

Release Notes

SUOTA iOS Application

SW-B-012

Abstract

This document contains the release notes for Dialog Semiconductor's SUOTA iOS Application, version 3.200.14.

Contents

Abstract	1
1 Terms and Definitions.....	4
2 Release Data	4
3 License	4
4 Related Documentation and References	4
5 Release Description	5
5.1 Overview	5
5.2 New and Updated Features of 3.200.14	5
5.3 Fixes and Improvements since 3.200.12	5
6 Release History	6
6.1 3.200.12	6
6.1.1 Overview	6
6.1.2 New and Updated Features of 3.200.12.....	6
6.1.3 Fixes and Improvements since 3.200.10	6
6.2 3.200.10	8
6.2.1 Overview	8
6.2.2 New and Updated Features of 3.200.10.....	8
6.3 3.200.8	9
6.3.1 Overview	9
6.3.2 New and Updated Features of 3.200.8.....	9
6.3.3 Fixes and Improvements since 3.200.6.....	9
6.4 3.200.6	10
6.4.1 Overview	10
6.4.2 New and Updated Features of 3.200.6.....	10
6.4.3 Fixes and Improvements since 3.200.4.....	10
6.4.4 Comments	10
6.5 3.200.4	11
6.5.1 Overview	11
6.5.2 New and Updated Features of 3.200.4.....	11
6.6 3.200.2	12
6.6.1 Overview	12
6.6.2 New and Updated Features of 3.200.2.....	12
Appendix A Software Versioning Rules.....	13
Document Revision History.....	14

Tables

Table 1: Information Table.....	4
Table 2: 3.200.14 New Features	5
Table 3: 3.200.14 Fixes and Improvements	5
Table 4: 3.200.12 New Features	6
Table 5: 3.200.12 Fixes and Improvements	6
Table 6: 3.200.10 New Features	8
Table 7: 3.200.8 New Features	9
Table 8: 3.200.8 Fixes and Improvements	9

Table 9: 3.200.6 New Features 10

Table 10: 3.200.6 Fixes and Improvements..... 10

Table 11: 3.200.4 New Features 11

Table 12: 3.200.2 New Features 12

1 Terms and Definitions

BLE	Bluetooth Low Energy
GA	General Access
LA	Limited Access
MTU	Maximum Transmission Unit
PSM	Protocol Service Multiplexer
RSSI	Received Signal Strength Indicator
SUOTA	Software Update Over The Air
UI	User Interface
UUID	Universally Unique Identifier

2 Release Data

Table 1: Information Table

Software	SUOTA iOS Application
Device Type	iOS device
Operating System	iOS
Operating System Version	iOS 8 and above
Software Release Date	21-Apr-2020
Software Version Number	3.200.14
Software Release Type (Note 1)	FULL (GA)

Note 1 Releases can be of the following types: FULL (GA), FULL (LA), RELEASE CANDIDATE, ENGINEERING, PATCH or BINARY

3 License

Licenses covering this SUOTA iOS Application release are listed in the license.txt file in *SUOTA-iOS-3.200.14-src.zip/suota_app_ios*.

4 Related Documentation and References

- [1] SUOTA-iOS-3.200.14-src.zip, Source Release, Dialog Semiconductor
- [2] AN-B-003, Software Patching over the Air (SPotA), Revision 1.3, Application Note, Dialog Semiconductor
- [3] AN-B-010, DA14580 using SUOTA, Revision 1.2, Application Note, Dialog Semiconductor

5 Release Description

5.1 Overview

This is a FULL (GA) release of SUOTA iOS Application. It fixes an issue which causes upload failure.

5.2 New and Updated Features of 3.200.14

Table 2: 3.200.14 New Features

Feature Number	Description
1	UI fixes and modifications for iOS 13 (Xcode 11)
2	Disable dark mode
3	Reduced signal bar trailing space

5.3 Fixes and Improvements since 3.200.12

Table 3: 3.200.14 Fixes and Improvements

Fix Number	Description
1	Fixed upload failure if image length is less than block size

6 Release History

6.1 3.200.12

Version 3.200.12 of SUOTA iOS Application was released on 29-Oct-2019.

6.1.1 Overview

This was a FULL (GA) release of SUOTA iOS Application. It included BLE related behaviour reimplement and code refactoring. It also included UI modifications.

