HMA-T

IMAA-CNR/PIN Acceptance Test Report

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1 Introduction

This document provides readable/printable documentation of the results of specific validation test sessions, documenting the activities performed by IMAA-CNR/PIN in the framework of the HMA-T project.

The following sections describe the overall configuration of the test environment and report the detailed outcome of selected test sessions of interest. Several additional sessions of the IMAA-CNR/PIN ETS’s executed against some of the HMA-T partners’ service instances are reported in Annex A.

2 Configuration of the test environment

This section details the configuration of the test environment used to execute the following test sessions.

2.1 Reference Implementations

The following catalog server instances have been deployed:

- HMA-demo EO – the GI-cat 6.x with suitable pre-loaded EO data, deployed to the Amazon EC2 facility at the url: http://ec2-174-129-217-224.compute-1.amazonaws.com/gi-cat-6.1.1-HMA-demo-E0/services/cswebrimeo
- HMA-demo CIM – the GI-cat 6.x with suitable pre-loaded CIM data, deployed to the Amazon EC2 facility at the url: http://ec2-174-129-217-224.compute-1.amazonaws.com/gi-cat-6.1.1-HMA-demo-CIM/services/cswebrimcim

Besides, software installation packages for the Windows, OS X and Linux platform, pre-loaded with reference data (see the next section), have been made available at the following URL’s:

- GI-cat 6.x EO EP RI
  - http://atlas.dta.cnr.it/GI-cat/GI-cat-E0
- GI-cat 6.x CIM EP RI
  - http://atlas.dta.cnr.it/GI-cat/GI-cat-CIM

2.2 Reference data files

A number of reference data files have been selected for the test sessions, from those made available on the wiki and/or otherwise circulated (see the attached archive HMAT-SVTS-0005-CNR - Selected HMA reference files).

The following reference dataset/service files have been selected for the EO EP test sessions:

- DLR ATM 80529 datasets – 2 files provided by
The following reference dataset/service files have been selected for the CIM EP test:

- Collection for ESA – 62 files provided by Spacebel
- Collection for SPOT – 14 files provided by Spacebel
- ISO 19139 Samples – 2 files (1 dataset, 1 service) available on the project wiki
- Series-services-fedeo – 2 files (1 dataset, 1 service) available on the project wiki; the dataset file could not be used (see the README.pdf in HMAT-SVTS-0005-CNR)
- Spot_ISO_files – 3 files (1 dataset, 2 service) available on the project wiki; one of the service file could not be used (see the README.pdf in HMAT-SVTS-0005-CNR)

2.3 Reference TEAM Engine

The reference TEAM Engine used for most test sessions is the official HMA-T TEAM Engine, made available by ESA at the following URL:

- http://montgomery.esrin.esa.int/

The bundle EO and the bundle CIM test sessions, whose ETS’s were not available on montgomery, have been executed by the IMAA-CNR/PIN TEAM Engine, available at the following URL:

- http://zeus.pin.unifi.it/teamengine/

3 Test sessions

The following test sessions are considered:

1. EO EP ETS run against the HMA-demo GI-cat server instance, verifying its full conformance to the version 0.2.5 of the specification.

2. CIM EP ETS run against the HMA-demo GI-cat server instance, verifying its full conformance to the version 0.1.9 of the specification.

3. EO EP ETS run against predefined incorrect control data of the HMA-demo-wrong GI-cat server instance, verifying the ETS fails as expected.

4. CIM EP ETS run against predefined incorrect control data of the HMA-demo-wrong GI-cat server instance, verifying the ETS fails as expected.

5. EO EP ETS run against a fresh GI-cat server instance.

6. CIM EP ETS run against a fresh GI-cat server instance.

7. Bundle EO EP ETS run against the HMA-demo GI-cat server instance, verifying its full conformance to the version 0.2.5 of the specification.

8. Bundle CIM EP ETS run against the HMA-demo GI-cat server instance, verifying its full conformance to the version 0.1.9 of the specification.
The following sections detail each test session, specifying:

- the components of the test environment exercised by the session
- the data and parameters used
- a summary of the outcome of the test procedures/scripts, with possible comments

For detailed information on the test sessions, including log files, see the attached archive HMAT-SVTS-0006-CNR - Test session log files.

### 3.1 EO EP ETS against HMA-demo

**Target:** http://ec2-174-129-217-224.compute-1.amazonaws.com/gi-cat-6.1.1-HMA-demo-E0/services/cswebrimeo?service=CSW&version=2.0.2&request=GetCapabilities

**Data and parameters used:** urn:ogc:def:EOP:ESA.EECF.ENVISAT_ASA_GMI_1S:EN1-07011402572466-244028.XG0:EOProduct

**Result summary:** All tests were completed successfully, except for some warning results in:

- ATC 1.4 This is because no EOP, ATM, PHR, VGT data were loaded in the catalog (only SAR and OPT).

- ATC 1.17 The association "HasMaskInformation" was not found in the catalog. This is correct, because no test data contains it.

- ATC 1.18 The object type "HasMaskInformation" was not found in the catalog. This is correct, because no test data contains it.
Results for session s0005

Test Suite: CSW ebRIM extension package for Earth Observation Products compliance test suite

