

Release Note

Topic	u-blox Connectivity Software 6.0.0 for ODIN-W2 UBX-18044579
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1 General Information

1.1 Released software image

File: ODIN-W26X-SW-6.0.0-050.bin

1.2 Scope

This release note describes the u-blox connectivity software version 6.0.0 for the stand-alone multiradio ODIN-W2 module. It covers the changes compared to the u-blox connectivity software version 5.0.1.

2 New features and improvements

2.1 Fast roaming, 802.11r

Support for fast roaming according to chapter 12 in IEEE standard 802.11.2012 has been included. The implementation supports handover message exchanges both over the Distribution System (DS) and over the air. This enables fast and efficient roaming between access points. Fast roaming, 802.11r, is only supported in station mode.

2.2 IPv4 address conflict detection (RFC 5227)

The ability to detect and solve address conflicts according to RFC 5227 has been added.

2.3 Gateway functionality using Bind command

This software version includes a gateway command to directly connect two data streams, for example BLE serial data with TCP/Wi-Fi link. This function can offload the host in gateway use cases.

2.4 Hidden SSID

When acting as an Access Point, ODIN-W2 can be set not to broadcast the SSID.

2.5 General improvements

- Default cipher suite for EAP-TLS updated to TLS_RSA_WITH_AES_128_CBC_SHA
- 802.11w disassociation and re-association improvements
- Wi-Fi startup time optimization
- Quicker recovery on link loss during association
- General robustness updates

3 Solved issues

Area	Description
Wi-Fi	4k certificates for EAP-TLS will make the module crash
Wi-Fi	Connection to ODIN-W2 in AP mode using WPA sometimes fails
Wi-Fi	Unbalanced throughput for AP, bridged connections. Incoming throughput higher than outgoing
Wi-Fi	Scan for a specified SSID can fail on 5 GHz channels
Application	Low TCP throughput when using Active at startup when setting up Wi-Fi and Ethernet as a bridge
Application	AT+UBTD reports multiple responses for the same device
Bluetooth	Duplicate incoming connections from the same peripheral device results in watchdog reset

4 Known limitations

Area	Description
Application	Settings stored in the module will be lost during software update
Application	Crash during EDM transfer with larger payload
Bluetooth	Module resets if the SPP connection is received from an OS X device
Application	Default remote peer in EDM mode fails for always connected configuration
Application	Sending too many AT commands without waiting for an ok response could cause a crash
Application	AT+UDCP accepts too long host names but connection will fail