



# RFID Label Design and Encoding Management Pro

## User's Guide

Commissioning from Integrated Sources

March 2017  
Version 1.00



# Preface

This document explains how to use the Commissioning from Integrated Sources (hereafter referred to as "this application") of the RFID Label Design and Encoding Management Pro (hereafter referred to as "this tool"). Be sure to read this document before using this application.

➔ 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"
Terminals where Windows 7, Windows 8.1, or Windows 10 has been installed Personal computer	PC
Reader device for 2D barcode	"2D reader"
Reader/writer devices	"Reader device"
RFID tags	Tag
Printer which supports RFID data encoding	"RFID printer"
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

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

- This tool is designed to read and write data from and to tags in compliance 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 document are only examples, and the actual screens may be slightly different depending on the environment that you are using.
- The screenshots used in the explanations in this document are from a Windows 8.1 environment.

## ■ 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 1.00	March 31, 2017	Initial version released.

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# 1 Function Overview of Commissioning from Integrated Sources

## 1.1 Overview

This application can combine data from various data sources such as barcode, database, and manual entry in order to initialize RFID tags with the data in compliance with the ATA formats specified in ATA Spec 2000 Chapter 9-5 and print the labels on the RFID tags by RFID printer.

## 1.2 Function List

The following table lists the functions of this application.

Name	Overview
Commissioning from Integrated Sources	Combine data from various data sources such as barcode, database, and manual entry in order to initialize RFID tags with the data in compliance with the ATA formats specified in ATA Spec 2000 Chapter 9-5 and print the labels on the RFID tags by RFID printer
Configurations	Configure settings for this application.

## 1.3 Suite of User Manuals

The user manuals for this tool are organized as follows:

Manual title	Description
RFID Label Design and Encoding Management Pro User's Guide (Manual Input)	<ul style="list-style-type: none"><li>• Explains how to use the Manual Input application of "RFID Label Design and Encoding Management Pro".</li></ul>
RFID Label Design and Encoding Management Pro User's Guide (Commissioning by Barcode Scanning)	<ul style="list-style-type: none"><li>• Explains how to use the Commissioning from Barcode application of "RFID Label Design and Encoding Management Pro".</li></ul>
RFID Label Design and Encoding Management Pro User's Guide (Commissioning from Integrated Sources)	<ul style="list-style-type: none"><li>• This document.</li><li>• Explains how to use the Commissioning from Integrated Sources application of "RFID Label Design and Encoding Management Pro".</li></ul>

Manual title	Description
RFID Label Design and Encoding Management Pro User's Guide (Batch Commissioning)	•Explains how to use the Batch Commissioning application of “RFID Label Design and Encoding Management Pro”.
RFID Data Management Pro & RFID Label Design and Encoding Management Pro User's Guide (Appendixes)	•Explains the usage methods and provides additional information about the “RFID Data Management Pro” and “RFID Label Design and Encoding Management Pro”

## 1.4 Messages

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Messages may be displayed in pop-up dialog boxes, depending on conditions encountered during processing.

When an error is displayed, the normal processing is suspended. Please refer to section “4 Troubleshooting” for information on the messages displayed in the pop-up dialog box, and for guidance on how to eliminate the cause of the error.

If the cause of the error cannot be identified, please make an inquiry to Fujitsu Customer Support.

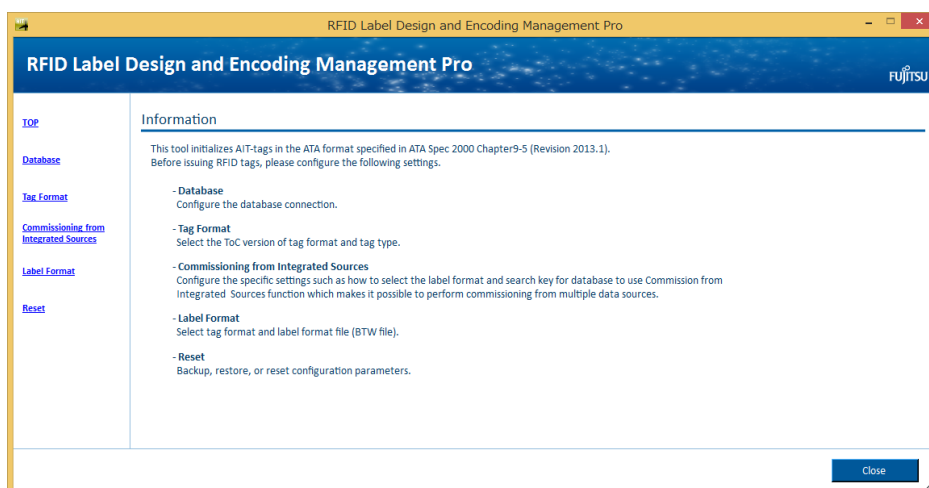


## 2 Configurations

### 2.1 Overview

This section explains how to set the configuration parameters of this application.

The Configuration menu has 6 options displayed on the left-hand side of the screen. Clicking on a menu option brings up a specific dialog screen to define parameters.



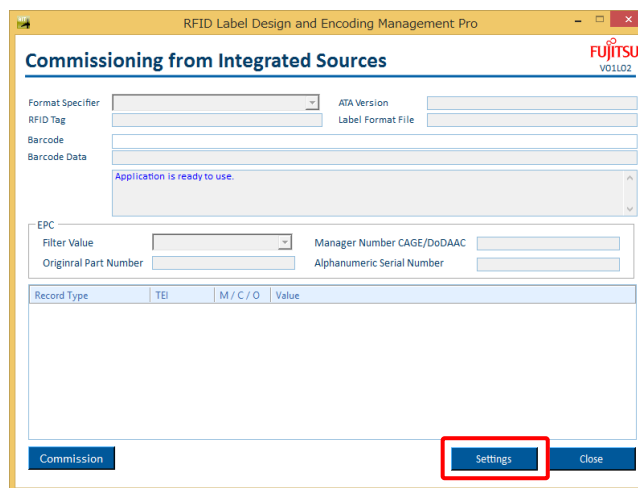
Menu Option	Description
TOP	This option is selected by default to show the brief descriptions about configuration options.
Database	This option is used to configure the database connection to the database that stores parts information for the tag commissioning. This application uses an ODBC driver for the database connection. Please refer to section “2.2.2 Database Connection Settings” for details.
Tag Format	This option is used to define customized tag formats by adding TEIs to the ATA formats specified in ATA Spec2000 Chapter 9-5. Please refer to section “2.2.3 Tag Format Settings” for details.
Commissioning from Integrated Sources	This option is used to set application parameters for the Commissioning from Integrated Sources application. Please refer to section “2.2.4 Settings Specified to Commissioning from Integrated Sources” for details.
Label Format	This option is used to specify encoding and printing data configuration. Please refer to section “2.2.5 Label Format Settings” for details.

