



# RFID Data Management Pro for Mobile Computers

## Installation Guide

April 2017  
Version 2.40



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# Preface

This document explains the installation methods for the RFID Data Management Pro for Mobile Computers (hereafter referred to as "this tool"). Be sure to read this document before using this tool.

➔ Please read the **First Step Guide** first.

## ■ Abbreviations and generic terms used in documents for Fujitsu RFID Integrated Label Solution

The documents use the following abbreviations and generic terms.

Name	Abbreviation used in this document
Microsoft® Windows® 7 Professional	"Windows 7"
Microsoft® Windows® 8.1 Professional	"Windows 8.1"
Microsoft® Windows® 10 Professional	"Windows 10"
Microsoft® Windows® Mobile	"Windows Mobile"
Terminals where Windows 7, Windows 8.1, or Windows 10 has been installed Personal computer	"PC"
Reader/writer devices	handheld device, HHT (Handheld Terminal)
RFID tags	Tag
Fujitsu's RFID Integrated Label - 8Kbyte (Large/Medium/Small)	"Large capacity RFID tag" or "high memory tag"
Fujitsu's RFID Integrated Label - 1Kbyte (Large/Medium/Small) Fujitsu's 2-kilobit RFID tags	"Tag"

## ■ Trademarks

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## ■ ATA (Air Transport Association of America) Spec 2000 Chapter 9-5

- This tool is designed to read and write data on tags that are compliant with the specification for Radio Frequency Identification (RFID) on Parts in ATA Spec2000 Chapter 9-5.

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## ■ High Risk Activity

- This product is designed and manufactured as contemplated for general use, including without limitation, general office use, personal use and household use, but is not designed and manufactured as contemplated for use accompanying fatal risks or dangers that, unless extremely high safety is secured, could lead directly to death, personal injury, severe physical damage or other loss (hereinafter called "High Safety Required Use"), including without limitation, nuclear reaction control, aircraft flight control, air traffic control, mass transport control, life support, and weapon launch control. The customer shall not use this product without securing the sufficient safety required for the High Safety Required Use.

## ■ Notes on export procedures

- When exporting or providing this product and this document, check the regulations under the Foreign Exchange and Foreign Trade Law and the laws and regulations relating to US export control, and complete the necessary procedures.

## ■ Screenshots and illustrations

- The screenshots and illustrations in this document are only examples, and the actual screens may be slightly different depending on the environment that you are using.

## ■ Other Notes

- No part of this document may be reproduced or reused for other purposes without the express written permission of Fujitsu Limited.
- The content of this document may change without prior notice.

## ■ Revision history

Edition	Date issued	Changes
Version 2.00	March 2014	Separated from User's Guide
Version 2.10	June 2014	Changed Production Name
Version 2.20	October 2014	Commercialization Version
Version 2.30	March 2015	Addition of procedure
Version 2.31	June 2015	Installation procedure changed.
Version 2.32	October 2015	Installation procedure changed.
Version 2.33	October 2016	Installation procedure changed.
Version 2.40	April 2017	Enhancement for ATA Spec 2000 Rev. 2016 support.

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# 1 Overview

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## 1.1 Installation Procedure Overview

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The following shows the overview of installation operations.

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◆ **Reference:** •If an older version of this tool is already installed and you want to update it, please refer to 1.2 Update Procedure Overview.

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- (1) Uninstall present RFID Firmware if RFID Firmware is not 2.2.70002.(refer to 4.3 Uninstall Drivers and Firmware)  
Install and setup the “MCRFIDInstall\_2.2.7002.CAB” (refer to 3.2 Install Drivers and Firmware).
- (2) Install the RFID Data Management Pro for Mobile Computers. (refer to 2.1 Install the RFID Data Management Pro for Mobile Computers
- (3) License activation and testing. (refer to 2.2 License Activation)

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## 1.2 Update Procedure Overview

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The update procedure from older version to V01L02R1 is as below.

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- |                  |   |
|------------------|---|
| <b>! Caution</b> | • If additional TEIs are configured, it will be necessary to manually reconfigure them after the software update. |
|------------------|---|
- 

- In the case that additional TEIs are configured;
  - (1) Confirm the existing additional TEIs in TEI Settings application before updating.
  - (2) Uninstall the older version of the RFID Data Management Pro (refer to 4.1 Uninstall the RFID Data Management Pro for Mobile Computers).
  - (3) Reinstall the latest version of the RFID Data Management Pro (refer to 1.1 Installation Procedure Overview).
  - (4) Reconfigure the additional TEI.
  
- In the case that no additional TEIs are configured;
  - (1) Uninstall the older version of the RFID Data Management Pro (refer to 4.1 Uninstall the RFID Data Management Pro for Mobile Computers).
  - (2) Reinstall the latest version of the RFID Data Management Pro (refer to 1.1 Installation Procedure Overview).

