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# DOCUMENT INTRODUCTION

## Purpose

The purpose of this document is to present a summary of the verification results of CommLib (Android) for platform release 2.1.0 and to document the conclusion based on the verification results.

## Scope

This document applies to the software testing ofCommLib.

Goal of platform release 2.1.0 is to deliver the following features:

| **FeatureID** | **Feature title** |
| --- | --- |
| [5216](http://tfsemea1.ta.philips.com:8080/tfs/TPC_Region24/CDP2/_workitems?_a=edit&id=5216) | [cn4.2.2.2] Enable DataCore User pairing |

Software versions for platform release 2.1.0:

|  |  |
| --- | --- |
| CommLib | 5.0.0 |

## References

| **Reference** | **Identification** | **Title / additional remarks** |
| --- | --- | --- |
| N.A. |  |  |

## Terminology & Abbreviations

| **Terminology & Abbreviations** | **Description/Definition** |
| --- | --- |
| BLE | Bluetooth Low Energy |
|  |  |

# Deviations from the Verification Plan

N.A.

# Verification Results

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Manual Tests | | | | | |
| Test Case ID | Test Case Title | Test Case Run Status (Iteration) | Actual Results | Test Configuration Details (Configuration) | TFS Bug Details |
| 16785 | Discoverable peripheral is added to list of discovered peripherals | 1 (Passed) |  | Android |  |
| 16790 | Discoverable peripheral stays in list of discovered peripherals | 1 (Passed) |  | Android |  |
| 16933 | Scenario: FW006 Firmware Upgrade push times out | 1 (Passed) |  | Android |  |
| 16934 | Scenario: FW007 Firmware Upgrade deployment times out | 1 (Passed) |  | Android |  |
| 17177 | Scenario: FW008 Communication error during firmware upload | 1 (Passed) |  | Android |  |
| 14726 | Scenario: PA001 Pairing happy path | 1 (Passed) |  | Android |  |
| 14734 | Scenario Outline: PA002 Pairing already paired | 1 (Passed) |  | Android |  |
| 14734 | Scenario Outline: PA002 Pairing already paired | 2 (Passed) |  | Android |  |
| 14743 | Scenario Outline: PA003 Cannot pair via wrong connection | 1 (Passed) |  | Android |  |
| 14743 | Scenario Outline: PA003 Cannot pair via wrong connection | 2 (Passed) |  | Android |  |
| 14802 | Scenario: PA004 Cannot re-pair when there is no connection | 1 (Passed) |  | Android |  |
| 14803 | Scenario Outline: PA005 Unpair happy path | 1 (Passed) |  | Android |  |
| 14803 | Scenario Outline: PA005 Unpair happy path | 2 (Passed) |  | Android |  |
| 14805 | Scenario: PA006 Cannot unpair when there is no connection | 1 (Failed) | Unpair result reports that unpairing was successful | Android | [33140:New] |
| 14813 | Scenario: PA007 Cannot unpair when appliance is not paired and there is no connection | 1 (Failed) | Unpair request reports that unpairing was successful | Android | [33140:New] |
| 14822 | Scenario Outline: PA008 Unpair when appliance is not paired | 1 (Passed) |  | Android |  |
| 14822 | Scenario Outline: PA008 Unpair when appliance is not paired | 2 (Passed) |  | Android |  |
| 14867 | Scenario: FW001 Perform a firmware upgrade for a valid upgrade package | 1 (Passed) |  | Android |  |
| 14868 | Scenario: FW002 Cancel Firmware Upgrade push | 1 (Passed) |  | Android |  |
| 14869 | Scenario: FW003 Perform a firmware upgrade for an upgrade package with an invalid header version | 1 (Passed) |  | Android |  |
| 14870 | Scenario: FW004 Perform a firmware upgrade for an upgrade package with an invalid product | 1 (Passed) |  | Android |  |
| 14873 | Scenario: FW005 Perform a firmware upgrade for an upgrade package with an invalid signature | 1 (Passed) |  | Android |  |
| 16043 | Non-discoverable peripheral is removed from list of discovered peripherals, when discovery is active | 1 (Passed) |  | Android |  |
| 16044 | Lost peripheral is rediscovered | 1 (Passed) |  | Android |  |
| 16098 | Discoverable peripheral is removed from list of discovered peripherals, when discovery is stopped | 1 (Passed) |  | Android |  |
| 16629 | A peripheral which has been connected once is added to persistent storage | 0 (NotApplicable) |  | Android |  |
| 17187 | Get value from time port | 1 (Passed) |  | Android |  |
| 17188 | Get value from time port continuously, disconnect after request | 1 (Passed) |  | Android |  |
| 17189 | Get value from time port continuously, stay connected | 1 (Passed) |  | Android |  |
| 17191 | Get value from time port continuously, via subscription/notification interface | 1 (Passed) |  | Android |  |
| 17193 | Put value on time port | 1 (Passed) |  | Android |  |
| 17194 | Get value from time port continuously, communication error | 1 (Passed) |  | Android |  |
| 17383 | Discoverable peripheral with ModelId which matches ModelId filter is added to list of discovered peripherals | 1 (Passed) |  | Android |  |
| 17752 | Discoverable peripheral with ModelId which does not match ModelId filter is not added to list of discovered peripherals | 1 (Passed) |  | Android |  |
| 17847 | Scenario: FW009 Firmware Upgrade cancel times out | 1 (Passed) |  | Android |  |
| 18489 | Non-discoverable peripheral is removed from list of discovered peripherals, when peripheral is switched off | 0 (NotApplicable) |  | Android |  |
| 18492 | Non-discoverable peripheral is removed from list of discovered peripherals, when network is switched | 0 (NotApplicable) |  | Android |  |
| 18508 | Lost peripheral is rediscovered | 0 (NotApplicable) |  | Android |  |
| 18510 | Discoverable peripheral is added to list of discovered peripherals | 1 (Passed) |  | Android |  |
| 18511 | Discoverable peripheral stays in list of discovered peripherals | 1 (Passed) |  | Android |  |
| 31700 | CommLib upgrade from previous release | 1 (Passed) |  | Android |  |
| 32880 | Firmware Port canUpgrade property is provided | 1 (Passed) |  | Android |  |
| 23990 | User pairing | 1 (Passed) |  | Android |  |

