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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 2.2.0 and to document the conclusion based on the verification results.

## Scope

This document applies to the software testing ofCommLib.

Goal of platform release 2.2.0 is to deliver the following features:

| **FeatureID** | **Feature title** |
| --- | --- |
| [3068](http://tfsemea1.ta.philips.com:8080/tfs/TPC_Region24/CDP2/_workitems?id=3068&_a=edit) | [CN4.2.7] Certificate key pinning |
| [31796](http://tfsemea1.ta.philips.com:8080/tfs/TPC_Region24/CDP2/_workitems?id=31796&_a=edit) | [CN.4.2.7] Product quality HTTPS, accepting all certificates |
| [34449](http://tfsemea1.ta.philips.com:8080/tfs/TPC_Region24/CDP2/_workitems?id=34449&_a=edit) | Filter peripherals in Android stack |
| [36179](http://tfsemea1.ta.philips.com:8080/tfs/TPC_Region24/CDP2/_workitems?id=36179&_a=edit) | [17.3] Documentation infrastructure feature |

Software versions for platform release 2.2.0:

|  |  |
| --- | --- |
| CommLib | 7.0.0 |

Test Cases have been executed using software version: commit cf40a8f on develop branch of android-commlib-workspace Git repository. CommLib 7.0.0 is derived from commit cf40a8f on develop branch, there are no functional differences between CommLib 7.0.0 and commit cf40a8f on develop branch.

## References

| **Reference** | **Identification** | **Title / additional remarks** |
| --- | --- | --- |
| Test Record | CML000005 | Test Record CommLib Android |

## Terminology & Abbreviations

| **Terminology & Abbreviations** | **Description/Definition** |
| --- | --- |
| BLE | Bluetooth Low Energy |
| HTTPS | Hypertext Transfer Protocol Secure |

# Deviations from the Verification Plan

N.A.

# Verification Results

Verification Results of manual test scenarios (defined and executed in TFS) are available in Test Record CommLib Android [Test Record]

Verification Results of automated test scenarios (defined in Git and executed in Jenkins) are available in the table below:

|  |  |
| --- | --- |
| 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

After analyzing the results of the automated test cases and the manual test cases (in section 3). The conclusion is that there where no unexpected results. Therefore 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 |
| 2.0 | 2017-May-10 | Gerard Arts | Version changed | For approval |
| 2.1 | 2017-Jul-19 | Gerard Arts | Updates for Platform Release 2.2.0 | Ready for review |
| 3.0 | 2017-Jul-20 | Gerard Arts | Rework implemented | Release 2.2.0 / PI17.3 |

# Approval

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