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## 1.3 Uninstallation Procedure Overview

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Refer to 4 Uninstallation for the procedure of uninstallation.



## 1.4 Installation Prerequisites

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### 1.4.1 Software Requirements

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- Windows Mobile 6.5 Classic
- .NET Compact Framework 3.5
- RFIDDataAccess\_HHT(Motorola\_MC9190-Z(EU))(L).CAB (provided with the CD)
- RFIDDataAccess\_HHT(Motorola\_MC9190-Z(US))(L).CAB (provided with the CD)
- PowerConfig.CAB (provided with the CD)
- MCRFIDInstall\_2.2.7002.CAB (provided with the CD)
- MC9190Z\_AUDIO\_20150325.ZIP (provided with the CD)

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◆ **Reference:** •In addition to above software, a tool to transfer files from the CD to the Mobile Reader is required. In this document, the Microsoft Mobile Device Center is used to connect the handheld device to a PC. For more information about the Windows Mobile Device Center, please check the following Microsoft webpage: <http://support.microsoft.com/kb/931937>

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## 2 Installation

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### 2.1 Install the RFID Data Management Pro for Mobile Computers

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If the following operating procedure completes normally, the RFID Data Management Pro for Mobile Computers application will have been installed.

Note: If you have purchased the bundled version, this tool is already installed. In this case, perform only the procedures in section "3 Set up Zebra MC9190Z"

#### ■Operating procedure

- (1) Start the handheld device.
- (2) Perform the procedures in section "3 Set up Zebra MC9190Z"
- (3) Insert the setup CD that comes with this tool into the CD drive on a PC.
- (4) Connect the handheld device to the PC using the Microsoft Windows Mobile Device Center.
- (5) Open the CD using Explorer, and then use the file synchronization function of the Microsoft Mobile Device Center to copy the installation file for the handheld device. Following table shows the correspondence between the model of the handheld device and the installer file.

Manufacturer	Model	Installer file
Zebra	MC9190-Z(EU)	RFIDDataAccess_HHT(Motorola_MC9190-Z(EU))(L).CAB
Zebra	MC9190-Z(US)	RFIDDataAccess_HHT(Motorola_MC9190-Z(US))(L).CAB

(6) Execute the copied Cab File on the handheld device.



(7) Click the **OK** button.



If you need more storage space, you can remove installed programs.



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## 2.2 License Activation

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This section explains about licensing of this tool. The license key is required to activate this tool and the procedure to receive the “License Key” is explained in section “2.2.1 Commercial License”. This tool also provides the trial license for 30-day use without “License Key” and the procedure to start this tool in trial use is explained in section “2.2.2 Trial License”.

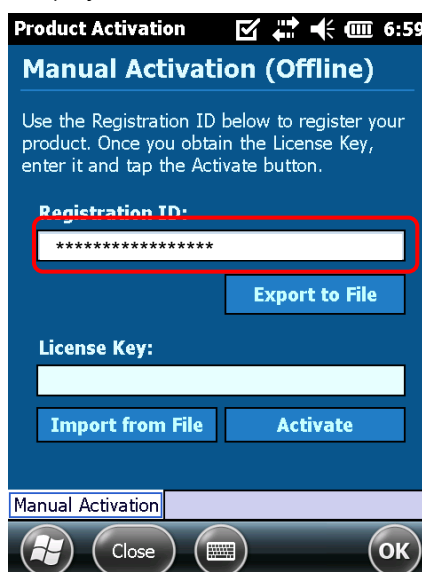
### 2.2.1 Commercial License

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- (1) Click the "RFID Data Management Pro" icon.

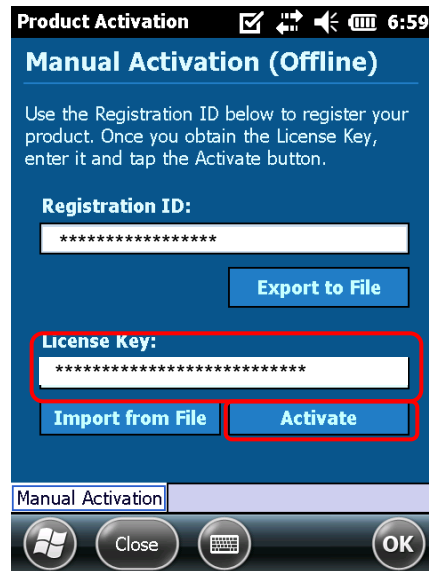


- (2) Check the “Registration ID” and send the information to Fujitsu Customer Support ([ait-support@ml.css.fujitsu.com](mailto:ait-support@ml.css.fujitsu.com)) by email.

