Test description

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| **Test ID** | MIP4SLT1\_1235 |
| **Test Title** | Moving entities into and out of a Topic |
| **Execution Priority** | 3 (HP) |
| **Objective** | Asses Producer and Consumer behaviour when the Consumer is receiving subscription updates to desired Topics and entities (BSOs as for MIP4.0) move into and out of them. |
| **Scenario** | MIP4SLT1\_1231 has been executed successfully, the Consumer(s) is (are) receiving subscription updates to desired Topics via the Publish/Subscribe EP.  Entities (BSOs as for MIP4.0) are moving into and out of these Topics. |
| **Environment** | Internet or Co-located. Exchange Pattern: P/S. |
| **Participation** | 2 or more. |
| **MTRS** | N/A |
| **Pre-test Conditions** | MIP4SLT1\_1231: Current situation nominal consumption established and working between Producer/Provider and Consumer(s).  The Consumer(s) is (are) receiving subscription updates to desired Topics via the Publish/Subscribe EP. |
| **Test Inputs** | N/A. |
| **Conclusion** | Asses Producer and Consumer behaviour as Entities (BSOs as for MIP4.0) are moving into and out of Consumer subscribed Topics.  The simplest minimum behaviour would be:   * Entity moves into a Topic: Producer starts to provide update information on that Entity to Consumer as prescribed by the P/S EP (probably as it enters the Topic for the first time) * Entity moves out of a Topic: Producer stops providing update information on that Entity to Consumer (and it is not required to do anything else as for MIP4.0) |
| **Test Outputs** | N/A. |
| **Traceability** | REQ\_EM\_0008, REQ\_EM\_0010, REQ\_EM\_0012 |

Test Procedure

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| Step | Action | Expected Result | Src | Dst |
|  | Producer (1) is processing subscription request from Consumer (2) and providing update information as prescribed utilising the Publish/Subscribe exchange mechanism. ~~ | Consumer (2) receives updates of subscription data. ~~ | 1 | 2 |
|  | Entity (BSO as for MIP4.0) moves into a Topic to which the Consumer is subscribed. ~~ | Producer starts to provide update information on that Entity to Consumer as prescribed by the P/S EP.  Take notice of exact behaviour regarding to that Entity on both sides, Producer and Consumer. ~~ | 1 | 2 |
|  | Entity (BSO as for MIP4.0) moves out of a Topic to which the Consumer is subscribed. ~~ | Producer stops providing update information on that Entity to Consumer.  Take notice of exact behaviour regarding to that Entity on both sides, Producer and Consumer. ~~ | 1 | 2 |
|  | Repeat steps 2 and 3 several times, with new entities belonging in different Message Schema Areas if possible.  Also try re-entry of entities that were in and left the topic. ~~ | Take notice of exact Producer’s and Consumer’s behaviour in each case. ~~ | 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. |