |
| Open circle         | Circular stroke, drawn clockwise. Two ancho points: center of the circular area and the beginning of the stroke     | 1                              | OpenCircle |
| Symbol-<br>specific | Multi-stroke, symbol-specifc sketched   | Multi-stroke, symbol-dependent | Multipoint |

STP's sketch recognizer classifies the gestures according to more fine-grained categories or *gesture classes*, depending on the type of symbol. Gestures that are similar from the perspective of a user may be assigned to different classes, depending on the particular Draw Rules specified by MIL-STD-2525C/D for the symbol. Different classes typically have different number of points, or a different order in which these points are presented. As an example, "U" shaped strokes can sometimes be represented by 3 or by 4 points, presented in different orders. In the remaining sections of this document, these classes are described in further detail. This information is of more interest to developers that are looking to understand details required to properly render a symbol, for example.

#### 3 Point

| Number of points | 1   |
|------------------|---|
| Symbols          | Most Unit and Equipment symbols; single point Tactical Graphics |
| Anchor position  | Center or base of the symbol                                    |
| Stroke gesture   | Point, small line or dot  |
|                  |   |
|                  | 1 or 1 or 1   |
| -                |   |

Examples (stroke shown in orange-purple)



Representative symbols (Units and Equipment are not displayed here)

| SIC       |   |
|-----------|---|
| Fragment  | Comment   |
| TD        | DESTROY   |
| TN        | NEUTRALIZE  |
| GGP       | POINTS  |
| GGP U     | UNDER SEA WARFARE                                     |
| GGP UU    | UNDERWATER  |
| GGP UU D- | DATUM   |
| GGP UU B- | BRIEF CONTACT   |
| GGP UU L- | LOST CONTACT  |
| GGP UU S- | SINKER  |
| GGP UY    | SONOBUOY  |
| GGP UY P- | PATTERN CENTER  |
| GGP UY D- | DIRECTIONAL FREQUENCY ANALYZING AND RECORDING (DIFAR) |
| GGP UY L- | LOW FREQUENCY ANALYZING AND RECORDING (LOFAR)         |
| GGP UY C- | COMMAND ACTIVE SONOBUOY SYSTEM (CASS)                 |
| GGP UY S- | DIRECTIONAL COMMAND ACTIVE SONOBUOY SYSTEM (DICASS)   |
| GGP UY B- | BATHYTHERMOGRAPH TRANSMITTING (BT)                    |
| GGP UY A- | ANM   |
| GGP UY V- | VERTICAL LINE ARRAY DIFAR (VLAD)                      |
| GGP UY T- | ATAC  |
| GGP UY R- | RANGE ONLY (RO)                                       |
| GGP UY K- | KINGPIN   |
| GGP US    | UNDERSEA SEARCH                                       |
| GGP US A- | UNDERSEA SEARCH AREA                                  |
| GGP US D- | UNDERSEA DIP POSITION                                 |
| GGP US C- | UNDERSEA SEARCH CENTER                                |
| GGP R     | MANOUVER REFERENCE POINT                              |
| GGP RS    | SPECIAL REFERENCE POINT                               |
| GGP RN    | NAV REFERENCE   |
| GGP RD    | DLRP  |
| GGP RI    | POINT OF INTEREST                                     |

| GGP W  | WEAPON                                    |
|--------|---|
| GGP WA | AIM POINT                                 |
| GGP WD | DROP POINT                                |
| GGP WE | ENTRY POINT                               |
| GGP WG | GROUND ZERO                               |
| GGP WM | MSL DETECT POINT                          |
| GGP WI | IMPACT POINT                              |
| GGP WP | PREDICTED IMPACT POINT                    |
| GGP F  | FORMATION                                 |
| GGP H  | HARBOR (GENERAL)                          |
| GGP HQ | HARBOR POINT Q                            |
| GGP HA | HARBOR POINT A                            |
| GGP HY | HARBOR POINT Y                            |
| GGP HX | HARBOR POINT X                            |
| GGP 0  | HARBOR ROUTE                              |
| GGP OZ | RENDEZVOUS                                |
| GGP OD | DIVERSIONS                                |
| GGP OW | WAYPOINT                                  |
| GGP OP | PIM                                       |
| GGP OR | POINT R                                   |
| GGP A  | AIR CONTROL                               |
| GGP AP | COMBAT AIR PATROL (CAP)                   |
| GGP AW | AIRBORNE EARLY WARNING (AEW)              |
| GGP AT | TACAN                                     |
| GGP AK | TANKING AIR CONTROL POINT                 |
| GGP AA | ANTISUBMARINE WARFARE , FIXED WING - TODO |
| GGP AH | ANTISUBMARINE WARFARE, ROTARY WING - TODO |
| GGP AO | TOMCAT                                    |
| GGP AR | RESCUE AIR CONTROL POINT                  |
| GGP AL | REPLENISH AIR CONTROL POINT               |
| GGP AM | MARSHALL AIR CONTROL POINT                |
| GGP AS | STRIKE IP                                 |
| GGP AC | CORRIDOR TAB                              |
| GGP P  | ACTION POINTS (GENERAL)                   |
| GGP PK | CHECK POINT                               |
| GGP PC | CONTACT POINT [square]                    |
| GGP PO | COORDINATION POINT                        |
| GGP PD | DECISION POINT                            |
| GGP PL | LINKUP POINT                              |
| GGP PP | PASSAGE POINT                             |
| GGP PR | RALLY POINT                               |

| GGP PE | RELEASE POINT  |
|--------|--|
| GGP PS | START POINT  |
| GGP PW | WAYPOINT   |
| GAP    | POINTS   |
| GAP P  | AIR CONTROL POINT (ACP)  |
| GAP C  | COMMUNICATIONS CHECKPOINT (CCP)  |
| GAP U  | POP-UP POINT (PUP)   |
| GAP D  | DOWNED AIRCREW PICKUP POINT  |
| GDP    | POINTS   |
| GDP T  | TARGET REFERENCE POINT (TRP)   |
| GDP O  | OBSERVATION POST/OUTPOST   |
| GDP OC | COMBAT OUTPOST   |
| GDP OR | OBSERVATION POST OCCUPIED BY DISMOUNTED SCOUTS OR RECONNAISSANCE             |
| GDP OF | FORWARD OBSERVER POSITION  |
| GDP OS | SENSOR OUTPOST/LISTENING POST (OP/LP)  |
| GDP ON | NBC OBSERVATION POST (DISMOUNTED)  |
| GOP    | POINTS   |
| GOP P  | POINT OF DEPARTURE   |
| GNP    | NAVAL CRAFT  |
| GNP PC | NAVAL CRAFT CONTROL POINT  |
| GNP PD | NAVAL CRAFT DEPARTURE POINT  |
| GNP PP | NAVAL CRAFT PENETRATION POINT  |
| MOA 0  | ANTITANK OBSTACLES: TETRAHEDRONS, DRAGONS TEETH, AND OTHER SIMILAR OBSTACLES |
| MOA OF | FIXED AND PREFABRICATED DRAGONS TEETH, AND OTHER SIMILAR OBSTACLES           |
| MOA OM | MOVEABLE DRAGONS TEETH, AND OTHER SIMILAR OBSTACLES                          |
| MOA OP | MOVEABLE AND PREFABRICATED DRAGONS TEETH, AND OTHER SIMILAR OBSTACLES        |
| MOB    | BOOBY TRAP   |
| MOM    | MINES  |
| MOM U  | UNSPECIFIED MINE   |
| MOM T  | ANTITANK MINE (AT)   |
| MOM D  | ANTITANK MINE WITH ANTIHANDLING DEVICE                                       |
| MOM E  | ANTITANK MINE (DIRECTIONAL)  |
| MOM P  | ANTIPERSONNEL (AP) MINES   |
| MOM W  | WIDE AREA MINES  |
| MOF S  | STATIC DEPICTION   |
| MBC P  | ENGINEER REGULATING POINT  |
| MSE    | EARTHWORK, SMALL TRENCH OR FORTIFICATION                                     |
| MSF    | FORT   |
| MSS    | SURFACE SHELTER  |
| MSU    | UNDERGROUND SHELTER  |
| MNZ    | NUCLEAR DETONATIONS GROUND ZERO  |