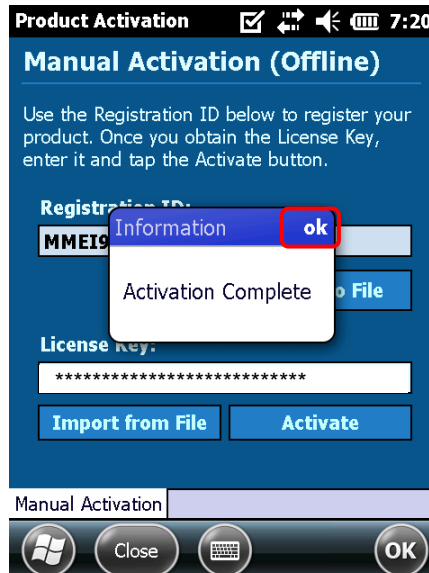


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- ◆ **Reference:**
- After receiving the “Registration ID”, Fujitsu Customer Support will send the “License Key” by email.
  - While waiting the license key, it is also possible to use this tool as trial mode. Please refer to “2.2.2 Trial License” for more details.
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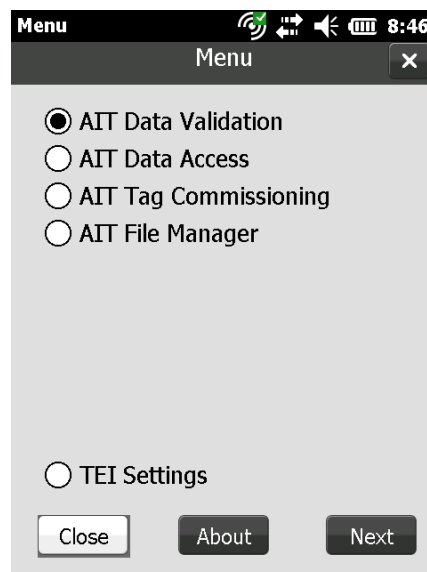
(3) Enter the License Key and click the **Activate** button.



(4) Click the **ok** to close the pop-up message.



(5) The Program starts.



Note: After the installation file has been extracted, the application will be installed in the following folder configuration.

\Program Files\Fujitsu\AIT\RFIDDataAccess\

\data

\log

\validation

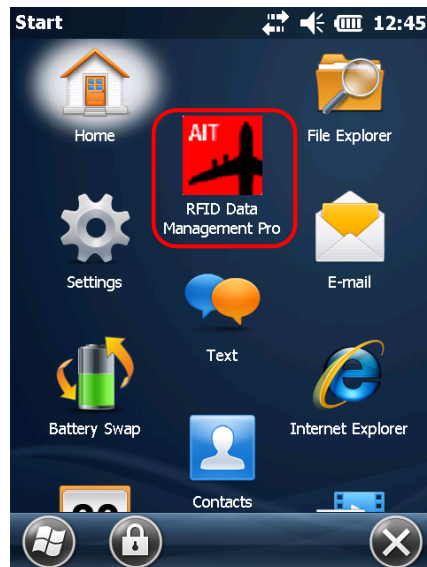
\write

\read

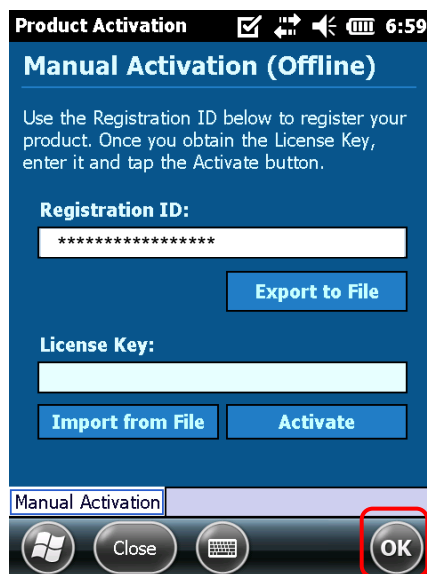
This completes the installation procedure for this tool.

## 2.2.2 Trial License

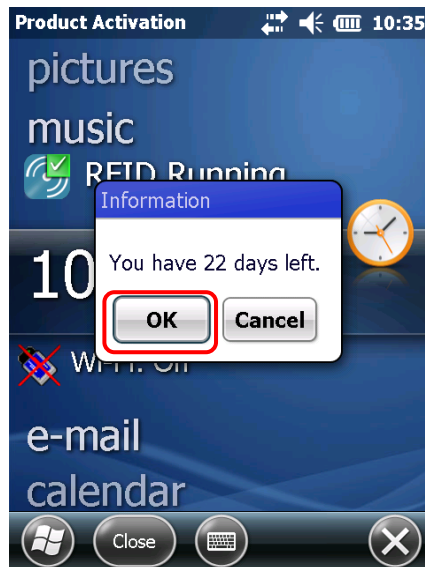
- (1) Click the "RFID Data Management Pro" icon.



