Open Issues and/or Actions

No open issues

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| **Open Issue** | **Issue description** |
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# Document Introduction

## Purpose

This document describes the requirements.

## Scope

This document describes the requirements for work completed in PI 17.2 for components as marked in below diagram with CommLib.



Figure 1: Bundling of documents for BlueLib and CommLib

## References

| **Reference** | **Identification** | **Title / additional remarks** |
| --- | --- | --- |
| DICOMM | JohSun-20160115-04V01 | Software Interface Specification  DiComm |
|  |  |  |
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## Terminology & Abbreviations

| **Terminology & Abbreviations** | **Description/Definition** |
| --- | --- |
| Appliance | A device which includes a DI Comm connectivity node and allows communication over a supported channel. |
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# Overview

The components in scope together provide a technical component for connecting with connectivity nodes which implement the DI Comm protocol (see [DICOMM]).

# Requirements

## CommLib

### General Requirements

### Interface Requirements

#### Technical Interfaces

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| --- | --- |
| **Passthrough of pairing parameters from CommLib to peripheral** | ID: 26124, POF: -, Safety: -, Security: -  State: Approved, 2017-May-10 13:08 |
| Description:   A pairing call must be available on CommLib containing the same parameters as specified on the dicomm pairing port. | |
| Acceptance Criteria:   A pairing call for user pairing is available on CommLib | |

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| **Firmware Port provide a canUpgrade property** | ID: 32852, POF: -, Safety: -, Security: -  State: Approved, 2017-May-10 13:09 |
| Description:   * The Firmware Port shall expose a 'canUpgrade' property, indicating if the device can do Firmware upgrade or not. This must reflect the state of the same property in the  connectivity node's firmware port. * It's up to the app developers to read this property when attempting a firmware upgrade | |
| Acceptance Criteria:   1. The app developer can access a firmware port property to check if the device can do firmware upgrade or not 2. The value of this property is the same as the value of the canUpgrade property on the connectivity node's REST or BLE interface. 3. Release notes is updated | |

### Function/Feature Requirements

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| **Up to date list of discovered BLE peripherals** | ID: 15920, POF: -, Safety: -, Security: -  State: Approved, 2017-May-10 13:09 |
| Description:   If enabled to do so, the mobile connectivity components must update the list of discovered BLE peripherals.  A discoverable peripheral must be added to the list within at most 120 seconds.  A discoverable peripheral that is already in the list, must stay in the list.  A non-discoverable peripheral must be removed from the list within at most 120 seconds. | |
| Acceptance Criteria:   All tests in tab "links" must pass | |

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| **Filter NetworkNodes based on a filter of ModelId's** | ID: 17381, POF: -, Safety: -, Security: -  State: Approved, 2017-May-10 13:10 |
| Description:  For the purpose of discovering connected products, the mobile components must provide the ability to filter on specified ModelIds.  Providing an unfiltered list must also be possible. | |
| Acceptance Criteria: | |

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| **Firmware Upgrade deployment timeout must be configurable** | ID: 17821, POF: -, Safety: -, Security: -  State: Approved, 2017-May-10 13:10 |
| Description:   The mobile connectivity components must accommodate its clients to set the value of the deployment timeout.  In case of the timeout running out,  the mobile connectivity components must send  a 'deployment failed with timeout' error to its clients. Otherwise, the mobile connectivity components must send  a 'deployment successful' message to its clients.  Note: deployment timeout here means the maximum time is allowed for the peripheral to go from running the old version to running the new version of the firmware.  Note: The mobile connectivity components have no way of knowing if the actual deployment succeeded if the timeout occurs because the device is out of range. | |
| Acceptance Criteria:   If a timeout is set shorter than a successful deployment then a 'deployment failed with timeout' error must be sent.  If a timeout is set longer than a successful deployment then  a 'deployment successful' message must be sent. | |

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| **Firmware Upgrade push timeout must be configurable** | ID: 17830, POF: -, Safety: -, Security: -  State: Approved, 2017-May-10 13:11 |
| Description:   The mobile connectivity components must accommodate its clients to set the value of the push timeout.  In case of the timeout running out,  the mobile connectivity components must send  a 'push failed with timeout' error to its clients.  Note: Push timeout here means the maximum time is allowed for the peripheral to go from one firmware upload related state to the next. See the state diagram in JohSun-20160115-04V01 Software Interface Specification DiComm. | |
| Acceptance Criteria:   If a timeout is set shorter than a successful internal state transition then a 'push failed with timeout' error must be sent.  If a timeout is set longer than a successful deployment then no error must be sent. | |

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| **Firmware Upgrade cancel timeout must be configurable** | ID: 17833, POF: -, Safety: -, Security: -  State: Approved, 2017-May-10 13:11 |
| Description:   The mobile connectivity components must accommodate its clients to set the value of the cancel timeout.  In case of the timeout running out,  the mobile connectivity components must send  a 'cancel failed with timeout' error to its clients.  Note: Cancel timeout here means the maximum time is allowed for the peripheral to go from one firmware upload related state to the 'cancel' state. See the state diagram in JohSun-20160115-04V01 Software Interface Specification DiComm. | |
| Acceptance Criteria:   If a timeout is set shorter than a successful internal state transition to the 'cancel' state then a 'cancel failed with timeout' error must be sent.  If a timeout is set longer than a successful deployment then a 'cancel successful' message must be sent. | |

# Revision History

| **Version** | **Date** | **Author** | **Description of Change** | **Reason for Change** |
| --- | --- | --- | --- | --- |
| 0.1 | 2017-05-10 | Matthijs Piek | Initial version |  |
| 1.0 | 2017-05-12 | Matthijs Piek | Version changed | Review yielded no remarks, so version put to 1.0 for approval\* |
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\* Approval of 1.0 document will be given after approval date for Verification Reports and Test Protocol. This was possible because individual requirements have been approved earlier.

# Approval

| **Name** | **Role / Function** | **Date** (YYYY-MON-DD) | **Signature** |
| --- | --- | --- | --- |
| Ernest Angles Isern | Chapter Architect |  |  |
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# <Appendices>

Not applicable: no appendices.