Test description

|  |  |
| --- | --- |
| **Test ID** | MIP4SLT1\_1231 |
| **Test Title** | Nominal Consumption |
| **Execution Priority** | 1 |
| **Objective** | A Consumer receives initialization data on desired Topics through the use of Request – Response exchange pattern. Once received the Consumer requests and receives subscription updates to desired Topics using the Publish/Subscribe exchange pattern. |
| **Scenario** | A Consumer requests “start state” Topic information from a Producer prior to subscribing to routine or repeat notifications. This initialization data is achieved through the use of Request/Response exchange pattern. Once received, the Consumer requests routine subscription to desired Topics using the Publish/Subscribe exchange pattern. |
| **Environment** | Internet or Co-located. Exchange Pattern: R/R and P/S. |
| **Participation** | 2 or more. |
| **MTRS** | N/A |
| **Pre-test Conditions** | The Producer/Provider has published Topics containing a list of message types that are supported and grouped by functional areas that are relevant to the current deployment scenario. |
| **Test Inputs** | N/A. |
| **Conclusion** | This test is considered a success if the Consumer successfully requests and receives initialization information on the Topics requested through the Request/Response exchange pattern and successfully subscribes to routine updates of the selected Topics through the use of Publish and Subscribe exchange mechanism |
| **Test Outputs** | N/A. |
| **Traceability** | REQ\_EM\_0006, REQ\_EM\_0008, REQ\_EM\_0010 |

Test Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Step | Action | Expected Result | Src | Dst |
|  | The Producer (A) has established and published Topic List with Message Types that are supported for Request/Response and Publish/Subscribe exchange mechanisms. ~~ | Consumer (B) has visibility of the Topics/Message Lists available from the Producer (A) and requests initialisation “start state” information utilizing the Request/Response exchange mechanism. ~~ | 1 | 2 |
|  | The Producer (A) receives initialisation request from Consumer (B) and provides “Start State” information requested. ~~ | Consumer (B) receives initialisation data and requests subscription information from Producer (A) on the same Topic/Message information utilizing Publish/Subscribe exchange mechanism. ~~ | 1 | 2 |
|  | Producer (A) processes subscription request from Consumer (B) and provides update information as prescribed utilizing the Publish/Subscribe exchange mechanism. ~~ | Consumer (B) received updates of subscription data. ~~ | 1 | 2 |

**Configuration**

|  |  |  |
| --- | --- | --- |
| 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. |