RFID Data Management Pro for Mobile Computers

Installation Guide

October 2016
Version 2.33
Preface

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

■ Abbreviations and generic terms used

This document uses the following abbreviations and generic terms.

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<td>Microsoft® Windows® 7 Professional</td>
<td>Windows 7</td>
</tr>
<tr>
<td>Microsoft® Windows® Mobile</td>
<td>Windows Mobile</td>
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<tr>
<td>Terminals where Windows 7 has been installed</td>
<td>PC</td>
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<tr>
<td>Personal computer</td>
<td>handheld device, HHT (Handheld Terminal)</td>
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<td>Reader/writer devices</td>
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<tr>
<td>RFID tags</td>
<td>Tag</td>
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<tr>
<td>Fujitsu’s RFID Integrated Label – 8Kbyte</td>
<td>&quot;Large-capacity RFID tags&quot;</td>
</tr>
<tr>
<td>(Large/Medium/Small)</td>
<td>&quot;high memory tags&quot;</td>
</tr>
<tr>
<td>MAINtag's 8 kilobyte large-capacity RFID tags</td>
<td></td>
</tr>
<tr>
<td>Fujitsu’s RFID Integrated Label – 1Kbyte</td>
<td>Tags</td>
</tr>
<tr>
<td>(Large/Medium/Small)</td>
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<tr>
<td>Fujitsu's 2-kilobit RFID tags</td>
<td></td>
</tr>
<tr>
<td>NXP's RFID tags with a 240-bit EPC area and a 512-bit</td>
<td>&quot;Small-capacity RFID tags&quot;,</td>
</tr>
<tr>
<td>user area, and Impinji's RFID tags with a 128-bit</td>
<td>&quot;small-capacity tags&quot;, &quot;low memory tags&quot;</td>
</tr>
<tr>
<td>EPC area and a 512-bit user area</td>
<td>or just &quot;tags&quot;</td>
</tr>
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<td></td>
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</table>

■ Trademarks

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- Other company names and product names in this manual are trademarks or registered trademarks of respective companies. Note that system names and product names in this manual are not always followed by trademark symbols such as ® or ™.

■ 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.

■ 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 manual are only examples, and the actual screens may be slightly different depending on the environment that you are using.

**Relevant Manuals**
- The following documents are also relevant to the present manual:
  - RFID Data Management Pro for Mobile Computers (Handheld) User’s Guide

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**Revision history**

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<td>March 2014</td>
<td>Separated from User’s Guide</td>
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<td>Changed Production Name</td>
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<td>October 2014</td>
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1 Installation Prerequisites

1.1 Quick Installation Guide

The following shows the overview of installation operations.

(1) Log in to the PC (as Administrator or with admin rights).
(2) Insert the setup CD that comes with this tool into the CD drive on a PC.
(3) Connect the MC9190-Z via USB cable to the PC and start the Mobile Reader.
(4) Copy the files e.g. via the Windows Mobile Device Center to the Mobile Reader.
(5) Click the “RFIDDataAccess_………CAB” file on the mobile Reader.
(6) Check and note down the “Registration ID”.
(7) Send Information about Registration ID to Fujitsu Technical Support.
(8) Continue the installation after having received the license key for activation.
(9) Log in again, click the “RFIDDataAccess………”, enter the license key.
(10) Install the PowerConfig.CAB.
(11) Install and setup the “MCRFIDInstall_2.2.7002.CAB”.
(12) Install the Audio Patch “MC9190Z_AUDIO_20150325.ZIP”.
(13) Re-name (optional) the Reader (e.g. to identify if several Readers are used).
(14) Reboot (cold) the Mobile Reader.

1.2 Software Requirements

- Windows Mobile 6.5 Classic
- .NET Compact Framework 3.5
- RFIDDataAccess_HHT(Motorola_MC9190-Z(EU))(L).CAB (provided with the CD)
- The upfront requested license key for activation
- PowerConfig.CAB (provided with the CD)
- MCRFIDInstall_2.2.7002.CAB (provided with the CD)
- MC9190Z_AUDIO_20150325.ZIP (provided with the CD)

◆ 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
2 Installation

2.1 Installing the RFID Data Management Pro for Mobile Computers

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 Setting up Zebra MC9190Z"

■ Operating procedure

Start the handheld device.
Perform the procedures in "3 Setting up Zebra MC9190Z"
Insert the setup CD that comes with this tool into the CD drive on a PC.
Connect the handheld device to the PC using the Microsoft Windows Mobile Device Center.
Open the CD using Explorer, and then use the file synchronization function of the Microsoft Windows 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 folder of the installer.