- Test ebrieme:conformance-test (View Details): Warning
- Test ebrieme:binding-test (View Details): Warning
  - Test ebrieme:conformance-tests (View Details): Warning
    - Test ebrieme:execute-ATC.1.2 (View Details): Passed
    - Test ebrieme:execute-ATC.1.3 (View Details): Passed
  - Test ebrieme:read-ATC.1.4 (View Details): Warning
    - Test wrx:test-object (View Details): Passed
    - Test wrx:test-object (View Details): Passed
    - Test wrx:test-object (View Details): Warning
    - Test wrx:test-object (View Details): Warning
    - Test wrx:test-object (View Details): Warning
    - Test wrx:test-object (View Details): Warning
  - Test ebrieme:execute-ATC.1.5 (View Details): Passed
  - Test ebrieme:execute-ATC.1.6 (View Details): Passed
  - Test ebrieme:execute-ATC.1.7 (View Details): Passed
  - Test ebrieme:execute-ATC.1.8 (View Details): Passed
  - Test ebrieme:execute-ATC.1.9 (View Details): Passed
  - Test ebrieme:execute-ATC.1.10 (View Details): Passed
  - Test ebrieme:execute-ATC.1.11 (View Details): Passed
  - Test ebrieme:execute-ATC.1.12 (View Details): Passed
  - Test ebrieme:execute-ATC.1.13 (View Details): Passed
  - Test ebrieme:execute-ATC.1.14 (View Details): Passed
  - Test ebrieme:execute-ATC.1.15 (View Details): Passed
  - Test ebrieme:execute-ATC.1.16 (View Details): Passed
  - Test ebrieme:execute-ATC.1.17 (View Details): Warning
    - Test wrx:test-object (View Details): Warning
  - Test ebrieme:execute-ATC.1.18 (View Details): Warning
    - Test wrx:test-object (View Details): Warning
    - Test wrx:test-object (View Details): Warning
    - Test wrx:test-object (View Details): Warning
    - Test wrx:test-object (View Details): Warning
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    - Test wrx:test-object (View Details): Warning
    - Test wrx:test-object (View Details): Warning
  - Test ebrieme:execute-ATC.1.19 (View Details): Passed
  - Test ebrieme:execute-ATC.1.20 (View Details): Passed
  - Test ebrieme:execute-ATC.1.21 (View Details): Passed
  - Test ebrieme:execute-ATC.1.22 (View Details): Passed
    - Test ebrieme:correspondences-tables (View Details): Passed
    - Test ebrieme:execute-ATC.1.23 (View Details): Passed
    - Test ebrieme:execute-ATC.1.24 (View Details): Passed

- Test ebrieme:binding-test (View Details): Warning
  - Test ebrieme:conformance-tests (View Details): Warning
  - Test ebrieme:execute-ATC.1.2 (View Details): Passed
  - Test ebrieme:execute-ATC.1.3 (View Details): Passed
  - Test ebrieme:execute-ATC.1.4 (View Details): Warning
    - Test wrx:test-object (View Details): Warning
    - Test wrx:test-object (View Details): Passed
    - Test wrx:test-object (View Details): Passed
    - Test wrx:test-object (View Details): Passed
    - Test wrx:test-object (View Details): Passed
    - Test wrx:test-object (View Details): Warning
    - Test wrx:test-object (View Details): Warning
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    - Test wrx:test-object (View Details): Warning
    - Test wrx:test-object (View Details): Warning
    - Test wrx:test-object (View Details): Warning
  - Test ebrieme:execute-ATC.1.5 (View Details): Passed
  - Test ebrieme:execute-ATC.1.6 (View Details): Passed
3.2 CIM EP ETS against HMA-demo


Data and parameters used: urn:ogc:def:EOP:ESA:EECF.ENVISAT_ASA_IM__0S-I

Result summary: All tests were completed successfully.

Results for session s0004

Test Suite: CSW eRM extension package for Core ISO Metadata (CIM) compliance test suite

- Test rim:conformance-test (View Details): Passed
- Test rim:execute:ATC.1 (View Details): Passed
- Test rim:execute:ATC.2 (View Details): Passed
- Test rim:execute:ATC.3 (View Details): Passed
- Test rim:execute:ATC.4 (View Details): Passed

Summary: Pass: 17, Warning: 0, Fail: 0
3.3 EO EP ETS against HMA-demo (uncorrect data)


**Data and parameters used**: urn:ogc:def:EOP:ESA.EECF.ENVISAT_ASA_GMI_1S:EN1-07011402572466-244028.XG0:EOProduct

**Result summary**: The test was issued against a GI-cat instance configured to fail. In particular the mapping performed from GML EO to the CSW records has been modified in this instance, to the aim of tests failure.

**Results for session s0006**

Test Suite: CSW eBIM extension package for Earth Observation Products compliance test suite

- [ ] Test ebIMEO:conformance-test (View Details): Failed (Inherited Failure)
- [ ] Test ebIMEO:binding-test (View Details): Failed (Inherited Failure)
- [ ] Test ebIMEO:conformance-tests (View Details): Failed (Inherited Failure)
  - [ ] Test ebIMEO:execute-ATC.1.2 (View Details): Passed
  - [ ] Test ebIMEO:execute-ATC.1.3 (View Details): Passed
  - [ ] Test ebIMEO:execute-ATC.1.4 (View Details): Failed (Inherited Failure)
  - [ ] Test ebIMEO:execute-ATC.1.5 (View Details): Failed (Inherited Failure)
  - [ ] Test ebIMEO:execute-ATC.1.6 (View Details): Passed
  - [ ] Test ebIMEO:execute-ATC.1.7 (View Details): Passed
  - [ ] Test ebIMEO:execute-ATC.1.8 (View Details): Failed (Inherited Failure)
  - [ ] Test ebIMEO:execute-ATC.1.9 (View Details): Warning
  - [ ] Test ebIMEO:execute-ATC.1.10 (View Details): Passed
  - [ ] Test ebIMEO:execute-ATC.1.11 (View Details): Failed (Inherited Failure)
  - [ ] Test ebIMEO:execute-ATC.1.12 (View Details): Warning
  - [ ] Test ebIMEO:execute-ATC.1.13 (View Details): Passed
  - [ ] Test ebIMEO:execute-ATC.1.14 (View Details): Failed (Inherited Failure)
  - [ ] Test ebIMEO:execute-ATC.1.15 (View Details): Warning
  - [ ] Test ebIMEO:execute-ATC.1.16 (View Details): Passed
  - [ ] Test ebIMEO:correspondences-tabbed (View Details): Passed
  - [ ] Test ebIMEO:execute-ATC.1.17 (View Details): Warning
  - [ ] Test ebIMEO:execute-ATC.1.18 (View Details): Warning
  - [ ] Test ebIMEO:execute-ATC.1.19 (View Details): Passed
  - [ ] Test ebIMEO:execute-ATC.1.20 (View Details): Failed (Inherited Failure)
  - [ ] Test ebIMEO:execute-ATC.1.21 (View Details): Warning
  - [ ] Test ebIMEO:execute-ATC.1.22 (View Details): Passed
  - [ ] Test ebIMEO:execute-ATC.1.23 (View Details): Failed
  - [ ] Test ebIMEO:execute-ATC.1.24 (View Details): Passed