Reset	<p>This option is used to reset all configuration parameters to their default at installation time, or backup and restore the current configurations. Please refer to the following sections for details.</p> <ul style="list-style-type: none"> <li>- “2.2.6 Backup Configurations”</li> <li>- “2.2.7 Restore Backup Configurations”</li> <li>- “2.2.8 Initialize Configurations”</li> </ul>
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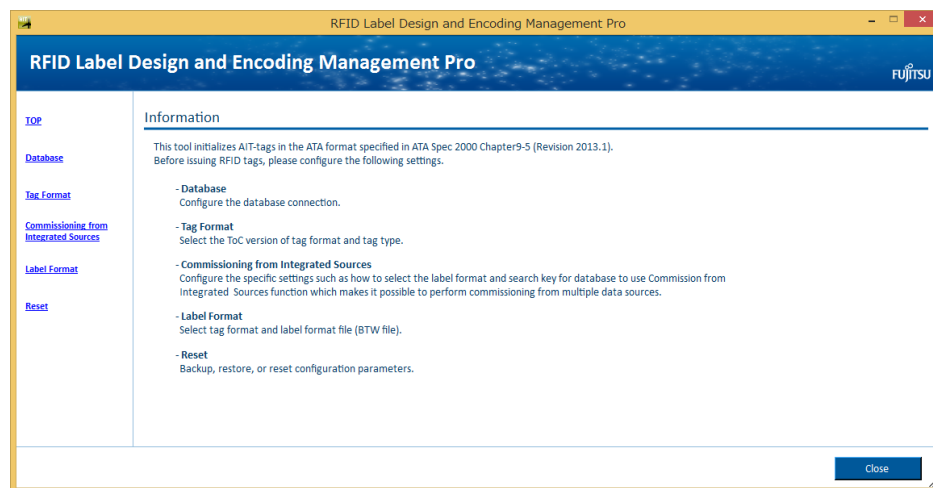
## 2.2 Operating Procedure for Settings

### 2.2.1 Start Settings

- (1) Click the **Settings** button on the Commissioning from Integrated Sources screen (see below) to move to the configurations menu. Please refer to section “3 Commissioning from Integrated Sources” for the operating procedure to start the Commissioning from Integrated Sources application.

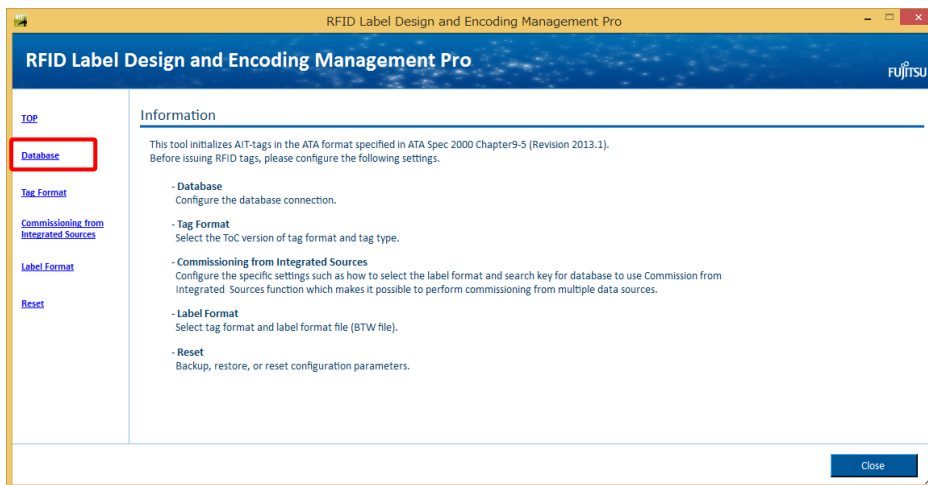


(2) The following configurations menu is displayed.



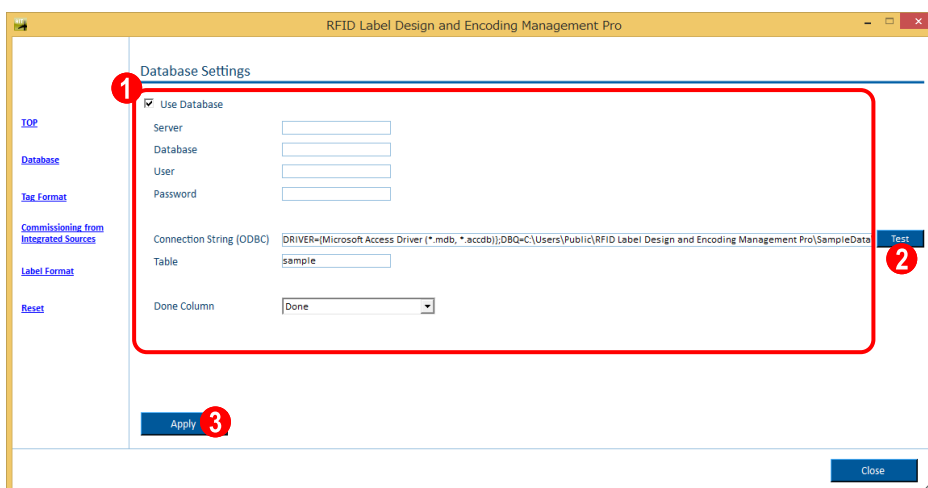
## 2.2.2 Database Connection Settings

- (1) Click the **Database** on the left-side menu.