| MMF FALLOUT PRODUCING  MNE RELEASE EVENTS  MND DECON SITE/POINT (UNSPECIFIED)  MND A ALTERNATE DECON SITE/POINT (UNSPECIFIED)  MND A ALTERNATE DECON SITE/POINT (UNSPECIFIED)  MND T DECON SITE/POINT (EQUIPMENT)  MND B DECON SITE/POINT (EQUIPMENT AND TROOPS)  MND O DECON SITE/POINT (OPERATIONAL DECONTAMINATION)  MND D DECON SITE/POINT (THOROUGH DECONTAMINATION)  MND D DECON SITE/POINT (THOROUGH DECONTAMINATION)  MND D POINT/SINGLE TARGET  FPT S POINT/SINGLE TARGET  FPS SUPPORT POINTS  SPX SUPPORT POINTS  SPX CANNIBALIZATION POINT  SPY CASUALTY COLLECTION POINT  SPY CASUALTY COLLECTION POINT  SPY CIVILIAN COLLECTION POINT  SPE ENEMY PRISONER OF WAR (EPW) COLLECTION POINT  SPE LOGISTICS RELEASE POINT (LRP)  SPM MAINTENANCE COLLECTION POINT  SPU REARM, REFUEL AND RESUPPLY POINT  SPO TRAFFIC CONTROL POST (TCP)  SPI TRAILER TRANSFER POINT  SPN GENERAL SUPPLY POINT  SPN GENERAL SUPPLY POINT  SPS SUPPLY POINT  SPS CLASS IS USPPLY POINT  SPS B CLASS IS USPPLY POINT  SPS B CLASS IS USPPLY POINT  SPS D CLASS IS USPPLY POINT  SPS D CLASS IS USPPLY POINT  SPS D CLASS VS USPPLY POINT  SPS F CLASS VS USPPLY POINT | D ADIE | FALLOUIT PRODUCING                           |
|--|--------|--|
| MND DECONTAMINATION (DECON) POINTS MND P DECON SITE/POINT (UNSPECIFIED) MND A ALTERNATE DECON SITE/POINT (UNSPECIFIED) MND T DECON SITE/POINT (TROUP) MND T DECON SITE/POINT (EQUIPMENT) MND B DECON SITE/POINT (EQUIPMENT) MND B DECON SITE/POINT (EQUIPMENT AND TROOPS) MND O DECON SITE/POINT (HOROUGH DECONTAMINATION) MND D DECON SITE/POINT (THOROUGH DECONTAMINATION) MND D DECON SITE/POINT (THOROUGH DECONTAMINATION) MND D POINT/SINGLE TARGET FPT N NUCLEAR TARGET FPT N NUCLEAR TARGET FPS FIRE SUPPORT STATION SP SUPPORT POINTS SPX CANNIBALIZATION POINT SPC CANNIBALIZATION POINT SPY CASUALTY COLLECTION POINT SPT CIVILIAN COLLECTION POINT SPD DETAINEE COLLECTION POINT SPD DETAINEE COLLECTION POINT SPL LOGISTICS RELEASE POINT (LRP) SPM MAINTENANCE COLLECTION POINT SPM REARM, REFUEL AND RESUPPLY POINT SPU REFUEL ON THE MOVE (ROM) POINT SPO TRAFFIC CONTROL POST (TCP) SPI TRAILER TRANSFER POINT SPN UNIT MAINTENANCE COLLECTION POINT (UMCP) SPS SUPPLY POINT SPS Z GENERAL SUPPLY POINT SPS B CLASS II SUPPLY POINT SPS B CLASS II SUPPLY POINT SPS C CLASS II SUPPLY POINT SPS C CLASS II SUPPLY POINT SPS C CLASS II SUPPLY POINT SPS E CLASS II SUPPLY POINT  |        |  |
| MND P  DECON SITE/POINT (UNSPECIFIED)  MND A  ALTERNATE DECON SITE/POINT (UNSPECIFIED)  MND T  DECON SITE/POINT (TROOPS)  MND E  DECON SITE/POINT (EQUIPMENT)  MND B  DECON SITE/POINT (EQUIPMENT)  MND D  DECON SITE/POINT (EQUIPMENT AND TROOPS)  MND O  DECON SITE/POINT (OPERATIONAL DECONTAMINATION)  MND D  DECON SITE/POINT (THOROUGH DECONTAMINATION)  MND D  POINT/SINGLE TARGET  FPT N  NUCLEAR TARGET  FPS  FIRE SUPPORT STATION  SP  SUPPORT POINTS  SPX  AMBULANCE EXCHANGE POINT  SPC  CANNIBALIZATION POINT  SPT  CIVILIAN COLLECTION POINT  SPD  DETAINEE COLLECTION POINT  SPE  ENEMY PRISONER OF WAR (EPW) COLLECTION POINT  SPL  LOGISTICS RELEASE POINT (LRP)  SPM  MAINTENANCE COLLECTION POINT  SPU  REARM, REFUEL AND RESUPPLY POINT  SPU  REARM, REFUEL AND RESUPPLY POINT  SPO  TRAFFIC CONTROL POST (TCP)  SPI  TRAILER TRANSFER POINT  SPN  UNIT MAINTENANCE COLLECTION POINT (UMCP)  SPS  SUPPLY POINTS  SPS 2  GENERAL SUPPLY POINT  SPS A  CLASS II SUPPLY POINT  SPS B  CLASS II SUPPLY POINT  SPS B  CLASS II SUPPLY POINT  SPS D  CLASS IV SUPPLY POINT  SPS D  CLASS IV SUPPLY POINT   |        |  |
| MND A ALTERNATE DECON SITE/POINT (UNSPECIFIED)  MND T DECON SITE/POINT (EQUIPMENT)  MND B DECON SITE/POINT (EQUIPMENT AND TROOPS)  MND D DECON SITE/POINT (EQUIPMENT AND TROOPS)  MND D DECON SITE/POINT (OPERATIONAL DECONTAMINATION)  MND D DECON SITE/POINT (THOROUGH DECONTAMINATION)  MND D POINT/SINGLE TARGET  FPT S POINT/SINGLE TARGET  FPT N NUCLEAR TARGET  FPS SUPPORT STATION  SP SUPPORT POINTS  SPX AMBULANCE EXCHANGE POINT  SPC CANNIBALIZATION POINT  SPT CIVILIAN COLLECTION POINT  SPT CIVILIAN COLLECTION POINT  SPE ENEMY PRISONER OF WAR (EPW) COLLECTION POINT  SPL LOGISTICS RELEASE POINT (LRP)  SPM MAINTENANCE COLLECTION POINT  SPM REARM, REFUEL AND RESUPPLY POINT  SPO TRAFIEC CONTROL POST (TCP)  SPI TRAILER TRANSFER POINT  SPO TRAILER TRANSFER POINT  SPS SUPPLY POINTS  SPS CLASS II SUPPLY POINT  SPS B CLASS II SUPPLY POINT  SPS B CLASS III SUPPLY POINT  SPS D CLASS II SUPPLY POINT  SPS B CLASS II SUPPLY POINT  |        |  |
| MIND T DECON SITE/POINT (TROOPS)  MIND E DECON SITE/POINT (EQUIPMENT)  MIND B DECON SITE/POINT (EQUIPMENT AND TROOPS)  MIND O DECON SITE/POINT (EQUIPMENT AND TROOPS)  MIND O DECON SITE/POINT (THOROUGH DECONTAMINATION)  MIND D DECON SITE/POINT (THOROUGH DECONTAMINATION)  FPT S POINT/SINGLE TARGET  FPT N NUCLEAR TARGET  FPS FIRE SUPPORT STATION  SP SUPPORT POINTS  SPX AMBULANCE EXCHANGE POINT  SPC CANNIBALIZATION POINT  SPY CASUALTY COLLECTION POINT  SPT CIVILIAN COLLECTION POINT  SPD DETAINEE COLLECTION POINT  SPL LOGISTICS RELEASE POINT (LRP)  SPM MAINTENANCE COLLECTION POINT  SPR REARM, REFUEL AND RESUPPLY POINT  SPO TRAFFIC CONTROL POST (TCP)  SPI TRAILER TRANSFER POINT  SPN UNIT MAINTENANCE COLLECTION POINT (UMCP)  SPS SUPPLY POINT  SPS CLASS II SUPPLY POINT  SPS B CLASS II SUPPLY POINT  SPS C CLASS III SUPPLY POINT  SPS D CLASS III SUPPLY POINT  SPS E CLASS III SUPPLY POINT  SPS E CLASS III SUPPLY POINT   |        | ·  |