- [ ] Test ebIMEO:binding-test (View Details): Failed (Inherited Failure)
- [ ] Test ebIMEO:conformance-tests (View Details): Failed (Inherited Failure)
  - [ ] Test ebIMEO:execute-ATC.1.2 (View Details): Passed
  - [ ] Test ebIMEO:execute-ATC.1.3 (View Details): Passed
  - [ ] Test ebIMEO:execute-ATC.1.4 (View Details): Failed (Inherited Failure)
  - [ ] Test ebIMEO:execute-ATC.1.5 (View Details): Failed (Inherited Failure)
  - [ ] Test ebIMEO:execute-ATC.1.6 (View Details): Passed
  - [ ] Test ebIMEO:execute-ATC.1.7 (View Details): Passed
  - [ ] Test ebIMEO:execute-ATC.1.8 (View Details): Failed (Inherited Failure)
  - [ ] Test ebIMEO:execute-ATC.1.9 (View Details): Failed (Inherited Failure)
  - [ ] Test ebIMEO:execute-ATC.1.10 (View Details): Passed
  - [ ] Test ebIMEO:execute-ATC.1.11 (View Details): Failed (Inherited Failure)
  - [ ] Test ebIMEO:execute-ATC.1.12 (View Details): Warning
3.4 CIM EP ETS against HMA-demo (uncorrect data)


Data and parameters used: urn:ogc:def:EOP:ESA:ESA.EECF.ENVISAT_ASA_IM_0S-I

Result summary: The test was issued against a GI-cat instance configured to fail. In particular when queried through the core interface, this instance returns a fake record containing metadata fields not derived from an original ISO19139. The mapping performed for the other records is also modified, in order to fail the tests.

Results for session s007

Test Suite: CSW ebRM extension package for Core ISO Metadata (CIM) compliance test suite

<table>
<thead>
<tr>
<th>Test</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test rimconformance-test</td>
<td>Failed (Inherited Failure)</td>
</tr>
<tr>
<td>Test rimlevel1-conformance-tests</td>
<td>Failed (Inherited Failure)</td>
</tr>
<tr>
<td>Test rimexecute-ATC-1</td>
<td>Passed</td>
</tr>
<tr>
<td>Test rimexecute-ATC-2</td>
<td>Failed (Inherited Failure)</td>
</tr>
<tr>
<td>Test rimmapping core qmaeventables</td>
<td>Failed</td>
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<td>Test rimmapping core qmaeventables</td>
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<tr>
<td>Test rimmapping core qmaeventables</td>
<td>Failed</td>
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<tr>
<td>Test rimexecute-ATC-3</td>
<td>Failed (Inherited Failure)</td>
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<tr>
<td>Test rimmapping iso qmaeventables</td>
<td>Failed</td>
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<td>Test rimmapping iso qmaeventables</td>
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<tr>
<td>Test rimmapping iso qmaeventables</td>
<td>Failed</td>
</tr>
<tr>
<td>Test rimexecute-ATC-4</td>
<td>Failed (Inherited Failure)</td>
</tr>
</tbody>
</table>

Summary: Pass 0, Warning 0, Fail 0
3.5 EO EP ETS against fresh GI-cat server instance

Target: http://ade.pin.unifi.it/GI-cat/services/cswebrimeo?service=CSW&version=2.0.2&request=GetCapabilities

Data and parameters used: urn:ogc:def:EOP:ESA.EECF.ENVISAT_ASA_GMI_1S:EN1-07011402572466-244028.XG0:EOProduct

Result summary: All tests were completed successfully, except for some warning results in:

- ATC 1.4 This is because no EOP, ATM, PHR, VGT data were loaded in the catalog (only SAR and OPT).

- ATC 1.17 The association "HasMaskInformation" was not found in the catalog. This is correct, because no test data contains it.

- ATC 1.18 The object type "HasMaskInformation" was not found in the catalog. This is correct, because no test data contains it.

Results for session s0008

Test Suite: CSW eBIM extension package for Earth Observation Products compliance test suite

- Test ebrimo.confimance-test (View Details): Warning
- Test ebrimo.bindings-test (View Details): Warning
- Test ebrimo1.confimance-tests (View Details): Warning
  - Test ebrimo.executes-ATC_1.2 (View Details): Passed
  - Test ebrimo.executes-ATC_1.3 (View Details): Passed
- Test ebrimo.executes-ATC_1.4 (View Details): Warning
- Test ebrimo.executes-ATC_1.5 (View Details): Passed
- Test ebrimo.correspondence-table (View Details): Passed
- Test ebrimo.executes-ATC_1.6 (View Details): Passed
- Test ebrimo.executes-ATC_1.7 (View Details): Passed
- Test ebrimo.executes-ATC_1.8 (View Details): Passed
- Test ebrimo.executes-ATC_1.9 (View Details): Passed
- Test ebrimo.executes-ATC_1.10 (View Details): Passed
- Test ebrimo.executes-ATC_1.11 (View Details): Passed
- Test ebrimo.executes-ATC_1.12 (View Details): Passed
- Test ebrimo.executes-ATC_1.13 (View Details): Passed
- Test ebrimo.executes-ATC_1.14 (View Details): Passed
- Test ebrimo.executes-ATC_1.15 (View Details): Passed
- Test ebrimo.executes-ATC_1.16 (View Details): Passed
- Test ebrimo.executes-ATC_1.17 (View Details): Passed
- Test ebrimo.executes-ATC_1.18 (View Details): Passed
- Test ebrimo.executes-ATC_1.19 (View Details): Passed
- Test ebrimo.executes-ATC_1.20 (View Details): Passed
- Test ebrimo.executes-ATC_1.21 (View Details): Passed
- Test ebrimo.executes-ATC_1.22 (View Details): Passed
- Test ebrimo.executes-ATC_1.23 (View Details): Passed
- Test ebrimo.executes-ATC_1.24 (View Details): Passed
- Test ebrimo.bindings-test (View Details): Warning
  - Test ebrimo.executes-ATC_1.2 (View Details): Passed
  - Test ebrimo.executes-ATC_1.3 (View Details): Passed
  - Test ebrimo.executes-ATC_1.4 (View Details): Warning
  - Test ebrimo.executes-ATC_1.5 (View Details): Passed
  - Test ebrimo.correspondence-table (View Details): Passed
  - Test ebrimo.executes-ATC_1.6 (View Details): Passed
  - Test ebrimo.executes-ATC_1.7 (View Details): Passed
  - Test ebrimo.executes-ATC_1.8 (View Details): Passed
  - Test ebrimo.executes-ATC_1.9 (View Details): Passed
  - Test ebrimo.executes-ATC_1.10 (View Details): Passed
  - Test ebrimo.executes-ATC_1.11 (View Details): Passed
  - Test ebrimo.executes-ATC_1.12 (View Details): Passed
  - Test ebrimo.executes-ATC_1.13 (View Details): Passed
  - Test ebrimo.executes-ATC_1.14 (View Details): Passed
  - Test ebrimo.executes-ATC_1.15 (View Details): Passed
  - Test ebrimo.executes-ATC_1.16 (View Details): Passed
  - Test ebrimo.executes-ATC_1.17 (View Details): Passed
  - Test ebrimo.executes-ATC_1.18 (View Details): Passed
  - Test ebrimo.executes-ATC_1.19 (View Details): Passed
  - Test ebrimo.executes-ATC_1.20 (View Details): Passed
  - Test ebrimo.executes-ATC_1.21 (View Details): Passed
  - Test ebrimo.executes-ATC_1.22 (View Details): Passed
  - Test ebrimo.executes-ATC_1.23 (View Details): Passed
  - Test ebrimo.executes-ATC_1.24 (View Details): Passed
Summary