- (2) The following screen is displayed.

Specify values for each data field and click the **Apply** button to save the settings.



## ① Setting Items

The following items are used to set the ODBC connection string. When specified, the corresponding attributes are automatically inserted in the **Connection String (ODBC)** field.

Item	Description
Server	Server name (SERVER attribute)
Database	Database name (DATABASE attribute)
User	User name (UID attribute)
Password	Password (PWD attribute)

Item	Description
Use Database	Whether the data from database is used. In the case that <b>Extract data from database</b> is enabled in the “2.2.4 Settings Specified to Commissioning from Integrated Sources”, it is also necessary to enable this option.
Connection String (ODBC)	ODBC connection string for the database connection (required). See Caution note below.
Table	Database table where the parts information for tag commissioning is stored (required)
Done Column	Column in the database table where the commissioning date is to be stored (if not setting this item, commission date will not be recorded in the database)

---

! Caution It is necessary to confirm the database connection before setting **Done Column** by clicking the **Test** button.

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## ② Test button

This button is used to test the database connection using the specified connection string.

## ③ Apply button

This button is used to save the database connection settings.

- 
- **Reference:** Connection to the sample database for Microsoft Access is configured as default. A sample database for Microsoft Excel is also available for setting. The following tables show the configurations to connect the sample database.

[Configurations to connect the sample database for Microsoft Access]

Item	Value
Connection String (ODBC)	DRIVER={Microsoft Access Driver (*.mdb, *.accdb)};DBQ=C:\Users\Public\RFID Label Design and Encoding Management Pro\SampleData\sample.accdb;
Table	sample

[Configurations to connect the sample database for Microsoft Excel]

Item	Value
Connection String (ODBC)	DRIVER={Microsoft Excel Driver (*.xls, *.xlsx, *.xlsm, *.xlsb)};DBQ=C:\Users\Public\RFID Label Design and Encoding Management Pro\SampleData\sample.xlsx;ReadOnly=false;
Table	sample\$

- 
- **Reference:** Other databases than Microsoft Access and Excel can be used if the required ODBC driver is installed on the PC.

[Example: Connection settings to SQL Server]

Item	Value
Connection String (ODBC)	DRIVER={SQL Server};SERVER=[server name];DATABASE=[database name];UID=[user name];PWD=[password];
Table	[Table name]

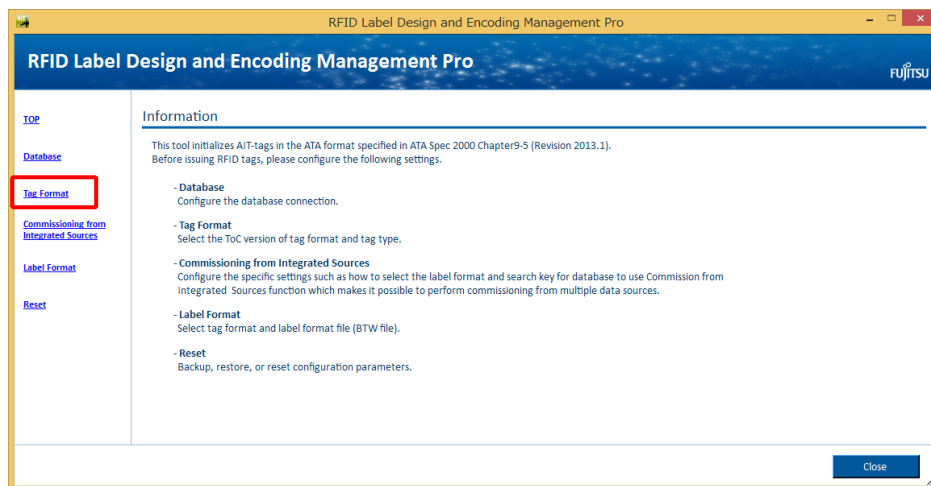
- 
- **Reference:** The database table used for this application needs to meet the following requirements.

Requirement	Remarks
The database table needs to have a specific column to manage label formats (the column is defined as the <b>Format Specifier</b> ).	Required only if <b>Extract data from database</b> is enabled in the “2.2.4 Settings Specified to Commissioning from Integrated Sources”. Please refer to “2.2.5 Label Format Settings” for the details of label format.
The database table needs to have a specific column set as a <b>date field</b> where the commissioning date is to be stored (the column is defined as the <b>Done Column</b> ).	Required only if using “Done Column.”
The database table needs to have columns set as <b>string fields</b> where the TEI elements complying with ATA Standards are stored.	Date elements need to be stored in the “YYYYMMDD” format.
The database table needs to have a specific column to identify a record (the column is defined as Search Key In “2.2.4 Settings Specified to Commissioning from Integrated Sources”).	

## 2.2.3 Tag Format Settings

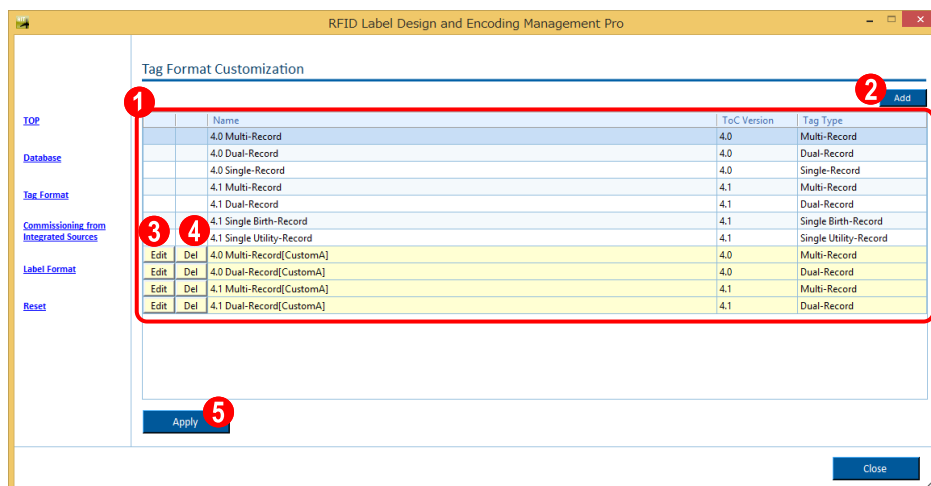
### 2.2.3.1 Tag Format List Screen

- (1) Click the **Tag Format** on the left-side menu.