| MND E DECON SITE/POINT (EQUIPMENT)  MND B DECON SITE/POINT (EQUIPMENT AND TROOPS)  MND O DECON SITE/POINT (OPERATIONAL DECONTAMINATION)  MND D DECON SITE/POINT (THOROUGH DECONTAMINATION)  MND D DECON SITE/POINT (THOROUGH DECONTAMINATION)  FPT S POINT/SINGLE TARGET  FPT N NUCLEAR TARGET  FPS SUPPORT POINTS  SPX AMBULANCE EXCHANGE POINT  SPC CANNIBALIZATION POINT  SPY CASUALTY COLLECTION POINT  SPT CIVILIAN COLLECTION POINT  SPD DETAINEE COLLECTION POINT  SPE ENEMY PRISONER OF WAR (EPW) COLLECTION POINT  SPL LOGISTICS RELEASE POINT (LRP)  SPM MAINTENANCE COLLECTION POINT  SPR REARM, REFUEL AND RESUPPLY POINT  SPU REFUEL ON THE MOVE (ROM) POINT  SPO TRAFFIC CONTROL POST (TCP)  SPI TRAILER TRANSFER POINT  SPS UNIT MAINTENANCE COLLECTION POINT (UMCP)  SPS SUPPLY POINTS  SPS 2 GENERAL SUPPLY POINT  SPS A CLASS II SUPPLY POINT  SPS C CLASS III SUPPLY POINT  SPS C CLASS IV SUPPLY POINT  SPS C CLASS IV SUPPLY POINT  |        |  |
| MND B DECON SITE/POINT (EQUIPMENT AND TROOPS)  MND O DECON SITE/POINT (OPERATIONAL DECONTAMINATION)  MND D DECON SITE/POINT (THOROUGH DECONTAMINATION)  PT 5 POINT/SINGLE TARGET  PT N NUCLEAR TARGET  FPS FIRE SUPPORT STATION  SP SUPPORT POINTS  SPX AMBULANCE EXCHANGE POINT  SPC CANNIBALIZATION POINT  SPY CASUALTY COLLECTION POINT  SPT CIVILIAN COLLECTION POINT  SPE ENEMY PRISONER OF WAR (EPW) COLLECTION POINT  SPE ENEMY PRISONER OF WAR (EPW) COLLECTION POINT  SPM MAINTENANCE COLLECTION POINT  SPM REARM, REFUEL AND RESUPPLY POINT  SPU REFUEL ON THE MOVE (ROM) POINT  SPO TRAFFIC CONTROL POST (TCP)  SPI TRAILER TRANSFER POINT  SPN SUPPLY POINT  SPS SUPPLY POINT  SPS A CLASS I SUPPLY POINT  SPS C CLASS II SUPPLY POINT  SPS D CLASS V SUPPLY POINT  SPS D CLASS V SUPPLY POINT   |        |  |
| MND O DECON SITE/POINT (OPERATIONAL DECONTAMINATION)  MND D DECON SITE/POINT (THOROUGH DECONTAMINATION)  FPT S POINT/SINGLE TARGET  FPT N NUCLEAR TARGET  FPS FIRE SUPPORT STATION  SP SUPPORT POINTS  SPX AMBULANCE EXCHANGE POINT  SPC CANNIBALIZATION POINT  SPY COULECTION POINT  SPT CIVILIAN COLLECTION POINT  SPD DETAINEE COLLECTION POINT  SPE ENEMY PRISONER OF WAR (EPW) COLLECTION POINT  SPL LOGISTICS RELEASE POINT (LRP)  SPM MAINTENANCE COLLECTION POINT  SPR REARM, REFUEL AND RESUPPLY POINT  SPO TRAFFIC CONTROL POST (TCP)  SPI TRAILER TRANSFER POINT  SPN UNIT MAINTENANCE COLLECTION POINT (UMCP)  SPS SUPPLY POINT  SPS A CLASS I SUPPLY POINT  SPS B CLASS II SUPPLY POINT  SPS C CLASS II SUPPLY POINT  SPS D CLASS V SUPPLY POINT  SPS D CLASS V SUPPLY POINT  |        |  |
| MND D DECON SITE/POINT (THOROUGH DECONTAMINATION)  FPT S POINT/SINGLE TARGET  FPT N NUCLEAR TARGET  FPS FIRE SUPPORT STATION  SP SUPPORT POINTS  SPX AMBULANCE EXCHANGE POINT  SPC CANNIBALIZATION POINT  SPY CASUALTY COLLECTION POINT  SPT CIVILIAN COLLECTION POINT  SPE ENEMY PRISONER OF WAR (EPW) COLLECTION POINT  SPL LOGISTICS RELEASE POINT (LRP)  SPM MAINTENANCE COLLECTION POINT  SPN REARM, REFUEL AND RESUPPLY POINT  SPU REFUEL ON THE MOVE (ROM) POINT  SPO TRAFFIC CONTROL POST (TCP)  SPI TRAILER TRANSFER POINT  SPN UNIT MAINTENANCE COLLECTION POINT (UMCP)  SPS SUPPLY POINTS  SPS Z GENERAL SUPPLY POINT  SPS B CLASS I SUPPLY POINT  SPS C CLASS II SUPPLY POINT  SPS D CLASS IV SUPPLY POINT  SPS D CLASS V SUPPLY POINT   |        | ·  |
| FPT S POINT/SINGLE TARGET  FPT N NUCLEAR TARGET  FPS FIRE SUPPORT STATION  SP SUPPORT POINTS  SPX AMBULANCE EXCHANGE POINT  SPC CANNIBALIZATION POINT  SPY CASUALTY COLLECTION POINT  SPT CIVILIAN COLLECTION POINT  SPD DETAINEE COLLECTION POINT  SPE ENEMY PRISONER OF WAR (EPW) COLLECTION POINT  SPL LOGISTICS RELEASE POINT (LRP)  SPM MAINTENANCE COLLECTION POINT  SPR REARM, REFUEL AND RESUPPLY POINT  SPU REFUEL ON THE MOVE (ROM) POINT  SPO TRAFFIC CONTROL POST (TCP)  SPI TRAILER TRANSFER POINT  SPN UNIT MAINTENANCE COLLECTION POINT (UMCP)  SPS SUPPLY POINT  SPS A CLASS IS SUPPLY POINT  SPS B CLASS IS SUPPLY POINT  SPS C CLASS IV SUPPLY POINT  SPS D CLASS V SUPPLY POINT  SPS D CLASS V SUPPLY POINT   |        | ,      |
| FPT N NUCLEAR TARGET  FPS FIRE SUPPORT STATION  SP SUPPORT POINTS  SPX AMBULANCE EXCHANGE POINT  SPC CANNIBALIZATION POINT  SPY CASUALTY COLLECTION POINT  SPT CIVILIAN COLLECTION POINT  SPD DETAINEE COLLECTION POINT  SPE ENEMY PRISONER OF WAR (EPW) COLLECTION POINT  SPL LOGISTICS RELEASE POINT (LRP)  SPM MAINTENANCE COLLECTION POINT  SPR REARM, REFUEL AND RESUPPLY POINT  SPU REFUEL ON THE MOVE (ROM) POINT  SPO TRAFFIC CONTROL POST (TCP)  SPI TRAILER TRANSFER POINT  SPN UNIT MAINTENANCE COLLECTION POINT (UMCP)  SPS SUPPLY POINT  SPS Z GENERAL SUPPLY POINT  SPS A CLASS I SUPPLY POINT  SPS B CLASS II SUPPLY POINT  SPS C CLASS III SUPPLY POINT  SPS D CLASS IV SUPPLY POINT  SPS D CLASS IV SUPPLY POINT  |        |  |