- Pass: 542
- Warning: 34
- Fail: 1
3.6 CIM EP ETS against fresh GI-cat server instance


Data and parameters used: urn:ogc:def:EOP:ESA:EECF.ENVISAT_ASA.IM__0S-I

Result summary: All tests were completed successfully.

Results for session s0009

Test Suite: CSW ebRIM extension package for Core ISO Metadata (CIM) compliance test suite

- Test rimp:conformance-test (View Details): Passed
- Test rimp:level1-conformance-tests (View Details): Passed
- Test rimp:execute-ATC.1 (View Details): Passed
- Test rimp:execute-ATC.2 (View Details): Passed
  - Test rimp:mapping-core-queryables (View Details): Passed
  - Test rimp:mapping-core-queryables (View Details): Passed
  - Test rimp:mapping-core-queryables (View Details): Passed
  - Test rimp:mapping-core-queryables (View Details): Passed
  - Test rimp:mapping-core-queryables (View Details): Passed
  - Test rimp:mapping-core-queryables (View Details): Passed
  - Test rimp:mapping-core-queryables (View Details): Passed
  - Test rimp:mapping-core-queryables (View Details): Passed
  - Test rimp:mapping-core-queryables (View Details): Passed
  - Test rimp:mapping-core-queryables (View Details): Passed
- Test rimp:execute-ATC.3 (View Details): Passed
  - Test rimp:mapping-iso-queryables (View Details): Passed
  - Test rimp:mapping-iso-queryables (View Details): Passed
  - Test rimp:mapping-iso-queryables (View Details): Passed
  - Test rimp:mapping-iso-queryables (View Details): Passed
  - Test rimp:mapping-iso-queryables (View Details): Passed
  - Test rimp:mapping-iso-queryables (View Details): Passed
  - Test rimp:mapping-iso-queryables (View Details): Passed
  - Test rimp:mapping-iso-queryables (View Details): Passed
- Test rimp:execute-ATC.4 (View Details): Passed
  - Test rimp:correspondences.table.F1F16 (View Details): Passed

Summary: Pass: 32, Warning: 0, Fail: 0
3.7 Bundle EO EP ETS against HMA-demo

**Target:** http://ec2-174-129-217-224.compute-1.amazonaws.com/gi-cat-6.1.1-HMA-demo-E0/services/cswebriemo?

**Data and parameters used:**

**CSW core test parameters:**


**CSW ebRIM test parameters:**

- Item ID: d1e63:RegistryPackage
- Bindings to be tested: HTTP
- CSW ebRIM targeted conformance level: CSW ebRIM Level 0
- Sampling method: Use the first instance
- IUT SOAP 1.2 URL endpoint:

**CSW ebRIM/E0 test parameters:**

- EOPROduct id: urn:ogc:def:EOP:ESA.EECF.ENVISAT_ASA_GMI_1S:EN1-0701140257246-244028.XG0:EOPROduct
- Bindings to be tested: HTTP
- CS-W ebRIM conformance level: Level 1: Read only
- Target EO EP conformance level: The core (EOP support)

**Result summary:** All tests were completed successfully, except for some warning results in:

- **ATC 1.4** This is because no EOP, ATM, PHR, VGT data were loaded in the catalog (only SAR and OPT).

- **ATC 1.17** The association "HasMaskInformation" was not found in the catalog. This is correct, because no test data contains it.

- **ATC 1.18** The object type "HasMaskInformation" was not found in the catalog. This is correct, because no test data contains it.
- WRS tests give warnings when running against the instance because they are not implemented.

Results for session s0100

Test Suite: IMAA EOP Conformance Test Suite

- TestIMIAA Bundle-EOP (View Details): Warning
- TestIMIAA Main-CSW (View Details): Passed
- TestIMIAA Main-WRS (View Details): Warning
- TestIMIAA Main-EOP (View Details): Warning
- Test ehrimeo-conformance-test (View Details): Warning
- Test ehrimeo-binding-test (View Details): Warning
- Test ehrimeo-al-conformance-tests (View Details): Warning
  - Test ehrimeo-execute-ATC.1.2 (View Details): Passed
  - Test ehrimeo-execute-ATC.1.3 (View Details): Passed
  - Test ehrimeo-execute-ATC.1.4 (View Details): Warning
  - Test wrs-test-object (View Details): Warning
    - Test wrs-test-object (View Details): Passed
    - Test wrs-test-object (View Details): Passed
    - Test wrs-test-object (View Details): Warning
    - Test wrs-test-object (View Details): Warning
  - Test ehrimeo-execute-ATC.1.5 (View Details): Passed
  - Test ehrimeo-execute-ATC.1.6 (View Details): Passed
  - Test ehrimeo-execute-ATC.1.7 (View Details): Passed
  - Test ehrimeo-execute-ATC.1.8 (View Details): Passed
  - Test ehrimeo-execute-ATC.1.9 (View Details): Passed
  - Test ehrimeo-execute-ATC.1.10 (View Details): Passed
  - Test ehrimeo-execute-ATC.1.11 (View Details): Passed
  - Test ehrimeo-execute-ATC.1.12 (View Details): Passed
  - Test ehrimeo-execute-ATC.1.13 (View Details): Passed
  - Test ehrimeo-execute-ATC.1.14 (View Details): Passed
  - Test ehrimeo-execute-ATC.1.15 (View Details): Passed
  - Test ehrimeo-execute-ATC.1.16 (View Details): Passed
  - Test ehrimeo-execute-ATC.1.17 (View Details): Warning
  - Test ehrimeo-execute-ATC.1.18 (View Details): Warning
  - Test ehrimeo-execute-ATC.1.19 (View Details): Passed
  - Test ehrimeo-execute-ATC.1.20 (View Details): Passed
  - Test ehrimeo-execute-ATC.1.21 (View Details): Passed
  - Test ehrimeo-execute-ATC.1.22 (View Details): Passed
  - Test ehrimeo-execute-ATC.1.23 (View Details): Passed
  - Test ehrimeo-execute-ATC.1.24 (View Details): Passed