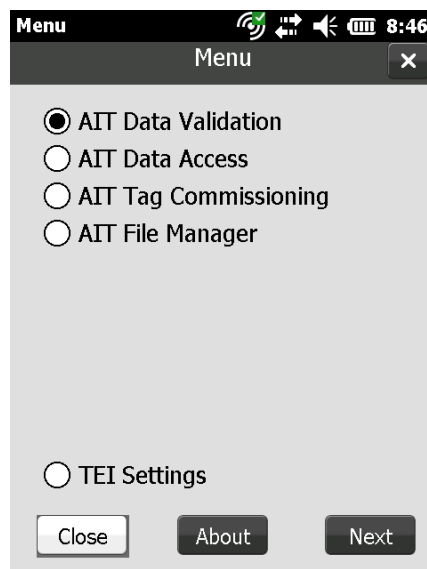
- (2) Click the **OK** button.



(3) Click the **OK** button (the remaining trial period is displayed).



(4) The application will start up.

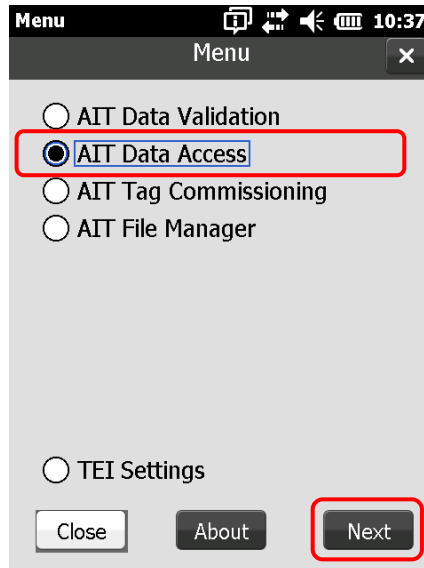




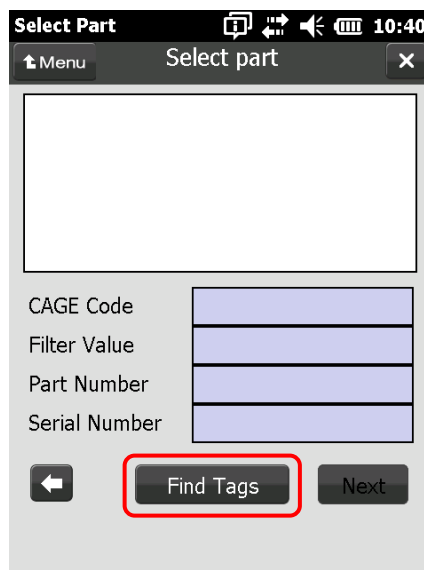
### 2.2.3 Testing

Below shows the procedure to confirm if the software installation has been correctly completed.

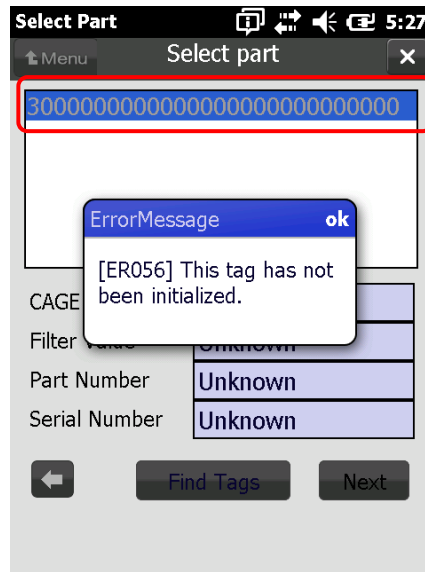
- (1) Select the **AIT Data Access**, and then, click the **Next** button



- (2) Put RFID tags near the antenna, and then, click the **Find Tags** button.



(3) RFID tags are detected and displayed on the screen.



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- ◆ **Reference:** • If above error message is displayed, there is no problem on this testing. The message is displayed when the detected tag is not initialized in the ATA format.
- 

If found tags are displayed on screen, the installation has been completed correctly. If not, please contact Fujitsu Customer Support.

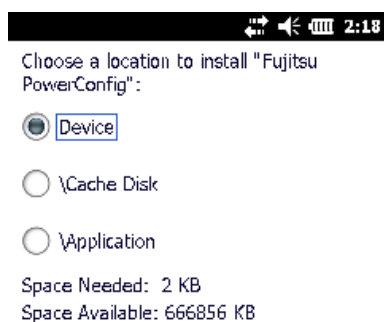
## 2.3 Install PowerConfig.CAB

PowerConfig.CAB is used to manage the backlight configuration of handheld reader. If the following operating procedure completes normally, the power configuration of handheld reader will be changed as follows:

- (1) On battery power, backlight is disabled and standby starts if device is not used for 3 minutes.  
On external power such as using cradle or AC adapter, backlight will not be disabled and standby will not start.  
Conduct this procedure if necessary.

