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| **CONFIDENTIAL** |
| **Incorrect Proximity Beacons Detection Tool**  Test Plan  **Revision: 1.0** |

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| **Document Code** |

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| REVISION: 1.0 - ISSUED FOR USE | |
|  |  |
| **PERMIT STAMP** | **ENGINEER’S STAMP** |
|  | |

A picture containing shape

Description automatically generated

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## Version Log

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| --- | --- | --- | --- | --- |
| Version | Date  (D/M/Y/ | Author | Checker | Update Description |
| 0.0 | 01/06/2021 | V. Pentiukhov |  | Initial document creation |
| 1.0 | 15/06/2021 | D. Churikov |  | Test content correction |

## Figures

## Tables

## Equations

## Acronyms

|  |  |
| --- | --- |
| Abbreviation | Definition |
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# Test Setup

A test object is Incorrect Proximity Beacon Detection tool which consist of a set of scripts and Applications.

There are four scripts which imitates of Incorrect beacon detection process according to the diagram provided in section2 of Incorrect Proximity Beacons Detection Tool Integration Guide document. These scripts were realized as bat-files for Windows. They are located in [\\cayyc-proj01\compute02\FPL\_DATA\test\_data\xBlpDetection\test\_scripts\](file:///\\cayyc-proj01\compute02\FPL_DATA\test_data\xBlpDetection\test_scripts\)

The tests below execute the scripts to validate every release of the tool.

# Test Procedures

### Test 1 Dat-files generation.

This test executes creating model data from positioning logs and creating dat-files from model data

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| **№** | **Action** | **Result** |
|  | Initial data: [\\cayyc-proj01\compute02\FPL\_DATA\test\_data\xBlpDetection\test\_data.src\Test1\input\](file:///\\cayyc-proj01\compute02\FPL_DATA\test_data\xBlpDetection\test_data.src\Test1\input\) |  |
|  | Reference results: test results of previous version |  |
|  | Test script: \\cayyc-proj01\compute02\FPL\_DATA\test\_data\xBlpDetection\test\_scripts\test1.bat |  |
| 1 | Run test scrip Check for errors and warnings in console log. | No errors and warnings occurred. |
| 2 | Assess test results: compare model-files and dat-files in output folder with reference results for bit-exactness. | All files are bit-exact to reference |
| 3 | If no bit-exactness was reached in previous step, then investigate for the reason. |  |

### Test 2 FpBuilder in xBlp mode

This test executes FpBuilder in xBLP mode.

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| **№** | **Action** | **Result** |
|  | Initial data: [\\cayyc-proj01\compute02\FPL\_DATA\test\_data\xBlpDetection\test\_data.src\Test2\input\](file:///\\cayyc-proj01\compute02\FPL_DATA\test_data\xBlpDetection\test_data.src\Test2\input\) |  |
|  | Reference results: test results of previous version |  |
|  | Test script: \\cayyc-proj01\\compute02\FPL\_DATA\test\_data\xBlpDetection\test\_scripts\test2.bat |  |
| 1 | Run test scrip Check for errors and warnings in console log. | No errors and warnings occurred. |
| 2 | Assess test results: compare ble3-fingerprints and grids in output folder with reference results for bit-exactness. | All files are bit-exact to reference |
| 3 | If no bit-exactness was reached in previous step, then investigate for the reason. |  |

### Test 3 Beacons assessment

This test executes Proximity Beacon Placement Error script running

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| **№** | **Action** | **Result** |
|  | Initial data: [\\cayyc-proj01\compute02\FPL\_DATA\test\_data\xBlpDetection\test\_data.src\Test3\input\](file:///\\cayyc-proj01\compute02\FPL_DATA\test_data\xBlpDetection\test_data.src\Test3\input\) |  |
|  | Reference results: test results of previous version |  |
|  | Test script1: \\cayyc-proj01\\compute02\FPL\_DATA\test\_data\xBlpDetection\test\_scripts\ test3.1\_ICA.bat  Test script2: \\cayyc-proj01\\compute02\FPL\_DATA\test\_data\xBlpDetection\test\_scripts\ test3.2\_TDK.bat |  |
| 1 | Run test scrip Check for errors and warnings in console log. | No errors and warnings occurred. |
| 2 | Assess test results: compare ignore\_list.json in output folder with reference results for bit-exactness. | All files are bit-exact to reference |
| 3 | If no bit-exactness was reached in previous step, then investigate for the reason. |  |
| 4 | Execute the test with both scripts |  |

### Test 4 Integral test.

This test imitates whole process of incorrect beacon detection.

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| **№** | **Action** | **Result** |
|  | Initial data: [\\cayyc-proj01\compute02\FPL\_DATA\test\_data\xBlpDetection\test\_data.src\Test4\input\](file:///\\cayyc-proj01\compute02\FPL_DATA\test_data\xBlpDetection\test_data.src\Test4\input\) |  |
|  | Reference results: test results of previous version |  |
|  | Test script: proj01\\compute02\FPL\_DATA\test\_data\xBlpDetection\test\_scripts\ test4\_Integration.bat |  |
| 1 | Run test scrip Check for errors and warnings in console log. | No errors and warnings occurred. |
| 2 | Assess test results: compare model-files, dat-files ble3-fingerprints, grids and ignore\_list.json in output folders with reference results for bit-exactness. | All files are bit-exact to reference |
| 3 | If no bit-exactness was reached in previous step, then investigate for the reason. |  |

# Appendices

## Appendix A