Open Issues and/or Actions

No open issues.

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# DOCUMENT INTRODUCTION

## Purpose

This document describes the test cases (test scenarios) to be used for the verification of Easy Wi-Fi Setup (EWS), demonstrating it meets the requirements, see ref. [SwRS]

## CDP2 Overall Connectivity architecture

Below picture shows the overall connectivity architecture and components. The components inside the blue box are described in this document.



## Scope

This document applies to EWS (Android and iOS), to be used in connected digital propositions.

## References

| **Reference** | **Identification** | **Title / additional remarks** |
| --- | --- | --- |
| SwRS | EWS000001 | Requirement Specification Easy Wi-Fi Setup |

## Terminology & Abbreviations

| **Terminology & Abbreviations** | **Description/Definition** |
| --- | --- |
| EWS | Easy Wi-Fi Setup |
| Gherkin | Gherkin is a Business Readable, Domain Specific Language that lets you describe software’s behavior without detailing how that behavior is implemented. It is used to specify test scenarios that can be interpreted by tools like: cucumber and SpecFlow. Reference: The Cucumber Book (ISBN 978-1-93435-680-7) |
| TC | Test Case |

# Test Method

The test scenarios are written in the [Gherkin] design specification language. The [Gherkin] design specification language provides human-readable scenarios and steps (Given, When, Then) that could be executed either manually or automatically. The test scenarios shall verify that the requirements are met and shall be understandable by non-technical business owners.

A test scenario is part of a [Gherkin] feature file.  
A feature file contains one or more scenarios.

A requirement Id specified in the requirements document [SwRS] is tested on its key elements by one or more scenarios.

A test scenario can be linked to multiple requirements.

# Sampling Method

Not applicable. For the software tests no sampling method is applied.

# Test Set-up

The test scenarios require:

* Android (Lollipop, Marshmallow, Nougat and Oreo) and iOS (iOS9, 10 and 11) phones
* One Android and one iOS phone with 3G or 4G access
* EWSDemoApp
* Wi-Fi Reference Node or a Philips device with Wi-Fi Reference Node incorporated (e.g. Wake Up Light)
* Product Stub running on a Windows machine
* Serial communication program for Windows (e.g. Tera Term VT, or Putty)
* Two secure Wi-Fi networks with internet access
* One unsecure (open) Wi-Fi network (e.g. WLAN-PUB)

# Test Conditions

Not applicable. The test conditions are fully contained inside the [Gherkin] test scenarios themselves.

