



# Fujitsu RFID Integrated Label Solution

## First Step Guide

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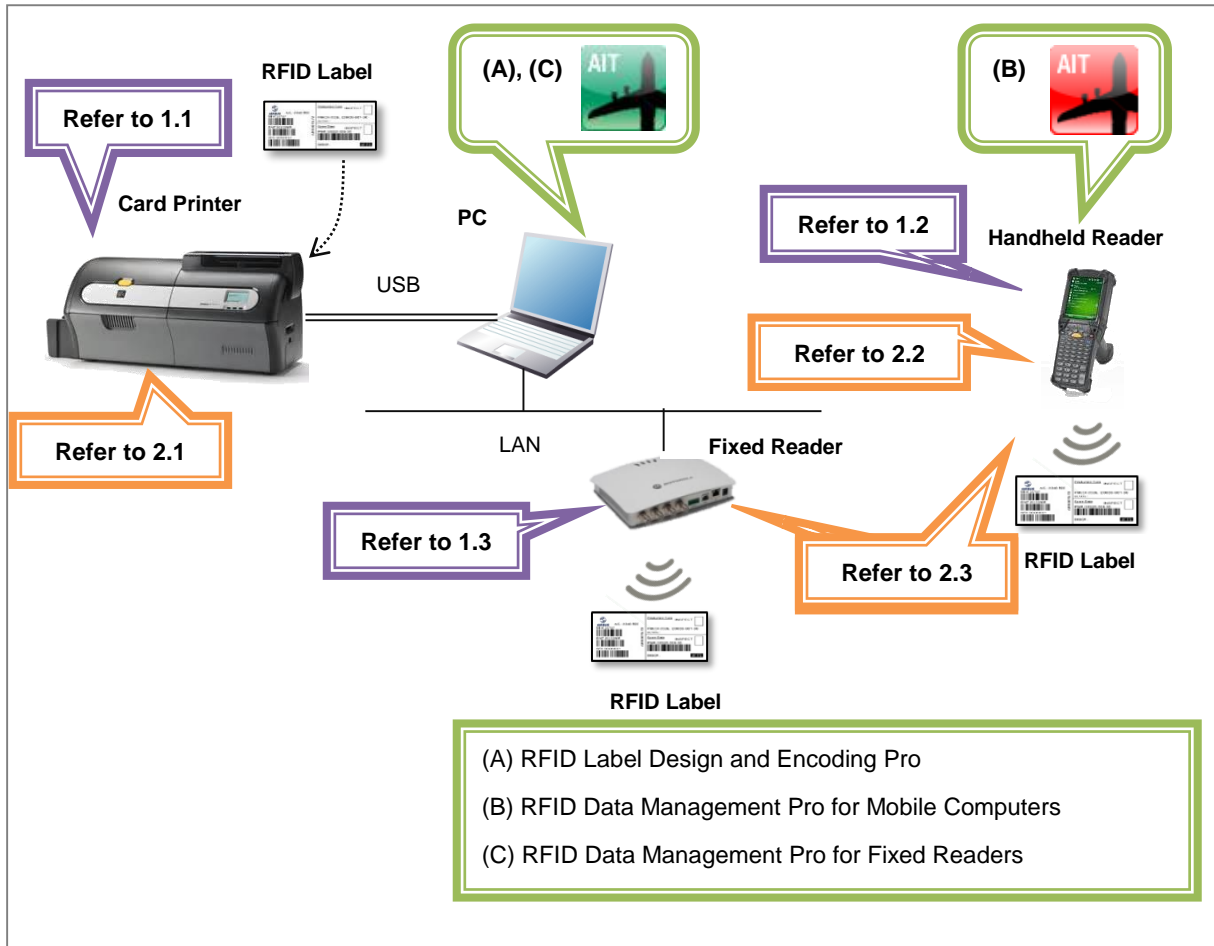
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# 1 Preparation for Tag Commissioning

This chapter explains the preparation for using RFID Integrated Label.

(Hereafter referred to as "RFID Label")

## System Overview



## 1.1 RFID Label Design and Encoding Management Pro

### 1.1.1 Setting up the Card Printer Device

- ❑ Refer to the *RFID Label Design and Encoding Management Pro Installation Guide* for information on how to set up the Card Printer device.

### 1.1.2 Installing Printer Driver

- ❑ Refer to the *RFID Label Design and Encoding Management Pro Installation Guide* for information on how to install and uninstall this driver.

### 1.1.3 Installing Label Design and Encoding Management Pro

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- ❑ Refer to the *RFID Label Design and Encoding Management Pro Installation Guide* for information on how to install and uninstall this tool.

