Test description

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| **Test ID** | MIP4SLT3SF\_3410 |
| **Test Title** | Data Availability during a participant's Outage Period |
| **Execution Priority** | 1 |
| **Objective** | To assess what happens when a System disconnects for a period to the rest of participant systems that remain connected. Is information lost? Are there conflicts? |
| **Scenario** | A producer notifies two or more consumers and at least one of the consumers goes offline. Other consumers need to keep receiving the notifications from the producer. |
| **Environment** | Internet or Co-located. Exchange Pattern: P/S |
| **Participation** | 4 |
| **MTRS** |  |
| **Pre-test Conditions** | Test group 3.6 ‘Initialisation’.  Nation B,C and D have subscribed to the same topic from Nation A. |
| **Test Inputs** | Nation A will have to produce a payload to the other subscribed nations. |
| **Conclusion** | All online consumers keep receiving the notifications from the producer event if one consumer is offline. |
| **Test Outputs** | Nation C and D have all the payloads from the notifications sent from Nation A. (Nation B will not for it has gone offline during this test scenario; recovery is covered in another test scenario). |
| **Traceability** | REQ\_SYS\_0001, REQ\_SYS\_0002 |

Test Procedure

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| Step | Action | Expected Result | Src | Dst |
|  | Nation A produces a payload and sends the notification to the subscribers. ~~ | Nations B, C and D receive the notification. ~~ | 1 | 2,3,4 |
|  | Nation B goes offline (unplug network cable or shutdown the system but DO NOT unsubscribe). ~~ | Nation A can still see the subscription from Nations B, C and D. ~~ | 2 | 1 |
|  | Nation A produces a payload and sends the notification to the subscribers. ~~ | Nations C and D receive the notification. Nation A might have timed out on the notification to Nation B but won’t stop sending to others that are still reachable. ~~ | 1 | 3,4 |

**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. |