# Test Cases

|  |  |  |
| --- | --- | --- |
| Test Case ID | Test Case Title | Test Case Summary |
| 71328 | The user connects the device using EWS | In this scenario the correct flow with out any problem is tested from beginning to end.    Background: Given Device information is logged And EWSDemoApp is installed and started And WiFi is enabled in phone settings And phone is connected to Home WiFi Scenario: The user connects the device using EWS Given user navigates to screen EWS\_03\_01a When the user fills in the correct WiFi password Then screen EWS\_04\_01 Connection successful is shown |
| 71329 | The Users phone is not connected to WiFi | When the phone is not connected to WiFi (internet) it is not possible to start the flow of the EWS   Background: Given Device information is logged And EWSDemoApp is installed and started And WiFi is enabled in phone settings And phone is connected to Home WiFi Scenario: The users phone is not connected to WiFi Given the phone has no network connections When the user tries to navigate to EWS\_01\_01 Then screen EWS\_01\_01a or EWS\_01\_01b select home WiFi is shown |
| 71331 | The users phone is not connected to the network onto which they want to setup the device | The users phone is not connected to the network onto which they want to setup the device  Background: Given Device information is logged And EWSDemoApp is installed and started And WiFi is enabled in phone settings And phone is connected to Home WiFi Scenario: The users phone is not connected to the network onto which they want to setup the device Given the user navigates to screen EWS\_01\_01 When the user selects No in screen EWS\_01\_01 Then screen EWS\_01\_01a or EWS\_01\_01b select home WiFi is shown |
| 71332 | The user gets a trouble shoot page to help connect the device | The user gets help when not able to set device in setup mode.   Background: Given Device information is logged And EWSDemoApp is installed and started And WiFi is enabled in phone settings And phone is connected to Home WiFi Scenario: The user gets a trouble shoot page to help connect the device Given the user navigates to screen EWS\_02\_02 When the user selects Not Blinking in screen EWS\_02\_02 And the user selects No in screen EWS\_H\_03\_02 Then screen EWS\_H\_03\_01 connect to wrong phone is shown And the user selects No in screen EWS\_H\_03\_01 And the user selects Yes in screen EWS\_H\_03\_02 And screen EWS\_H\_03\_03 reset device is shown And the user selects Done in screen EWS\_H\_03\_03 And screen EWS\_02\_02 is shown |
| 71335 | The user gets a trouble shoot page to help connect access point | The user gets help when not able to set device in setup mode    Background: Given Device information is logged And EWSDemoApp is installed and started And WiFi is enabled in phone settings And phone is connected to Home WiFi Scenario: The user gets a trouble shoot page to help connect access point Given the user navigates to screen EWS\_02\_02 When the user selects Not Blinking in screen EWS\_02\_02 And the user selects No in screen EWS\_H\_03\_02 And screen EWS\_H\_03\_01 connect to wrong phone is shown And the user selects Yes in screen EWS\_H\_03\_01 Then screen EWS\_H\_03\_04 setup access point mode is shown And the user selects Done in screen EWS\_H\_03\_04 And screen EWS\_02\_02 is shown |
| 71342 | The users phone can not connect to Philips Setup | The user is having problems connecting to the Philips Setup  Background: Given Device information is logged And EWSDemoApp is installed and started And WiFi is enabled in phone settings And phone is connected to Home WiFi Scenario: The users phone can not connect to Philips Setup Given the user navigates to screen EWS\_02\_03 and resets WiFi Reference Node When user selects Next in screen EWS\_H\_02\_03 Then screen EWS\_03\_00a is shown |
| 71357 | The user enters an incorrect WiFi password | The user enters the incorrect WiFi password  Background: Given Device information is logged And EWSDemoApp is installed and started And WiFi is enabled in phone settings And phone is connected to Home WiFi Scenario: The user enters an incorrect WiFi password Given user navigates to screen EWS\_03\_01a When user enters incorrect password Then connection error wrong password is shown And user selects try again button in screen EWS\_04\_00b And user continues EWS flow from screen EWS\_01\_01 |
| 71362 | The users phone connects to incorrect WiFi network | When the user is connected to the incorrect network an connection error is shown    Background: Given Device information is logged And EWSDemoApp is installed and started And WiFi is enabled in phone settings And phone is connected to Home WiFi Scenario: The users phone connects to incorrect WiFi network Given user navigates to screen EWS\_04\_00 When phone is connected to different network Then screen EWS\_04\_00a is shown |
| 72609 | CommLib accepts first mismatched pin it encounters during setup mode | Given User has performed a successful EWS sequence for a device And User performs EWS sequence up to screen EWS\_02\_02\_setup-steps02 When device certificate is regenerated  And User starts EWS on device And User successfully ends EWS sequence from screen EWS\_02\_03\_setup-steps03 Then mismatched pin is accepted |