| FPS FIRE SUPPORT STATION  SP SUPPORT POINTS  SPX AMBULANCE EXCHANGE POINT  SPC CANNIBALIZATION POINT  SPY CASUALTY COLLECTION POINT  SPT CIVILIAN COLLECTION POINT  SPD DETAINEE COLLECTION POINT  SPE ENEMY PRISONER OF WAR (EPW) COLLECTION POINT  SPL LOGISTICS RELEASE POINT (LRP)  SPM MAINTENANCE COLLECTION POINT  SPR REARM, REFUEL AND RESUPPLY POINT  SPU REFUEL ON THE MOVE (ROM) POINT  SPO TRAFFIC CONTROL POST (TCP)  SPI TRAILER TRANSFER POINT  SPN UNIT MAINTENANCE COLLECTION POINT (UMCP)  SPS SUPPLY POINT  SPS Z GENERAL SUPPLY POINT  SPS A CLASS I SUPPLY POINT  SPS B CLASS II SUPPLY POINT  SPS C CLASS III SUPPLY POINT  SPS D CLASS IV SUPPLY POINT  SPS D CLASS IV SUPPLY POINT  SPS D CLASS IV SUPPLY POINT   |        | ·  |
| SP SUPPORT POINTS  SPX AMBULANCE EXCHANGE POINT  SPC CANNIBALIZATION POINT  SPY CASUALTY COLLECTION POINT  SPT CIVILIAN COLLECTION POINT  SPD DETAINEE COLLECTION POINT  SPE ENEMY PRISONER OF WAR (EPW) COLLECTION POINT  SPL LOGISTICS RELEASE POINT (LRP)  SPM MAINTENANCE COLLECTION POINT  SPR REARM, REFUEL AND RESUPPLY POINT  SPU REFUEL ON THE MOVE (ROM) POINT  SPO TRAFFIC CONTROL POST (TCP)  SPI TRAILER TRANSFER POINT  SPN UNIT MAINTENANCE COLLECTION POINT (UMCP)  SPS SUPPLY POINTS  SPS Z GENERAL SUPPLY POINT  SPS A CLASS I SUPPLY POINT  SPS C CLASS II SUPPLY POINT  SPS C CLASS III SUPPLY POINT  SPS D CLASS IV SUPPLY POINT  SPS D CLASS IV SUPPLY POINT  SPS D CLASS IV SUPPLY POINT  |        |  |
| SPX AMBULANCE EXCHANGE POINT  SPC CANNIBALIZATION POINT  SPY CASUALTY COLLECTION POINT  SPT CIVILIAN COLLECTION POINT  SPD DETAINEE COLLECTION POINT  SPE ENEMY PRISONER OF WAR (EPW) COLLECTION POINT  SPL LOGISTICS RELEASE POINT (LRP)  SPM MAINTENANCE COLLECTION POINT  SPR REARM, REFUEL AND RESUPPLY POINT  SPU REFUEL ON THE MOVE (ROM) POINT  SPO TRAFFIC CONTROL POST (TCP)  SPI TRAILER TRANSFER POINT  SPN UNIT MAINTENANCE COLLECTION POINT (UMCP)  SPS SUPPLY POINTS  SPS Z GENERAL SUPPLY POINT  SPS A CLASS I SUPPLY POINT  SPS C CLASS II SUPPLY POINT  SPS C CLASS III SUPPLY POINT  SPS D CLASS IV SUPPLY POINT  SPS D CLASS IV SUPPLY POINT  SPS D CLASS V SUPPLY POINT  |        |  |
| SPC CANNIBALIZATION POINT  SPY CASUALTY COLLECTION POINT  SPT CIVILIAN COLLECTION POINT  SPD DETAINEE COLLECTION POINT  SPE ENEMY PRISONER OF WAR (EPW) COLLECTION POINT  SPL LOGISTICS RELEASE POINT (LRP)  SPM MAINTENANCE COLLECTION POINT  SPR REARM, REFUEL AND RESUPPLY POINT  SPU REFUEL ON THE MOVE (ROM) POINT  SPO TRAFFIC CONTROL POST (TCP)  SPI TRAILER TRANSFER POINT  SPN UNIT MAINTENANCE COLLECTION POINT (UMCP)  SPS SUPPLY POINTS  SPS Z GENERAL SUPPLY POINT  SPS A CLASS I SUPPLY POINT  SPS C CLASS II SUPPLY POINT  SPS D CLASS IV SUPPLY POINT  SPS D CLASS V SUPPLY POINT  SPS D CLASS V SUPPLY POINT   |        |  |
| SPY CASUALTY COLLECTION POINT  SPT CIVILIAN COLLECTION POINT  SPD DETAINEE COLLECTION POINT  SPE ENEMY PRISONER OF WAR (EPW) COLLECTION POINT  SPL LOGISTICS RELEASE POINT (LRP)  SPM MAINTENANCE COLLECTION POINT  SPR REARM, REFUEL AND RESUPPLY POINT  SPU REFUEL ON THE MOVE (ROM) POINT  SPO TRAFFIC CONTROL POST (TCP)  SPI TRAILER TRANSFER POINT  SPN UNIT MAINTENANCE COLLECTION POINT (UMCP)  SPS SUPPLY POINTS  SPS Z GENERAL SUPPLY POINT  SPS A CLASS IS SUPPLY POINT  SPS B CLASS III SUPPLY POINT  SPS C CLASS III SUPPLY POINT  SPS D CLASS IV SUPPLY POINT  SPS D CLASS V SUPPLY POINT  SPS E CLASS V SUPPLY POINT  |        |  |
| SPT CIVILIAN COLLECTION POINT  SPD DETAINEE COLLECTION POINT  SPE ENEMY PRISONER OF WAR (EPW) COLLECTION POINT  SPL LOGISTICS RELEASE POINT (LRP)  SPM MAINTENANCE COLLECTION POINT  SPR REARM, REFUEL AND RESUPPLY POINT  SPU REFUEL ON THE MOVE (ROM) POINT  SPO TRAFFIC CONTROL POST (TCP)  SPI TRAILER TRANSFER POINT  SPN UNIT MAINTENANCE COLLECTION POINT (UMCP)  SPS SUPPLY POINTS  SPS Z GENERAL SUPPLY POINT  SPS A CLASS I SUPPLY POINT  SPS B CLASS III SUPPLY POINT  SPS C CLASS III SUPPLY POINT  SPS D CLASS IV SUPPLY POINT  SPS D CLASS V SUPPLY POINT  |        | CANNIBALIZATION POINT                        |
| SPD  SPE  ENEMY PRISONER OF WAR (EPW) COLLECTION POINT  SPL  LOGISTICS RELEASE POINT (LRP)  SPM  MAINTENANCE COLLECTION POINT  SPR  REARM, REFUEL AND RESUPPLY POINT  SPU  REFUEL ON THE MOVE (ROM) POINT  SPO  TRAFFIC CONTROL POST (TCP)  SPI  TRAILER TRANSFER POINT  SPN  UNIT MAINTENANCE COLLECTION POINT (UMCP)  SPS  SUPPLY POINTS  SPS Z  GENERAL SUPPLY POINT  SPS A  CLASS I SUPPLY POINT  SPS B  CLASS II SUPPLY POINT  SPS C  CLASS III SUPPLY POINT  SPS C  CLASS IV SUPPLY POINT  SPS E  CLASS V SUPPLY POINT   |        |  |
| SPE ENEMY PRISONER OF WAR (EPW) COLLECTION POINT  SPL LOGISTICS RELEASE POINT (LRP)  SPM MAINTENANCE COLLECTION POINT  SPR REARM, REFUEL AND RESUPPLY POINT  SPU REFUEL ON THE MOVE (ROM) POINT  SPO TRAFFIC CONTROL POST (TCP)  SPI TRAILER TRANSFER POINT  SPN UNIT MAINTENANCE COLLECTION POINT (UMCP)  SPS SUPPLY POINTS  SPS Z GENERAL SUPPLY POINT  SPS A CLASS I SUPPLY POINT  SPS B CLASS III SUPPLY POINT  SPS C CLASS IV SUPPLY POINT  SPS D CLASS IV SUPPLY POINT  SPS E CLASS V SUPPLY POINT   | SPT    | CIVILIAN COLLECTION POINT                    |