### ■Operating procedure

- (2) Copy PowerConfig.CAB into a temporary folder on handheld device.  
Click PowerConfig.CAB on the handheld device.  
Click the "Install" when following screen is displayed.



- (3) After the installation completes, click the **OK** button.



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## 3 Set up Zebra MC9190Z

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This section explains the setup procedure for the Zebra MC9190Z.

### 3.1 Preparation

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Locate the following files:

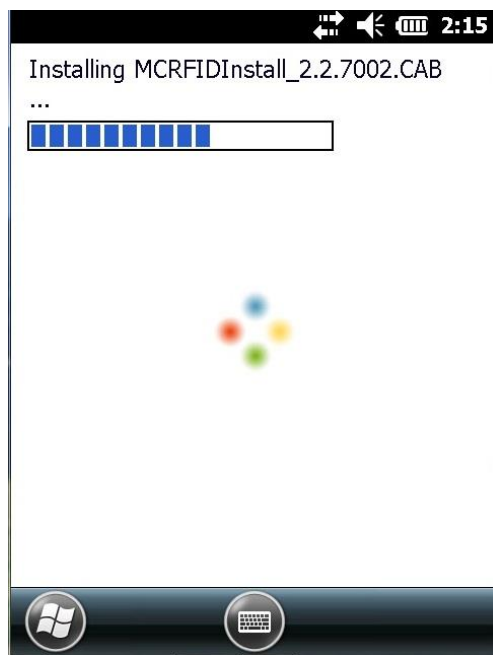
- “MCRFIDInstall\_2.2.7002.CAB” (provided by Zebra)
- “MC9190Z\_AUDIO\_20150325.ZIP” (provided by Zebra)

### 3.2 Install Drivers and Firmware

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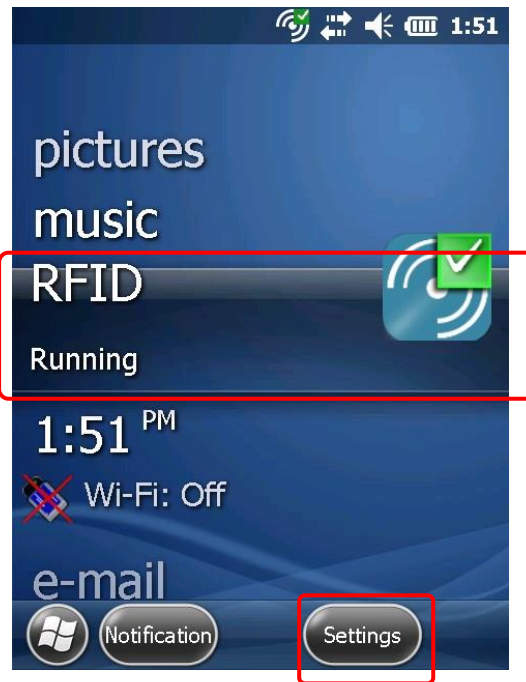
#### ■ Operating procedure

- (1) Copy the “MCRFIDInstall\_2.2.7002.CAB” file to the "My Device" folder.
- (2) Click the “MCRFIDInstall\_2.2.7002.CAB”.
- (3) The installation will start.

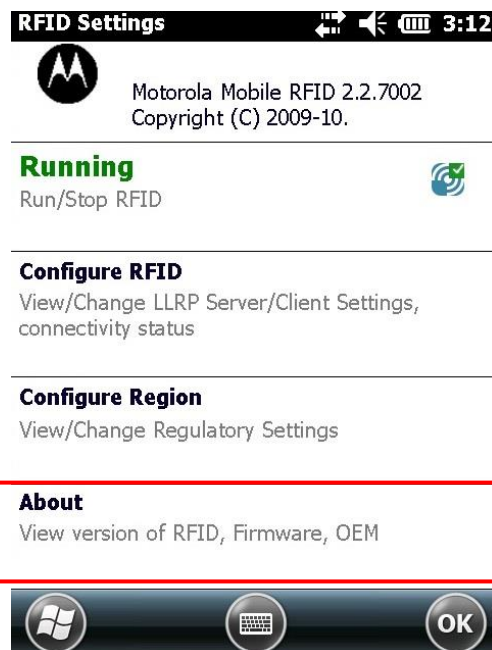


- (4) When the installation completes, the MC9190Z will restart automatically.

- (5) Check the versions of the driver and firmware that have been installed.  
Select **RFID** from the desktop screen and then click the **Settings** button.



