

Release Note

Topic	u-connectScript Mesh Experimental v0.7.0 for NINA-B3 series UBX-19027614
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Date	10 July 2019

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1 General Information

1.1 Scope

This release note describes the u-connectScript Mesh Experimental software v0.7.0 for NINA-B3 series modules. **Note that it is intended only for evaluation purposes and should not be used for production. A commercial release is planned for a later date; contact u-blox for further details.**

1.2 Supported hardware

1.2.1 Modules upgradeable to u-connectScript Mesh Experimental

Product name	Ordering code	Type number	Software version
NINA-B311	NINA-B311-20B	NINA-B311-20B-00	V1.0.1
NINA-B312	NINA-B312-20B	NINA-B312-20B-00	V1.0.1

See the NINA-B3 System Integration manual [1] for information about the software update procedure.

1.3 Released software package

File	Description
NINA-B3_u-connectScript_Mesh_Experimental_v0.7.0.zip	u-connectScript Mesh Experimental software package

The software package is available for download from [NINA-B3 u-connect software](#).

1.4 New documentation

[1] Bluetooth Mesh with u-connect software Application Note, Doc. No. [UBX-19025268](#)

1.5 Software tools

1.5.1 s-center

The s-center application is available for download from [s-center evaluation software](#).

1.5.2 u-blox Script IDE

Available as plugin for Visual Studio Code. See the u-connectScript with NINA-B3 series application note [2].

2 New features

2.1 Bluetooth Mesh

The u-connectScript Mesh Experimental software supports regular node and relay node. Functions, callbacks and events have been added for the following functionality:

- Model creation including Pre-defined Bluetooth SIG Models
- Publishing data
- Receiving status and data
- Reception of beacons, Eddystone and iBeacon

For further details visit [NINA-B3 scripting at GitHub](#).

New AT commands have been added for configuration and provisioning of Mesh nodes.

For more information about using Bluetooth Mesh, see the Bluetooth Mesh with u-connect software Application Note [1].

3 Solved issues

Description	Reference
RAM retention in script deep sleep not working	UCS_DEV-89
Reset of u-connect scripting SW when no UART connected	UCS_DEV-184
Improved File Download, a Script Configuration Mode is introduced. In this mode no scripts will be started/executed. Mesh, advertising, scanning etc will not be initialized since no scripts can be run. To exit this mode and go to normal mode a reboot is needed (+CPWROFF).	UCS_DEV-435

4 Known limitations

Description	Reference
AT&W and AT+CPWROFF are required even when provisioning using a smartphone	
Preferred Receiver/Transmitter PHY disregarded. The mesh stack replies with BLE_GAP_PHY_AUTO.	
MTU is fixed at 69 as set by the nRf Mesh SDK stack.	
+UFACTORY required to delete model during development. This also deletes all scripts and any other setup.	
The mesh stack will assert if it finds unexpected meta data in its region of the flash. This will result in end-less reboots when the mesh stack is initialized. The flash can be reset with AT+UBMTCLR.	
Advertising output power for Bluetooth Mesh is fixed at 0dBm and can't be adjusted	
DestroyStream returns STREAM_ERROR_CODE_FAILED instead of STREAM_ERROR_CODE_OK.	UCS_DEV-90
The module will reset when trying to provision or configure without a configured mesh module.	UCS_DEV-496
AT+UFACTORY does not clean the flash used by mesh. A separate AT+UBTMCLR is needed after the factory reset.	UCS_DEV-516

5 References

[1] NINA-B3 System Integration Manual, Doc. No. [UBX-17056748](#)

[2] u-connectScript with NINA-B3 series, Application Note, Doc. No. [UBX-18031558](#)