Summary: Pass: 234, Warning: 32, Fail: 1
3.8 Bundle CIM EP ETS against HMA-demo


Data and parameters used:

CSW core test parameters:

CSW ebRIM test parameters:
- Item ID: d1e63:RegistryPackage
- Bindings to be tested: HTTP
- CSW ebRIM targeted conformance level: CSW ebRIM Level 0
- Sampling method: Use the first instance
- IUT SOAP 1.2 URL endpoint:

CSW ebRIM/CIM test parameters:
- Item id: urn:ogc:def:EOP:ESA:ESA.EECF.ENVISAT_ASA_IM__0S-I
- Subject: Atmosphere
- Title: ESA
- Abstract: troposhpere
- Format: FORMAT D1
- Identifier: urn:ogc:def:EOP:ESA:ESA.EECF.ENVISAT_ASA_IM__0S-I
- Modified: 2009-09-02
- Anytext: ozone
- Type: dataset
- Bounding box (south,west,north,east): -13 35 42 57
Result summary: All tests were completed successfully. WRS tests give warnings when running against the instance because they are not implemented.
Results for session s0101

Test Suite: IMAA CIM Conformance Test Suite

- Test imaa:Bundle-CIM (View Details): Warning
- Test imaa:Main-CSW (View Details): Passed
- Test imaa:Main-WRS (View Details): Warning
- Test imaa:Main-CIM (View Details): Passed
- Test rim-conformance-test (View Details): Passed
- Test rim:level1-conformance-tests (View Details): Passed
  - Test rim:execute-ATC.1 (View Details): Passed
  - Test rim:execute-ATC.2 (View Details): Passed
  - Test rim:execute-ATC.3 (View Details): Passed
  - Test rim:execute-ATC.4 (View Details): Passed

Summary: Pass: 132, Warning: 19, Fail: 0
Annex A. Additional test sessions

This annex reports sessions of the IMAA-CNR/PIN ETS’s executed against the following HMA-T partners’ service instances:

3. http://193.74.120.28/ionicwrs/wrs/WRS

The test sessions have been executed by the IMAA-CNR/PIN TEAM Engine, available at the following URL:

- http://zeus.pin.unifi.it/teamengine/

The following sections detail each test session, specifying:

- the components of the test environment exercised by the session
- the data and parameters used
- a summary of the outcome of the test procedures/scripts, with possible comments

For detailed information on the test sessions, including log files, see the attached archive HMAT-SVTS-0006-CNR - Test session log files.
A.1 CIM EP ETS against ERDAS Catalog

**Target:** http://projects-eu.ionicsoft.com/erdaswrs/wrs/SPB

**Data and parameters used:**
- id= urn:uuid:44fb427f-b1be-4db9-b69f-d291d26e7cd5
- Bindings=HTTP
- CS-WebRIM conformance level=Level 1: Read only

**Result summary:** as depicted in the picture below, all tests are passed with the exception of ATC.1 and ATC.4.
Results for session s0007

Test Suite: CSW ebRIM extension package for Core ISO Metadata (CIM) compliance test suite

- Test rimconformance-test (View Details): Failed (Inherited Failure)
- Test rimlevel1-conformance-tests (View Details): Failed (Inherited Failure)
  - Test rimexecute-ATC_1 (View Details): Failed
  - Test rimexecute-ATC_2 (View Details): Passed
  - Test rimexecute-ATC_3 (View Details): Passed
  - Test rimexecute-ATC_4 (View Details): Failed (Inherited Failure)
  - Test rimcorrespondences tableF1F16 (View Details): Failed

Summary: 32 Passed, 0 Warning, 0 Failed

A.2 EO EP ETS against Spot Image WS-Dali ebRIM proxy

Target: http://ws.spotimage.com/hmat_dalitest/i1.0/v4.1/hma?request=getCapabilities&service=WRS&version=2.0.2

Data and parameters used:

- Id=urn:ogc:def:EOP:SPOT:PANCHROMATIC_2.5m_A+B:C:sn:3027803:sat:Shift0:eop
- Bindings=HTTP,SOAP 1.1, SOAP 1.2
- CS-W ebRIM conformance level=Level 1: Read only
- Target EO EP conformance level=core (EOP support)

**Result summary:** It seems that support for AdhocQuery is not available, in particular the query to list extension packages; moreover several exceptions of type:

"(Dali.TooComplexQuery) The query is too complex"

were encountered, preventing the tests to successfully complete.
Results for session s0093

Test Suite: CSW ebRIM extension package for Earth Observation Products compliance test suite