| SPL LOGISTICS RELEASE POINT (LRP)  SPM MAINTENANCE COLLECTION POINT  SPR REARM, REFUEL AND RESUPPLY POINT  SPU REFUEL ON THE MOVE (ROM) POINT  SPO TRAFFIC CONTROL POST (TCP)  SPI TRAILER TRANSFER POINT  SPN UNIT MAINTENANCE COLLECTION POINT (UMCP)  SPS SUPPLY POINTS  SPS Z GENERAL SUPPLY POINT  SPS A CLASS I SUPPLY POINT  SPS B CLASS II SUPPLY POINT  SPS C CLASS III SUPPLY POINT  SPS C CLASS IV SUPPLY POINT  SPS D CLASS V SUPPLY POINT   | SPD    | DETAINEE COLLECTION POINT                    |
| SPM MAINTENANCE COLLECTION POINT  SPR REARM, REFUEL AND RESUPPLY POINT  SPU REFUEL ON THE MOVE (ROM) POINT  SPO TRAFFIC CONTROL POST (TCP)  SPI TRAILER TRANSFER POINT  SPN UNIT MAINTENANCE COLLECTION POINT (UMCP)  SPS SUPPLY POINTS  SPS Z GENERAL SUPPLY POINT  SPS A CLASS I SUPPLY POINT  SPS B CLASS II SUPPLY POINT  SPS C CLASS III SUPPLY POINT  SPS D CLASS IV SUPPLY POINT  SPS D CLASS IV SUPPLY POINT   | SPE    | ENEMY PRISONER OF WAR (EPW) COLLECTION POINT |
| SPR REARM, REFUEL AND RESUPPLY POINT  SPU REFUEL ON THE MOVE (ROM) POINT  SPO TRAFFIC CONTROL POST (TCP)  SPI TRAILER TRANSFER POINT  SPN UNIT MAINTENANCE COLLECTION POINT (UMCP)  SPS SUPPLY POINTS  SPS Z GENERAL SUPPLY POINT  SPS A CLASS I SUPPLY POINT  SPS B CLASS II SUPPLY POINT  SPS C CLASS III SUPPLY POINT  SPS C CLASS IV SUPPLY POINT  SPS D CLASS IV SUPPLY POINT  SPS E CLASS V SUPPLY POINT   | SPL    | LOGISTICS RELEASE POINT (LRP)                |
| SPU REFUEL ON THE MOVE (ROM) POINT SPO TRAFFIC CONTROL POST (TCP)  SPI TRAILER TRANSFER POINT SPN UNIT MAINTENANCE COLLECTION POINT (UMCP) SPS SUPPLY POINTS SPS Z GENERAL SUPPLY POINT SPS A CLASS I SUPPLY POINT SPS B CLASS III SUPPLY POINT SPS C CLASS III SUPPLY POINT SPS D CLASS IV SUPPLY POINT SPS E CLASS V SUPPLY POINT  | SPM    | MAINTENANCE COLLECTION POINT                 |
| SPO TRAFFIC CONTROL POST (TCP)  SPI TRAILER TRANSFER POINT  SPN UNIT MAINTENANCE COLLECTION POINT (UMCP)  SPS SUPPLY POINTS  SPS Z GENERAL SUPPLY POINT  SPS A CLASS I SUPPLY POINT  SPS B CLASS III SUPPLY POINT  SPS C CLASS III SUPPLY POINT  SPS D CLASS IV SUPPLY POINT  SPS E CLASS IV SUPPLY POINT  | SPR    | REARM, REFUEL AND RESUPPLY POINT             |
| SPI TRAILER TRANSFER POINT  SPN UNIT MAINTENANCE COLLECTION POINT (UMCP)  SPS SUPPLY POINTS  SPS Z GENERAL SUPPLY POINT  SPS A CLASS I SUPPLY POINT  SPS B CLASS II SUPPLY POINT  SPS C CLASS III SUPPLY POINT  SPS D CLASS IV SUPPLY POINT  SPS E CLASS V SUPPLY POINT  | SPU    | REFUEL ON THE MOVE (ROM) POINT               |
| SPN UNIT MAINTENANCE COLLECTION POINT (UMCP)  SPS SUPPLY POINTS  SPS Z GENERAL SUPPLY POINT  SPS A CLASS I SUPPLY POINT  SPS B CLASS II SUPPLY POINT  SPS C CLASS III SUPPLY POINT  SPS D CLASS IV SUPPLY POINT  SPS E CLASS V SUPPLY POINT  | SPO    | TRAFFIC CONTROL POST (TCP)                   |
| SPS SUPPLY POINTS  SPS Z GENERAL SUPPLY POINT  SPS A CLASS I SUPPLY POINT  SPS B CLASS II SUPPLY POINT  SPS C CLASS III SUPPLY POINT  SPS D CLASS IV SUPPLY POINT  SPS E CLASS V SUPPLY POINT  | SPI    | TRAILER TRANSFER POINT                       |
| SPS Z GENERAL SUPPLY POINT  SPS A CLASS I SUPPLY POINT  SPS B CLASS III SUPPLY POINT  SPS C CLASS III SUPPLY POINT  SPS D CLASS IV SUPPLY POINT  SPS E CLASS V SUPPLY POINT  | SPN    | UNIT MAINTENANCE COLLECTION POINT (UMCP)     |
| SPS A CLASS I SUPPLY POINT  SPS B CLASS II SUPPLY POINT  SPS C CLASS III SUPPLY POINT  SPS D CLASS IV SUPPLY POINT  SPS E CLASS V SUPPLY POINT   | SPS    | SUPPLY POINTS                                |
| SPS B CLASS II SUPPLY POINT  SPS C CLASS III SUPPLY POINT  SPS D CLASS IV SUPPLY POINT  SPS E CLASS V SUPPLY POINT   | SPS Z  | GENERAL SUPPLY POINT                         |
| SPS C CLASS III SUPPLY POINT  SPS D CLASS IV SUPPLY POINT  SPS E CLASS V SUPPLY POINT  | SPS A  | CLASS I SUPPLY POINT                         |
| SPS D CLASS IV SUPPLY POINT SPS E CLASS V SUPPLY POINT   | SPS B  | CLASS II SUPPLY POINT                        |
| SPS E CLASS V SUPPLY POINT   | SPS C  | CLASS III SUPPLY POINT                       |
|  | SPS D  | CLASS IV SUPPLY POINT                        |
| SPS F CLASS VI SUPPLY POINT  | SPS E  | CLASS V SUPPLY POINT                         |
|  | SPS F  | CLASS VI SUPPLY POINT                        |
| SPS G CLASS VII SUPPLY POINT   | SPS G  | CLASS VII SUPPLY POINT                       |
| SPS H CLASS VIII SUPPLY POINT  | SPS H  | CLASS VIII SUPPLY POINT                      |
| SPS I CLASS IX SUPPLY POINT  | SPS I  | CLASS IX SUPPLY POINT                        |
| SPS J CLASS X SUPPLY POINT   | SPS J  | CLASS X SUPPLY POINT                         |
| SPA AMMUNITION POINTS  | SPA    | AMMUNITION POINTS                            |
| SPA S AMMUNITION SUPPLY POINT (ASP)  | SPA S  | AMMUNITION SUPPLY POINT (ASP)                |