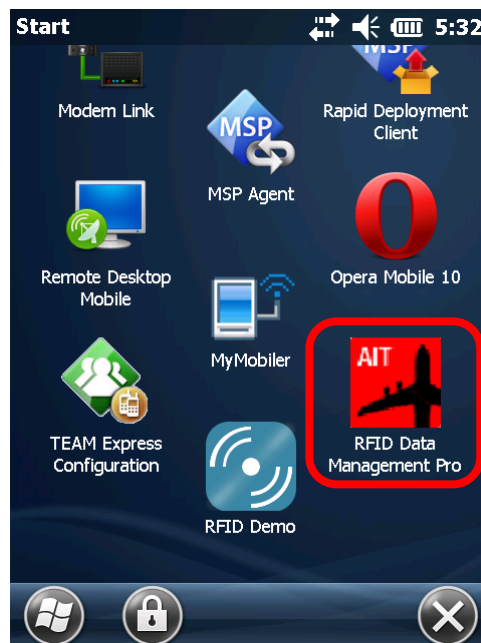
## 1.2 RFID Data Management Pro for Mobile Computers

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### 1.2.1 Confirmation of software

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Confirm **RFID Data Management Pro for Mobile Computers** is correctly installed in Handheld Device. If it is correctly installed, **RFID Data Management Pro** is registered under the **Start** menu.



- ❑ Refer to the *RFID Data Management Pro for Mobile Computers Installation Guide* for information on how to set up the reader/writer device.

## 1.3 RFID Data Management Pro for Fixed Readers

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### 1.3.1 Setting up the Reader/Writer Device

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- ❑ Refer to the *RFID Data Management Pro for Fixed Readers Installation Guide* for information on how to set up the reader/writer device.

### 1.3.2 Installing RFID Data Management Pro for Fixed Readers

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- ❑ Refer to the *RFID Data Management Pro for Fixed Readers Installation Guide* for information on how to install and uninstall this tool.

## 1.4 Printer

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### 1.4.1 Setting up Zebra ZXP Series 7

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- ❑ Refer to the *Zebra ZXP SERIES 7 User's Manual (P1036101-001)* for information on how to install and setup the printer.

### 1.4.2 Configuring Network Settings

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If the printer is connected to the Ethernet network, configure the **Network Settings** with the following procedure.

- (1) Power on the printer and wait for **READY**



- (2) Press the **MENU** button



(3) If you prefer DHCP to static IP address, skip to (12)

(4) Press the **DOWN** button until the **NETWORK SETTINGS** is highlighted, then press the **SELECT** button



(5) Press the **DOWN** button until the **DHCP MODE** is highlighted, then press the **SELECT** button



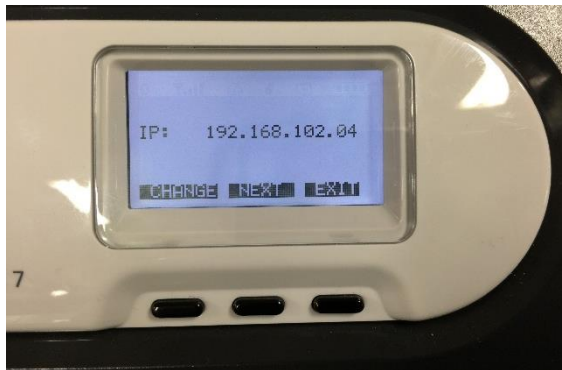
(6) Press the **DOWN** button until the **DHCP DISABLE** is highlighted, then press the **SELECT** button



(7) Press the **UP** button until the **RETURN** is highlighted, then press the **SELECT** button



- (8) Press the **DOWN** button until the **SET IP ADDRESS** is highlighted, then press the **SELECT** button



- (9) Change to the assigned IP address using the **CHANGE** and the **NEXT** button, then press the **EXIT** button



- (10) Set the **SUBNET MASK** and the **DEFAULT GATEWAY** appropriately using the same method to the IP ADDRESS

- (11) Press the **UP** button until the **SAVE SETTINGS** is highlighted, then press the **SELECT** button





- (12) Press the **DOWN** button until the **ENCODER SETTINGS** is highlighted, then press the **SELECT** button



- (13) Press the **DOWN** button until the **ETHERNET ENCODING** is highlighted, then press the **SELECT** button

- (14) Press the **UP** button until the **RETURN** is highlighted, then press the **SELECT** button

- (15) Cycle the power of the printer

### 1.4.3 Installing attachments for the Feeder Cartridge

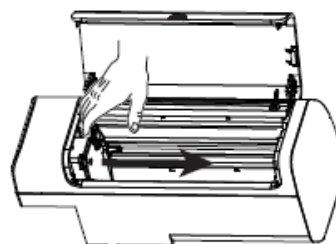
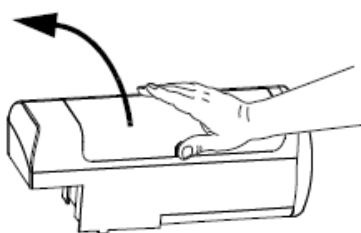
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Install the attachments for the Feeder Cartridge in the proper way in order to prevent the feeding problems with Fujitsu RFID Integrated Labels

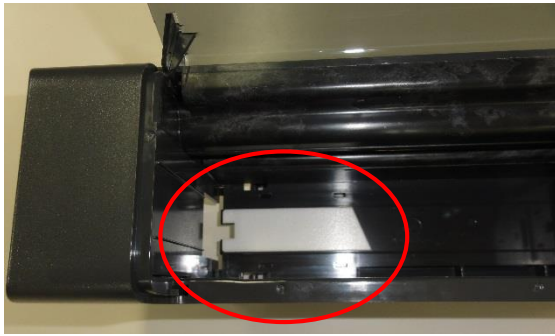
- (1) Prepare a set of the **Underlay Sheets** as shown in the picture below



