Test description

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| **Test ID** | MIP4SLT3IS\_5413 |
| **Test Title** | Update to every possible GeometricDefinition for a Facility. |
| **Execution Priority** | 1 |
| **Objective** | BSO validation.Verify the ability to create and update every possible GeometricDefinition for a Facility in a nation’s C2IS. |
| **Scenario** | Nation A creates a Facility (for instance just a ‘Facility’ Message Element) with LocationType = PolygonType.  Nation B receives the information and interprets it correctly.  Nation A updates the Facility to LocationType = ArcType.  Nation B receives the information and interprets it correctly.  Nation A continues to update the Facility to all possible LocationTypes and Nation B receives the information and interprets it every time correctly. |
| **Environment** | Internet or Co-located. Exchange Pattern: R/R, P/S. |
| **Participation** | 2 |
| **MTRS** | Applicable |
| **Pre-test Conditions** | Nation A has created a Topic which includes message elements belonging to the Facility message schema area.  Nation B has subscribed to this Topic. |
| **Test Inputs** | N/A. |
| **Conclusion** | This test is considered a success if the Facility is displayed correctly on both Nations’ C2IS. |
| **Test Outputs** | N/A. |
| **Traceability** | REQ\_INF\_0002, REQ\_INF\_0003 |

Test Procedure

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| Step | Action | Expected Result | Src | Dst |
|  | Nation A creates a Facility with LocationType = PolygonType. ~~ | Nation B receives and displays the AOI correctly. ~~ | 1 | 2 |
|  | Nation A updates the AOI with LocationType = ArcType. ~~ | Nation B receives and displays the AOI correctly. ~~ | 1 | 2 |
|  | Nation A updates the AOI with LocationType = ArrowType. ~~ | Nation B receives and displays the AOI correctly. ~~ | 1 | 2 |
|  | Nation A updates the AOI with LocationType = CircleType. ~~ | Nation B receives and displays the AOI correctly. ~~ | 1 | 2 |
|  | Nation A updates the AOI wCith LocationType = CorridorType. ~~ | Nation B receives and displays the AOI correctly. ~~ | 1 | 2 |
|  | Nation A updates the AOI with LocationType = EllipseType. ~~ | Nation B receives and displays the AOI correctly. ~~ | 1 | 2 |
|  | Nation A updates the AOI with LocationType = FanType. ~~ | Nation B receives and displays the AOI correctly. ~~ | 1 | 2 |
|  | Nation A updates the AOI with LocationType = LineType. ~~ | Nation B receives and displays the AOI correctly. ~~ | 1 | 2 |
|  | Nation A updates the AOI with LocationType = MultipointType. ~~ | Nation B receives and displays the AOI correctly. ~~ | 1 | 2 |
|  | Nation A updates the AOI with LocationType = OrbitType. ~~ | Nation B receives and displays the AOI correctly. ~~ | 1 | 2 |
|  | Nation A updates the AOI with LocationType = PointType. ~~ | Nation B receives and displays the AOI correctly. ~~ | 1 | 2 |
|  | Nation A updates the AOI with LocationType = RectangleType. ~~ | Nation B receives and displays the AOI correctly. ~~ | 1 | 2 |
|  | Nation A updates the AOI with LocationType = SphereType. ~~ | Nation B receives and displays the AOI 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. |