- (6) The **RFID Setting** screen will be displayed, and then click the **About**.

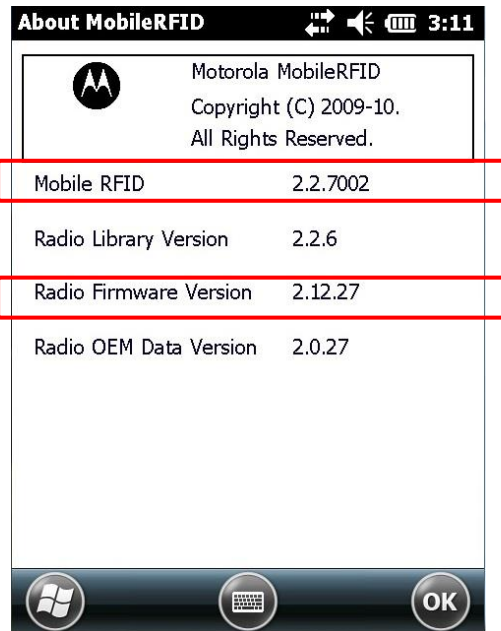


- (7) Check the version information in the **About Mobile RFID** screen.

Check that the following version information is displayed:

Mobile RFID 2.2.7002

Radio Firmware Version 2.12.27



This completes the installation procedure for the drivers and firmware.

### 3.3 Install AUDIO patch

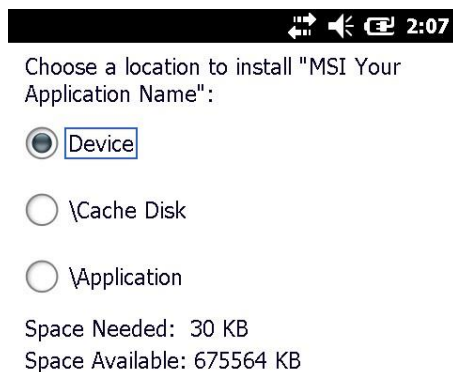
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In the case of OEM version 02.41.0003, install the AUDIO patch according to the following procedure.

- ! Caution** • OEM version 04.47.0012 is not supported for the AUDIO patch which is the program to control sound volume. In the case of OEM version 04.47.0012, please skip this section.
- 

#### ■ Operating procedure

- (1) Unzip the "MC9190Z\_AUDIO\_20150325.ZIP".
- (2) Copy the "NTFYAPI32.CAB" directly on the "My Device" directory.
- (3) Extract the "NTFYAPI32.CAB".
- (4) Choose the "Device" (default) and click the "Install". [Fig.1]
- (5) When the installation completes, click the "OK". [Fig.2]



[Fig.1]



**NTFYAPI32.cab was successfully installed on your device.**

If you need more storage space, you can remove installed programs.

The program you have installed may not display properly because it was designed for a previous version of Windows software.



[Fig.2]



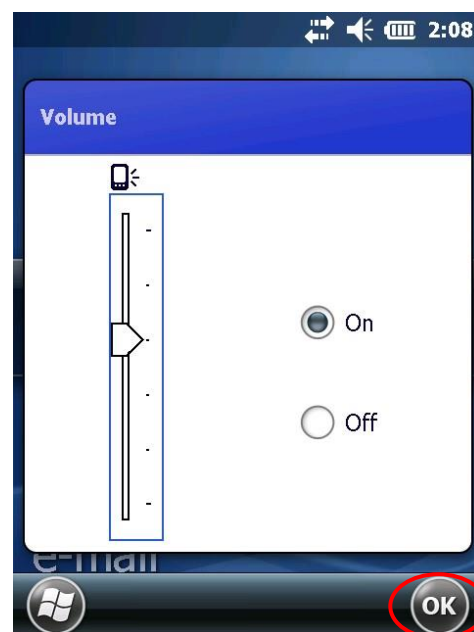
If this patch has already been applied, the following screen is displayed. [Fig.3]



[Fig.3]

- (6) Cold boot
- Pop battery out halfway.
  - Press and hold trigger.
  - Press and release red power button.
  - Release trigger.
  - Push battery back in.
  - Press red power button and allow device to boot up.

