

# **ATWINC15X0**

## **Wi-Fi Add-on Component**

Release Notes

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## Revisions

REVISION	DATE	DESCRIPTION	STATUS	AUTHOR	REVISER
0.1	16/05/2017	Document created	draft	A. Ricci	
0.2	23/06/2017	Add-on component release 1.2.0 added	draft	A. Ricci	
0.3	08/09/2017	Add-on component release 1.3.0 added	release	A. Ricci	
0.4	12/12/2017	Add-on component release 1.3.2 added	release	C. Tagliaferri	A. Ricci
0.5	11/01/2018	Add-on component release 1.3.2-update1 added	release	C. Tagliaferri	
0.6	06/03/2018	Add-on component release 1.3.2-update2 added	release	C. Tagliaferri	
0.7	27/03/2018	Add-on component release 1.3.2-update3 added	release	C. Tagliaferri	
1.0	10/04/2018	Add-on component release 1.3.2-update4 added Add-on component release 1.4.0 added	release	C. Tagliaferri	A. Ricci
1.1	24/07/2018	Add-on component release 1.4.2-update2 added Add-on component release 1.5.0-rc.1 added	release	C. Tagliaferri	
1.2	03/10/2018	Add-on component release 1.5.0 added	release	C. Tagliaferri	A. Ricci
1.3	05/03/2019	Add-on component release 1.5.3 added	release	C. Tagliaferri	

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 The logo for RELOC Design & Integration features a stylized red wing-like graphic on the left, followed by the word "RELOC" in a large, bold, red sans-serif font. Below "RELOC" is the text "DESIGN & INTEGRATION" in a smaller, black, all-caps sans-serif font.	Document ATWINC15X0 Wi-Fi Add-on component – Release Notes	05/03/2019
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# 1. Introduction

## 1.1. Description

This document describes the release notes for the SSP WiFi Add-On Framework software for ATWINC1500 module.

## 2. Synergy Wi-Fi framework add-on release notes

### 2.1. ATWINC15X0 Wi-Fi add-on component release 1.2.0-b.15

#### 2.1.1 Release information

ATWINC1500 Wi-Fi Add-on component	1.2.0-b.15
Compatible with Wi-Fi Framework Add-on versions	1.0.0-b.3
Compatible with SSP versions	1.2.0
Release Date	May 12, 2017

#### 2.1.2 Release package supported APIs and functionalities

##### 2.1.2.1 Synergy Wi-Fi Framework with NetX

##### Supported API list

- open	supported
- close	NOT supported
- multicastListAdd	NOT supported
- multicastListDelete	NOT supported
- statisticsGet	supported
- transmit	supported
- provisioningSet	supported
o Station mode	supported
o AP mode	NOT supported
- provisioningGet	supported
- infoGet	supported
- scan	NOT supported
- accessControlListAdd	NOT supported
- accessControlListDelete	NOT supported
- macAddressGet	NOT supported
- macAddressSet	supported
- versionGet	supported

##### Additional notes

Wi-Fi module SSP add-on instantiates an internal thread required for low-level Wi-Fi communication management. Internal thread stack is allocated by means of a static buffer.

### 2.1.2.2 BSD socket API

Not supported.

## 2.2. ATWINC15X0 Wi-Fi add-on component release 1.2.0-b.16

### 2.2.1 Release information

ATWINC1500 Wi-Fi Add-on component	1.2.0-b.16
Compatible with Wi-Fi Framework Add-on versions	1.0.0-b.3
Compatible with SSP versions	1.2.0
Release Date	May 15, 2017

### 2.2.2 Release package supported APIs and functionalities

#### 2.2.2.1 Synergy Wi-Fi Framework with NetX

##### Supported API list

- open	supported
- close	supported
- multicastListAdd	NOT supported
- multicastListDelete	NOT supported
- statisticsGet	supported
- transmit	supported
- provisioningSet	supported
o Station mode	supported
o AP mode	NOT supported
- provisioningGet	supported
- infoGet	supported
- scan	NOT supported
- accessControlListAdd	NOT supported
- accessControlListDelete	NOT supported
- macAddressGet	supported
- macAddressSet	supported
- versionGet	supported

##### Additional notes

Wi-Fi module SSP add-on instantiates an internal thread required for low-level Wi-Fi communication management. Internal thread stack is dynamically allocated. Stack size is defined by means of module parameter.

