



Myriota

SDK 1.0 to SDK 2.0

Migration guide

User Documentation

MYRIOTA-TEC-475-SDK2MigrationGuide

July 2024

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Revision History

Rev	Date	Description of Change
1.0	12 Jul 2024	Initial version.

Related Documentation

Find the latest versions of all Myriota documentation at support.myriota.com

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Introduction

This guide is intended for Myriota customers who have products currently running SDK version 1.x.

SDK 2.0 release dated 11 June 2024 provides significant improvements in terms of network performance compared to SDK 1.x software. It is highly recommended that Myriota's customers migrate to SDK 2.0 to reap the full benefits of the new software.

Stepwise migration process

Step 1

Follow instructions on the [developer site](#) to install Myriota SDK 2.0. If you already have a local clone of the Myriota SDK repository, change to the directory and run `git pull` to update to the latest version. You can confirm that you have the correct version with `cat VERSION`. The expected result is **2.0.0** or higher.



An important change introduced in SDK 2.0 is the cross-compiler change. Please re-confirm that you have the right compiler by running `./install-test.sh`.

Step 2

Follow the [instructions](#) to update your device(s) to the SDK2.0 system image. Any device programmed with a previous version of the system image will not work.

Step 3

The network information for SDK 1.x is not compatible with SDK 2.x. If you are manually downloading network information from:

["https://static.myriota.com/access_nodes/r10/DefaultNetworkInfo"](https://static.myriota.com/access_nodes/r10/DefaultNetworkInfo), you must update the URL to ["https://static.myriota.com/n2/ModuleNetworkConfig"](https://static.myriota.com/n2/ModuleNetworkConfig) for SDK 2.x

Step 4

A number of APIs and build flags have changed relative to SDK 1.x as outlined in [API changes](#) Update your code accordingly. You can skip this step if you are not using any of the affected APIs or flags

Step 5

Compile your user app against the updated SDK

Step 6

Program your user application using [tools/updater.py](#) or [DeviceAssist tool](#)



Steps 5 & 6 are critical as any previous user application would have been erased in Step 2

Step 7

A new feature of SDK 2.x is the ability to send messages to your device. This feature is called Device Control. Please refer to [this](#) documentation for details

Release Notes Version 2.0.0

API changes:

- ❖ Adds **OnReceiveMessage** and **ReceiveMessage** APIs to retrieve device control messages
- ❖ Updates API **RxStatsGet return length** (from 3 uint16 down to 2 uint16) to retrieve downlink receive statistics
- ❖ Updates return type of API **ScheduleMessage** to `int` from `float`
- ❖ Removes API **MaxThroughput** and associated example
- ❖ Drops support for **SATELLITES=LabRx** in `rx_packet` example
- ❖ Drops support for **SATELLITES=Lab** and **SATELLITES=LabRxWithLocation**

- ❖ Removes support for satellite simulator

Improvements:

- Improves network performance
- Reduces energy consumption
- Adds support to receive messages
- Adds receive example application to demonstrate **OnReceiveMessage** and **ReceiveMessage**
- Adds battery voltage in the message of Sense&Locate example
- Adds time and location setting commands in at_modem example to support external time and location sources
- Updates cross compiler to version 13.2.1

Other changes:

Drops support for Ubuntu 18.04