| CDA T | AAAAAAAAAAATTOAATTOAAACEED DOIAIT /ATD) |
|-------|---|
| SPA T | AMMUNITION TRANSFER POINT (ATP)         |
| OE    | EMERGENCY                               |
| OED   | DITCHED AIRCRAFT                        |
| OEP   | PERSON IN WATER                         |
| OEV   | DISTRESSED VESSEL                       |
| OHM   | SEA MINE-LIKE                           |
| OHI   | ICEBERG                                 |
| OHO   | OIL RIG                                 |
| OS    | SEA SUBSURFACE RETURNS                  |
| OSB   | BOTTOM RETURN/NOMBO                     |
| OSB M | INSTALLATION/MANMADE                    |
| OSB N | SEABED ROCK/STONE, OBSTACLE, OTHER      |
| OSB W | WRECK                                   |
| OSM   | MARINE LIFE                             |
| OF    | FIX                                     |
| OFA   | ACOUSTIC FIX                            |
| OFE   | ELECTRO-MAGNETIC FIX                    |
| OFO   | ELECTRO-OPTICAL FIX                     |

## 4 Line

| Number of points | 2 or more  |
|------------------|--|
| Symbols          | Linear routes, control lines, obstacle lines   |
| Anchor position  | Start and end of each line segment, with point 1 representing the initial point of the sketched gesture, and each consecutive point representing a "hinge"/inflection point or the last point  A high sampling rate is applied to provide means for the users to specify in detail |
|                  | the placement of the symbol  For symbols that have a direction, the arrow is placed at the last point  |
| Stroke gesture   | Line trace   |

|  | 1 2 3 4 5 6 7 8 n   |
|--|---|
| Point order                              | Points are presented in the order they were sketched, starting with the one at the beginning of the stroke and moving towards the final point |
| Examples (stroke shown in orange-purple) | FLOT THE FLOT   |

| SIC      |  |
|----------|--|
| Fragment | Comment  |
| GGL      | MANOUVER LINES                                 |
| GGL R    | ROUTE  |
| GGL B    | BOUNDARIES                                     |
| GGL F    | FORWARD LINE OF OWN TROOPS (FLOT)              |
| GGL C    | LINE OF CONTACT                                |
| GGL P    | PHASE LINE                                     |
| GGL L    | LIGHT LINE                                     |
| GPM      | DECOY MINED AREA                               |
| GPY      | DECOY MINED AREA, FENCED                       |
| GPN      | DUMMY MINEFIELD (STATIC) TODO                  |
| GPC      | DUMMY MINEFIELD (DYNAMIC) TODO                 |
| GDL      | LINES  |
| GDL P    | PRINCIPAL DIRECTION OF FIRE (PDF)              |
| GOL      | OFFENSE LINES                                  |
| GOL F    | FINAL COORDINATION LINE                        |
| GOL I    | INFILTRATION LINE                              |
| GOL L    | LIMIT OF ADVANCE                               |
| GOL T    | LINE OF DEPARTURE                              |
| GOL C    | LINE OF DEPARTURE/LINE OF CONTACT (LD/LC) todo |
| GOL P    | PROBABLE LINE OF DEPLOYMENT (PLD)              |
| GSL      | SPECIAL LINE                                   |
| GSL H    | HOLDING LINE                                   |
| GSL R    | RELEASE LINE                                   |
| GNL      | NAVAL LINE                                     |

| GNL B  | NAVAL BEACH                                   |
|--------|---|
| MOG L  | OBSTACLE LINE                                 |
| MOS    | ABATIS  |
| MOA D  | ANTITANK DITCH                                |
| MOA DU | ANTITANK DITCH UNDER CONSTRUCTION             |
| MOA DC | ANTITANK DITCH COMPLETE                       |
| MOA R  | ANTITANK DITCH REINFORCED WITH ANTITANK MINES |
| MOA W  | ANTITANK WALL                                 |
| MOW    | WIRE OBSTACLE                                 |
| MOW U  | FENCE OBSTACLE                                |
| MOW S  | SINGLE FENCE BARBED WIRE                      |
| MOW D  | DOUBLE FENCE BARBED WIRE                      |
| MOW A  | DOUBLE APRON FENCE                            |
| MOW L  | LOW WIRE FENCE                                |
| MOW H  | HIGH WIRE FENCE                               |
| MOW C  | CONCERTINA                                    |
| MOW CS | SINGLE CONCERTINA                             |
| MOW CD | DOUBLE STRAND CONCERTINA                      |
| MOW CT | TRIPLE STRAND CONCERTINA                      |
| MSL    | FORTIFIED LINE                                |
| FLC F  | FIRE SUPPORT COORDINATION LINE (FSCL)         |
| FLC C  | COORDINATED FIRE LINE (CFL)                   |
| FLN    | NO-FIRE LINE (NFL)                            |
| FLR    | RESTRICTIVE FIRE LINE (RFL)                   |
| SL     | SUPPLY LINES                                  |
| SLR    | SUPPLY ROUTES                                 |
| SLR M  | MAIN SUPPLY ROUTE                             |
| SLR A  | ALTERNATE SUPPLY ROUTE                        |
| SLR O  | ONE-WAY TRAFFIC                               |
| SLR T  | ALTERNATING TRAFFIC                           |
| SLR W  | TWO-WAY TRAFFIC                               |
| OHN    | NAVIGATIONAL HAZARD                           |
| OB     | BEARING LINE                                  |
| OBE    | ELECTRONIC BEARING                            |
| OBA    | ACOUSTIC BEARING                              |
| OBT    | TORPEDO BEARING                               |
| OBO    | ELECTRO-OPTICAL INTERCEPT                     |

# 5 StraightLine

| Number of points                         | 2  |
|--|--|
| Symbols                                  | Single segment line symbols  |
| Anchor position                          | Start and end of (straight) line segment. "Hinges"/inflection points are ignored.  The line segment represents the axis of the symbol, either in the middle (e.g. of a corridor) or defining the position of single-line symbols |
|  | For symbols that have a direction, the arrow corresponds to the last point   |
| Stroke gesture                           | Single line segment  12  |
| Point order                              | Starting point followed by the end point   |
| Examples (stroke shown in orange-purple) | SMOKE  |

| SIC      |   |
|----------|---|
| Fragment | Comment   |
| GAL C    | AIR CORRIDOR                                    |
| GAL M    | MINIMUM RISK ROUTE (MRR)                        |
| GAL S    | STANDARD-USE ARMY AIRCRAFT FLIGHT ROUTE (SAAFR) |
| GAL U    | UNMANNED AERIAL VEHICLE (UAV) ROUTE             |
| GAL L    | LOW LEVEL TRANSIT ROUTE (LLTR)                  |
| GDL F    | FORWARD EDGE OF BATTLE AREA (FEBA)              |
| MBC L    | LANE  |
| FLT      | LINEAR TARGET                                   |
| FLT F    | FINAL PROTECTIVE FIRE (FPF)                     |
| FLT S    | LINEAR SMOKE TARGET                             |