| 76994 | Cancel flow during setup of device | When the user clicks on the Cancel button the flow is stopped   Background: Given Device information is logged And EWSDemoApp is installed and started And WiFi is enabled in phone settings And phone is connected to Home WiFi Scenario: Cancel flow during setup of device Given user navigates to screen EWS\_02\_01 When user cancels the flow Then pop-up is shown if the user is sure to cancel, EWS\_04\_02 cancel WiFi setup |
| 77006 | Cancel flow during troubleshooting | When the user clicks on the Cancel button the flow is stopped   Background: Given Device information is logged And EWSDemoApp is installed and started And WiFi is enabled in phone settings And phone is connected to Home WiFi Scenario: Cancel flow during troubleshooting Given user navigates to screen EWS\_H\_03\_02 When user cancels the flow Then pop-up is shown if the user is sure to cancel, EWS\_04\_02 cancel WiFi setup |
| 77026 | The user decides not to cancel the flow | When the user clicks on the Cancel button the flow is stopped  Background: Given Device information is logged And EWSDemoApp is installed and started And WiFi is enabled in phone settings And phone is connected to Home WiFi Scenario: The user decides not to cancel the flow Given user navigates to screen EWS\_03\_01a When user cancels the flow Then pop-up is shown if the user is sure to cancel, EWS\_04\_02 cancel WiFi setup And user selects go back button in screen EWS\_04\_02 And user continues EWS flow from screen EWS\_03\_01a |
| 77210 | Connect device with an unsecured network | It is possible to connect with a network that does not have a secure password   Background: Given Device information is logged And EWSDemoApp is installed and started And WiFi is enabled in phone settings And phone is connected to Home WiFi Scenario: Connect device with an unsecured network Given The Home WiFi network is a non secure network  And user navigates to screen EWS\_03\_01a  When the user leaves the WiFi password blank  Then screen EWS\_04\_01 Connection successful is shown |
| 77230 | The users phone is connected with 4G/3G | When the phone is connected to 3G/4G it is not possible to start the flow of the EWS    Background: Given Device information is logged And EWSDemoApp is installed and started And WiFi is enabled in phone settings And phone is connected to Home WiFi Scenario: The users phone is connected with 4G/3G Given the phone is connected to 3G or 4G When the user tries to navigate to EWS\_01\_01 Then screen EWS\_01\_01a or EWS\_01\_01b select home WiFi is shown |
| 93872 | EWS Happy Flow in Traditional Chinese language | In this scenario the correct flow with out any problem is tested from beginning to end.    Set the device region and Language to Traditional Chinese   Background: Given Device information is logged And EWSDemoApp is installed and started And WiFi is enabled in phone settings And phone is connected to Home WiFi Scenario: EWS Happy Flow in Traditional Chinese language Given user navigates to screen EWS\_03\_01a When the user fills in the correct WiFi password Then screen EWS\_04\_01 Connection successful is shown |
| 93873 | EWS Happy Flow in German language | In this scenario the correct flow with out any problem is tested from beginning to end.    Set the device region and Language to German   Background: Given Device information is logged And EWSDemoApp is installed and started And WiFi is enabled in phone settings And phone is connected to Home WiFi Scenario: EWS Happy Flow in German language Given user navigates to screen EWS\_03\_01a When the user fills in the correct WiFi password Then screen EWS\_04\_01 Connection successful is shown |
| 93874 | EWS unHappy Flow in German language | Set the device region and Language to German   The user gets help when not able to set device in setup mode.   Background: Given Device information is logged And EWSDemoApp is installed and started And WiFi is enabled in phone settings And phone is connected to Home WiFi Scenario: EWS unHappy Flow in German language Given the user navigates to screen EWS\_02\_02 When the user selects Not Blinking in screen EWS\_02\_02 And the user selects No in screen EWS\_H\_03\_02 Then screen EWS\_H\_03\_01 connect to wrong phone is shown And the user selects No in screen EWS\_H\_03\_01 And the user selects Yes in screen EWS\_H\_03\_02 And screen EWS\_H\_03\_03 reset device is shown And the user selects Done in screen EWS\_H\_03\_03 And screen EWS\_02\_02 is shown |
| 93875 | EWS unHappy Flow in Traditional Chinese language | Set the device region and Language to Traditional Chinese   The user gets help when not able to set device in setup mode.    Background: Given Device information is logged And EWSDemoApp is installed and started And WiFi is enabled in phone settings And phone is connected to Home WiFi Scenario: EWS unHappy Flow in Traditional Chinese language Given the user navigates to screen EWS\_02\_02 When the user selects Not Blinking in screen EWS\_02\_02 And the user selects No in screen EWS\_H\_03\_02 Then screen EWS\_H\_03\_01 connect to wrong phone is shown And the user selects No in screen EWS\_H\_03\_01 And the user selects Yes in screen EWS\_H\_03\_02 And screen EWS\_H\_03\_03 reset device is shown And the user selects Done in screen EWS\_H\_03\_03 And screen EWS\_02\_02 is shown |