- Test ebrimoc:conformance-test (View Details): Failed (Inherited Failure)
- Test ebrimoc:binding-test (View Details): Failed (Inherited Failure)
  - Test ebrimoc:conformance-tests (View Details): Failed (Inherited Failure)
    - Test ebrimoc:execute-ATC.1.2 (View Details): Failed
    - Test ebrimoc:execute-ATC.1.3 (View Details): Failed
  - Test ebrimoc:execute-ATC.1.4 (View Details): Warning
    - Test wrs:test-object (View Details): Warning
    - Test wrs:test-object (View Details): Warning
    - Test wrs:test-object (View Details): Warning
    - Test wrs:test-object (View Details): Warning
    - Test wrs:test-object (View Details): Warning
    - Test wrs:test-object (View Details): Warning
  - Test ebrimoc:correspondences-table (View Details): Failed (Inherited Failure)
  - Test ebrimoc:execute-ATC.1.6 (View Details): Failed
  - Test ebrimoc:execute-ATC.1.7 (View Details): Failed
  - Test ebrimoc:execute-ATC.1.8 (View Details): Warning
  - Test wrs:test-association (View Details): Warning
  - Test ebrimoc:execute-ATC.1.9 (View Details): Warning
  - Test wrs:test-object (View Details): Warning
  - Test ebrimoc:execute-ATC.1.10 (View Details): Failed (Inherited Failure)
  - Test ebrimoc:execute-ATC.1.11 (View Details): Failed
  - Test ebrimoc:execute-ATC.1.12 (View Details): Warning
  - Test wrs:test-object (View Details): Warning
  - Test ebrimoc:execute-ATC.1.13 (View Details): Failed (Inherited Failure)
  - Test ebrimoc:correspondences-table (View Details): Failed
  - Test ebrimoc:execute-ATC.1.14 (View Details): Warning
  - Test wrs:test-association (View Details): Warning
  - Test ebrimoc:execute-ATC.1.15 (View Details): Warning
  - Test wrs:test-object (View Details): Warning
  - Test ebrimoc:execute-ATC.1.16 (View Details): Failed (Inherited Failure)
  - Test ebrimoc:execute-ATC.1.17 (View Details): Warning
  - Test wrs:test-association (View Details): Warning
  - Test ebrimoc:execute-ATC.1.18 (View Details): Warning
  - Test wrs:test-object (View Details): Warning
  - Test ebrimoc:execute-ATC.1.19 (View Details): Failed (Inherited Failure)
  - Test ebrimoc:execute-ATC.1.20 (View Details): Warning
  - Test wrs:test-association (View Details): Warning
  - Test ebrimoc:execute-ATC.1.21 (View Details): Warning
  - Test wrs:test-object (View Details): Warning
  - Test ebrimoc:execute-ATC.1.22 (View Details): Failed (Inherited Failure)
  - Test ebrimoc:correspondences-table (View Details): Failed
  - Test ebrimoc:execute-ATC.1.23 (View Details): Failed
  - Test ebrimoc:execute-ATC.1.24 (View Details): Passed
  - Test ebrimoc:binding-test (View Details): Failed (Inherited Failure)
- Test ebrimoc:conformance-tests (View Details): Failed (Inherited Failure)
  - Test ebrimoc:execute-ATC.1.2 (View Details): Failed
  - Test ebrimoc:execute-ATC.1.3 (View Details): Failed
  - Test ebrimoc:execute-ATC.1.4 (View Details): Warning
    - Test wrs:test-object (View Details): Warning
    - Test wrs:test-object (View Details): Warning
    - Test wrs:test-object (View Details): Warning
    - Test wrs:test-object (View Details): Warning
    - Test wrs:test-object (View Details): Warning
    - Test wrs:test-object (View Details): Warning
  - Test ebrimoc:correspondences-table (View Details): Failed (Inherited Failure)
  - Test ebrimoc:execute-ATC.1.5 (View Details): Failed
  - Test ebrimoc:execute-ATC.1.6 (View Details): Failed
  - Test ebrimoc:execute-ATC.1.7 (View Details): Failed
  - Test ebrimoc:execute-ATC.1.8 (View Details): Warning
  - Test wrs:test-association (View Details): Warning
  - Test ebrimoc:execute-ATC.1.9 (View Details): Warning
  - Test wrs:test-object (View Details): Warning
  - Test ebrimoc:execute-ATC.1.10 (View Details): Failed (Inherited Failure)
  - Test ebrimoc:execute-ATC.1.11 (View Details): Failed
  - Test ebrimoc:execute-ATC.1.12 (View Details): Warning
  - Test wrs:test-object (View Details): Warning
  - Test ebrimoc:execute-ATC.1.13 (View Details): Failed (Inherited Failure)
  - Test ebrimoc:correspondences-table (View Details): Failed
  - Test ebrimoc:execute-ATC.1.14 (View Details): Warning
  - Test wrs:test-association (View Details): Warning
  - Test ebrimoc:execute-ATC.1.15 (View Details): Warning
  - Test wrs:test-object (View Details): Warning
  - Test ebrimoc:execute-ATC.1.16 (View Details): Failed (Inherited Failure)
  - Test ebrimoc:execute-ATC.1.17 (View Details): Warning
  - Test wrs:test-association (View Details): Warning
  - Test ebrimoc:execute-ATC.1.18 (View Details): Warning
  - Test wrs:test-object (View Details): Warning
  - Test ebrimoc:execute-ATC.1.19 (View Details): Failed (Inherited Failure)
  - Test ebrimoc:execute-ATC.1.20 (View Details): Warning
  - Test wrs:test-association (View Details): Warning
  - Test ebrimoc:execute-ATC.1.21 (View Details): Warning
  - Test wrs:test-object (View Details): Warning
  - Test ebrimoc:execute-ATC.1.22 (View Details): Failed (Inherited Failure)
  - Test ebrimoc:correspondences-table (View Details): Failed
  - Test ebrimoc:execute-ATC.1.23 (View Details): Failed
  - Test ebrimoc:execute-ATC.1.24 (View Details): Passed
  - Test ebrimoc:binding-test (View Details): Failed (Inherited Failure)
IMAA-CNR/PIN

**Summary**
- **Pass:** 3
- **Warning:** 81
- **Fail:** 20
A.3 EO EP ETS against GIM/VITO CSW

Target: [http://193.74.120.28/ionicwrs/wrs/WRS?request=getCapabilities](http://193.74.120.28/ionicwrs/wrs/WRS?request=getCapabilities)

Data and parameters used:

- **Id**
  - urn:ogc:def:EOP:VITO:VGT4AFRICA.PHENOKS:VGT4AFRICA_PHENOKS_20080621_Africa
- **Bindings**=HTTP, SOAP 1.1, SOAP 1.2
- **CS-W ebRIM conformance level**=Level 1: Read only
- **Target EO EP conformance level**=core (EOP support)

Result summary: Several error occurred:

- it seems that support for AdhocQuery is not available, in particular the query to list extension packages is failing with "Adhoc query 'urn:ogc:def:ebRIM-Query:OGC:listExtensionPackages' is not defined";
- capabilities url is not in the wrs namespace;
- some properties are not managed by the server:
  /rim:RegistryPackage/rim:RegistryObjectList[*]/rim:ExtrinsicObject/@id
Results for session s0092

Test Suite: CSW ebRIM extension package for Earth Observation Products compliance test suite

