# FPBL test procedures

1. Single floor venue test, survey tool data. Magnetic + Wi-Fi + Proximity

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|  | **Description** |
| Action 1 | Run FPBL console.  Venue: Bridgestone-Kurume  magnetic\_enable: true  WiFi\_enable: true  BLE\_enable: false  ble\_proximity\_enable: true  venue\_json : "test\_data/FPBL\_release\_testing/Bridgestone-Kurume/FPBLIn/venue.json"  in\_ble\_fprox\_file: "test\_data/FPBL\_release\_testing/  Bridgestone-Kurume/FPBLIn/beacons\_db.csv"  input\_folder: "test\_data/FPBL\_release\_testing/Bridgestone-Kurume/SurveyDatasets/" |
| Action 2 | Run RTFPPL console with databases from Action 1. |
| Check 1 | Bit exactness with reference result for FP builder output. |
| Check 2 | Bit exactness with reference result for RTFPPL console output. |
| Check 3 | Check for NaN and infinity values. |
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1. Single floor venue test, everything disabled

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|  | **Description** |
| Action 1 | Run FPBL console for Bridgestone-Kurume venue.  Venue: Bridgestone-Kurume  magnetic\_enable: false  WiFi\_enable: false  BLE\_enable: false  ble\_proximity\_enable: false  venue\_json : "test\_data/FPBL\_release\_testing/Bridgestone-Kurume/FPBLIn\_All\_disabled/venue.json"  in\_ble\_fprox\_file: "test\_data/FPBL\_release\_testing/  Bridgestone-Kurume/FPBLIn\_All\_disabled/beacons\_db.csv"  input\_folder: "test\_data/FPBL\_release\_testing/Bridgestone-Kurume/SurveyDatasets/" |
| Check 1 | Bit exactness with reference result for FP builder output. |
| Check 2 | Check for NaN and infinity values. |
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1. Multi-floor test, survey tool data. Magnetic + Wi-Fi + BFP.

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|  | **Description** |
| Action 1 | Run FPBL console.  Venue: ISJ  magnetic\_enable: true  WiFi\_enable: true  BLE\_enable: true  ble\_proximity\_enable: false  venue\_json : " test\_data/FPBL\_release\_testing/ISJ/FPBLIn/venue.json "  input\_folder: " test\_data/FPBL\_release\_testing/ISJ/SurveyDatasets/" |
| Action 2 | Run RTFPPL console with databases from Action 1. |
| Check 1 | Bit exactness with reference result for FP builder output. |
| Check 2 | Bit exactness with reference result for RTFPPL console output. |
| Check 3 | Check for NaN and infinity values. |
| Check 4 | Portals checker. Checks that portal exist and that they are located in the correct cells. |

1. Multi-floor test, Mapper tool data. Magnetic + Wi-Fi + BFP.

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|  | **Description** |
| Action 1 | Run FPBL console.  Venue: ISJ  magnetic\_enable: true  WiFi\_enable: true  BLE\_enable: true  ble\_proximity\_enable: false  venue\_json : "test\_data/FPBL\_release\_testing/ISJ\_M1/venue.json"  input\_folder: "test\_data/FPBL\_release\_testing/ISJ\_M1/mapper\_data" |
| Action 2 | Run RTFPPL console with databases from Action 1. |
| Check 1 | Bit exactness with reference result for FP builder output. |
| Check 2 | Bit exactness with reference result for RTFPPL console output. |
| Check 3 | Check for NaN and infinity values. |
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1. No validators test

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|  | **Description** |
| Action 1 | Run FPBL console.  Venue: ISJ  magnetic\_enable: true  WiFi\_enable: true  BLE\_enable: true  ble\_proximity\_enable: false  venue\_json : "test\_data/FPBL\_release\_testing/ISJ/FPBLIn\_no\_validators/venue.json"  input\_folder: "test\_data/FPBL\_release\_testing/ISJ/SurveyDatasets/" |
| Action 2 | Run RTFPPL console with databases from Action 1. |
| Check 1 | Bit exactness with reference result for FP builder output. |
| Check 2 | Bit exactness with reference result for RTFPPL console output. |
| Check 3 | Check for NaN and infinity values. |
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1. Wi-Fi ignore list test

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|  | **Description** |
| Action 1 | Run FPBL console.  Venue: JEIS\_9th\_floor  magnetic\_enable: true  WiFi\_enable: true  BLE\_enable: false  ble\_proximity\_enable: false  venue\_json : "test\_data/FPBL\_release\_testing/JEIS\_9th\_floor/venue.json"  input\_folder: "test\_data/FPBL\_release\_testing/ JEIS\_9th\_floor /SurveyDatasetsPartial/"  ignore\_list\_json: "test\_data/FPBL\_release\_testing/JEIS\_9th\_floor/JEIS\_ignore\_list.json" |
| Check 1 | Bit exactness with reference result for FP builder output. |
| Check 2 | Check for NaN and infinity values. |
| Check 3 | Check that no AP from ignore list is present in WFP database. |
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1. Wi-Fi white list test

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|  | **Description** |
| Action 1 | Run FPBL console.  Venue: JEIS\_9th\_floor  magnetic\_enable: true  WiFi\_enable: true  BLE\_enable: false  ble\_proximity\_enable: false  venue\_json : "test\_data/FPBL\_release\_testing/JEIS\_9th\_floor/venue.json"  input\_folder: "test\_data/FPBL\_release\_testing/ JEIS\_9th\_floor /SurveyDatasetsPartial/"  ignore\_list\_json: "test\_data/FPBL\_release\_testing/JEIS\_9th\_floor/JEIS\_whitelist.json" |
| Check 1 | Bit exactness with reference result for FP builder output. |
| Check 2 | Check for NaN and infinity values. |
| Check 3 | Check that only APs from white list are present in WFP database. |
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1. Crowdsourced test