6.1.2 New and Updated Features of 3.200.12

Table 4: 3.200.12 New Features

Feature Number	Description
1	Code cleanup and refactoring: <ul style="list-style-type: none"> GenericServiceManager code cleanup and refactoring Added SUOTA UUIDs class properties in GenericServiceManager SUOTA parameters code refactoring DeviceStorage code refactoring BluetoothManager code cleanup Removed unused code with different license from ActionSheetPicker library Fixed some warnings in MBProgressHUD and APLSlideMenu Resources refactoring
2	Added RSSI property to DeviceRangeView
3	Updated ActionSheetPicker library (version 2.3.0)
4	Updated TPKeyboardAvoiding library (version 1.3.2)
5	Removed embedded fonts <ul style="list-style-type: none"> Use system font instead of Myriad
6	Modified GPIO Port 0 range (P0_0 - P0_11)
7	Added 1024 pt app icon
8	Modified NSBluetoothPeripheralUsageDescription
9	Added NSBluetoothAlwaysUsageDescription key to Info.plist

6.1.3 Fixes and Improvements since 3.200.10

Table 5: 3.200.12 Fixes and Improvements

Fix Number	Description
1	Fixed: new connection could not be initiated after timeout without rescan
2	Fixed firmware file URL encoding If the firmware path required encoding for URL conversion, the file URL was not created properly. As a result, file size was displayed as zero and the upload failed because the file could not be opened
3	Fixed cancel pending connection behaviour
4	Fixed memory leak in APLSlideMenu library
5	Fixed splash screen background on iPhone X Use storyboard instead of xib for launch screen
6	Fixed UI issue in config screen on iPhone X

Fix Number	Description
7	Fixed: connecting message could be displayed/scrolling out of view
8	Fixed menu top space on iPhone X

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6.2 3.200.10

Version 3.200.10 of SUOTA iOS Application was released on 20-Dec-2017.

6.2.1 Overview

This was a FULL (GA) release of SUOTA iOS Application. It added support for SUOTA 1.3 features. It included several fixes and improvements.

6.2.2 New and Updated Features of 3.200.10

Table 6: 3.200.10 New Features

Feature Number	Description
1	Support for SUOTA 1.3 features The app will try to read the new SUOTA characteristics (version, MTU, patch data size, L2CAP PSM). If available, MTU and patch data size values will be used to determine the file chunk size that will be sent on each write during upload The file chunk size is calculated as MIN(patch data size, MTU - 3). The calculated chunk size is displayed in the log The L2CAP PSM value is not used
2	Updated storyboards for Xcode 8 The project is no longer compatible with Xcode 7, unless the storyboards are saved in the old format from Xcode 8 (additional fixes may be required)
3	Removed unused periodic RSSI read
4	Updated TPKeyboardAvoiding library (version 1.3.1)
5	UI fixes and improvements: <ul style="list-style-type: none">• Fixed typo in disclaimer html• Fixed support "mailto:" URL• Fixed issue with disclaimer links opening inside the web view• Removed firmware version from info screen• Fixed app icon set
6	Code cleanup and refactoring: <ul style="list-style-type: none">• Moved ActionSheetPicker library files to separate folder• Removed old AboutViewController

6.3 3.200.8

Version 3.200.8 of SUOTA iOS Application was released on 03-Nov-2016.

6.3.1 Overview

This was a FULL (GA) release of SUOTA iOS Application. The user interface was redesigned according to Dialog Semiconductor's brand guidelines.

6.3.2 New and Updated Features of 3.200.8

Table 7: 3.200.8 New Features

Feature Number	Description
1	Redesign the user interface according to Dialog Semiconductor's brand guidelines: <ul style="list-style-type: none">Added splash screen
2	Side menu
3	Calculate and display upload procedure duration
4	Enabled background BLE processing BLE processing stops if the app goes to the background. As a result, the upload procedure stops. By enabling background processing, the upload procedure remains active even if the app goes to the background. The screen will also stay on during the upload procedure
5	Added default values for I2C configuration
6	Handle connection failure
7	Handle BLE read/write errors
8	Allow connection cancel
9	Added connection timeout
10	Added URL scheme (diasemisuta://) to allow other apps to start the SUOTA app
11	Minor code cleanup and fixes

6.3.3 Fixes and Improvements since 3.200.6

Table 8: 3.200.8 Fixes and Improvements

Fix/Improvement Number	Description
1	Fixed firmware file size unit The firmware file size is displayed in bytes, but "kb" was used as unit
2	Fixed I2C configuration UI processing Due to typos in the code the I2C parameters were not set properly as specified by the user on the UI. This resulted in upload failure
3	Fixed bug in setting SUOTA chunk size SUOTA global chunk size was updated in order to send the last chunk of each block, if its size was less than the default. The procedure used the new value afterwards, which could lead to reduced performance or upload failure (if the chunk size became too low)

6.4 3.200.6

Version 3.200.6 of SUOTA iOS Application was released on 10-May-2016.