- Test ebrimo-execute-ATC.1.2 (View Details): Failed
- Test ebrimo-execute-ATC.1.3 (View Details): Failed
- Test ebrimo-execute-ATC.1.4 (View Details): Warning
  - Test wrs:test-object (View Details): Warning
- Test ebrimo-execute-ATC.1.5 (View Details): Failed
- Test ebrimo-execute-ATC.1.6 (View Details): Failed
- Test ebrimo-execute-ATC.1.7 (View Details): Passed
- Test ebrimo-execute-ATC.1.8 (View Details): Passed
- Test ebrimo-execute-ATC.1.9 (View Details): Passed
- Test ebrimo-execute-ATC.1.10 (View Details): Failed
- Test ebrimo-execute-ATC.1.11 (View Details): Passed
- Test ebrimo-execute-ATC.1.12 (View Details): Passed
- Test ebrimo-execute-ATC.1.13 (View Details): Failed
- Test ebrimo-execute-ATC.1.14 (View Details): Passed
- Test ebrimo-execute-ATC.1.15 (View Details): Passed
- Test ebrimo-execute-ATC.1.16 (View Details): Failed
- Test ebrimo-execute-ATC.1.17 (View Details): Passed
- Test ebrimo-execute-ATC.1.18 (View Details): Failed
- Test wrs:test-object (View Details): Failed
- Test wrs:test-object-slot (View Details): Failed
- Test wrs:test-object-role (View Details): Passed
- Test ebrimo-execute-ATC.1.19 (View Details): Failed
- Test ebrimo-execute-ATC.1.20 (View Details): Passed
- Test ebrimo-execute-ATC.1.21 (View Details): Passed
- Test ebrimo-execute-ATC.1.22 (View Details): Failed
- Test ebrimo-execute-ATC.1.23 (View Details): Failed
- Test ebrimo-execute-ATC.1.24 (View Details): Passed
- Test ebrimo-execute-ATC.1.25 (View Details): Failed
- Test ebrimo-execute-ATC.1.26 (View Details): Failed
- Test ebrimo-execute-ATC.1.27 (View Details): Failed
- Test ebrimo-execute-ATC.1.28 (View Details): Failed
- Test wrs:test-object (View Details): Warning
- Test wrs:test-object-slot (View Details): Failed
- Test wrs:test-object-role (View Details): Passed
- Test wrs:test-object (View Details): Passed
- Test wrs:test-object-slot (View Details): Failed
- Test wrs:test-object (View Details): Failed
- Test wrs:test-object (View Details): Passed
- Test wrs:test-object-slot (View Details): Passed
Summary

Pass: 81 | Warning: 18 | Fail: 1
A.4 EO EP ETS against ERDAS Catalog (1)


**Data and parameters used:**
- Id= none
- Bindings=HTTP,SOAP 1.1, SOAP 1.2
- CS-W ebRIM conformance level=Level 1: Read only
- Target EO EP conformance level=core (EOP support)

**Result summary**: A problem occurred. After issuing some queries it was clear that only CIM data are included in the specified catalog (no EO Products).

As a result it was not possible to proceed.

A.5 EO EP ETS against ERDAS Catalog (2)


**Data and parameters used:**
- Id= none
- Bindings=HTTP,SOAP 1.1, SOAP 1.2
- CS-W ebRIM conformance level=Level 1: Read only
- Target EO EP conformance level=core (EOP support)

**Result summary**: A problem occurred. The specified server was offline.

As a result it was not possible to proceed.
A.6 EO EP ETS against ESA HMA-E RSC Catalog

**Target**: http://hma3.eo.esa.int:8080/CatalogService-1.0-SNAPSHOT/wrs/WRS?request=GetCapabilities

**Data and parameters used**:

- Id= ESA.EECF.ENVISAT_ASA_GMI_1S:EN1-07010915363230-114496.XG0
  Bindings=HTTP,SOAP 1.1, SOAP 1.2

- CS-W ebRIM conformance level=Level 1: Read only

- Target EO EP conformance level=core (EOP support)

**Result summary**: Several error occurred:

- it seems that support for AdhocQuery is not available, in particular the query to list extension packages is failing with "Adhoc query 'urn:ogc:def:ebRIM-Query:OGC:listExtensionPackages' is not defined";

- capabilities url is not in the wrs namespace;

- no collection identifiers were found in the capabilities document

- some properties are not managed by the server:
  /rim:RegistryPackage/rim:RegistryObjectList[*]/rim:ExtrinsicObject/@id
Results for session s0098

Test Suite: CSW ebRIM extension package for Earth Observation Products compliance test suite

