Test description

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| **Test ID** | MIP4SLT2.5\_2415 |
| **Test Title** | **Location** NIL in an Invalid Abstract Element |
| **Execution Priority** | HP (3 originally) |
| **Objective** | Check Optionality of Elements (specifically attributes that were mandatory within MIP3.1 and are optional within MIP4-IES Schema Documentation).  Confirm systems correctly accommodate ‘NIL’ values for the **Location** field in invalid abstract elements. |
| **Scenario** | Send an object containing an Invalid Abstract Element with all its mandatory as well as optional elements filled in with valid values to the Gateway through the Test Tool (TT). The Invalid Abstract Element should contain a **Location** element.  The restrictions for the elements’ values are specified within the MIP4-IES Schema Documentation.  Send the object again with **Location** set to NIL in the Invalid Abstract Element.  The Gateway must be able to handle the NIL values for **Location** in the Invalid Abstract Element by correctly mapping to the C2 system, translating NIL values to comment or any other means desired. Regardless of the method chosen to handle the NIL value, the Gateway must remain stable. |
| **Environment** | Co-located, Internet through VPN. |
| **Participation** | 1 |
| **MTRS** |  |
| **Pre-test Conditions** | The nation’s Gateway and the TT are ready to connect and have a physical connection with each other. Also the SOAP connection is established and ready for transport.  MIP4SLT2.5\_2415-n.xml data are available at the TT to be sent. |
| **Test Inputs** | MIP4SLT2.5\_2415-1.xml (all elements), MIP4SLT2.5\_2415-2.xml (contains an invalid Abstract Element with an Element **Location** set to NIL).  In order to generate these XML files, special attention must be paid to attributes that were mandatory within MIP3.1 (they can be checked within MIG-Annex-F-MOR-List-v3.1.13), whose corresponding MIP4-IES Elements are now optional.  The nation should send at least one object through its test tool which has an Invalid Abstract Element containing a **Location** element whose value is set to NIL. |
| **Conclusion** | This test is considered a success if and only if the Gateway remains stable and handles all messages correctly. Preferably, the object is displayed at the nation’s C2 system with correct mandatory information. |
| **Test Outputs** | Pass or fail. |
| **Traceability** | REQ\_IDT\_0004 |

Test Procedure

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| Step | Action | Expected Result | Src | Dst |
|  | The nation loads MIP4SLT2.5\_2415-1.xml into their C2 system (2) through the TT (1). ~~ | Objects visible in the C2 system with the correct received elements values. ~~ | 1 | 2 |
|  | The nation loads MIP4SLT2.5\_2415-2.xml into their C2 system (2) through the TT (1). ~~ | Objects displayed at the nation’s C2 system with correct mandatory elements’ information and Abstract Element **Location**’s NIL values handled correctly. ~~ | 1 | 2 |

**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. |