|  |  |
| --- | --- |
| Automated Tests | |
| Test Id | Result |
| Put Properties |  |
| CommBle00001-put-properties-req-happy-path | Passed |
| CommBle00002-put-properties-req-productid-with-multiple-digits | Passed |
| CommBle00003-put-properties-req-empty-port-identifier | Passed |
| CommBle00004-put-properties-req-null-data | Passed |
| CommBle00004a-put-properties-req-empty-data | Passed |
| CommBle00005-put-properties-req-empty-port-identifier-and-empty-data | Passed |
| CommBle00006-put-properties-req-nested-port-identifier | Passed |
| CommBle00007-put-properties-req-valid-json-types | Passed |
| CommBle00008-put-properties-req-valid-json-constructs | Passed |
| CommBle00009-put-properties-resp-happy-path-non-empty-json | Passed |
| CommBle00010-put-properties-resp-happy-path-empty-json | Passed |
| CommBle00011-put-properties-resp-not-allowed-empty-data | Passed |
| CommBle00012-put-properties-resp-error-no-such-port-and-not-allowed-empty-data | Passed |
| CommBle00012-put-properties-resp-error-no-such-property-and-json-object | Passed |
| CommBle00013-put-properties-resp-error-unknown-and-json-object | Passed |
| CommBle00014-put-properties-resp-error-out-of-memory-with-empty-json-object | Passed |
| CommBle00015-put-properties-resp-error-out-of-memory-with-non-json-but-still-ascii-data | Passed |
| CommBle00016-put-properties-resp-error-out-of-memory-with-non-json-and-non-ascii-data | Passed |
| CommBle00017-put-properties-resp-multiple-packets-7-chunks | Passed |
| CommBle00018-put-properties-resp-multiple-packets-3-chunks | Passed |
| CommBle00019-put-properties-resp-multiple-packets-2-chunks | Passed |
| CommBle00020-put-properties-resp-non-null-terminated-packet | Passed |
| CommBle00021-put-properties-resp-too-short-odd | Passed |
| CommBle00022-put-properties-resp-too-short-even | Passed |
| CommBle00023-put-properties-resp-excess-data-odd | Passed |
| CommBle00024-put-properties-resp-excess-data-even | Passed |
| CommBle00025-put-properties-req-max-size | Passed |
| CommBle00026-put-properties-req-max-size-plus-one | Passed |
| CommBle00027-put-properties-resp-max-size-payload | Passed |
| CommBle00028-put-properties-resp-max-size-payload-plus-1 | Passed |
| Get Properties |  |
| CommBle00101-get-properties-req-happy-path-connection-node | Passed |
| CommBle00102-get-properties-req-happy-path-non-connection-node | Passed |
| CommBle00103-get-properties-req-productid-with-multiple-digits | Passed |
| CommBle00104-get-properties-req-empty-port-identifier | Passed |
| CommBle00105-get-properties-req-nested-port-identifier | Passed |
| CommBle00106-get-properties-resp-happy-path-non-empty-data | Passed |
| CommBle00107-get-properties-resp-happy-path-empty-data | Passed |
| CommBle00108-get-properties-resp-leading-garbage-even | Passed |
| CommBle00109-get-properties-resp-leading-garbage-odd | Passed |
| CommBle00110-get-properties-resp-non-null-terminated-packet | Passed |
| CommBle00111-get-properties-resp-too-short-odd | Passed |
| CommBle00112-get-properties-resp-too-short-even | Passed |
| CommBle00113-get-properties-resp-excess-data-odd | Passed |
| CommBle00114-get-properties-resp-excess-data-even | Passed |
| CommBle00115-get-properties-resp-multiple-packets-2-chunks | Passed |
| CommBle00116-get-properties-resp-multiple-packets-3-chunks | Passed |
| CommBle00117-get-properties-resp-multiple-packets-5-chunks | Passed |
| CommBle00118-get-properties-resp-server-error-no-such-port-and-empty-data | Passed |
| CommBle00119-get-properties-resp-server-error-invalid-parameter-and-non-empty-data | Passed |
| CommBle00120-get-properties-resp-server-error-unknown-and-non-empty-data | Passed |
| CommBle00121-get-properties-resp-server-error-out-of-memory-with-only-json-data | Passed |