- (2) Open the Feeder Cartridge Door, and slide the Card stack Pusher all the way to the right until it locks in place



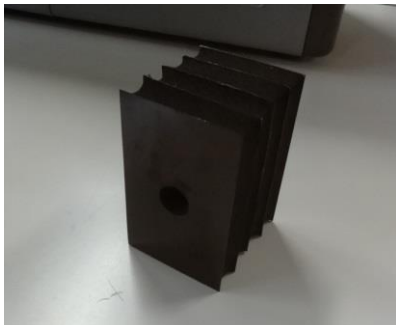
- (3) Stick one of the sheet first to the bottom of the Feeder Cartridge aligning the sheet to the edge of the Feeder Cartridge as shown in the picture below with a red circle



- (4) Stick the rest of the sheets next to the previously attached one as shown in the picture below with a red circle



- (5) Prepare a **Shock Absorber** as shown in the picture below



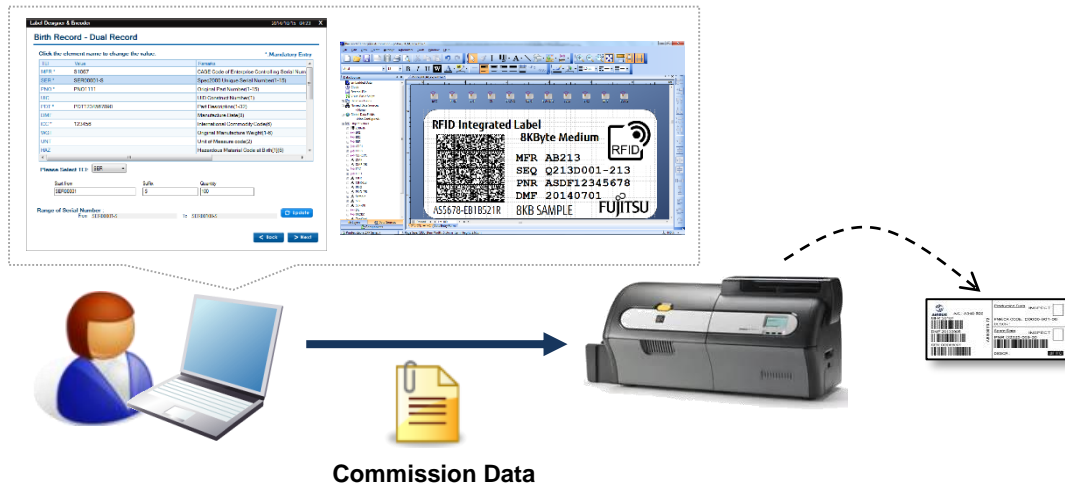
- (6) Simply place it in front of the Card Stack Pusher as shown in the picture below with a red rectangle



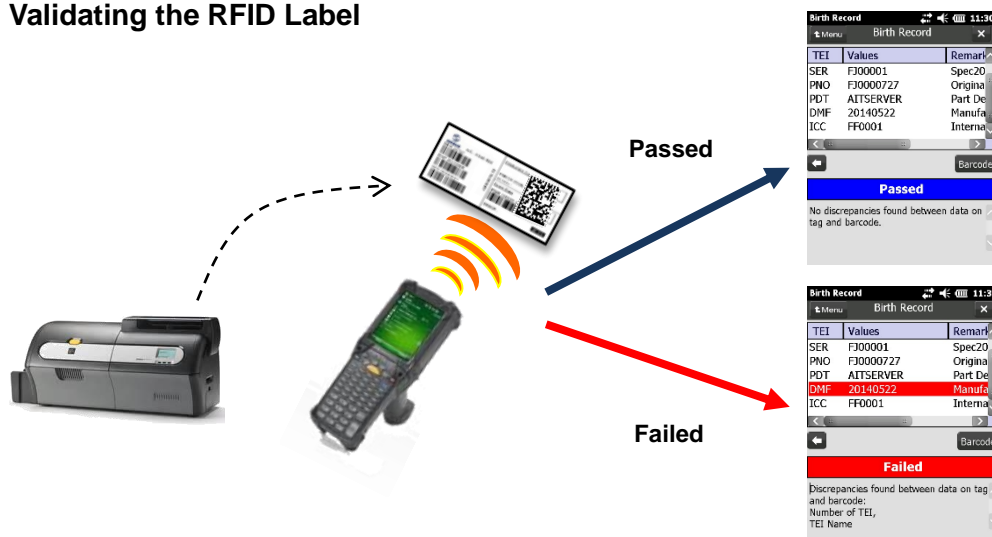
## 2 How to use RFID Integrated Label

This chapter explains the methods for using this product.