- (7) Audio volume setting



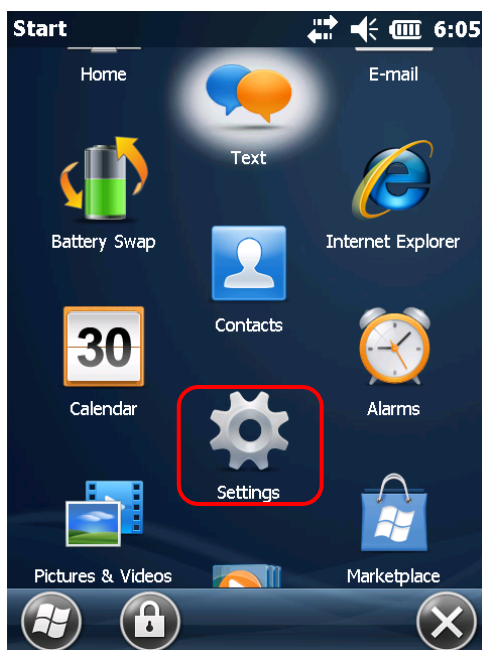
## 4 Uninstallation

### 4.1 Uninstall the RFID Data Management Pro for Mobile Computers

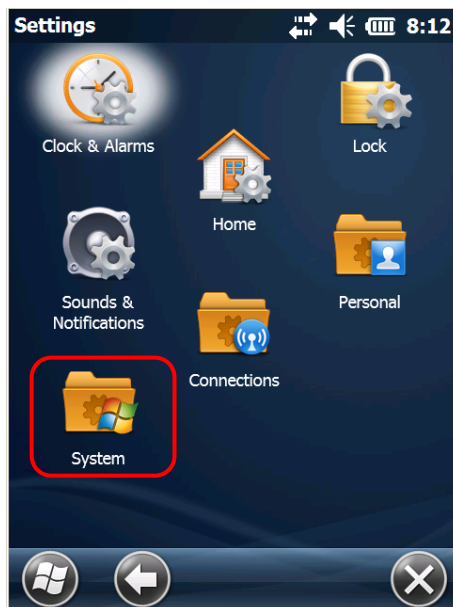
This section explains how to uninstall the RFID Data Management Pro for Mobile Computers.

#### ■Operating procedure (handheld)

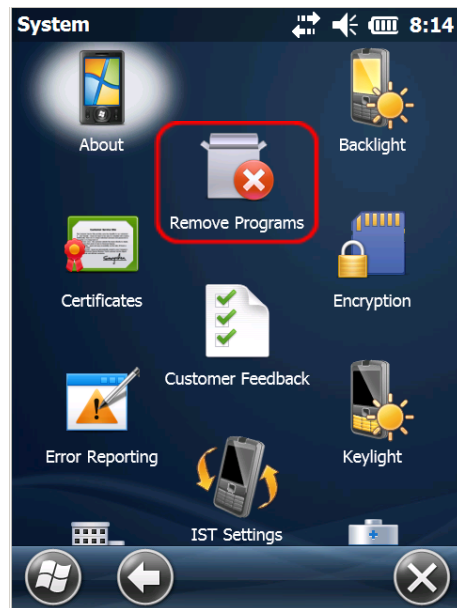
- (1) Select the **Settings** from the **Start** menu.



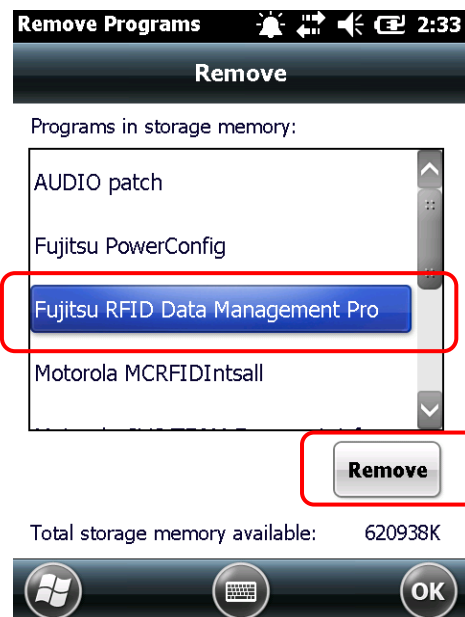
- (2) Select the **System** from the **Settings** menu.



- (3) Select the **Remove Programs** from the **System** menu.



- (4) Select the **Fujitsu RFID Data Management Pro** from the **Remove Programs** list and then click the **Remove** button.



Check that the Fujitsu RFID Data Management Pro has been deleted from the Remove Programs list.

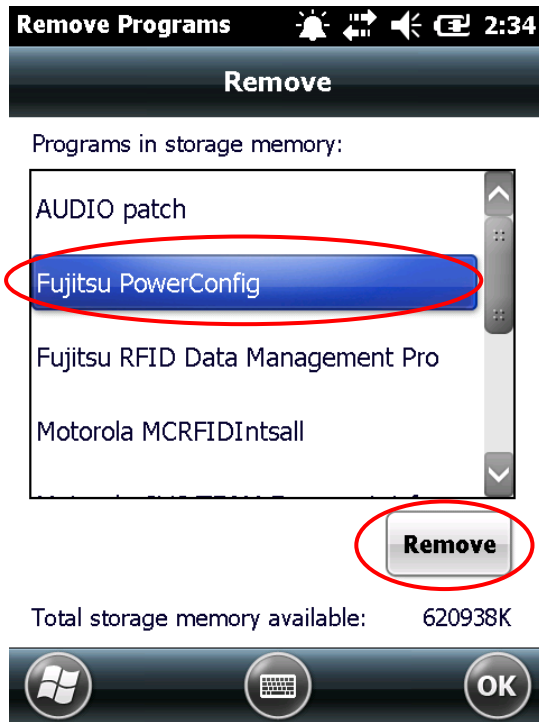
This completes the uninstallation procedure for this tool.