| CommBle00122-get-properties-resp-server-error-out-of-memory-with-empty-json-object | Passed |
| CommBle00123-get-properties-resp-max-size-payload | Passed |
| CommBle00124-get-properties-resp-max-size-payload-plus-1 | Passed |
| CommBle00125-get-properties-resp-valid-json-parsing | Passed |
| CommBle00126-get-properties-resp-valid-json-parsing-nested-objects | Passed |
| CommBle00127-get-properties-resp-no-json | Passed |
| CommBle00128-get-properties-resp-invalid-json | Passed |
| CommBle00129-get-properties-req-same-port-on-different-productids-is-allowed | Passed |
| Connection strategy queueing |  |
| CommBle00201-strategy-queue-depth1-happy-flow-1 | Passed |
| CommBle00202-strategy-queue-depth1-happy-flow-2 | Passed |
| CommBle00203-strategy-queue-depth1-timeout-of-first-req | Passed |
| CommBle00204-strategy-queue-depth1-unavailability | Passed |
| CommBle00205-strategy-queue-depth2-same-port | Passed |
| CommBle00206-strategy-queue-depth20-unique-ports | Passed |
| CommBle00207-strategy-queue-mixed-operations | Passed |
| Connection strategy availablility |  |
| Strategy is not available | Passed |
| Strategy is available | Passed |
| Strategy is available when device is found later | Passed |
| Strategy is not available, different device id | Passed |
| BLE Discovery |  |
| CommBle00301 CommLib starts discovery | Passed |
| CommBle00303 CommLib stops discovery | Passed |
| CommBle00304 CommLib stops discovery when not started, silent ignore | Passed |
| CommBle00305 CommLib discovers a supported appliance | Passed |
| CommBle00306 CommLib discovers multiple supported appliances of different type | Passed |
| CommBle00307 CommLib discovers multiple supported appliances of same type | Passed |
| CommBle00308 CommLib discovers only supported appliances | Passed |
| CommBle00309 CommLib discovers no supported appliances | Passed |
| CommBle00310 CommLib discovers appliance once | Passed |
| CommBle00311 CommLib discovers supported appliance after discovery was stopped | Passed |
| CommBle00312 CommLib discovers a supported appliance with a specific model id | Passed |
| CommBle00313 CommLib does not discover supported appliance with a specific model id | Passed |
| CommBle00314 CommLib discovers multiple supported appliances with a specific model id | Passed |
| CommBle00315 CommLib loses an appliance which was discovered, while discovery is active | Passed |
| CommBle00316 CommLib loses an appliance which was discovered, while discovery is inactive | Passed |
| CommBle00317 CommLib loses an appliance and rediscovers it | Passed |
| CommBle00318 CommLib loses multiple appliances that were discovered | Passed |

# Defects

| **DefectID** | **Title** | **Defect Severity** |
| --- | --- | --- |
| [33140](http://tfsemea1.ta.philips.com:8080/tfs/TPC_Region24/CDP2/TEAM%20ConArtist/_workitems?id=33140&triage=true&fullScreen=true&_a=edit) | [Android] TC14805: Unpair request while WIFI is switched off, results in “Unpaired successful” message | Minor |

# Conclusion

The software verification results demonstrate that CommLib (Android) can be released for utilization at system level.

The defect(s) listed in chapter 4 do not impact the safety and/or effectiveness of CommLib (Android).

# Revision History

| **Version** | **Date** | **Author** | **Description of Change** | **Reason for Change** |
| --- | --- | --- | --- | --- |
| 0.1 | 2017-May-01 | Gerard Arts | Initial revision |  |
| 1.0 | 2017-May-03 | Gerard Arts | Approver field updated | Ready for Review |
| 1.1 | 2017-May-05 | Gerard Arts | Review remarks implemented | Review remarks implemented |

# Approval

| **Name** | **Role / Function** | **Date** (YYYY-MON-DD) | **Signature** |
| --- | --- | --- | --- |
| Matthijs Piek | Product owner |  |  |
|  |  |  |  |