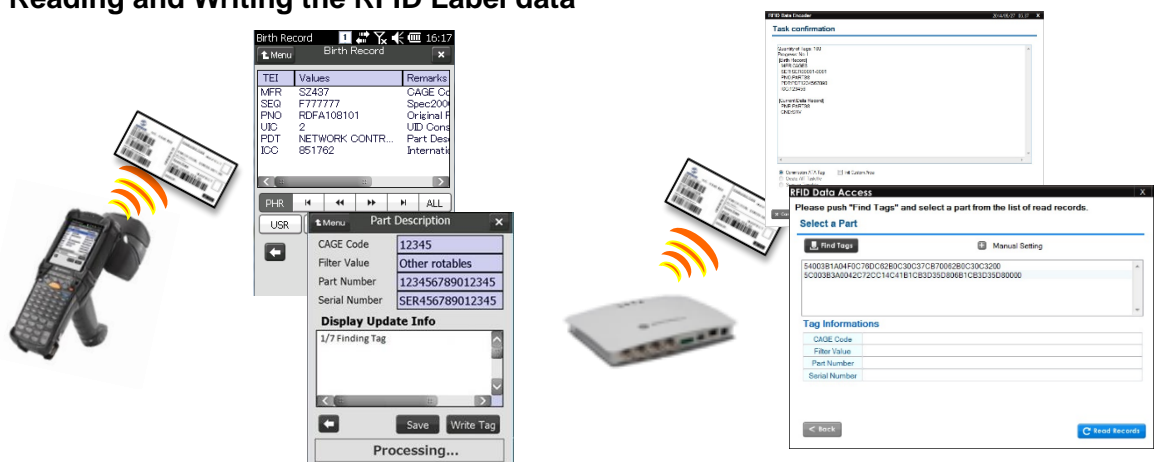
### 2.1 Printing and Encoding



### 2.2 Validating the RFID Label



### 2.3 Reading and Writing the RFID Label data



## 2.1 Printing and Encoding

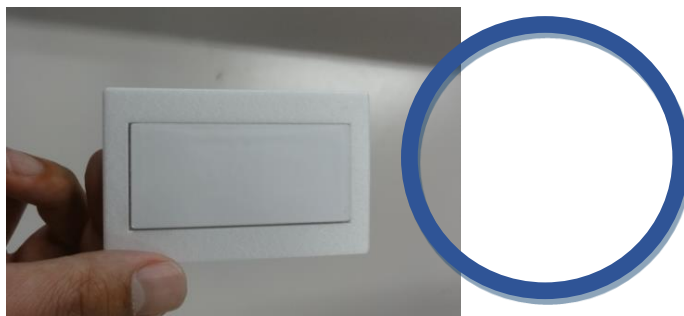
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### 2.1.1 Printing and Encoding by using the sample data with Feed Cartridge

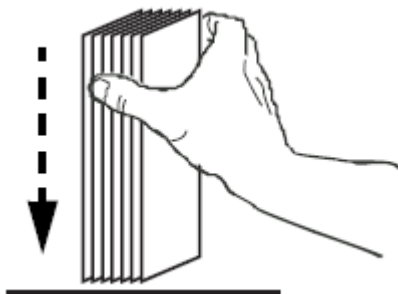
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- (1) Take a set of Fujitsu RFID Integrated Label with carrier out of box with your hand

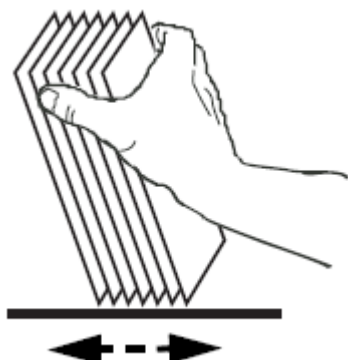
**! Caution** DO NOT touch the surface of RFID Label as this can reduce print quality.  
DO NOT bend or fold the RFID Label.



- (2) Holding the stack by the sides (**do not touch the print surfaces**), hold it vertically against a flat surface such as a desktop. If the stack is too thick for your hand to hold it, use about half a stack at a time

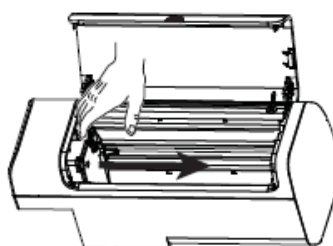
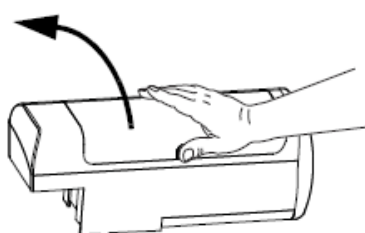


- (3) Push the stack back and forth to an angle of about 45 degree from vertical, so as to separate all of the labels

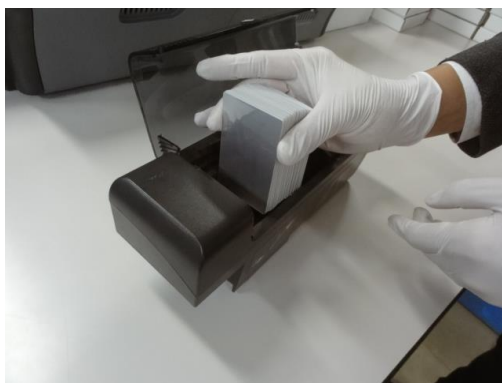


- (4) Restore the stack to its original squared-off conditions

- (5) Open the Feeder Cartridge Door, and slide the Card stack Pusher all the way to the right until it locks in place



- (6) Place the stack in the Feeder Cartridge in the correct orientation shown below.