- (2) The following screen is displayed.

Edit the settings and click the **Apply** button to save the settings.



#### 1 Tag format list

This field displays the currently defined tag formats.

#### 2 Add button

This button is used to add a new tag format. Please refer to “2.2.3.2 Tag Format Details Screen (Adding)” for the details.



**3 Edit button**

This button is used to modify the corresponding customized tag format. Please refer to “2.2.3.3 Tag Format Details Screen (Modifying)” for the details.

**4 Del button**

This button is used to delete the corresponding customized tag format.

**5 Apply button**

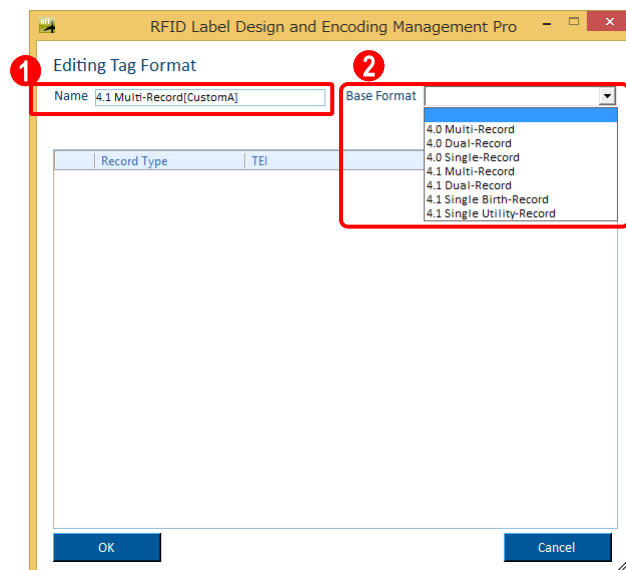
This button is used to save the changes on tag formats.

**! Caution**

- Only customized tag formats can be modified or deleted.
- Please do not modify or delete the tag format when it is used by label format settings. If you do so, it will be necessary to re-configure the TEI source settings (please refer to section “2.2.4 Settings Specified to Commissioning from Integrated Sources”).

## 2.2.3.2 Tag Format Details Screen (Adding)

(1) Enter the format name and select the base format.



**1 Name**

This field is used to enter the customized tag format name.

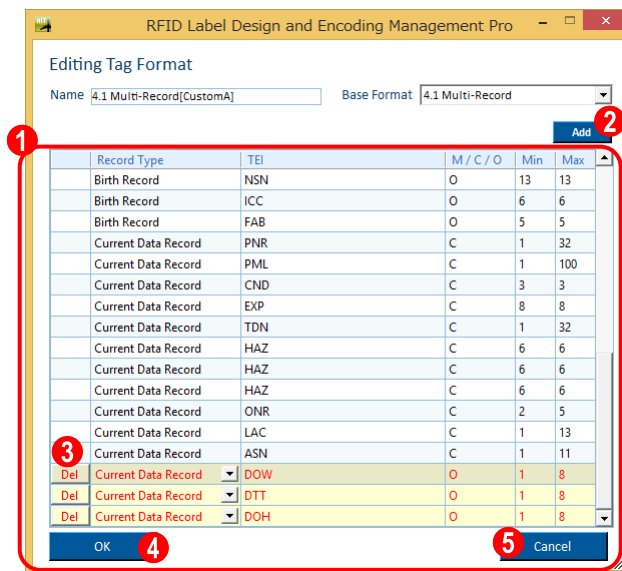
## 2 Base Format

This dropdown list is used to select the base tag format from the followings.

- 4.0 Multi-Record
- 4.0 Dual-Record
- 4.0 Single-Record”
- 4.1 Multi-Record
- 4.1 Dual-Record
- 4.1 Single Birth-Record
- 4.1 Single Utility-Record

(2) TEIs of the selected base format are displayed on a list.

Add TEIs to this list and click the **OK** button.



## 1 TEIs list

This area displays a list of TEIs (added TEIs are colored in yellow and can be modified).

Column	Description
Record Type	Record type of the TEI
TEI	The name of TEI
M / C / O	<u>M</u> andatory / <u>C</u> onditional / <u>O</u> ptional. Added TEIs are set as “O”.
Min	Minimum length of the TEI
Max	Maximum length of the TEI

## 2 Add button

This button is used to add a new TEI. The added TEI is inserted the last line of the TEIs list.

**3 Del button**

This button is used to delete the added TEI.

**4 OK button**

This button is used to move back to tag format list screen.

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**! Caution** It is necessary to click the **Apply** button on the tag format list screen to save the added tag format(s).

---

**5 Cancel button**

This button is used to discard the changes on tag format and move back to tag format list screen.

### 2.2.3.3 Tag Format Details Screen (Modifying)

- (1) TEIs of customized tag format can be modified on this screen same as the adding.  
Edit and save the TEI definitions same as for addition to a customized tag format.