6.4.1 Overview

This was a FULL (GA) release of SUOTA iOS Application. It included several fixes and improvements.

6.4.2 New and Updated Features of 3.200.6

Table 9: 3.200.6 New Features

Feature Number	Description
1	UI improvements
2	"About" view controller
3	Peripheral devices UUIDs shown during scan The BD address of a peripheral is not available to applications on the iOS platform, but the system assigns a persistent UUID to each known device
4	Improvement of firmware upload procedure log messages on the UI Removed per packet log messages which slowed down the procedure on some devices

6.4.3 Fixes and Improvements since 3.200.4

Table 10: 3.200.6 Fixes and Improvements

Fix/Improvement Number	Description
1	Fixed SUOTAViewController observer registration for BLE events SUOTAViewController registered itself as observer for BLE events from the GenericServiceManager but did not unregister. In some cases, this resulted to notifications from previous upload procedures to be delivered to the current one. This fix also has the side effect that navigating away from SUOTAViewController stops the upload procedure, which can then be restarted
2	Fixed UI behavior after upload procedure end After the SUOTA_END command was sent, if the SPOTA_SERV_STATUS notification was received before the write response (occurs with 680), then the reboot dialog would appear twice

6.4.4 Comments

This is the first official release of the SUOTA iOS Application by Dialog Semiconductor. Previous releases (1.0 and 1.1) were available on Apple App Store from Unc Inc. These versions are now named using the versioning rules described in Appendix A.

6.5 3.200.4

Version 3.200.4 of SUOTA iOS Application was released on 29-Apr-2015.

6.5.1 Overview

This was a FULL (GA) release of SUOTA iOS Application.

6.5.2 New and Updated Features of 3.200.4

Table 11: 3.200.4 New Features

Feature Number	Description
1	Version 1.1 from Unc Inc
2	Support for HomeKit UUID during scanning to detect SUOTA devices

6.6 3.200.2

Version 3.200.2 of SUOTA iOS Application was released on 19-Dec-2014.

6.6.1 Overview

This was a FULL (GA) release of SUOTA iOS Application.

6.6.2 New and Updated Features of 3.200.2

Table 12: 3.200.2 New Features

Feature Number	Description
1	Version 1.0 from Unc Inc
2	Initial release

Appendix A Software Versioning Rules

This describes the software version numbers and does not apply to documentation version numbers (as found in the footer of this document).

Each software version number string consists of four numbers: MAJOR. BRANCH. MINOR. and BUILD.

#MAJOR: It is increased (by one only) if the project undergoes a major modification, for example major ROM changes. It usually changes only when the project sources undergo major restructuring affecting most of the repository. It is initialized at 1.

#BRANCH: Used in the case of concurrent projects that for special reasons need to be spun off the major repository. It corresponds to different versions of the repository code that have to be supported concurrently. In this case each branch number corresponds to a different GIT branch. The basic project has BRANCH id 0.

#MINOR: Odd numbers indicate Engineering (or Patch or Binary) versions, even numbers indicate Full release versions or Release Candidates of Full versions. Each Full release increases this number by one. After the Full release, the number is increased by one again. Therefore, Project releases correspond to release numbers like 2.0.1.xxx, 2.0.2.xxx. etc. The #MINOR number is initialized at 1.

#BUILD: The # BUILD number increases by one at every repository update and thus indicates the total number of changes since repository initialization. The BUILD number is initialized at 1.

Document Revision History

This section summarizes the changes made to this document and not to the Software that this document describes.

Revision	Date	Description
1.1	21-Apr-2020	SUOTA version 3.200.14
1.0	29-Oct-2019	Initial version.

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Document Status Definitions

Status	Definition
DRAFT	The content of this document is under review and subject to formal approval, which may result in modifications or additions.
APPROVED or unmarked	The content of this document has been approved for publication.

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