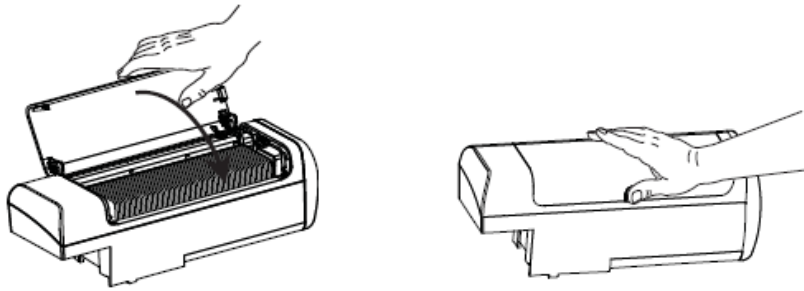


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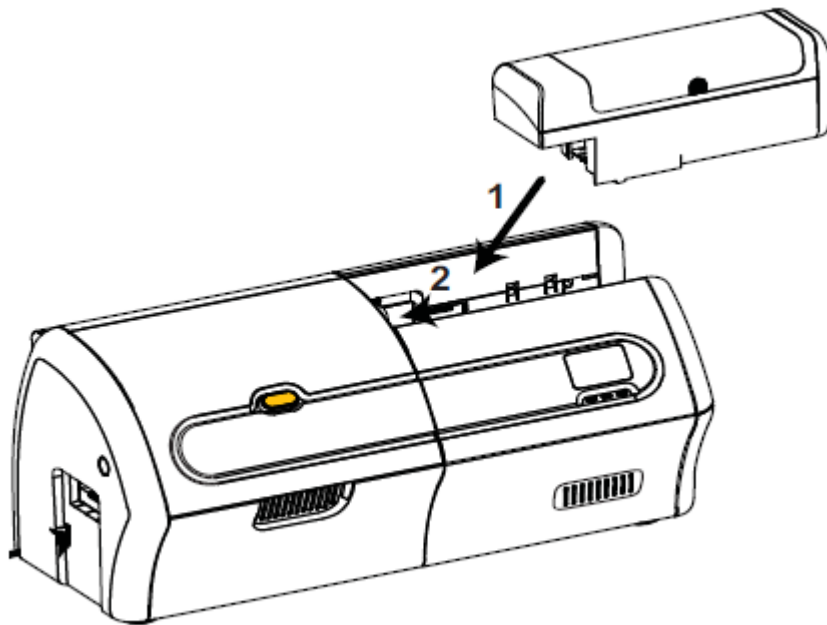
**! Caution**      The Shock Absorber **MUST** be placed between the stack and the Card Stack Pusher

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- (7) For optimum performance, ensure that the labels are fully seated, then close the Feeder Cartridge Door



- (8) Install the Feeder Cartridge by sliding it down and to the left into the receptacle. You will need to apply enough pressure for it to “snap” into place



(9) Print and Encode the RFID Label referring to 2 *How to use sample BTW files* of **RFID Label and Encoding Management Pro BTW Files Editing Guide**.

- ❑ Refer to the **RFID Label Design and Encoding Management Pro BTW Files Editing Guide** for the instructions on how to use sample BTW files.
- ❑ Please test Tag Commissioning by using the following Sample BTW files. If necessary, please modify the sample BTW files referring **RFID Label and Encoding Management Pro BTW Files Editing Guide**.

Sample BTW files for Manual Input are stored in the following folder.

C:\ProgramData\Fujitsu\RFIDLabelDesignAndEncodingManagementPro\printdata\

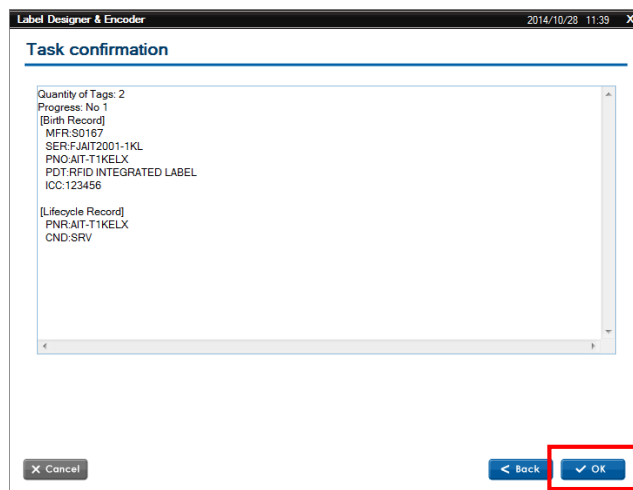
Sample BTW files for Batch Commissioning & Commissioning from 2D are stored in the following folder.