- 
- ! Caution**
- Folders that contain the files created after the installation will not be deleted.
  - If these folders need to be deleted completely, use File Explorer or a similar tool to directly delete the "\\Program Files\\Fujitsu\\AIT\\RFIDDataAccess" folder.
-

## 4.2 Uninstall PowerConfig.CAB

### ■Operating procedure

Click the **Start** menu → **Settings** → **System** → **Remove Program**. Select the **Fujitsu PowerConfig** from the **Remove Programs** list and then click the **Remove** button.

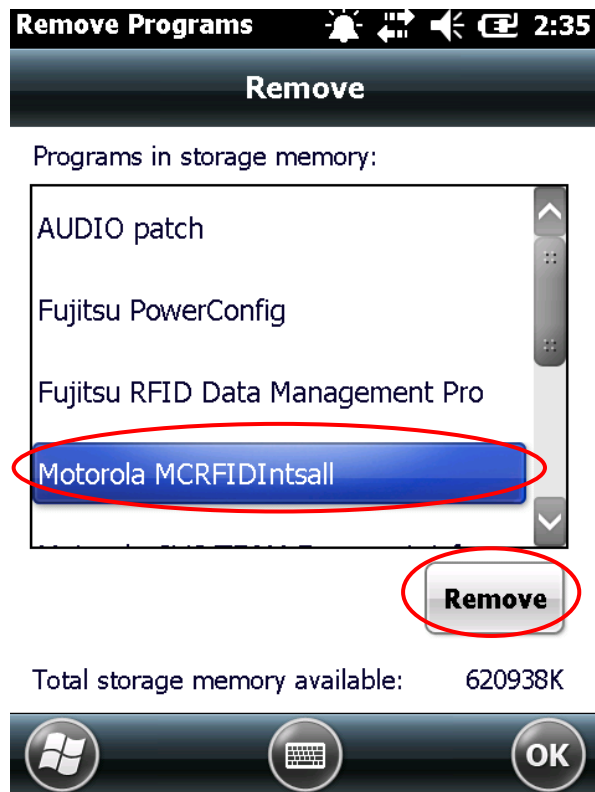


Check that the Fujitsu PowerConfig has been deleted from the Remove Programs list.

## 4.3 Uninstall Drivers and Firmware

### ■ Operating procedure

Click the **Start** menu → **Settings** → **System** → **Remove Program**. Select the **Motorola MCRFIDIntsall** from the **Remove Programs** list and then click the **Remove** button.



Check that the Motorola MCRFIDIntsall has been deleted from the Remove Programs list.

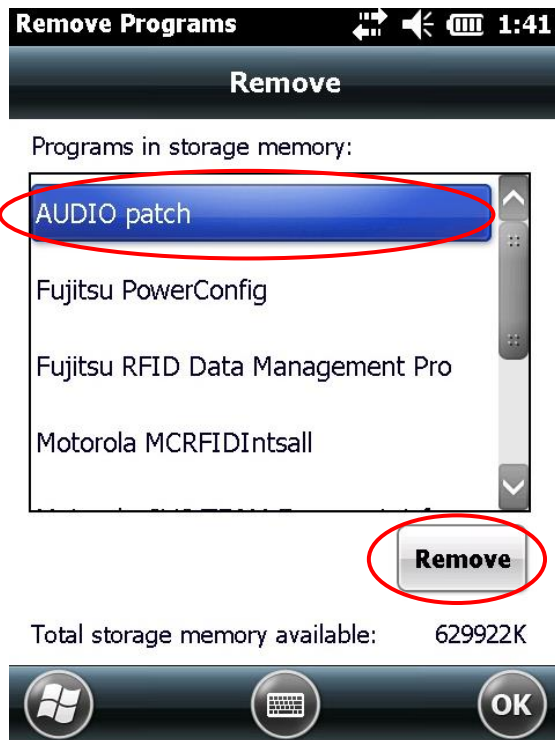
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## 4.4 Uninstall AUDIO patch

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### ■ Operating procedure

Click the **Start** menu → **Settings** → **System** → **Remove Program**. Select the **AUDIO patch** from the **Remove Programs** list and then click the **Remove** button.



Check that the AUDIO patch has been deleted from the Remove Programs list.