Test description

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| **Test ID** | MIP4SLT3IS\_5480 |
| **Test Title** | Update to every possible GeometricDefinition (LocationType Sub-Types) for an example Facility. |
| **Execution Priority** | 1 |
| **Objective** | BSO validation. Test whether the Producer/Provider is able to create and update every possible GeometricDefinition for a Facility and the Consumers/Receivers are able to understand (and display) it correctly. |
| **Scenario** | The Producer creates a Facility LandMinefield with LocationType=PolygonType.  The Consumers receive the information and interpret it correctly.  The Producer updates the LandMinefield to LocationType=ArcType.  The Consumers receive the information and interpret it correctly.  The Producer continues to update the LandMinefield to all possible LocationTypes and the Consumers receive the information and interpret it correctly. |
| **Environment** | Internet or Co-located. Exchange Pattern: R/R, P/S. |
| **Participation** | 2 or more. |
| **MTRS** | Applicable |
| **Pre-test Conditions** | The Producer/Provider has created a topic which includes message elements belonging to the Facility message schema area.  The Consumers have subscribed to this topic. |
| **Test Inputs** | N/A. |
| **Conclusion** | This test is considered a success if the Facility is processed and interpreted correctly on all Nations’ C2IS for all LocationTypes. |
| **Test Outputs** | N/A. |
| **Traceability** | REQ\_INF\_0002, REQ\_INF\_0003 |

Test Procedure

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| Step | Action | Expected Result | Src | Dst |
|  | The Producer (A) creates a LandMinefield (Facility) with name ***XXX\_LNDMNFLD\_5480*** and with LocationType=PolygonType:  **Notices:**  XXX in name of the object is meant (in principle) to be replaced by the 3 letter code of the country name.  Example for the name of the Organisation: ITA\_ LNDMNFLD\_5480 ~~ | Consumers (B) receive and display the LandMinefield correctly. ~~ | 1 | 2 |
|  | The Producer (A) updates the LandMinefield with LocationType=ArcType ~~ | Consumers (B) receive and display the LandMinefield correctly. ~~ | 1 | 2 |
|  | The Producer (A) updates the LandMinefield with LocationType=ArrowType ~~ | Consumers (B) receive and display the LandMinefield correctly. ~~ | 1 | 2 |
|  | The Producer (A) updates the LandMinefield with LocationType=CircleType ~~ | Consumers (B) receive and display the LandMinefield correctly. ~~ | 1 | 2 |
|  | The Producer (A) updates the LandMinefield with LocationType=CorridorType ~~ | Consumers (B) receive and display the LandMinefield correctly. ~~ | 1 | 2 |
|  | The Producer (A) updates the LandMinefield with LocationType=EllipseType ~~ | Consumers (B) receive and display the LandMinefield correctly. ~~ | 1 | 2 |
|  | The Producer (A) updates the LandMinefield with LocationType=FanType ~~ | Consumers (B) receive and display the LandMinefield correctly. ~~ | 1 | 2 |
|  | The Producer (A) updates the LandMinefield with LocationType=LineType ~~ | Consumers (B) receive and display the LandMinefield correctly. ~~ | 1 | 2 |
|  | The Producer (A) updates the LandMinefield with LocationType=MultipointType ~~ | Consumers (B) receive and display the LandMinefield correctly. ~~ | 1 | 2 |
|  | The Producer (A) updates the LandMinefield with LocationType=OrbitType ~~ | Consumers (B) receive and display the LandMinefield correctly. ~~ | 1 | 2 |
|  | The Producer (A) updates the LandMinefield with LocationType=PointType ~~ | Consumers (B) receive and display the LandMinefield correctly. ~~ | 1 | 2 |
|  | The Producer (A) updates the LandMinefield with LocationType=RectangleType ~~ | Consumers (B) receive and display the LandMinefield correctly. ~~ | 1 | 2 |
|  | The Producer (A) updates the LandMinefield with LocationType=SphereType ~~ | Consumers (B) receive and display the LandMinefield correctly. ~~ | 1 | 2 |

**Configuration**

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| Item | Value | Comment |
| EventGeneration | 1 | 0 🡪 Combine steps to one event in the MTMT, generate new MTMT events on every source - destination change. 1 🡪 Every step will be added to the MTMT as a separate event. |