C:\Users\Public\RFID Label Design and Encoding Management Pro\  
CommissionData\

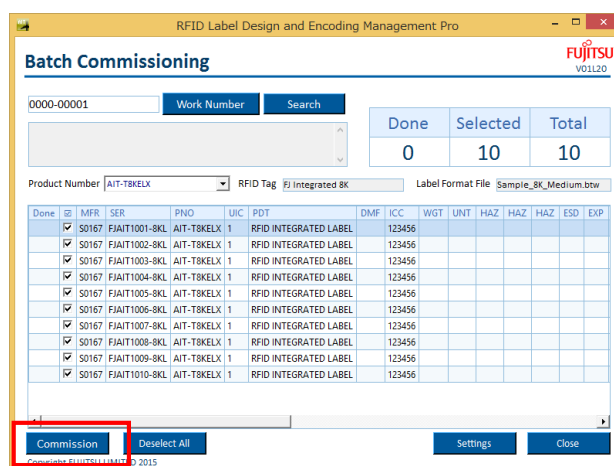
(10) Commissioning screen is displayed.

a. Manual Input

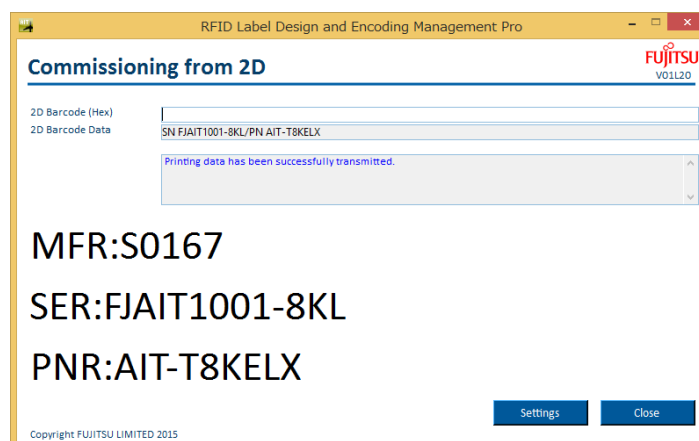
Clicking the **OK** button.



- b. Batch Commissioning
- Clicking the **Commission** button.



- c. Commissioning from 2D
- Commissioning by the automatic operation.



- (11) Cards in the Feed Cartridge will automatically be drawn into the printer when the print job is sent.

Please replace the order of the card if the card is not transported, Clear print job cue, and try again from (9)

- (12) Printing and Encoding has succeeded if the RFID Label comes out in the tray at the left of the printer.

**! Caution** If the RFID Label comes out in the tray at the right of the printer, it has failed.



(13) Remove the RFID Label from the Disposable Carrier.



Bend down the carrier holding both longer sides to opposite direction against the carrier facing up label surface.

(14) Remove the liner before affixing the RFID Label to a part.

- ☐ Please access the following URL if detailed information on how to use RFID Label is necessary.

[www.fujitsu.com/global/solutions/ait/tags](http://www.fujitsu.com/global/solutions/ait/tags)

## 2.1.2 Printing and Encoding by using the sample data with Manual Feed Slot

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- If using Manual Feed Slot, refer to the ***RFID Label Design and Encoding Management Pro Installation Guide*** for information on how to change the slot.
- (1) Print and Encode the RFID Label referring to 2 *How to use sample BTW files* of ***RFID Label and Encoding Management Pro BTW Files Editing Guide***.
- Refer to the ***RFID Label Design and Encoding Management Pro BTW Files Editing Guide*** for the instructions on how to use sample BTW files.
  - Please test Tag Commissioning by using the following Sample BTW files. If necessary, please modify the sample BTW files referring ***RFID Label and Encoding Management Pro BTW Files Editing Guide***.

Sample BTW files for Manual Input are stored in the following folder.

C:\ProgramData\Fujitsu\RFIDLabelDesignAndEncodingManagementPro\printdata\

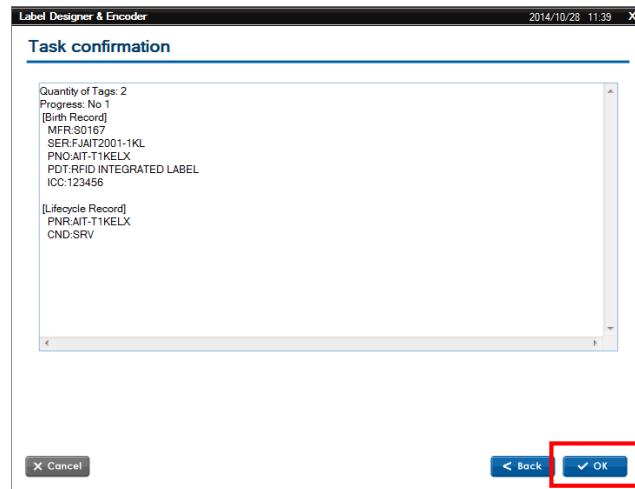
Sample BTW files for Batch Commissioning & Commissioning from 2D are stored in the following folder.

C:\Users\Public\RFID Label Design and Encoding Management Pro\  
CommissionData\

(2) Commissioning screen is displayed.

