Test description

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| **Test ID** | MIP4SLT1\_1109 |
| **Test Title** | Subscribe, specify termination time but time is invalid – too far in the future |
| **Execution Priority** | 3 |
| **Objective** | The objective is for the Consumer to subscribe to a topic provided by the Provider and to receive updates until a specified termination time. |
| **Scenario** | The Consumer is interested in receiving regular updates on a 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, MIP4SLT1\_1130  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. The Producer system broadcasts at least some of the topics requested. |
| **Test Inputs** | N/A. |
| **Conclusion** | The Consumer should receive an error message indicating that the subscription termination time is too far into the future. The test is concluded when the Consumer receives the error notification. |
| **Test Outputs** | N/A. |
| **Traceability** | REQ\_INF\_0002. |

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 subset of the data space. The consumer specifies a subscription termination time that is too far into the future.  rpw:GetResourceProperty  with parameters wsn:FullTopicExpression, wsn:FixedTopicSet, wsn:TopicExpressionDialect and wstop:TopicSet. ~~ | The Producer receives a valid request for resource properties. The producer receives a subscription request with a specified termination time. The termination time is too far into the future. ~~ | 1 | 2 |
| 2 | Producer accepts or rejects the subscription requests. ~~ | The Producer rejects the request.  The Producer sends subscription rejection notification to the Consumer.  ~~ | 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. |