## 2.3. ATWINC15X0 Wi-Fi add-on component release 1.2.0-b.17

### 2.3.1 Release information

ATWINC1500 Wi-Fi Add-on component	1.2.0-b.17
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Compatible with Wi-Fi Framework Add-on versions	1.0.0-b.3
Compatible with SSP versions	1.2.0
Release Date	Jun. 23, 2017

## 2.3.2 Release package supported APIs and functionalities

### 2.3.2.1 Synergy Wi-Fi Framework with NetX

#### Supported API list

- open	supported
- close	supported
- multicastListAdd	NOT supported
- multicastListDelete	NOT supported
- statisticsGet	supported
- transmit	supported
- provisioningSet	supported
o Station mode	supported
o AP mode	NOT supported
- provisioningGet	supported
- infoGet	supported
- scan	NOT supported
- ACLAdd	NOT supported
- ACLDelete	NOT supported
- macAddressGet	supported
- macAddressSet	supported
- versionGet	supported

#### Additional notes

ATWINC1500 Wi-Fi add-on component release 1.2.0-b.17 is included into release 1.2.0 installer.

Respect to previous release, 1.2.0-b.16 version introduces support for ACLAdd and ACLDelete APIs (replacing accessControlListAdd and accessControlListDelete) in order to match official NSAL release.

### 2.3.2.2 BSD socket API

NOT supported.

## 2.4. ATWINC15X0 Wi-Fi add-on component release 1.2.0

### 2.4.1 Release information

ATWINC1500 Wi-Fi Add-on component	1.2.0
Compatible with Wi-Fi Framework Add-on versions	1.0.0
Compatible with SSP versions	1.2.1
Release Date	Jun. 23, 2017



## 2.4.2 Release package supported APIs and functionalities

### 2.4.2.1 Synergy Wi-Fi Framework with NetX

#### Supported API list

- open	supported
- close	supported
- multicastListAdd	NOT supported
- multicastListDelete	NOT supported
- statisticsGet	supported
- transmit	supported
- provisioningSet	supported
o Station mode	supported
o AP mode	supported
- provisioningGet	supported
- infoGet	supported
- scan	supported
- ACLAdd	NOT supported
- ACLDelete	NOT supported
- macAddressGet	supported
- macAddressSet	supported
- versionGet	supported

#### Additional notes

ATWINC1500 Wi-Fi add-on component release 1.2.0 introduces support for SSP 1.2.1.

### 2.4.2.2 BSD socket API

NOT supported.

## 2.5. ATWINC15X0 Wi-Fi add-on component release 1.3.0

### 2.5.1 Release information

ATWINC1500 Wi-Fi Add-on component	1.3.0
Compatible with Wi-Fi Framework Add-on versions	1.3.0
Compatible with SSP versions	1.3.0
Release Date	Sep. 08, 2017

## 2.5.2 Release package supported APIs and functionalities

### 2.5.2.1 Synergy Wi-Fi Framework with NetX

#### Supported API list

- open	supported
- close	supported

- multicastListAdd NOT supported
- multicastListDelete NOT supported
- statisticsGet supported
- transmit supported
- provisioningSet supported
- o Station mode supported
- o AP mode supported
- provisioningGet supported
- infoGet supported
- scan supported
- ACLAdd NOT supported
- ACLDelete NOT supported
- macAddressGet supported
- macAddressSet supported
- versionGet supported

### Additional notes

ATWINC1500 Wi-Fi add-on component release 1.3.0 introduces support for SSP 1.3.0. Compatibility with previous SSP 1.2.x has been removed.

#### 2.5.2.2 BSD socket API

NOT supported.

## 2.6. ATWINC15X0 Wi-Fi add-on component release 1.3.2

### 2.6.1 Release information

ATWINC1500 Wi-Fi Add-on component	1.3.2
Compatible with Wi-Fi Framework Add-on versions	1.3.x
Compatible with SSP versions	1.3.x
Release Date	Dec. 12, 2017

Important notices for this release:

Existing projects (even based on ATWINC15X0 Wi-Fi add-on release 1.3.0-update1) may not migrate seamlessly to the newer 1.3.2 pack file since there are substantial changes in the modules internal naming that may break compatibility. Users are strongly advised to back up their existing projects before migrating to latest pack versions, or simply start from a newly designed project.

### 2.6.2 Release package supported APIs and functionalities

#### 2.6.2.1 Synergy Wi-Fi Framework with NetX

##### Supported API list

- open supported
- close supported

- multicastListAdd NOT supported
- multicastListDelete NOT supported
- statisticsGet supported
- transmit supported
- provisioningSet supported
- o Station mode supported
- o AP mode supported
- provisioningGet supported
- infoGet supported
- scan supported
- ACLAdd NOT supported
- ACLDelete NOT supported
- macAddressGet supported
- macAddressSet supported
- versionGet supported

### Additional notes

ATWINC1500 Wi-Fi add-on component release 1.3.2 supports SSP 1.3.x.

