Product Change Notification

Topic	**SARA-N201-02B Firmware Update**
	UBX-18023224
Author	Samuele Falcomer
Date	07-Sep-2018

1 Affected Products

Product Name	Order Code	Type No (Old)	Type No (New)	Remarks
SARA-N201	SARA-N201-02B	SARA-N201-02B-00	SARA-N201-02B-01	

2 Type of Change

- ☐ Hardware modification
- ☒ Firmware update
- ☒ Documentation update
- ☐ Others

3 Description of Change

A new firmware release is available for the affected product and will be applied in production according to the Schedule below. The changes made on the firmware are as follows:

- [u-blox id 252] On SARA-N201-02B-00, after the module power on, the device tries to register to one of the network channels (EARFCN) previously used, even if other channels with better signal conditions are available. The new FW in SARA-N201-02B-01 enables the cell-reselection by default and introduces a new AT command (+NCSEARFCN) that can be used to erase the list of module's recently used channels (EARFCN) and force the unit to register to the channel with the best network conditions. See the SARA-N2 series AT commands manual [1] for details.

- [u-blox id 253] On SARA-N201-02B-00, the first network registration process using a roaming SIM can take several minutes (in the range of 10-20 minutes) in "automatic operator selection" mode (AT+COPS=0). With the new FW in SARA-N201-02B-01, the network registration time in such conditions is reduced to 1 - 2 minutes.

- [u-blox id 212] Added the URI verification while configuring the COAP profile. This allows the current profile to be edited and used without having to store and restore the profile before using it.

- [u-blox id 247] COAP block transfer for GET, PUT and POST requests added in the commands +UCOAPCD and +UCOAPC. For more details see SARA-N2 series AT commands manual [1].

- Added +CGAUTH AT command to set the APN with user name and password.

- [u-blox id 236] The <reg_time> parameter is added to the +UMNOCONF AT command. It allows user to define the time to trigger a self-registration procedure in case China Unicom (CUCC) is selected as the intended MNO. See the SARA-N2 series AT commands manual [1] for details.

The firmware version can be identified according to the type number, as follows:

Old type number	Current firmware version		New type number	New firmware version	
SARA-N201-02B-00	Modem:	06.57	SARA-N201-02B-01	Modem:	06.57
	Application:	A07.03		Application:	A08.05

The modem and application versions can be polled from the module by sending the ATI9 command. For details, see the SARA-N2 series AT commands manual [1]. The firmware is fully tested and has passed all the release tests in u-blox.

4 Schedule

Firmware	Available
First Shipment Date	30-Jun-2018

5 Customer Impact and Recommended Action

Product with the new type number is functionally equivalent to its predecessor. Changes implemented in the new firmware are not relevant to certifications and certification grants already achieved remain valid.

It is possible to upgrade SARA-N201-02B-00 units to the new firmware.

u-blox has taken utmost care to ensure full backward compatibility to the previous version. A system check before deployment in production is however still recommended.

6 Known bugs and limitation

See the SARA-N2 IP Information Note [4].

7 Reference Documents

[1] SARA-N2 series AT Commands Manual, u-blox document UBX-16014887
[2] SARA-N2 series System Integration Manual, u-blox document UBX-17005143
[3] SARA-N2 series Data Sheet, u-blox document UBX-15025564
[4] SARA-N2 IP Information Note, u-blox document UBX-18005015