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|  | **Description** |
| Action 1 | Run FPBL console.  Venue: ICA\_CrowdSource  magnetic\_enable: true  WiFi\_enable: true  BLE\_enable: true  ble\_proximity\_enable: false  venue\_json : "test\_data/FPBL\_release\_testing/ICA\_ivl\_data\_300/venue.json"  input\_folder: "test\_data/FPBL\_release\_testing/ICA\_ivl\_data\_300/" |
| Check 1 | Bit exactness with reference result for FP builder output. |
| Check 2 | Check for NaN and infinity values. |
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1. Iterative build test

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|  | **Description** |
| Action 1 | Run FPBL console.  Venue: TDK\_HQ\_Nihonbashi  magnetic\_enable: true  WiFi\_enable: true  BLE\_enable: false  ble\_proximity\_enable: false  venue\_json : "test\_data/FPBL\_release\_testing/TDK\_HQ\_Nihonbashi/venue.json"  input\_list\_json: "test\_data/FPBL\_release\_testing/TDK\_HQ\_Nihonbashi/TDK\_HQ\_Input\_List\_withportals.json" |
| Action 2 | Run FPBL console.  Venue: TDK\_HQ\_Nihonbashi  magnetic\_enable: true  WiFi\_enable: true  BLE\_enable: false  ble\_proximity\_enable: false  venue\_json : "test\_data/FPBL\_release\_testing/TDK\_HQ\_Nihonbashi/venue.json"  input\_list\_json: "test\_data/FPBL\_release\_testing/TDK\_HQ\_Nihonbashi/TDK\_HQ\_Input\_List\_withportals\_part1.json" |
| Action 3 | Run FPBL console.  Venue: TDK\_HQ\_Nihonbashi  magnetic\_enable: true  WiFi\_enable: true  BLE\_enable: false  ble\_proximity\_enable: false  venue\_json : "test\_data/FPBL\_release\_testing/TDK\_HQ\_Nihonbashi/venue.json"  input\_list\_json: "test\_data/FPBL\_release\_testing/TDK\_HQ\_Nihonbashi/TDK\_HQ\_Input\_List\_withportals\_part2.json"  input\_grid\_folder: output folder from Action 2 |
| Check 1 | Bit exactness with reference result for FP builder output. |
| Check 2 | Iterative build checker. Compares results of Action 1 and Action 2, they should match except for order of lines in the grids. |
| Check 3 | Check for NaN and infinity values. |

1. FP performance test (KPI test)

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|  | **Description** |
| Action 1 | Run FPBL console.  Venue: Northland  magnetic\_enable: true  WiFi\_enable: true  BLE\_enable: false  ble\_proximity\_enable: false  venue\_json : "test\_data/FPBL\_release\_testing/Northland\_M1/fpl.json"  input\_folder: "test\_data/FPBL\_release\_testing/Northland\_M1/mapper\_routes" |
| Action 2 | Run KPI tool.  Venue: Northland  venue\_json : "test\_data/KPI\_sources.rel/Northland/venue.fp4/fpl.json"  fpl\_dbgjson: "test\_data/KPI\_sources.rel/Northland/venue.fp4/fpl.dbgjson"  input\_folder: "test\_data/KPI\_sources.rel/Northland/Input\_data\_4"  git\_hash\_for\_KPI: 3358939c6ebd26e81d7ad9e5f562ddc89742e3ec |
| Action 3 | Run FPBL console.  Venue: ISJ  magnetic\_enable: true  WiFi\_enable: true  BLE\_enable: true  ble\_proximity\_enable: false  venue\_json : "test\_data/FPBL\_release\_testing/ISJ/FPBLIn/venue.json"  input\_folder: "test\_data/FPBL\_release\_testing/ISJ/SurveyDatasets/" |
| Action 4 | Run KPI tool.  Venue: ISJ  venue\_json : "test\_data/KPI\_sources.rel/ISJ/venue.fp4/fpl.json"  fpl\_dbgjson: "test\_data/KPI\_sources.rel/ISJ/venue.fp4/fpl.dbgjson"  input\_folder: "test\_data/KPI\_sources.rel/ISJ/Collection2"  git\_hash\_for\_KPI: 3358939c6ebd26e81d7ad9e5f562ddc89742e3ec |
| Check 1 | Bit exactness with reference result for KPI output for Action 1 output. |
| Check 2 | Bit exactness with reference result for KPI output for Action 2 output. |

1. Linux test

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|  | **Description** |
| Action 1 | Run FPBL console.  Venue: TDK\_HQ\_Nihonbashi  magnetic\_enable: true  WiFi\_enable: true  BLE\_enable: false  ble\_proximity\_enable: true  venue\_json : "test\_data/FPBL\_release\_testing/TDK\_HQ\_Nihonbashi/venue.json"  input\_list\_json: "test\_data/FPBL\_release\_testing/TDK\_HQ\_Nihonbashi/TDK\_HQ\_input\_list\_march\_2021.json" |
| Check 1 | Bit exactness with reference result for FP builder output. |
| Check 2 | Check for NaN and infinity values. |