Compatibility with previous SSP 1.2.x has been removed.

#### 2.6.2.2 BSD socket API

ATWINC1500 Wi-Fi add-on component release 1.3.2 supports BSD socket APIs.

Socket APIs provide an interface to the application to make use of BSD Socket APIs. When the application uses these APIs, it is using the on-chip networking stack present on the WiFi chipset, and is not using NSAL (or the networking stack running on the Synergy MCU).

## 2.7. ATWINC15X0 Wi-Fi add-on component release 1.3.2-update1

### 2.7.1 Release information

ATWINC1500 Wi-Fi Add-on component	1.3.2-update1
Compatible with Wi-Fi Framework Add-on versions	1.3.x
Compatible with SSP versions	1.3.x
Release Date	Jan. 11, 2018

Fixed switch between different WiFi modes (station and AP).

### 2.7.2 Release package supported APIs and functionalities

#### 2.7.2.1 Synergy Wi-Fi Framework with NetX

##### Supported API list

- open supported

- close supported
- multicastListAdd NOT supported
- multicastListDelete NOT supported
- statisticsGet supported
- transmit supported
- provisioningSet supported
- o Station mode supported
- o AP mode supported
- provisioningGet supported
- infoGet supported
- scan supported
- ACLAdd NOT supported
- ACLDelete NOT supported
- macAddressGet supported
- macAddressSet supported
- versionGet supported

### 2.7.2.2 BSD socket API

ATWINC1500 Wi-Fi add-on component release 1.3.2-update1 supports BSD socket APIs.

Socket APIs provide an interface to the application to make use of BSD Socket APIs. When the application uses these APIs, it is using the on-chip networking stack present on the WiFi chipset, and is not using NSAL (or the networking stack running on the Synergy MCU).

## 2.8. ATWINC15X0 Wi-Fi add-on component release 1.3.2-update2

### 2.8.1 Release information

ATWINC1500 Wi-Fi Add-on component	1.3.2-update2
Compatible with Wi-Fi Framework Add-on versions	1.3.x
Compatible with SSP versions	1.3.x
Release Date	Mar. 6, 2018

Removed blocking loop into bus wrapper in case of error.

Removed forever timeouts, APIs timeouts are now configurable using the configurator.xml .

### 2.8.2 Release package supported APIs and functionalities

#### 2.8.2.1 Synergy Wi-Fi Framework with NetX

##### Supported API list

- open supported
- close supported
- multicastListAdd NOT supported
- multicastListDelete NOT supported
- statisticsGet supported

- transmit supported
- provisioningSet supported
  - o Station mode supported
  - o AP mode supported
- provisioningGet supported
- infoGet supported
- scan supported
- ACLAdd NOT supported
- ACLDelete NOT supported
- macAddressGet supported
- macAddressSet supported
- versionGet supported

### 2.8.2.2 BSD socket API

ATWINC1500 Wi-Fi add-on component release 1.3.2-update2 supports BSD socket APIs.

Socket APIs provide an interface to the application to make use of BSD Socket APIs. When the application uses these APIs, it is using the on-chip networking stack present on the WiFi chipset, and is not using NSAL (or the networking stack running on the Synergy MCU).

## 2.9. ATWINC15X0 Wi-Fi add-on component release 1.3.2-update3

### 2.9.1 Release information

ATWINC1500 Wi-Fi Add-on component	1.3.2-update3
Compatible with Wi-Fi Framework Add-on versions	1.3.x
Compatible with SSP versions	1.3.x
Release Date	Mar. 27, 2018

Various fixes in the close API.

SPI Framework was opened twice, fixed.

### 2.9.2 Release package supported APIs and functionalities

#### 2.9.2.1 Synergy Wi-Fi Framework with NetX

##### Supported API list

- open supported
- close supported
- multicastListAdd NOT supported
- multicastListDelete NOT supported
- statisticsGet supported
- transmit supported
- provisioningSet supported
  - o Station mode supported
  - o AP mode supported

- provisioningGet supported
- infoGet supported
- scan supported
- ACLAdd NOT supported
- ACLDelete NOT supported
- macAddressGet supported
- macAddressSet supported
- versionGet supported

### 2.9.2.2 BSD socket API

ATWINC1500 Wi-Fi add-on component release 1.3.2-update3 supports BSD socket APIs.

