Test description

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| **Test ID** | MIP4SLT1\_1113. |
| **Test Title** | Retrieve the fixed topic set property from producer / provider |
| **Execution Priority** | 1 |
| **Objective** | The objective is for the Consumer to retrieve if the producer topic set is immutable |
| **Scenario** | The Consumer is interested in checking the immutability of the producer topic before or during using this topic set for Request/Response and/or Publish/Subscribe exchanges |
| **Environment** | Internet or Co-located. Exchange Pattern: P/S and R/R. |
| **Participation** | 2 |
| **MTRS** | N/A |
| **Pre-test Conditions** | MIP4SLT1\_1211, MIP4SLT1\_1213, MIP4SLT1\_1215  Prior to initiating exchange to request resource properties, 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 either MIP4.0 Publish/Subscribe Exchange Pattern Specification or MIP4.0 Request/Response Exchange Pattern Specification or both. |
| **Test Inputs** | N/A. |
| **Conclusion** | The test is concluded after the Consumer has received a Boolean if the Producer Topic Set is immutable or not. |
| **Test Outputs** | N/A. |
| **Traceability** | REQ\_EM\_0011. |

Test Procedure

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| Step | Action | Expected Result | Src | Dst |
|  | The consumer sends a request to check if the Topic Set is Immutable to the GetResourceProperty service of the producer. Requested property is :  *<rp:GetResourceProperty>*  *b2:* *FixedTopicSet*  *</rp:GetResourceProperty>* ~~ | The Producer receives a valid request for resource properties using *b2:FixedTopicSet* ~~ | 1 | 2 |
|  | Producer sends whether its Topic Set is Immutable or not the topic dialects it supports ~~ | Consumer receives the *FixedTopicSet* value as a Boolean. ~~ | 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. |