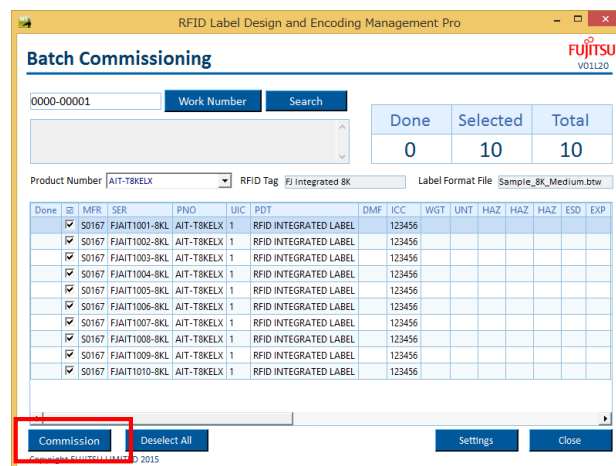
a. Manual Input

Clicking the **OK** button.



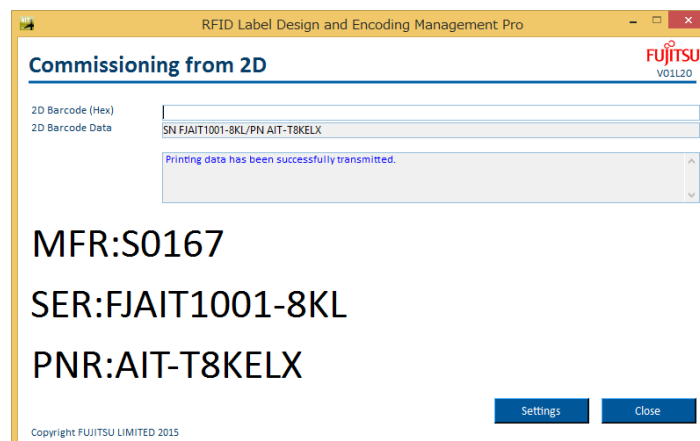
b. Batch Commissioning

Clicking the **Commission** button.

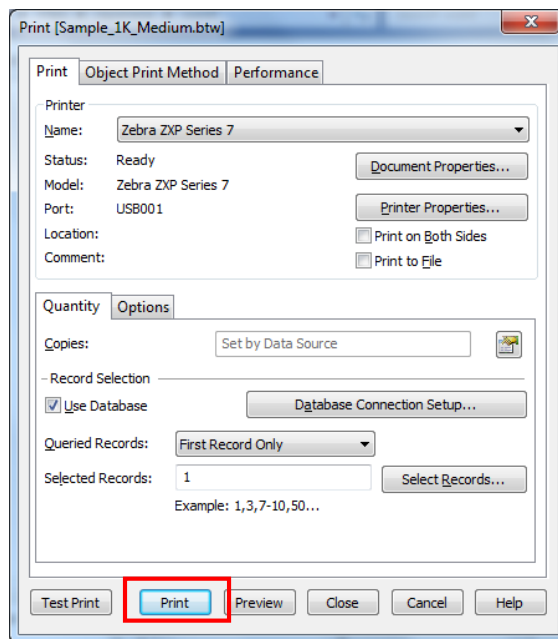


c. Commissioning from 2D

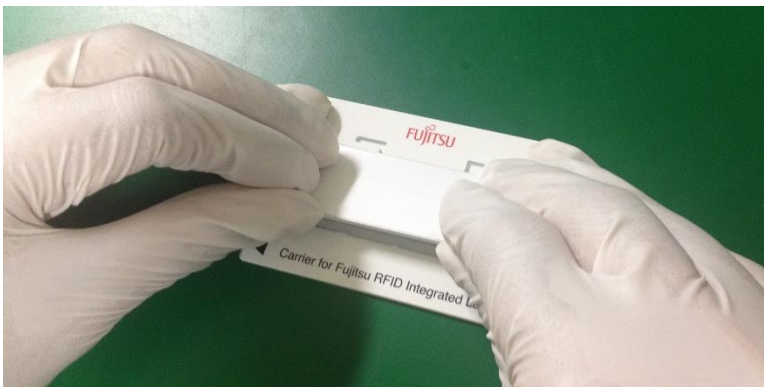
Commissioning by the automatic operation.



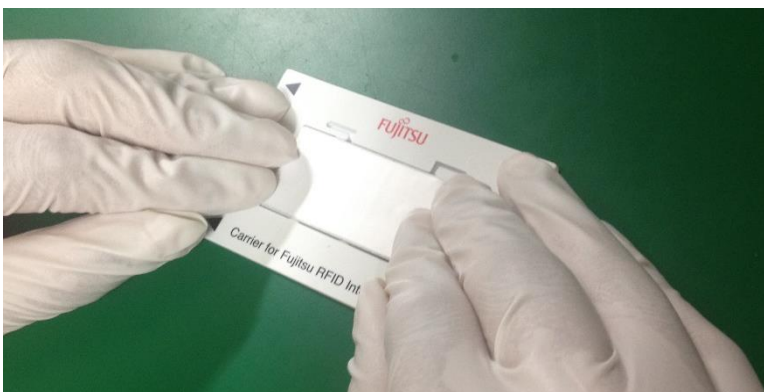
- (3) The Print screen is displayed after selecting the BTW files. When the **Print** button is clicked, it is displayed on the LCD screen of the printer as 'MANUALLY INSERT CARD FROM SIDE'.



- (4) Mount the RFID Label on the Reusable Carrier wearing gloves.



Press the RFID Label against the notch of the Reusable Carrier.



Snap the RFID Label in the cavity of the Reusable Carrier.

