Test description

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| **Test ID** | MIP4SLT1\_1126 |
| **Test Title** | Retrieve items using a filter on bounding box. Bounding box contains items |
| **Execution Priority** | 1 (and High Priority area) |
| **Objective** | To retrieve items using a filter on a bounding box where the bounding box contains items |
| **Scenario** | Test to be derived with (bounding box "contains" items).  The requestor must provide a valid bounding box.  There must be at least one valid entity 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 contains at least one valid entity 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 all information associated with the items contained within the specified bounding box, over a request-response exchange. The Provider must identify contained items which lie within the bounding box specified by the Consumer. |
| **Test Outputs** | Verification that the information associated with the specified bounding box is received correctly. The set of information contained within the bounding box must not be empty. |
| **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 contain at least one item. ~~ | 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. |