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| Verizon Thingspace AWS IoT SDK Release Notes  STM32L4 Discovery Kit |
| Version 1.1.0 |

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1. Introduction

Verizon Thingspace AWS SDK will help the users to build IoT solutions using Verizon Cat-M cellular network on the AWS Cloud. The SDK is based on STM32L475E Discovery MCU board connected with Quectel BG96 cat-M modem with an adapter. User can publish the MCU sensor data on a particular MQTT topic and that data can be observed on AWS IoT console account.

# Features

* Adding cellular interface support for the AWS FreeRTOS IoT SDK.
* Cellular support is implemented on Quectel BG96 cat-M modem.
* Sample application to send MCU sensor data to the AWS IoT cloud.

# Software Release information

* **AWSSDK\_V1.1.0-ST**
  + Integrated the following software components
    - AWS FreeRTOS v1.2.3
    - ST X-CUBE-CELLULAR-v1.0.0\_IoT-DK
    - Quectel BG96 Modem Firmware version - BG96MAR02A07M1G

# Hardware supported

* Hardware
  + STM32L4 Discovery kit IoT node (B-L475E-IOT01A )
  + Quectel BG96 cat-M Modem
  + Adapter
  + Verizon Cat-M SIM card

# Observations

* Application takes around 54 seconds to boot up with Cat-M.
* Memory limitations
  + SDRAM used - 94.5%
  + FLASH used - 78.4%