| 93884 | EWS Happy Flow in Simplified Chinese language | In this scenario the correct flow with out any problem is tested from beginning to end.    Set the device region and Language to Simplified Chinese   Background: Given Device information is logged And EWSDemoApp is installed and started And WiFi is enabled in phone settings And phone is connected to Home WiFi Scenario: EWS Happy Flow in Simplified Chinese language Given user navigates to screen EWS\_03\_01a When the user fills in the correct WiFi password Then screen EWS\_04\_01 Connection successful is shown |
| 93897 | EWS unHappy Flow in Simplified Chinese language | Set the device region and Language to Simplified Chinese   The user gets help when not able to set device in setup mode.    Background: Given Device information is logged And EWSDemoApp is installed and started And WiFi is enabled in phone settings And phone is connected to Home WiFi Scenario: EWS unHappy Flow in Simplified Chinese language Given the user navigates to screen EWS\_02\_02 When the user selects Not Blinking in screen EWS\_02\_02 And the user selects No in screen EWS\_H\_03\_02 Then screen EWS\_H\_03\_01 connect to wrong phone is shown And the user selects No in screen EWS\_H\_03\_01 And the user selects Yes in screen EWS\_H\_03\_02 And screen EWS\_H\_03\_03 reset device is shown And the user selects Done in screen EWS\_H\_03\_03 And screen EWS\_02\_02 is shown |
| 93899 | EWS Happy Flow in English language | In this scenario the correct flow with out any problem is tested from beginning to end.    Set the device region and Language to English   Background: Given Device information is logged And EWSDemoApp is installed and started And WiFi is enabled in phone settings And phone is connected to Home WiFi Scenario: EWS Happy Flow in English language Given user navigates to screen EWS\_03\_01a When the user fills in the correct WiFi password Then screen EWS\_04\_01 Connection successful is shown |
| 93900 | EWS unHappy Flow in English language | Set the device region and Language to English   The user gets help when not able to set device in setup mode.   Background: Given Device information is logged And EWSDemoApp is installed and started And WiFi is enabled in phone settings And phone is connected to Home WiFi Scenario: EWS unHappy Flow in English language Given the user navigates to screen EWS\_02\_02 When the user selects Not Blinking in screen EWS\_02\_02 And the user selects No in screen EWS\_H\_03\_02 Then screen EWS\_H\_03\_01 connect to wrong phone is shown And the user selects No in screen EWS\_H\_03\_01 And the user selects Yes in screen EWS\_H\_03\_02 And screen EWS\_H\_03\_03 reset device is shown And the user selects Done in screen EWS\_H\_03\_03 And screen EWS\_02\_02 is shown |
| 94936 | The user can perform EWS flow from Reference App | Background: Given Device information is logged And ReferenceApp is installed and started  And user navigates to EWS uApp And WiFi is enabled in phone settings And phone is connected to Home WiFi Scenario: The user can perform EWS flow from Reference App Given user navigates to screen EWS\_03\_01a When the user fills in the correct WiFi password Then screen EWS\_04\_01 Connection successful is shown |
| 94953 | The user can select customised product in EWSDemoApp and perform EWS flow | Select a customised product and check that EWS microApp shows customised texts and images   Background: Given Device information is logged And EWSDemoApp is installed and started And WiFi is enabled in phone settings And phone is connected to Home WiFi Scenario Outline: The user can select customised product in EWSDemoApp and perform EWS flow Given user selects <product> configuration  When user navigates to screen EWS\_03\_01a  Then texts and images show customised content  And the user fills in the correct WiFi password  And screen EWS\_04\_01 Connection successful is shown Examples:  | product |  | BrightEyes |  | AirPurifier | |
| 94957 | The user can return to EWSDemoApp after EWS flow has been performed | Background: Given Device information is logged And EWSDemoApp is installed and started And WiFi is enabled in phone settings And phone is connected to Home WiFi Scenario: The user can return to EWSDemoApp after EWS flow has been performed Given user navigates to screen EWS\_03\_01a And the user fills in the correct WiFi password And screen EWS\_04\_01 Connection successful is shown  When user selects continue button in screen EWS\_04\_01 Then EWS flow returns to EWSDemoApp |

# Test Instructions

Not applicable. The test instructions are part of the steps of the test scenarios themselves.

# Revision History

| **Version** | **Date** | **Author** | **Description of Change** | **Reason for Change** |
| --- | --- | --- | --- | --- |
| 0.1 | 2016-NOV-06 | Gerard Arts | Initial | Initial revision |
| 0.2 | 2016-NOV-07 | Gerard Arts | Processed Nicky van Meir’s review comments | Review |
| 0.3 | 2016-NOV-10 | Gerard Arts | Processed review comments from Bas Flaton and Lynn Slooten | Review |
| 0.4 | 2016-NOV-20 | Gerard Arts | Processed review comments from Rob Hoveling | Review |

# Approval

| **Name** | **Role / Function** | **Date** (YYYY-MON-DD) | **Signature** |
| --- | --- | --- | --- |
| Thijs Winter | Department Manager |  |  |
|  |  |  |  |

# Appendices

Not applicable. No appendices are part of this document.