

**Notification Date:** March 28, 2023

## PRODUCT CHANGE NOTIFICATION

# Quectel Cellular Modules Russia and Iran Ban

### Product Identification

#### List of all Affected Products:

- **ICR-2000** (ICR-2031, ICR-2431, ICR-2531, ICR-2631)
- **SmartStart** (SL305)
- **SmartFlex** (SR304, SR308, SR309, SR310)
- **ICR-3200** (ICR-3211, ICR-3231)
- **ICR-4400** (ICR-4434, ICR-4453, ICR-4461)

### Change Description

#### Detailed Description of the Change:

- Quectel is implementing preventive measures in response to technology shipment embargoes imposed on Russia and Iran. These measures involve deactivating both network connections and positioning functions through firmware changes.
- The corresponding Mobile Country Code (MCC) of mobile network operators or the longitude and latitude of territorial geofences will render modules non-operational in Russia and Iran.
- These measures are intended to prevent devices listed above from operating in these embargoed countries. This action aims to protect customers from potential sanctions related to the embargoes.

### Anticipated Impact

#### Detailed Description of the Impact:

- In Russia and Iran, the routers listed above, equipped with Quectel cellular modules, will be unable to register on the network, and GNSS modules will be unable to obtain a position fix after the firmware upgrade.

## Is the Router Banned?

### Detailed Description on How to Find Out:



Please note that the procedure described below is valid for routers listed as affected on the previous page.

- To determine if your router is compatible with your country, you need to check the cellular module's firmware version.
- You can easily obtain the cellular module firmware version via the command line:
  1. Open a command line interface.
  2. Connect to your router via SSH. You should know your router's login credentials and its IP address. The SSH command should look like:  
`ssh your_username@router_ip_address.`  
After entering the password, you should securely connect to your router.
  3. Once you are connected to your router, enter the `gsmat AT+QGMR?` command, and the cellular module firmware version should appear.

```
C:\> ssh root@10.10.0.1
Password:
~ # gsmat AT+QGMR?

EC25AUXGAR08A02M1G_01.001.01.001

OK

~ #
```

Figure 1: Getting the cellular module firmware version via SSH

- Banned firmware versions are characterized by having **2xx** in their name. For example, versions like RM520NGLAAR01A07M4G\_01.**202**.01.**202** or EC25EUXGAR08A14M1G\_20.**200**.20.**200** are both considered banned.
- In the example shown in the picture above, you can see that there is no "2xx" in the cellular module firmware version, indicating that this router is not banned.
- To be more general, routers with firmware versions that match the pattern *Quectel\_module\_RxxAxxMxx\_xx.2xx.xx.2xx* are considered banned.