

Date: 10 April 2015

From: STMicroelectronics

Subject: **Version 3.4 Release Notes SPWF01S-150410-c2e37a3**

### **(1) Highlights:**

3.4 release includes bug fixes, CyaSSL 3.1.0 for secure sockets, supporting TLS 1.2, 1.1, 1.0, and SSL 3.0 Certificate-based authentication, new features for STM32 peripheral usage, socket server improvement to support higher throughput, scan reworking

### **(2) New Features:**

- Extended AT+S.SOCKON command to create a secure socket
- Added AT+S.TLSCERT, AT+S.TLSCERT2, AT+S.TLSDOMAIN, and AT+S.SETTIME commands to handle SSL/TLS security layer certificate options
- Added AT+S.PWM, AT+S.ADC, and AT+S.DAC commands to handle STM32 peripherals
- Added new WIND asynchronous messages: WIND:74 --> WIND:79.
- Updated WIND:28, WIND: 40, WIND:41 and WIND: 5 asynchronous messages
- Increased AT-command buffer size to support HTTP GET/POST commands to 512 characters
- Added new configuration variables: txfail\_thresh, ip\_apredirect, ip\_wait\_timeout
- Enabled scan in MiniAP Mode
- Automatic Fast Reconnection to the last associated AP
- Improvements to manage high throughputs when socket server is used
- Blink\_led variable setting to visualize how many STA are connected when the module is in MiniAP mode
- Extended remote.html entries
- Extended devsts, devconf and peers SSIs and improved input\_demo SSI mechanism
- Added optional parameter to FSC command allowing a user to select if HTTP header needs to be part of the FSA payload

### **(3) Bug Fixes:**

- Fixed Power save renegotiation after re-association with AP
- Fixed Watchdog reset (STA Mode) and console (MiniAP Mode) behavior in Wifi\_off command.
- Fixed HIF errors at the HW Start and Join Stage
- Fixed socket port closure after execution of SOCKD=0 command
- Fixed memory leakage associated to socket server turning on/off
- Fixed behavior of num\_assoc status variable
- Fixed firstset initialization values when not specified by the user
- Fixed conflict in WIND:55 Data Length
- Fixed FSA Append command

### **(4) Backward compatibility changes**

- Updated configuration variables ("WIND:73" displayed)
- Turned "WIND:33" message from "BSS Lost" to "Network Lost"
- Opened socket server will not be closed if the delivery of a packet fails due to high throughput