RFID Label Design and Encoding Management Pro

Editing Tag Format

Name: 4.1 Multi-Record[CustomA] Base Format: 4.1 Multi-Record

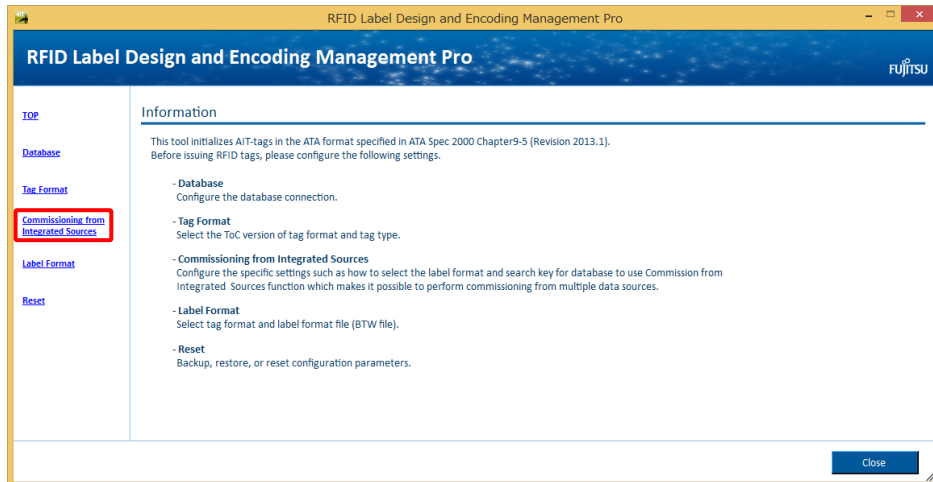
Add

Record Type	TEI	M / C / O	Min	Max
Birth Record	MFR/SPL	M	5	5
Birth Record	SER/SEQ/UCN	C	1	30
Birth Record	PNO	M	1	32
Birth Record	UIC	C	1	1
Birth Record	PDT	M	1	32
Birth Record	DMF	C	8	8
Birth Record	WGT	C	1	8
Birth Record	UNT	C	2	2
Birth Record	HAZ	C	6	6
Birth Record	HAZ	C	6	6
Birth Record	HAZ	C	6	6
Birth Record	ESD	C	1	1
Birth Record	EXP	C	8	8
Birth Record	LLE	C	1	1
Birth Record	LOT/LTN	C	1	15
Birth Record	CNT	C	2	2
Birth Record	SWI	C	1	1

OK Cancel

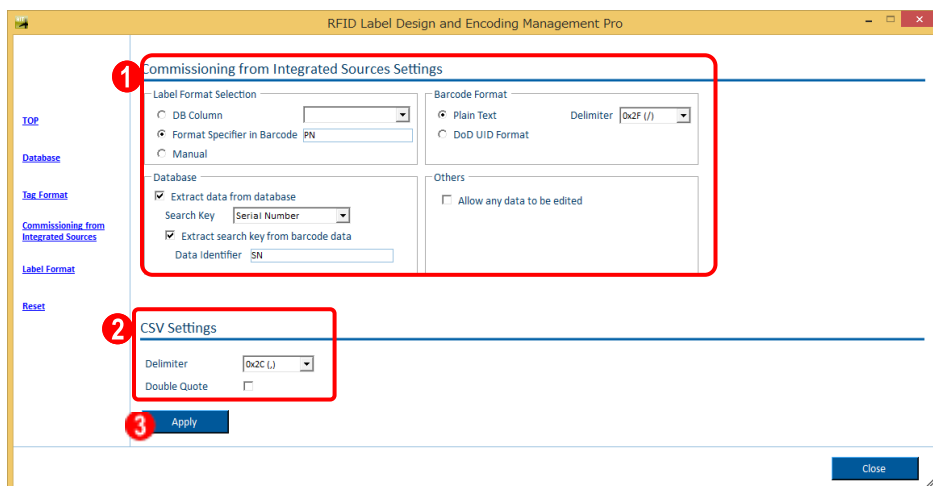
## 2.2.4 Settings Specified to Commissioning from Integrated Sources

- (1) Click the **Commissioning from Integrated Sources** on the left-side menu.



- (2) The following screen is displayed.

Enter the displayed fields and click the **Apply** button to save the settings.



## ① Setting Items

Item	Description
Label Format Selection	<p>This item is used to select how to specify the Label Format defined in “2.2.5 Label Format Settings”. There are 3 options as below.</p> <ul style="list-style-type: none"> <li>• <b>DB Column:</b> Use the values in the specified column as the Label Format names. In the case of using this option, it is necessary to enable the <b>Extract data from database</b>.</li> <li>• <b>Format Specifier in Barcode:</b> Use one of the data elements in barcode as the Label Format Names.</li> <li>• <b>Manual:</b> Manually select the Label Format.</li> </ul>
Barcode Format	<p>This item is used to select the barcode data format from following 2 options. The application extracts data elements according to the selected data format.</p> <ul style="list-style-type: none"> <li>• <b>Plain Text:</b> Extract data elements by separating the selected “Delimiter”. Data name and its value need to be separated by a space “ ”.</li> </ul> <p>&lt;Example: using slash (“/”: “0x2F”) as the “Delimiter” &gt;  [barcode data] : SN 000001/PN FJAIT1000  The following data elements are extracted.  [data 1] data name: SN      value: 000001  [data 2] data name: PN      value: FJAIT1000</p> <ul style="list-style-type: none"> <li>• <b>DoD UID Format:</b> Extract data elements according to ISO/IEC 15434 data format.</li> </ul>
Database	<p>Settings to use database as a data source.</p> <ul style="list-style-type: none"> <li>• <b>Extract data from database:</b> This check box is used to enable database connection. If enabled, it is also necessary to enable the <b>Use Database</b> in “2.2.2 Database Connection Settings”.</li> <li>• <b>Search Key:</b> Column of the database table to be used to locate a part record.</li> <li>• <b>Extract search key from barcode data:</b> This checkbox is used to use one of the data element from barcode as the search key of database. If not enabled, the whole text from barcode is regarded as the search key.</li> <li>• <b>Data Identifier:</b> Sequence of characters immediately preceding the search key value.</li> </ul>

Others	<ul style="list-style-type: none"> <li>• <b>Allow any data to be edited:</b> This checkbox is used to enable manually editing all data on application screen (if not enabled, only the data elements whose “Source” is set as “Manual” in “2.2.5.2 TEIs Data Source Settings Screen” will be editable).</li> </ul>
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## 2 CSV Settings

**Delimiter:** this box is used to set a delimiter character of CSV file.

**Double Quote:** this check box is used to select whether each of data entries in CSV file are enclosed with double quotes or not.

## 3 Apply button

This button is used to save changes to Commissioning from Integrated Sources.