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>Model</th>
<th>Installer file</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zebra</td>
<td>MC9190-Z(EU)</td>
<td>RFIDDataAccess_HHT(Motorola_MC9190-Z(EU))(L).CAB</td>
</tr>
<tr>
<td>Zebra</td>
<td>MC9190-Z(US)</td>
<td>RFIDDataAccess_HHT(Motorola_MC9190-Z(US))(L).CAB</td>
</tr>
</tbody>
</table>
(1) Execute the copied Cab File on the handheld device.

Installing
RFIDDataAccess_HHT(Motorola_MC919
Z(EU))(L).CAB ...

(2) Click the OK button.

RFIDDataAccess_HHT(Motorola_M
Z(EU))(L).CAB was successfully
installed on your device.

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

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 “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 “2.2.2 Trial License”.

2.2.1 Commercial License

(1) Click the “RFID Data Management Pro” icon.

(2) Check the “Registration ID” and send the information to Fujitsu technical support (ait-support@ml.css.fujitsu.com) by email.

Reference: After receiving the “Registration ID”, Fujitsu technical 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 see “2.2.2 Trial License” for more details.
(3) Enter the License Key and click the **Activate** button.

(4) "ok" is clicked to the pop up MSG.
(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

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).

![Screen showing product activation with remaining trial days displayed](image)

(4) The application will start up.

![Screen showing menu options](image)
2.3 Installing 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 “Install” when following screen is displayed.

(3) After the installation completes, click the OK button.
3 Setting up Zebra MC9190Z

This appendix explains the setup procedure for the Zebra MC9190Z.

3.1 Preparation

Locate the following files:
- “MCRFIDInstall_2.2.7002.CAB” (provided by Zebra)
- “MC9190Z_AUDIO_20150325.ZIP” (provided by Zebra)

3.2 Installing Drivers and Firmware

■ Operating procedure
(1) Copy the “MCRFIDInstall_2.2.7002.CAB” file to the "My Device" folder.
(2) Click “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 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 concludes the procedure for installing drivers and firmware.
3.3 Installing AUDIO patch

- Operating procedure
  (1) Unzip “MC9190Z_AUDIO_20150325.ZIP”.
  (8) Copy “NTFYAPI32.CAB” directly on the “My Device” directory.
  (2) Extract “NTFYAPI32.CAB”.
  (3) Choose “Device” (default) and click “Install”. [Fig.1]
  (4) When the installation completes, click “OK”. [Fig.2]

Choose a location to install "MSI Your Application Name":

- Device
- \Cache Disk
- \Application

Space Needed: 30 KB
Space Available: 675564 KB

[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]

(5) 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.

(6) Audio volume setting
4 Uninstallation

4.1 Uninstalling the RFID Data Management Pro for Mobile Computers

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

Operating procedure (handheld)

(7) Select Settings from the Start menu.

(8) Select System from the Settings menu.

(9) Select Remove Programs from the System menu.
(10) Select Fujitsu RFID Data Management Pro from the Remove Programs list and then click the Remove button.

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

This completes the uninstallation procedure for this tool.

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**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.

This completes the uninstallation procedure for this tool.
4.2 Uninstalling PowerConfig.CAB

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

![Remove Programs dialog box with Fujitsu PowerConfig selected and Remove button highlighted. Total storage memory available: 620938K]
4.3 Uninstalling Drivers and Firmware

- Operating procedure
  Click Start menu → Settings → System → Remove Program. Select Motorola MCRFIDIntsal from the Remove Programs list and then click the Remove button.
4.4 Uninstalling AUDIO patch

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

![Remove Programs List]

- AUDIO patch
- Fujitsu PowerConfig
- Fujitsu RFID Data Management Pro
- Motorola MCRFIDInsall

Total storage memory available: 629922K