

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

FP7-288815

**Test scenario’s &** **results**

**Mobile Sensor Mining Component (C15)**

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# 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 scenario’s 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.

# Test configuration

|  |  |
| --- | --- |
| Software identification | |
| Name | Technical verification and testing strategy |
| Versions | Mobile Sensor Mining Component (C15) |

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| --- | --- |
| Test period | |
| Test phase | Service Level Testing |
| Test Types | Functional |
| Test Status | Test plan concept |
| Planned test start date | 10.2013 |
| Actual test start date | 11.2013 |
| Test completion date | 01.2013 |
| Partners(s) | UKOB |
| Tester(s) | Heinrich Hartmann, Christoph Schaefer |

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| --- | --- |
| Test environment | |
| Test environment | Development |
| Test devices | Mobile Devices:   * LG/Google Nexus 4 * HTC Evo 3D * Galaxy Tab 01 * Motorola Razr XT910 01 |
| Test pc’s | Ubuntu 12.04 Server. x64. Intel Core i5 CPU@2.4Ghz, 4Gb RAM, 100 GB HDD |

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| References | |
| Reference | Deliverable 1.2 will contain the full technical documentation of the Sensor Mining Component.  Software Repository: https://liveandgov.codespaces.com/svn/wp1/Mobile%20Mining%20Component |

# Test scenarios

The requirements in the table below we refer to the context mining requirements derived in D1.1.

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| --- | --- | --- | --- |
| No. | Requirements | Expected behaviour | [OK/  NOK] |
| 1 | RB.1-6. Recognition of Activities sitting, standing, walking, running, cycling, driving car | The corresponding activities shall be correctly classified by the component. We will use parts of our collected test data to verify the performance of our classifier. In particular we will produce a confusion matrix for each trained classifier and measure precision, recall and accuracy. | NOK |

# Issues raised

|  |  |
| --- | --- |
| Issue No. | RB-1 |
| Scenario ID | ? |
| Severity | High |
| Type | Change Request |
| Summary | Cross-platform integration of Component using Titanium not possible |
| Description | The development of the component was planned using the cross platform mobile toolkit “Titanium”. Our tests revealed that although it is possible (as described in D1.1) to record all necessary sensor values and have an component running in the background, it is not possible to use both features at once. I.e. once the component is running in the background the collection of sensor samples is no longer possible. |
| Workaround | Native Development of Mobile Applications |
| Recommendations | As described in our Cross Platform Strategy (outlined D1.1) we started developing this component natively for different mobile platforms. The first implementation, that is currently under active development is using the Android mobile platform. |

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| --- | --- |
| Issue No. | RB-2 |
| Severity | High |
| Type | Bug |
| Summary | Classifier not working |
| Description | The classifier is currently not delivering correct results. |
| Workaround | - |
| Recommendations | Wait until better version is finished. |