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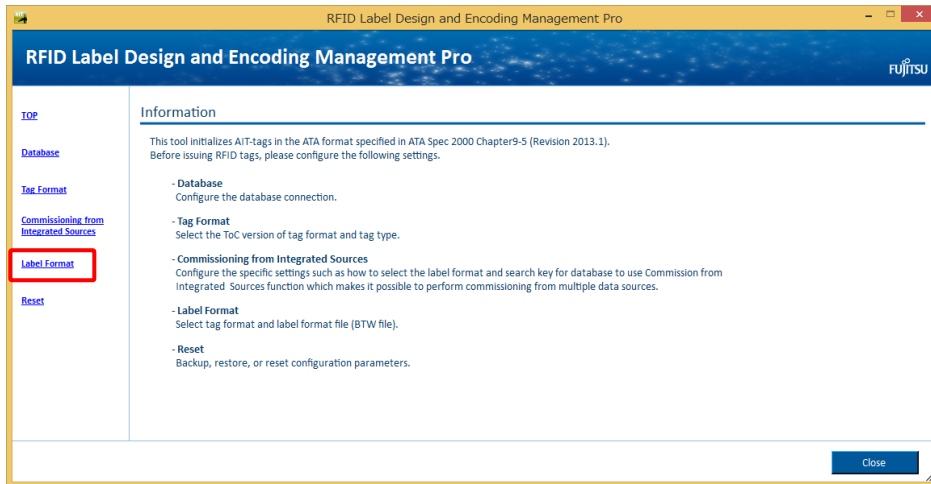
### ! Caution

- If the data is not enclosed with double quotes, the delimiter character can not be included in data itself.
  - If delimiter is changed, it is necessary to execute **Refresh Field Names** from **Database Connection Setup** menu in the BTW file.
-

## 2.2.5 Label Format Settings

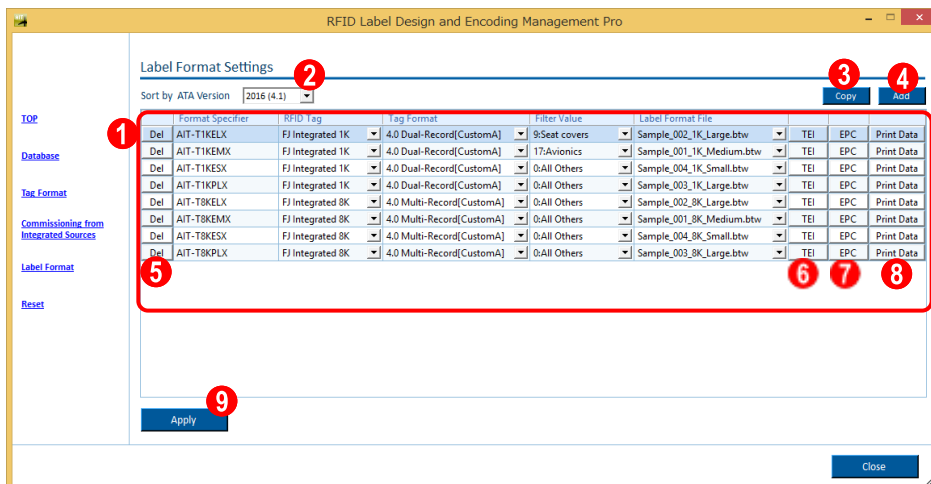
### 2.2.5.1 Label Format List Screen

(1) Click the **Label Format** on the left-side menu.



(2) The following screen is displayed.

Edit the settings and click the **Apply** button to save the settings.



## 1 Label Format list

This area displays a list of currently set label formats.

Column	Description
Format Specifier	The name of the label format name.
RFID Tag	RFID tag selected from “FJ Integrated 8K”, “FJ Integrated 1K”, and “Single 128word”.
Tag Format	Tag format (please refer to section “2.2.3 Tag Format Settings” for the details.
Filter Value	Filter value to be written on RFID tag
Label Format File	Label format file (BTW file)

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! Caution    Label format file (BTW file) needs to be located in the following folder:  
C:\Users\Public\RFID Label Design and Encoding Management  
Pro\CommissionData

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## 2 Sort by ATA Version

This dropdown is used to select ATA revision which is displayed in upper rows of the list.

## 3 Copy button

This button is used to copy the label format. The copied format will be added in the bottom row (the Format Specifier will be in blank).

## 4 Add button

This button is used to add a new label format. The added label format is inserted in the list.

## 5 Del button

This button is used to delete the corresponding label format.

## 6 TEI button

This button is used to set TEIs data source. Please refer to section “2.2.5.2 TEIs Data Source Settings Screen” for the details.

## 7 EPC button

This button is used to set EPC data source. Please refer to section “2.2.5.3 EPC Settings Screen” for the details.

## 8 Print Data button

This button is used to set print-only (not encoded) data. Please refer to section “2.2.5.4 Print-only Data Settings Screen” for the details.



**9 Apply** button

This button is used to save the changes on label formats.

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**! Caution**

•TEIs data source and EPC settings are necessary for activating the label format.

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## 2.2.5.2 TEIs Data Source Settings Screen

(1) Data source for each TEI is configured on the following screen.

Select a Source for each TEI, fill in corresponding column, and then click the **OK** button.

