

[Released on the Web]

R20TS0867EJ0100

Solution Toolkit

Rev.1.00

Aug. 01, 2022

Development Assistance Tool for Cloud

QE for OTA V1.0.0 [Technical Preview Version]

Outline

QE for OTA V1.0.0 (technical preview version), a development assistance tool for cloud, has been released on the web.

This product is available free of charge.

1. Product Features

QE for OTA (technical preview version) is one of the solution toolkits that operate on the e² studio integrated development environment.

This development assistance tool helps you easily try OTA (Over the Air) using AWS, which is a cloud service. By performing operations according to the workflow diagram, you can obtain cloud-related information, register the information necessary for performing OTA to the cloud system, embed security information into the MCU, and then perform OTA.

1.1 Workflow Diagram

➤ Setup for Cloud

Specify the settings to sign in to the cloud and set the device authentication information.

➤ Prepare OTA project

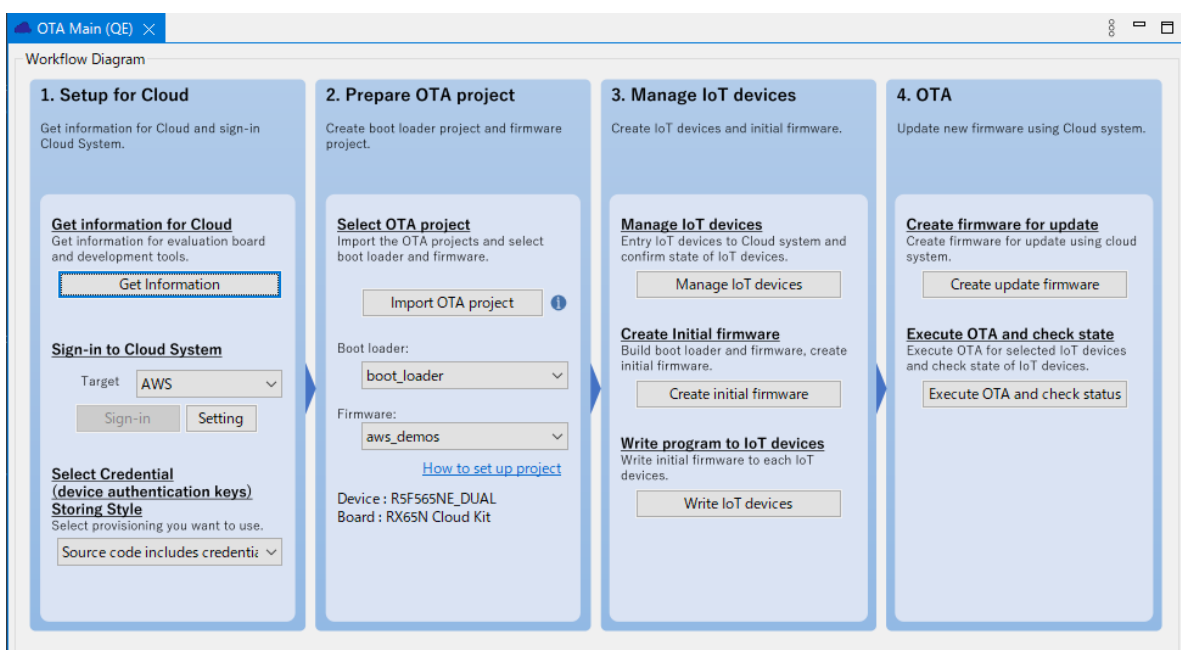
Import an OTA project.

➤ Manage IoT devices

You can add and delete IoT devices and view the IoT device information. You can also create initial firmware and write it into an IoT device.

➤ OTA

Create update firmware and execute OTA.



1.2 Manage IoT Device View

This view displays a list of IoT devices registered on the cloud. You can also add and delete IoT devices.

This view has five features: IoT Device, Initial Firmware, Update Firmware, OTA, and Firmware Log.

- IoT Device

You can view IoT device information including the device certificate and security key set during creation of an IoT device.

- Initial Firmware

You can create initial firmware by embedding information for each IoT device into the source code.

- Update firmware

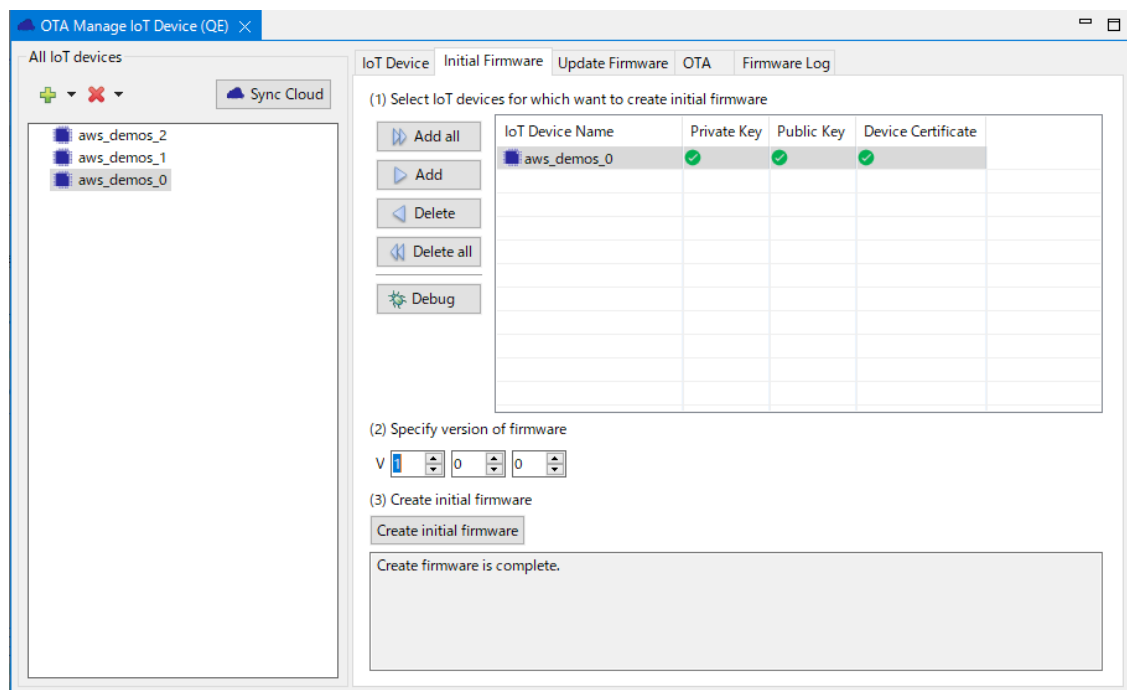
You can create update firmware by embedding information for each IoT device into the source code.

- OTA

Execute OTA.

- Firmware Log

You can view the operation log of the target board.



2. Operating Environment

- Windows 8.1, Windows 10, Windows 11 (all are 64-bit version)

- Renesas e² studio 2022-04 (or later)

Note: If your e² studio is earlier than 2022-04 , update it to 2022-04 or later.

- Renesas Flash Programmer V3.09 (or later)

- OpenSSL: Win64 OpenSSL v3.0.4 Light (or later)

- Device: RX Family RX65N group

- Board: RX65N-2MB-Starter-Kit-Plus, RX65N-Cloud-Kit

An AWS account is required to use QE for OTA (technical preview version).

3. Obtaining the Product

Download the product from the URL below.

<https://www.renesas.com/qe-ota>

For how to use the product, refer to the e² studio [Help] menu.

Revision History

Rev.	Date	Description	
		Page	Summary
1.00	Aug.01.22	-	First edition issued

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