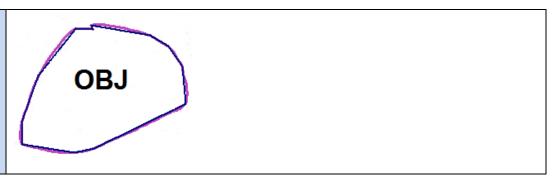


| SLC   | CONVOYS       |
|-------|---------------|
| SLC M | MOVING CONVOY |
| SLC H | HALTED CONVOY |

#### 6 Area

| N 1 0 1 1        |  |
|------------------|--|
| Number of points | 3 or more  |
| Symbols          | Potentially irregular, closed zones, areas or regions  |
| Anchor position  | Start and end of each line segment enclosing the area, with point 1 representing the initial point of the sketched gesture, and each consecutive point representing a "hinge"/inflection point or the last point.  A high sampling rate is applied to provide means for the users to specify in detail the placement of the symbol |
| Stroke gesture   | Traced region boundary   |
| Point order      | Points are presented in the order they were sketched, starting with the one at the beginning of the stroke and moving towards the final point. A segment closing the area is established between the last and the first point  |

Examples (stroke shown in orange-purple)



| SIC      |   |
|----------|---|
| Fragment | Comment                                     |
| GGA G    | GENERAL AREA                                |
| GGA A    | ASSEMBLY AREA                               |
| GGA E    | ENGAGEMENT AREA                             |
| GGA F    | FORTIFIED AREA                              |
| GGA D    | DROP ZONE                                   |
| GGA X    | EXTRACTION ZONE (EZ)                        |
| GGA L    | LANDING ZONE (LZ)                           |
| GGA P    | PICKUP ZONE (PZ)                            |
| GGA Y    | LIMITED ACCESS AREA                         |
| GGA Z    | AIRFIELD ZONE                               |
| GAA F    | FORWARD AREA AIR DEFENSE ZONE (FAADEZ)      |
| GAA H    | HIGH DENSITY AIRSPACE CONTROL ZONE (HIDACZ) |
| GAA M    | MISSILE ENGAGEMENT ZONE (MEZ)               |
| GAA W    | WEAPONS FREE ZONE                           |
| GDA BP   | PREPARED BUT NOT OCCUPIED                   |
| GDA E    | ENGAGEMENT AREA                             |
| GOA A    | ASSAULT POSITION                            |
| GOA K    | ATTACK POSITION                             |
| GOA P    | PENETRATION BOX                             |
| GSA O    | AREA OF OPERATIONS (AO)                     |
| GSA A    | AIRHEAD                                     |
| GSA B    | BRIDGEHEAD                                  |
| GSA E    | ENCIRCLEMENT                                |
| GSA N    | NAMED AREA OF INTEREST (NAI)                |
| GSA T    | TARGETED AREA OF INTEREST (TAI)             |
| GNA LV   | NAVAL AAV LAUNCH AREA                       |
| GNA LC   | NAVAL CRAFT LAUNCH AREA                     |
| GNA CZ   | NAVAL CRAFT LANDING ZONE                    |

| CNA V. | NAMES OF THE PROPERTY OF THE P |
|--------|--|
| GNA VZ | NAVAL VERTICAL LANDING ZONE  |
| MOG B  | OBSTACLE BELT  |
| MOG Z  | OBSTACLE ZONE  |
| MOG F  | OBSTACLE FREE AREA   |
| MOG R  | OBSTACLE RESTRICTED AREA   |
| MOF D  | DYNAMIC DEPICTION  |
| MOF A  | MINED AREA   |
| MOU    | UNEXPLODED ORDINANCE AREA (UXO)  |
| MNR    | RADIOACTIVE AREA   |
| MNB    | BIOLOGICALLY CONTAMINATED AREA   |
| MNC    | CHEMICALLY CONTAMINATED AREA   |
| FPT R  | RECTANGULAR TARGET   |
| FAA    | FIRE SUPPORT AREA (FSA)  |
| FAT    | AREA TARGET  |
| FAT R  | RECTANGULAR AREA TARGET  |
| FAT C  | CIRCULAR TARGET  |
| FAT G  | FIRE SUPPORT AREA TARGET   |
| FAC AI | AIRSPACE COORDINATION AREA (ACA)   |
| FAC FI | IRREGULAR FREE FIRE AREA   |
| FAC NI | IRREGULAR NO FIRE AREA   |
| FAC RI | RESTRICTIVE FIRE AREA (RFA)  |
| FAC PR | RECTANGULAR POSITION AREA FOR ARTILLERY PAA ARTILLERY PFA ARTILLERY POSITION   |
| FAZ II | IRREGULAR ARTILLERY TARGET INTELLIGENCE INTEL ATI  |
| FAZ XI | IRREGULAR CALL FOR FIRE CFF  |
| FAZ FI | FIRE SUPPORT IRREGULAR CRITICAL FRIENDLY ZONE  |
| FAK BC | CIRCULAR FIRE SUPPORT KILL BOX   |
| FAK BI | IRREGULAR KILL BOX   |
| FAK BR | RECTANGULAR KILL BOX   |
| FAK PC | CIRCULAR KILL BOX  |
| FAK PI | IRREGULAR KILL BOX   |
| FAK PR | RECTANGULAR KILL BOX   |
| SAD    | DETAINEE HOLDING AREA  |
| SAE    | ENEMY PRISONER OF WAR (EPW) HOLDING AREA   |
| SAR    | FORWARD ARMING AND REFUELING AREA (FARP)   |
| SAH    | REFUGEE HOLDING AREA   |
| SAS B  | BRIGADE (BSA)  |
| SAS D  | DIVISION (DSA)   |
| SAS R  | REGIMENTAL (RSA)   |
|        |  |

# 7 ArrowFat

| Number of points                         | 3 or more   |
|--|---|
| Symbols                                  | Axis of advance, where width is a required component  |
| Anchor points                            | Start and end of each line segment, with point 1 representing the initial point of the sketched gesture, and each consecutive point representing a "hinge"/inflection point or the last point  The "barb" (last inflection of the harpoon) determines the width of the axis  A low sampling rate is applied, resulting in simplified line segments along the axis  The arrow direction is given by the last point |
| Stroked gesture                          | "Harpoon": traced line with a barb determining width  n = width  3 4  |
| Point order                              | Points are presented in the order they were sketched, starting with the one at the beginning of the stroke and moving towards the final point. The very last point provides the width   |
| Examples (stroke shown in orange-purple) | CATK  |

## Representative symbols

| SIC<br>Fragment | Comment                                      |
|-----------------|--|
| TK              | COUNTERATTACK (CATK)                         |
| TKF             | COUNTERATTACK BY FIRE                        |
| GOL AV          | FRIENDLY AVIATION AXIS OF ADVANCE            |
| GOL AA          | FRIENDLY AIRBORNE AXIS OF ADVANCE            |
| GOL AR          | FRIENDLY ATTACK, ROTARY WING AXIS OF ADVANCE |
| GOL AG M-       | MAIN ATTACK AXIS OF ADVANCE                  |
| GOL AG S-       | SUPPORTING ATTACK AXIS OF ADVANCE            |