Socket APIs provide an interface to the application to make use of BSD Socket APIs. When the application uses these APIs, it is using the on-chip networking stack present on the WiFi chipset, and is not using NSAL (or the networking stack running on the Synergy MCU).

## 2.10. ATWINC15X0 Wi-Fi add-on component release 1.3.2-update4

### 2.10.1 Release information

ATWINC1500 Wi-Fi Add-on component	1.3.2-update4
Compatible with Wi-Fi Framework Add-on versions	1.3.x
Compatible with SSP versions	1.3.x
Release Date	Mar. 27, 2018

#### Change list

- Diversified close behavior depending on the current mode.

### 2.10.2 Release package supported APIs and functionalities

#### 2.10.2.1 Synergy Wi-Fi Framework with NetX

##### Supported API list

- open supported
- close supported
- multicastListAdd NOT supported
- multicastListDelete NOT supported
- statisticsGet supported
- transmit supported
- provisioningSet supported
  - o Station mode supported
  - o AP mode supported
- provisioningGet supported
- infoGet supported
- scan supported
- ACLAdd NOT supported

- ACLDelete NOT supported
- macAddressGet supported
- macAddressSet supported
- versionGet supported

### 2.10.2.2 BSD socket API

ATWINC1500 Wi-Fi add-on component release 1.3.2-update4 supports BSD socket APIs.

Socket APIs provide an interface to the application to make use of BSD Socket APIs. When the application uses these APIs, it is using the on-chip networking stack present on the WiFi chipset, and is not using NSAL (or the networking stack running on the Synergy MCU).

## 2.11. ATWINC15X0 Wi-Fi add-on component release 1.4.0

### 2.11.1 Release information

ATWINC1500 Wi-Fi Add-on component	1.4.0
Compatible with Wi-Fi Framework Add-on versions	1.4.0
Compatible with SSP versions	1.4.0
Release Date	Apr. 10, 2018

#### Change list

- Upgrade of pack configuration files to 1.4.0 release.

### 2.11.2 Release package supported APIs and functionalities

#### 2.11.2.1 Synergy Wi-Fi Framework with NetX

##### Supported API list

- open supported
- close supported
- multicastListAdd NOT supported
- multicastListDelete NOT supported
- statisticsGet supported
- transmit supported
- provisioningSet supported
  - o Station mode supported
  - o AP mode supported
- provisioningGet supported
- infoGet supported
- scan supported
- ACLAdd NOT supported
- ACLDelete NOT supported
- macAddressGet supported
- macAddressSet supported
- versionGet supported

### 2.11.2.2 BSD socket API

ATWINC1500 Wi-Fi add-on component release 1.4.0 supports BSD socket APIs.

Socket APIs provide an interface to the application to make use of BSD Socket APIs. When the application uses these APIs, it is using the on-chip networking stack present on the WiFi chipset, and is not using NSAL (or the networking stack running on the Synergy MCU).

## 2.12. ATWINC15X0 Wi-Fi add-on component release 1.4.0-update2

### 2.12.1 Release information

ATWINC1500 Wi-Fi Add-on component	1.4.0-update2
Compatible with Wi-Fi Framework Add-on versions	1.4.x
Compatible with SSP versions	1.4.x
Release Date	July 20, 2018

#### Change list

- Added an internal transmission queue with configurable depth. This queue will be used when:
  - o the bus is busy for a time longer than the configured timeout;
  - o the preemption is disabled (for example during a ping command).
- Fixed an IAR compiler incompatibility.

### 2.12.2 Release package supported APIs and functionalities

#### 2.12.2.1 Synergy Wi-Fi Framework with NetX

##### Supported API list

- |                       |               |
|-----------------------|---------------|
| - open                | supported     |
| - close               | supported     |
| - multicastListAdd    | NOT supported |
| - multicastListDelete | NOT supported |
| - statisticsGet       | supported     |
| - transmit            | supported     |
| - provisioningSet     | supported     |
| o Station mode        | supported     |
| o AP mode             | supported     |
| - provisioningGet     | supported     |
| - infoGet             | supported     |
| - scan                | supported     |
| - ACLAdd              | NOT supported |
| - ACLDelete           | NOT supported |
| - macAddressGet       | supported     |
| - macAddressSet       | supported     |
| - versionGet          | supported     |



### 2.12.2.2 BSD socket API

ATWINC1500 Wi-Fi add-on component release 1.4.0-update2 supports BSD socket APIs.

Socket APIs provide an interface to the application to make use of BSD Socket APIs. When the application uses these APIs, it is using the on-chip networking stack present on the WiFi chipset, and is not using NSAL (or the networking stack running on the Synergy MCU).