- Test ebrimo-conformance-test (View Details): Failed (Inherited Failure)
- Test ebrimo-binding-test (View Details): Failed (Inherited Failure)
- Test ebrimo-1-conformance-tests (View Details): Failed (Inherited Failure)
- Test ebrimo-execute-ATC.1.2 (View Details): Failed
- Test ebrimo-execute-ATC.1.3 (View Details): Failed
- Test ebrimo-execute-ATC.1.4 (View Details): Warning
  - Test wrs.test-object (View Details): Warning
  - Test wrs.test-object (View Details): Passed
  - Test wrs.test-object (View Details): Warning
  - Test wrs.test-object (View Details): Warning
  - Test wrs.test-object (View Details): Warning
  - Test wrs.test-object (View Details): Warning
- Test ebrimo-execute-ATC.1.5 (View Details): Failed (Inherited Failure)
- Test ebrimo-execute-ATC.1.6 (View Details): Failed
- Test ebrimo-execute-ATC.1.7 (View Details): Passed
- Test ebrimo-execute-ATC.1.8 (View Details): Passed
- Test ebrimo-execute-ATC.1.9 (View Details): Passed
- Test ebrimo-execute-ATC.1.10 (View Details): Failed (Inherited Failure)
- Test ebrimo-correspondences.table3 (View Details): Failed
- Test ebrimo-execute-ATC.1.11 (View Details): Passed
- Test ebrimo-execute-ATC.1.12 (View Details): Passed
- Test ebrimo-execute-ATC.1.13 (View Details): Failed (Inherited Failure)
- Test ebrimo-correspondences.table5 (View Details): Failed
- Test ebrimo-execute-ATC.1.14 (View Details): Passed
- Test ebrimo-execute-ATC.1.15 (View Details): Passed
- Test ebrimo-execute-ATC.1.16 (View Details): Failed (Inherited Failure)
- Test ebrimo-correspondences.table6 (View Details): Failed
- Test ebrimo-execute-ATC.1.17 (View Details): Passed
- Test ebrimo-execute-ATC.1.18 (View Details): Failed (Inherited Failure)
- Test wrs.test-object (View Details): Failed (Inherited Failure)
  - Test wrs.test-object (View Details): Passed
  - Test wrs.test-object (View Details): Passed
  - Test wrs.test-object (View Details): Failed
  - Test wrs.test-object.role (View Details): Passed
- Test ebrimo-execute-ATC.1.19 (View Details): Failed (Inherited Failure)
- Test ebrimo-execute-ATC.1.20 (View Details): Passed
- Test ebrimo-execute-ATC.1.21 (View Details): Passed
- Test ebrimo-execute-ATC.1.22 (View Details): Failed (Inherited Failure)
- Test ebrimo-correspondences.table7 (View Details): Failed
- Test ebrimo-execute-ATC.1.23 (View Details): Failed
- Test ebrimo-execute-ATC.1.24 (View Details): Failed
- Test ebrimo-binding-test (View Details): Failed (Inherited Failure)
- Test ebrimo-1-conformance-tests (View Details): Failed (Inherited Failure)
- Test ebrimo-execute-ATC.1.2 (View Details): Failed
- Test ebrimo-execute-ATC.1.3 (View Details): Failed
- Test ebrimo-execute-ATC.1.4 (View Details): Warning
  - Test wrs.test-object (View Details): Warning
  - Test wrs.test-object (View Details): Passed
  - Test wrs.test-object (View Details): Passed
  - Test wrs.test-object (View Details): Warning
  - Test wrs.test-object (View Details): Warning
- Test ebrimo-execute-ATC.1.5 (View Details): Failed (Inherited Failure)
- Test ebrimo-correspondences.table3 (View Details): Failed
- Test ebrimo-execute-ATC.1.6 (View Details): Failed
- Test ebrimo-execute-ATC.1.7 (View Details): Passed
- Test ebrimo-execute-ATC.1.8 (View Details): Passed
- Test ebrimo-execute-ATC.1.9 (View Details): Passed
- Test ebrimo-execute-ATC.1.10 (View Details): Passed
- Test ebrimo-correspondences.table4 (View Details): Failed
- Test ebrimo-execute-ATC.1.11 (View Details): Passed
- Test ebrimo-execute-ATC.1.12 (View Details): Passed
- Test ebrimo-execute-ATC.1.13 (View Details): Failed (Inherited Failure)
- Test ebrimo-correspondences.table5 (View Details): Failed
- Test ebrimo-execute-ATC.1.14 (View Details): Passed
- Test ebrimo-correspondences.table6 (View Details): Failed
- Test ebrimo-execute-ATC.1.15 (View Details): Passed
- Test ebrimo-execute-ATC.1.16 (View Details): Failed (Inherited Failure)
- Test ebrimo-correspondences.table7 (View Details): Failed
- Test ebrimo-execute-ATC.1.17 (View Details): Passed
- Test ebrimo-execute-ATC.1.18 (View Details): Failed (Inherited Failure)
- Test wrs.test-object (View Details): Failed (Inherited Failure)
  - Test wrs.test-object (View Details): Passed
  - Test wrs.test-object (View Details): Passed
  - Test wrs.test-object (View Details): Failed
  - Test wrs.test-object.role (View Details): Passed
- Test ebrimo-execute-ATC.1.19 (View Details): Failed (Inherited Failure)
- Test ebrimo-execute-ATC.1.20 (View Details): Passed
- Test ebrimo-execute-ATC.1.21 (View Details): Passed
- Test ebrimo-execute-ATC.1.22 (View Details): Failed (Inherited Failure)
- Test ebrimo-correspondences.table7 (View Details): Failed
- Test ebrimo-execute-ATC.1.23 (View Details): Failed
- Test ebrimo-execute-ATC.1.24 (View Details): Failed
- Test ebrimo-binding-test (View Details): Failed (Inherited Failure)
- Test ebrimo-1-conformance-tests (View Details): Failed (Inherited Failure)
- Test ebrimo-execute-ATC.1.2 (View Details): Failed
- Test ebrimo-execute-ATC.1.3 (View Details): Failed
- Test ebrimo-execute-ATC.1.4 (View Details): Warning
  - Test wrs.test-object (View Details): Warning
  - Test wrs.test-object (View Details): Passed
  - Test wrs.test-object (View Details): Passed
  - Test wrs.test-object (View Details): Warning
  - Test wrs.test-object (View Details): Warning
- Test ebrimo-execute-ATC.1.5 (View Details): Failed (Inherited Failure)
- Test ebrimo-correspondences.table3 (View Details): Failed
- Test ebrimo-execute-ATC.1.6 (View Details): Failed
- Test ebrimo-execute-ATC.1.7 (View Details): Passed
- Test ebrimo-execute-ATC.1.8 (View Details): Passed
- Test ebrimo-execute-ATC.1.9 (View Details): Passed
- Test ebrimo-execute-ATC.1.10 (View Details): Failed (Inherited Failure)
- Test ebrimo-correspondences.table4 (View Details): Failed
- Test ebrimo-execute-ATC.1.11 (View Details): Passed
- Test ebrimo-execute-ATC.1.12 (View Details): Passed
- Test ebrimo-execute-ATC.1.13 (View Details): Failed (Inherited Failure)
- Test ebrimo-correspondences.table5 (View Details): Failed
- Test ebrimo-execute-ATC.1.14 (View Details): Passed
- Test ebrimo-correspondences.table6 (View Details): Failed
- Test ebrimo-execute-ATC.1.15 (View Details): Passed
- Test ebrimo-execute-ATC.1.16 (View Details): Failed (Inherited Failure)
A.7  EO EP ETS against ESA Catalog

Target: http://infeo2.eo.esa.int:8070/test/Ebrim2EoliTester?Submit=GetCapabilities

Data and parameters used:

- Id= none
- CS-WebRIM conformance level= Level 1: Read only
- Target EO EP conformance level= core (EOP support)

Result summary: A problem occurred. Not a valid Capabilities document was obtained from the specified URL. Indeed the obtained document is an html encoded representation of an XML.

As a result it was not possible to proceed.