Test description

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| **Test ID** | MIP4SLT3IS\_5048 |
| **Test Title** | **Units with Orientation based GeometricDefinition**. |
| **Execution Priority** | 1 |
| **Objective** | BSO validation.Test whether the Producer/Provider is able to create the correct MIP data for all the operational elements (defined by [IDT](http://www.cloudexp.com/IDT) Schema Documentation **> Unit.xsd** **>** **ScoutUnit,** as an example unit with its orientation) and the Consumers are able to correctly understand (and display) it. |
| **Scenario** | The Producer creates message elements for Orientation based GeometricDefinition. The Consumers receive the data and process them. |
| **Environment** | Internet or Co-located. Exchange Pattern: R/R, P/S. |
| **Participation** | 2 or more. |
| **MTRS** | N/A |
| **Pre-test Conditions** | The Producer/Provider has created the ‘Ground Picture > Forces’ topic. The Consumers have subscribed to this topic. |
| **Test Inputs** | N/A. |
| **Conclusion** | The orientation of the objects is correct when the information is exchanged between the C2IS’s of both nations.  This test is considered a success if the unit is created and all elements are processed and interpreted correctly on all Nations’ C2IS. |
| **Test Outputs** | N/A. |
| **Traceability** | REQ\_INF\_0002. |

Test Procedure

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| --- | --- | --- | --- | --- |
| Step | Action | Expected Result | Src | Dst |
|  | The Producer creates an example Unit with known values for its **orientation based GeometricDefinition** elements (Course, Lat, Lon and Speed),with name ***XXX\_SU\_048*** and fills at least **ALL** its mandatory elements.  In particular **Nation A** creates a Unit with a **Course** element valorised.  **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\_SU\_048 ~~ | Consumers receive and process (and display) the **example Unit** and all elements that the Producer created.  All elements covering the orientation have been changed correctly. ~~ | 1 | 2 |
|  | The Producer creates an update for the object by **changing its** GeometricDefinition and its Sub-Type in particular Point > PointPosition:   * Lon * Lat * Course * Speed ~~ | Consumers receive and process (and display) the **changed Orientation based GeometricDefinition** and all elements that the Producer created.  All elements covering the orientation have been changed 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. |