Test description

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| **Test ID** | MIP4SLT1\_1102 |
| **Test Title** | Subscribe using an unsupported filter (from producer's point of view): unsupported topic |
| **Execution Priority** | 2 (High Priority area) |
| **Objective** | To subscribe to items using a filter on a producer’s unsupported topic (using a TopicExpression). |
| **Scenario** | Test of faults (TopicNotSupportedFault). The Consumer is interested in receiving regular updates of the Current Situation on an unsupported topic in an asynchronous way (i.e. without polling the Producer). |
| **Environment** | Internet or Co-located. Exchange Pattern: P/S. |
| **Participation** | 2 |
| **MTRS** | N/A |
| **Pre-test Conditions** | MIP4SLT1\_1211, MIP4SLT1\_1213, MIP4SLT1\_1215  Prior to initiating exchange of MIP4.0 messages, each participant in the exchange will complete the *MIP4.0 Joining Questionnaire [REF-MIP-5]* and share this questionnaire with their exchange partners. The exchange of completed questionnaires will:   * Inform exchange partners of the capabilities of a partner system * Allow partners to exchange source identifiers * Aid in the early identification of potential issues   The exchange partners are expected to resolve any identified issues prior to the actual exchange of MIP4.0 messages.   |  |  | | --- | --- | | **ID** | **Rule** | | Exigence-1 | Prior to initiating MIP4.0 Information Exchange, the exchange partners shall complete and share the *MIP4.0 Joining Questionnaire*.[REF-MIP-5] |   Both Consumer and Producer systems conform to MIP4.0 Publish/Subscribe Exchange Pattern Specification.  Both Consumer and Producer are able to process and exchange information represented according to MIP4.0 Information Schemas.  Consumer successfully discovered the target Producer. The system on the Consumer side has been properly configured and is ready to interact with the Producer system. |
| **Test Inputs** | Name of single topic to be tested |
| **Conclusion** | The test is concluded after the Consumer is ready to receive regular asynchronous updates of the current situation from the Producer and the Consumer system is able to correctly receive all information associated with the topic, i.e. that it is unsupported by the Producer, over a publish-subscribe exchange. |
| **Test Outputs** | Verification that the information associated with the single topic requested is received correctly. |
| **Traceability** | MIP4\_Publish\_Subscribe\_Exchange\_Pattern, REQ\_EM\_0008, REQ\_EM\_0010, REQ\_SYS\_0021. |

Test Procedure

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| Step | Action | Expected Result | Src | Dst |
|  | The Consumer subscribes to the Producer in order to advertise its interest in a single topic.  rpw:GetResourceProperty  with parameters wsn:SimpleTopicExpression, wsn:FixedTopicSet, wsn:TopicExpressionDialect and wstop:TopicSet. ~~ | The Producer receives a valid request for resource properties using SimpleTopicExpression ~~ | 1 | 2 |
|  | Producer informs that the subscription topic is unsupported. ~~ | Consumer receives and interprets requested information correctly. ~~ | 2 | 1 |

**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. |