Test description

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| **Test ID** | MIP4SLT3SF\_3113 |
| **Test Title** | Filter by Area. |
| **Execution Priority** | 1 |
| **Objective** | Evaluate the behaviour associated with Filtering, for the Filter by Area type. Commonly defined filtering specifications (Xpath expressions) for both P/S and R/R are recommended. |
| **Scenario** | A Consumer specifies a rectangular area indicating its geographical area of interest. Several BSOs both within and out of this area will be published at the Producer. |
| **Environment** | Internet, co-located. Exchange Pattern: P/S, R/R. |
| **Participation** | 2 |
| **MTRS** |  |
| **Pre-test Conditions** | 3405 - Object progressing through a bounding box. |
| **Test Inputs** | N/A |
| **Conclusion** | Even though the Consumer may specify a Filter, it remains the responsibility of the Provider to determine how best to satisfy the request. This may mean that the Consumer receives data outside the parameters of the Filter. Satisfying the Filter requests of the Consumer should be considered ‘best effort’ and not a hard requirement.  Consequently, the conclusion of this test is just to evaluate the behaviour associated with Filtering. |
| **Test Outputs** | N/A |
| **Traceability** | REQ\_SYS\_0016, REQ\_SYS\_0021 |

Test Procedure

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| --- | --- | --- | --- | --- |
| Step | Action | Expected Result | Src | Dst |
|  | The Producer inserts BSOs in its C2IS, both within and out of the rectangular area indicating the Consumer’s geographical area of interest. ~~ | It remains the responsibility of the Provider to determine how best to satisfy the Consumer’s Filter specification request, which will be considered a ‘best effort’ requirement.  The not filtered out insertions are automatically received at the Consumer, which is able to incorporate them (or not) to the current operational picture shown on its C2IS.  The Filtering behaviour will be evaluated on both Producer and Consumer sides. ~~ | 1 | 2 |
|  | Producer and Consumer rotate roles and conduct Step 1 again. ~~ | As steps 1. ~~ | 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. |