Test description

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| **Test ID** | MIP4SLT1\_1127 |
| **Test Title** | Retrieve items using a filter on bounding box. Bounding box does not contain items |
| **Execution Priority** | 1 (and High Priority area) |
| **Objective** | To retrieve items using a filter on a bounding box where the bounding box does not contain items |
| **Scenario** | Test to be derived with (bounding box "contains" items).  The requestor must provide a valid bounding box.  There must be **no** valid entities contained within the valid bounding box.  ‘Retrieve’ is the term used within MIP Information Exchange Specification (MIP IES) - REQUEST/RESPONSE EXCHANGE PATTERN.  Notice: There is ‘TopicExpression’ yet not ‘ConcreteTopicExpression’ within MIP4.0- REQUEST/RESPONSE EXCHANGE PATTERN – IPT4  V0.1.2, not even the term ‘Concrete’ is once found. EMT: Please assess |
| **Environment** | Internet or Co-located |
| **Participation** | 2 |
| **MTRS** |  |
| **Pre-test Conditions** | MIP4SLT1\_1211, MIP4SLT1\_1214, MIP4SLT1\_1213  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] |   The Provider should confirm that his system does not contain any valid entities within the bounding box which the Consumer is going to provide for the test. |
| **Test Inputs** | A valid bounding box to use as filter criterion. |
| **Conclusion** | The test is completed when the Consumer system is able to correctly receive an indication that there are NO items contained within the specified bounding box, over a request-response exchange. The Provider must respond that he has successfully performed the requested filtering, but that no items lie within the bounding box specified by the Consumer. |
| **Test Outputs** | Verification that the (empty) information associated with the specified bounding box is received correctly. The set of information contained within the bounding box must be empty. The Consumer should receive an indication that his filter has been performed successfully, but that no items satisfy his filter criteria. |
| **Traceability** | MIP4\_Request\_Response\_Exchange\_Pattern, REQ\_SYS\_0021, REQ\_EM\_0012 |

Test Procedure

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| Step | Action | Expected Result | Src | Dst |
|  | Consumer (1) requests information about items contained within a bounding box from the Provider (2) using a Request/Response exchange. ~~ | Provider receives and interprets request correctly. ~~ | 1 | 2 |
|  | Provider sends requested information (whether bounding box "contains" items; bounding box does not "contain" items). Consumer receives and interprets requested data correctly. For this test, the bounding box must not contain items. ~~ | Requested data is received and interpreted correctly. ~~ | 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. |