## 2.13. ATWINC15X0 Wi-Fi add-on component release 1.5.0-rc.1

### 2.13.1 Release information

ATWINC1500 Wi-Fi Add-on component	1.5.0-rc.1
Compatible with Wi-Fi Framework Add-on versions	1.5.x
Compatible with SSP versions	1.5.x
Release Date	July 24, 2018

#### Change list

- Upgrade of pack configuration files from 1.4.0-update2 to 1.5.0-rc.1 release.

### 2.13.2 Release package supported APIs and functionalities

#### 2.13.2.1 Synergy Wi-Fi Framework with NetX

##### Supported API list

- open	supported
- close	supported
- multicastListAdd	NOT supported
- multicastListDelete	NOT supported
- statisticsGet	supported
- transmit	supported
- provisioningSet	supported
o Station mode	supported
o AP mode	supported
- provisioningGet	supported
- infoGet	supported
- scan	supported
- ACLAdd	NOT supported
- ACLDelete	NOT supported
- macAddressGet	supported
- macAddressSet	supported
- versionGet	supported

#### 2.13.2.2 BSD socket API

ATWINC1500 Wi-Fi add-on component release 1.5.0-rc.1 supports BSD socket APIs.

Socket APIs provide an interface to the application to make use of BSD Socket APIs. When the application uses these APIs, it is using the on-chip networking stack present on the WiFi chipset, and is not using NSAL (or the networking stack running on the Synergy MCU).

## 2.14. ATWINC15X0 Wi-Fi add-on component release 1.5.0

### 2.14.1 Release information

ATWINC1500 Wi-Fi Add-on component	1.5.0
Compatible with Wi-Fi Framework Add-on versions	1.5.x
Compatible with SSP versions	1.5.x
Release Date	Oct 3, 2018

#### Change list

- Added multicastListAdd and multicastListDelete support.

### 2.14.2 Release package supported APIs and functionalities

#### 2.14.2.1 Synergy Wi-Fi Framework with NetX

##### Supported API list

- open	supported
- close	supported
- multicastListAdd	supported
- multicastListDelete	supported
- statisticsGet	supported
- transmit	supported
- provisioningSet	supported
o Station mode	supported
o AP mode	supported
- provisioningGet	supported
- infoGet	supported
- scan	supported
- ACLAdd	NOT supported
- ACLDelete	NOT supported
- macAddressGet	supported
- macAddressSet	supported
- versionGet	supported

#### 2.14.2.2 BSD socket API

ATWINC1500 Wi-Fi add-on component release 1.5.0 supports BSD socket APIs.

Socket APIs provide an interface to the application to make use of BSD Socket APIs. When the application uses these APIs, it is using the on-chip networking stack present on the WiFi chipset and is not using NSAL (or the networking stack running on the Synergy MCU).

## 2.15. ATWINC15X0 Wi-Fi add-on component release 1.5.3

### 2.15.1 Release information

ATWINC1500 Wi-Fi Add-on component	1.5.3
Compatible with Wi-Fi Framework Add-on versions	1.5.x
Compatible with SSP versions	1.5.x
Release Date	Mar 5, 2019

#### Change list

- Added a retry loop in the transmit API in order to wait for winc1500 memory to get free when high throughput rates are used.
- User callback saved in AP mode too.
- Fixed events wait call in the internal thread: TX\_AND\_CLEAR option was wrongly used.
- Suppressed missing field initialization warning.

### 2.15.2 Release package supported APIs and functionalities

#### 2.15.2.1 Synergy Wi-Fi Framework with NetX

##### Supported API list

- |                       |               |
|-----------------------|---------------|
| - open                | supported     |
| - close               | supported     |
| - multicastListAdd    | supported     |
| - multicastListDelete | supported     |
| - statisticsGet       | supported     |
| - transmit            | supported     |
| - provisioningSet     | supported     |
| o Station mode        | supported     |
| o AP mode             | supported     |
| - provisioningGet     | supported     |
| - infoGet             | supported     |
| - scan                | supported     |
| - ACLAdd              | NOT supported |
| - ACLDelete           | NOT supported |
| - macAddressGet       | supported     |
| - macAddressSet       | supported     |
| - versionGet          | supported     |

#### 2.15.2.2 BSD socket API

ATWINC1500 Wi-Fi add-on component release 1.5.3 supports BSD socket APIs.

Socket APIs provide an interface to the application to make use of BSD Socket APIs. When the application uses these APIs, it is using the on-chip networking stack present on the WiFi chipset and is not using NSAL (or the networking stack running on the Synergy MCU).