Record Type	Use	TEI	M / C / O	Source	DB Column	Barcode Data Identifier	Fixed Value	Disp Item
Birth Record	<input checked="" type="checkbox"/>	MFR	M	DB	Manufacture Code	MFR		<input type="checkbox"/>
Birth Record	<input checked="" type="checkbox"/>	SER	C	DB	Serial Number	SER		<input type="checkbox"/>
Birth Record	<input checked="" type="checkbox"/>	PNO	M	DB	Product Number	PNO		<input type="checkbox"/>
Birth Record	<input checked="" type="checkbox"/>	UIC	C	Fixed		UIC	1	<input type="checkbox"/>
Birth Record	<input checked="" type="checkbox"/>	DMF	C	Today		DMF		<input type="checkbox"/>
Birth Record	<input checked="" type="checkbox"/>	WGT	C	DB	Weight	WGT		<input type="checkbox"/>
Birth Record	<input checked="" type="checkbox"/>	UNT	C	DB	Unit of Measure code	UNT		<input type="checkbox"/>
Birth Record	<input checked="" type="checkbox"/>	HAZ	C	DB	Hazardous Material ...	HAZ1		<input type="checkbox"/>
Birth Record	<input checked="" type="checkbox"/>	HAZ	C	DB	Hazardous Material ...	HAZ2		<input type="checkbox"/>
Birth Record	<input checked="" type="checkbox"/>	HAZ	C	DB	Hazardous Material ...	HAZ3		<input type="checkbox"/>
Birth Record	<input checked="" type="checkbox"/>	ESD	C	DB	Electrostatic Sensiti...	ESD		<input type="checkbox"/>
Birth Record	<input checked="" type="checkbox"/>	EXP	C	DB	Expiration Date	EXP		<input type="checkbox"/>
Birth Record	<input checked="" type="checkbox"/>	LLE	C	DB	Life Limited Equipm...	LLE		<input type="checkbox"/>
Birth Record	<input checked="" type="checkbox"/>	PDT	C	DB	Product Name	PDT		<input type="checkbox"/>
Birth Record	<input checked="" type="checkbox"/>	ICC	O	DB	International Com...	ICC		<input type="checkbox"/>
Birth Record	<input checked="" type="checkbox"/>	LOT	O	DB	Lot Number	LOT		<input type="checkbox"/>
Birth Record	<input checked="" type="checkbox"/>	CNT	O	DB	Country Code	CNT		<input type="checkbox"/>
Birth Record	<input checked="" type="checkbox"/>	ECC	O	DB	Export Control Class...	ECC		<input type="checkbox"/>

### 1 TEIs Data Source list

This area displays a list of TEIs and the data source defined in the selected tag format.

Column	Description
Record Type	Record Type of the TEI (unmodifiable)
Use	This check-box is used to determine whether or not the TEI is to be written to the tag.
TEI	In case of the selectable TEIs, this dropdown is used to select the TEI.
M / C / O	<u>M</u> andatory / <u>C</u> onditional / <u>O</u> ptional (unmodifiable). The TEIs of "M" need to be checked on Use check-box.
Source	This dropdown is used to select the data source for each TEI. <ul style="list-style-type: none"> <li>•<b>DB</b>: Extract data from database. The source column is specified in the <b>DB Column</b> field.</li> <li>•<b>Barcode</b>: Extract data from barcode. The corresponding data name is specified in the <b>Barcode Data Identifier</b> field.</li> <li>•<b>Fixed</b>: Use the same value for every commissioning. The value is set in the <b>Fixed Value</b> field.</li> <li>•<b>Today</b>: Set the date when the commissioning is performed as data (YYYYMMDD format). Only available for "DMF".</li> <li>•<b>Manual</b>: Manually enter the data value.</li> </ul>

DB Column	Column of the database table which is used as the data source for the TEI. This item is required to be configured in the case that the <b>DB Column</b> is selected in the <b>Source</b> field.
Barcode Data Identifier	Data name in barcode which is used as the data source for the TEI. This item is required to be configured in the case that <b>Barcode</b> is selected in the <b>Source</b> field.
Fixed Value	Value to be set to the TEI. This item is required to be configured in the case that <b>Fixed</b> is selected in the "Source" field.
<input checked="" type="checkbox"/> Disp Item	TEIs to be displayed with the defined strings on the main screen of Commissioning by Barcode Scanning. Total of 3 items from TEIs and EPC settings can be selected at a maximum.

## 2 OK button

This button is used to move back to label format list screen.

---

! Caution It is necessary to click the **Apply** button on tag format list screen to save the added tag format.

---

## 3 Cancel button

This button is used to discard the changes on tag format and move back to tag format list screen.

### 2.2.5.3 EPC Settings Screen

(1) Set EPC information on the following screen. In the following cases, the EPC setting is required.

- Not use “MFR/SPL” on the TEIs data source settings screen
- Not use “PNO” on the TEIs data source settings screen
- Not use “SER/SEQ/UCN” on the TEIs data source settings screen

RFID Label Design and Encoding Management Pro

Editing EPC

1 EPC Header  
ADI (0x3B)

2 Filter Value  
☒ Fixed Value 6:Pallet  
☐ DB Column  
☐ Barcode Data Identifier  
☐ Manual Input  
☐ Disitem

3 Manager Number CAGE/DoDAAC  
☒ Same value with MFR/SPL in Birth Record/Utility Record  
☐ DB Column  
☐ Barcode Data Identifier  
☐ Fixed Value  
☐ Manual Input  
☐ Disitem

4 Original Part Number  
☒ Same value with PNO in Birth Record/Utility Record  
☐ DB Column  
☐ Barcode Data Identifier  
☐ Fixed Value  
☐ Manual Input  
☐ Not Use  
☐ Disitem

5 Alphanumeric Serial Number  
☒ Same value with SER/SEQ/UCN in Birth Record/Utility Record  
☐ DB Column  
☐ Barcode Data Identifier  
☐ Manual Input  
☐ Disitem

6 OK 7 Cancel

#### 1 EPC Header

This area shows the EPC Header information.

#### 2 Filter Value

This area is used to choose the way to get the Filter Value.

- **Fixed Value:** Use the same value which is set on the “2.2.5.1 Label Format List Screen”.
- **DB Column:** Extract the value from database (the column of the database table needs to be specified).
- **Barcode Data Identifier:** Extract the value from barcode (the data name in the barcode needs to be specified)
- **Manual Input:** Manually enter Filter Value at every commissioning.

---

! Caution The “Disp Item” is not used in the Commissioning from Integrated Source application.

---

### 3 Manager Number CAGE/DoAAC

This area is used to choose the way to get "Manager Number CAGE/DoAAC"

- **Same value with MFR/SPL In Birth Record/Utility Record:** Use same value with MFR/SPL in Birth Record or Utility Record.
- **DB Column:** Extract the value from database (the column of the database table needs to be specified).
- **Barcode Data Identifier :** Extract the value from barcode (the data name in the barcode needs to be specified).
- **Fixed Value:** Use the same value for every commissioning.
- **Manual Input:** Manually enter Manager Number CAGE/DoAAC at every commissioning.

---

! Caution    The "Disp Item" is not used in the Commissioning from Integrated Source application.

---

### 4 Original Part Number

This area is used to choose the way to get "Original Part Number".

