

Reality Sensing, Mining and Augmentation   
for Mobile Citizen–Government Dialogue

FP7-288815

**Test scenario’s &** **results**

**Serverside Mining Service (C9)**

**HAR Service**

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co-funded by the European Union

**1. Template instructions**

This template is used for documenting test scenarios and test results. ‘D4.4 – Technical verification and testing strategies’ describes per phase which tests need to be performed and which work package/partner is responsible for setting up and performing these tests.

Along with the software development the test scenarios are constructed based on the requirement as described in ‘D4.1 – System Architecture and Design’ and ‘D5.1 – Detailed Use Case Descriptions’.

These test scenarios are described and agreed upon before starting the actual tests. This means that all blue sections need to be pre-filled before starting the actual test. The red sections need to be completed during/after the test.

**2. Test configuration**

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| --- | --- |
| Software identification |  |
| Name | Server Side Mining Service – HAR Component |
| Versions | [List relevant Components/Service/System version numbers] |

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| --- | --- |
| Test period |  |
| Test phase | Service Level Testing |
| Test Types | Functional |
| Test Status | Test plan concept |
| Planned test start date | 01.06.2014 |
| Actual test start date | 23.6.2014 |
| Test completion date | 23.6.2014 |
| Partners(s) | UKOB |
| Tester(s) | Lukas Härtel |

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| Test environment |  |
| Test environment | Development |
| Test pc’s | Sony Vaio SVS1513C5E   * Mozilla Firefox 30.0 * Windows 8.1 Pro |

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| References |  |
| Reference | URL of the service end point: [**http://liveandgov.uni-koblenz.de/HAR/api**](http://liveandgov.uni-koblenz.de/HAR/api)  API Documentation can be found at: **http://liveandgov.uni-koblenz.de/HAR/doc**  Deliverable D1.2 contains technical documentation of the Sensor Mining Component. |

# 3. Test scenarios

## Approach

The HAR Service is a REST-wrapper around the HAR classifier deployed on the mobile device. We test the functionality of the wrapper. The performance of the HAR classifier, was evaluated in D1.2 and the test plan for the Mobile Sensor Mining Component (C13).

## Scenarios

The table below should describe the test scenarios executed by the testers to make sure the software meet its requirements and is ready for deployment.

General guidelines for describing scenario’s:

* Tests should be described is such a way that somebody with only minor project knowledge should be able to perform them, so be specific.
* Concentrate on real life scenarios. What are the users, and what should they be able to with the application.
* Try to make separate test scenarios for individual function points.
* While writing test cases keep in mind all your test cases should be simple and easy to understand. Don’t write explanations like essays. Be to the point.
* Keep in mind input data for test cases is very important part in testing, your test cases should validate range of input data. Also check how system behaves in the normal & abnormal conditions, e.g. purposely provide invalid input.
* Make sure test scenarios are added that cover all test types (Functional / User Acceptance / Security / Interoperability), however it is not required to make separate sections for each test type.
* Make sure the test scenarios covers all the required functionality. Assume that all functionality that is not covered by the test scenarios does not work.
* Avoid repetition of test cases

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| --- | --- | --- | --- | --- | --- |
| No. | Requirements | Expected behaviour | Results round 1 | Results round 2 | Results round 3 |
| 1 | The service should be able to receive uploaded sensor data and return the correct human activity. | We have preselected sensor samples for each activity. These files can be submitted to the API using a python script. The API shall return the correct classified samples. The request below should return an activity if `test.csv` is a valid file.  url -i --form "upfile=@test.csv" http://liveandgov.uni-koblenz.de/HAR/api | OK | OK | OK |
| 2 | The HAR Service should be able to handle invalid files. | The HAR Service should just return an error code if the file is not valid or a SSF file did not contain any activities. | NOK, | OK | NOK |
| 3 | The HAR Service should log every activity it recognizes. | As an activity gets recognized it should be logged into a persistent storage like a database. | OK | OK | OK |
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**4. Issues raised**

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| Issue No. | 1 |
| Scenario ID | 2 |
| Severity | Medium |
| Type | Bug |
| Summary | Syntactically wrong files are processed. |
| Description | The server takes files that contain syntax errors and processes them as if they are correct. The syntax errors are listed in issue screenshots 1 and 2. |
| Workaround | No workaround |
| Recommendations | Perform better wellformedness checks on the syntax. |

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| --- | --- |
| Issue No. | 2 |
| Scenario ID | 3 |
| Severity | Low |
| Type | Change Request |
| Summary | No inspection possibility. |
| Description | There is no method specified for testing the requested scenario. |
| Workaround | When exploring the Database tables, har\_service reacted to the uploaded test data. |
| Recommendations | Add a simple inspection plotting the entries of the har\_service table. |

**5. Issue screenshots**

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| Issue No. | 1 |
| 2 | lesscommas.PNG |

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| Issue No. | 1 |
| 2 | morevalues.PNG |

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| Issue No. | 2 |
| 3 | y3.PNG |