#### 8 ArrowThin

| Number of points                         | 2   |
|--|---|
| Symbols                                  | Single segment line symbols   |
| Anchor position                          | Start and end of (straight) line segment. "Hinges"/inflection points are ignored.  The line segment represents the axis of the symbol, with the arrow direction given by the last point |
| Stroke gesture                           | Single line segment  12   |
| Point order                              | Starting point followed by the end point  |
| Examples (stroke shown in orange-purple) |   |

| SIC      |                     |
|----------|---------------------|
| Fragment | Comment             |
| TA       | ; FOLLOW AND ASSUME |



| TAS       | ; FOLLOW AND SUPPORT                             |
|-----------|--|
| GOL K     | ; DIRECTION OF ATTACK (no graphic at this level) |
| GOL KA    | ; DIRECTION OF AVIATION ATTACK                   |
| GOL KG    | ; DIRECTION OF GROUND ATTACK                     |
| GOL KG M- | ; DIRECTION OF MAIN ATTACK                       |
| GOL KG S- | ; DIRECTION OF SUPPORTING ATTACK                 |
| MOE F     | ; FIX  |

#### 9 Hook

| Number of points                         | 3   |
|--|---|
| Symbols                                  | Symbols that include a "hook"-like bend   |
| Anchor position                          | Start and end of (straight) line segment. Inflection points are ignored, except for the initial bend.  The line segment represents the axis of the symbol, either in the middle (e.g. of a corridor) or coinciding with the position of single line symbols  For symbols that have a direction, the arrow corresponds to the last point |
| Stroked gesture                          | "Hook": bend, followed by a single straight line segment  1 2   |
| Point order                              | Point at the beginning and at the end of the segment after the bend, followed by the first point (tip of the bend)  |
| Examples (stroke shown in orange-purple) | D>  |

## Representative symbols

| SIC      |          |
|----------|----------|
| Fragment | Comment  |
| TL       | DELAY    |
| TW       | WITHDRAW |

## 10 UbendThreePoints

| Number of points                         | 3  |
|--|--|
| Symbols                                  | Symbols with three anchor points, defined by a base and two parallel lines of same length  |
| Anchor position                          | The start and end points of the stroke determine the position of parallel lines. The single point in the middle of the bottom of the "U" shape determines the length applied to both lines |
| Stroked gesture                          | Squarish "U"-like shape  |
|  | 3 2  |
| Point order                              | Point at the start of the stroke, followed by the one at the end, and then a single point in the middle of the (closed) bottom of the "U"  |
| Examples (stroke shown in orange-purple) | A A A A A A A A A A A A A A A A A A A  |

| SIC      |         |  |
|----------|---------|--|
| Fragment | Comment |  |
| TH       | BREACH  |  |

| TY    | BYPASS                     |
|-------|----------------------------|
| TC    | CANALIZE                   |
| TX    | CLEAR                      |
| TJ    | CONTAIN                    |
| MB    | OBSTACLE BYPASS            |
| MBD   | OBSTACLE BYPASS DIFFICULTY |
| MBD E | BYPASS EASY                |
| MBD D | BYPASS DIFFICULT           |
| MBD I | BYPASS IMPOSSIBLE          |

## 11 Ubend

| Number of points                         | 4   |
|--|---|
| Symbols                                  | Similar to UBendThreePoint symbols, but with lines that are not required to be parallel, and can take different angles and have different lengths   |
| Anchor position                          | The base of the "U" aligns with the bottom of the symbol, and define its width. The sides determine the angle and length of outgoing lines or arrows. Each side can have a different angle and length |
| Stroked gesture                          | Squarish "U"-like shape   |
|  | 3<br>4<br>2   |
| Point order                              | Point at the start of the stroke, followed by the one at the end, and then each of the "corners" at the bottom of the "U"   |
| Examples (stroke shown in orange-purple) |   |

## Representative symbols

| SIC      |                          |
|----------|--------------------------|
| Fragment | Comment                  |
| GOA S    | SUPPORT BY FIRE POSITION |

#### **12 Vee**

| Number of points                         | 3   |
|--|---|
| Symbols                                  | Symbols that a) indicate coverage by two angled arrows, such as Screen, Guard and Cover, or 2) those that are composed by a base line plus an arrow, such as Ambush and Attack by Fire Position   |
| Anchor position                          | For symbols of type a), the sides of the "V" define the angle and length of the arrows that define the coverage. Type b) symbols are defined by a line that connects the start and end points, with an arrow projecting from this line to the vertex of the "V" |
| Stroked gesture                          | "V"-like shape  |
| Point order                              | Ther vertex (bottom of the "V"), followed by the start point and the end point of the stroke  |
| Examples (stroke shown in orange-purple) | SS  |

## Representative symbols

| SIC      |                                 |
|----------|---------------------------------|
| Fragment | Comment                         |
| TU       | SECURITY                        |
| TUS      | SCREEN                          |
| TUG      | GUARD                           |
| TUC      | COVER                           |
| GGA S    | SEARCH AREA/RECONNAISSANCE AREA |
| GOA F    | ATTACK BY FIRE POSITION         |
| GSL A    | AMBUSH                          |

# 13 Open Circle

| Number of points                                | 2   |
|---|---|
| Symbols   | Circular symbols                              |
| Anchor position                                 | Center of the circle and beginning of the arc |
| Stroked gesture                                 | (Open) oval/circular stroke, drawn clockwise  |
| Point order                                     | Center point, followed by the start point     |
| Examples (stroke<br>shown in orange-<br>purple) |   |

#### Representative symbols

| SIC<br>Fragment |         |
|-----------------|---------|
| Fragment        | Comment |
| TE              | ISOLATE |
| TO              | OCCUPY  |
| TQ              | RETAIN  |
| TS              | SECURE  |

# **14 Other Multipoint symbols**

| Number of points                         | Depends on the symbol   |
|--|---|
| Symbols                                  | Symbols with anchor points that do not fit the shapes definable by the generic stroke classes described in the document |
| Represent                                | Various points that depend on the specific symbol. See the MIL-STD-2525C/D symbol Draw Rules for details.               |
| Stroked gesture                          | Requires multiple strokes   |
| Examples (stroke shown in orange-purple) |   |

| SIC      |                       |
|----------|-----------------------|
| Fragment | Comment               |
| TB       | BLOCK                 |
| TT       | DISRUPT               |
| TI       | INTERDICT             |
| TP       | PENETRATE             |
| TR       | RELIEF IN PLACE (RIP) |
| TM       | RETIREMENT            |



| TZ    | SEIZE   |
|-------|---|
| GPD   | DUMMY (DECEPTION/DECOY)                               |
| GPA   | AXIS OF ADVANCE FOR FEINT                             |
| GPF   | DIRECTION OF ATTACK FOR FEINT                         |
| MOM C | MINE CLUSTER  |
| MOF G | GAP   |
| MOE B | BLOCK   |
| MOE T | TURN  |
| MOE D | DISRUPT   |
| MOR   | ROADBLOCKS, CRATERS, AND BLOWN BRIDGES                |
| MOR P | PLANNED ROADBLOCKS, CRATERS, AND BLOWN BRIDGES        |
| MOR S | EXPLOSIVES, STATE OF READINESS 1 (SAFE)               |
| MOR A | EXPLOSIVES, STATE OF READINESS 2 (ARMED-BUT-PASSABLE) |
| MOR C | ROADBLOCK COMPLETE (EXECUTED)                         |
| MOT   | TRIP WIRE   |
| MBC A | ASSAULT CROSSING AREA                                 |
| MBC B | BRIDGE OR GAP   |
| MBC F | FERRY   |
| MBC E | FORD EASY   |
| MBC D | FORD DIFFICULT  |
| MBC R | RAFT SITE   |
| MSW   | FOXHOLE, EMPLACEMENT OR WEAPON SITE                   |