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**! Caution** DO NOT touch the surface of RFID Label as this can reduce print quality.  
DO NOT bend or fold the RFID Label.

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(5) Insert a carrier into the Manual Feed Slot. Continue to push in until the printer 'grabs' it.



(6) The card will automatically be drawn into the printer when the print job is sent.

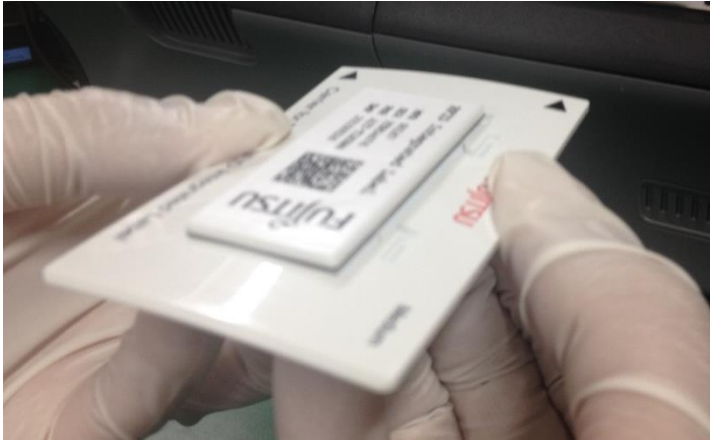
(7) Printing and Encoding has succeeded if the RFID Label comes out in the tray at the left of the printer.

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**! Caution** If the RFID Label comes out in the tray at the right of the printer, it has failed.

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(8) Remove the RFID Label from the Reusable Carrier.



Bend down the carrier holding both longer sides to opposite direction against the carrier facing up label surface.

(9) Remove the liner before affixing the RFID Label to a part.

- ☐ Please access the following URL if detailed information on how to use RFID Label is necessary.

[www.fujitsu.com/global/solutions/ait/tags](http://www.fujitsu.com/global/solutions/ait/tags)

### 2.1.3 Printing and Encoding without the sample data

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- (1) Create Label Design referring to *1.3 Create Label Design and Encode data* of ***RFID Label Design and Encoding Management Pro BTW Files Editing Guide***.

- Refer to the ***RFID Label Design and Encoding Management Pro BTW Files Editing Guide*** for information on how to use sample BTW files.

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**! Caution**      It is necessary to print the 2D code on the RFID Label to use 2D Validation function.

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- (2) Input various information in using RFID Label Design and Encoding Pro, and issue RFID Label. The sample data can be used.

- Refer to the following Manual for information on how to use Label Designer & Encoder.
  - ***RFID Label Design and Encoding Management Pro User's Guide (Manual Input)***
  - ***RFID Label Design and Encoding Management Pro User's Guide (Batch Commissioning)***
  - ***RFID Label Design and Encoding Management Pro User's Guide (Commissioning from 2D)***

## 2.2 Validating the RFID Label

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### 2.2.1 2D Validation

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- (1) Confirm whether RFID Label was correctly issued referring to 3.2 *AIT Data Validation* of **RFID Data Management Pro for Mobile Computers User's Guide**.

- Refer to the **RFID Data Management Pro for Mobile Computers User's Guide** for information on how to validate RFID Label.

## 2.3 Reading and Writing the RFID Label data

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### 2.3.1 RFID Data Management Pro for Mobile Computers

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The method of reading and writing the RFID Label by using the Handheld Device is as follows.

- Refer to the **RFID Data Management Pro for Mobile Computers User's Guide** for information on how to access to RFID Label.

- (1) Read the information in the issued RFID Label referring to 3.3 *AIT Data Access* of **RFID Data Management Pro for Mobile Computers User's Guide**.
- (2) Write the additional information in the RFID Label referring 3.3.3 *Updating ATA Records* of **RFID Data Management Pro for Mobile Computers User's Guide**.

### 2.3.2 RFID Data Management Pro for Fixed Readers

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The method of reading and writing the RFID Label by using the Fixed Reader is as follows.

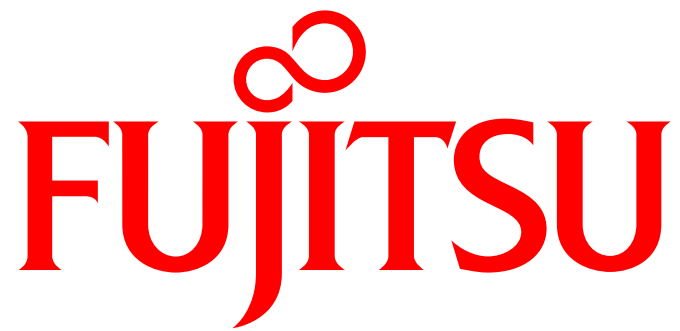
- Refer to the **RFID Data Management Pro for Fixed Readers User's Guide** for information on how to access to RFID Label.

- (1) Read the information in the issued RFID Label referring to 4 *RFID Data Access* of **RFID Data Management Pro for Fixed Readers User's Guide**.
- (2) Write the additional information in the RFID Label referring 4.7 *Parts Maintenance Records (Multi-Record)* and 4.9 *Parts Maintenance Records (Dual-Record)* of **RFID**









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