- **Same value with PNO In Birth Record/Utility Record:** Use same value with PNO in Birth Record or Utility Record.
- **DB Column :** Extract the value from database (the column of the database table needs to be specified).
- **Barcode Data Identifier:** Extract the value from barcode (the data name in the barcode needs to be specified).
- **Fixed Value:** Use the same value for every commissioning.
- **Manual Input:** Manually enter Original Part Number at every commissioning.
- **Not Use:** Not include the Original Part Number in EPC.

---

! Caution    The "Disp Item" is not used in the Commissioning from Integrated Source application.

---

## 5 Alphanumeric Serial Number

This area is used to choose the way to get "Alphanumeric Serial Number".

- **Same value with SER/SEQ/UCN In Birth Record/Utility Record:** Use same value with SER/SEQ/UCN in Birth Record or Utility Record.
- **DB Column:** Extract the value from database (the column of the database table needs to be specified). In this case, "#" will be added to the head of the string.
- **Barcode Data Identifier:** Extract the value from barcode (the data name in the barcode needs to be specified).
- **Manual Input:** Manually enter Alphanumeric Serial Number at every commissioning.

---

! Caution    The "Disp Item" is not used in the Commissioning from Integrated Source application.

---

## 6 OK button

This button is used to move back to label format list screen.

---

! Caution    It is necessary to click the **Apply** button on tag format list screen to save the added tag format.

---

## 7 Cancel button

The EPC setting under the edit is canceled and it returns to the label format list screen. (Please make sure to click the **Apply** button on the label format list screen to save the fixed setting)

## 2.2.5.4 Print-only Data Settings Screen

(1) Set print-only data on the following screen.

Edit the settings and click the **Apply** button to save the settings.

CSV Column Name	Source	DB Column	Barcode Data Identifier	Fixed Value
Data Group	DB	Work Order		
Company	Fixed			Fujitsu
Reserved 03				
Reserved 04				
Reserved 05				
Reserved 06				
Reserved 07				
Reserved 08				
Reserved 09				
Reserved 10				

OK Cancel

- 
- **Reference:** • Print-only data is not encoded into RFID but printed on label surface. The information is added to the CommissionData.csv and it is necessary to set the BTW file to refer to the column.
- 

### 1 Print-only Data list

This area displays a list of print-only data and the data source defined in the selected tag format.

Column	Description
CSV Column Name	Header name in the CommissionData.csv.
Source	This area is used to choose the way to get print-only data. <ul style="list-style-type: none"><li>• <b>DB</b>: Extract the value from database (the column of the database table needs to be specified).</li><li>• <b>Barcode</b>: Extract the value from barcode (the data name in the barcode needs to be specified).</li><li>• <b>Fixed</b>: Use the same value for every commissioning. The value is set in the "Fixed Value" field.</li></ul>
DB Column	Column of the database table which is used as the data source for the print-only data. This item is required to be configured in the case that <b>DB</b> is selected in the <b>Source</b> field.
Barcode Data Identifier	Data name in barcode which is used as the data source for the print-only data. This item is required to be configured in the case that <b>Barcode</b> is selected in the <b>Source</b> field.
Fixed Value	Value to be set to the print-only data. This item is required to be configured in the case that <b>Fixed</b> is selected in the <b>Source</b> field.

## 2 OK button

This button is used to move back to label format list screen.

---

! Caution It is necessary to click the **Apply** button on tag format list screen to save the added tag format.

---

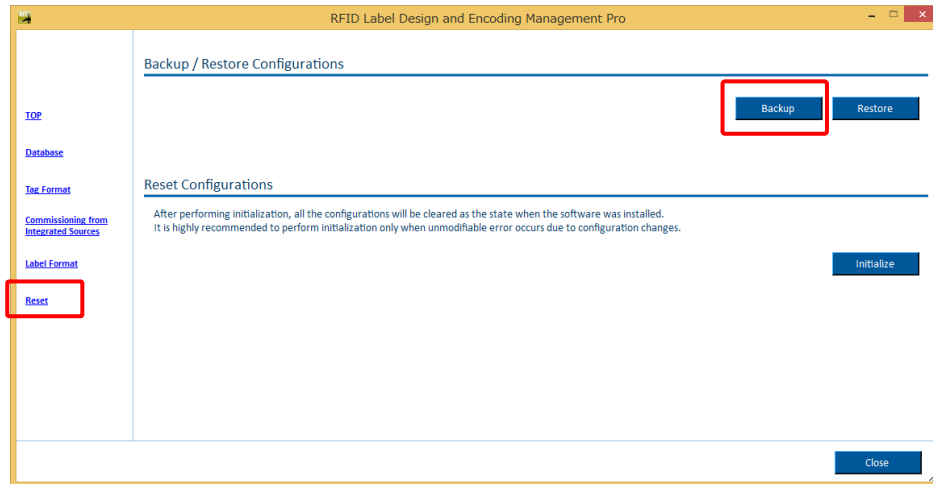
## 3 Cancel button

The print-only data setting under the edit is canceled and it returns to the label format list screen. (Please make sure to click the **Apply** button on the label format list screen to save the fixed setting).

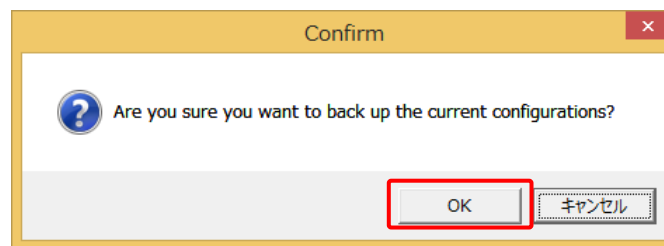


## 2.2.6 Backup Configurations

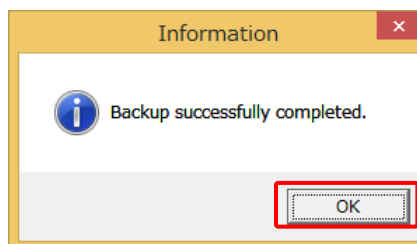
- (1) Select **Reset** from a category on the left side and then click the **Backup** button.



- (2) The confirmation message is displayed. Click the **OK** button.



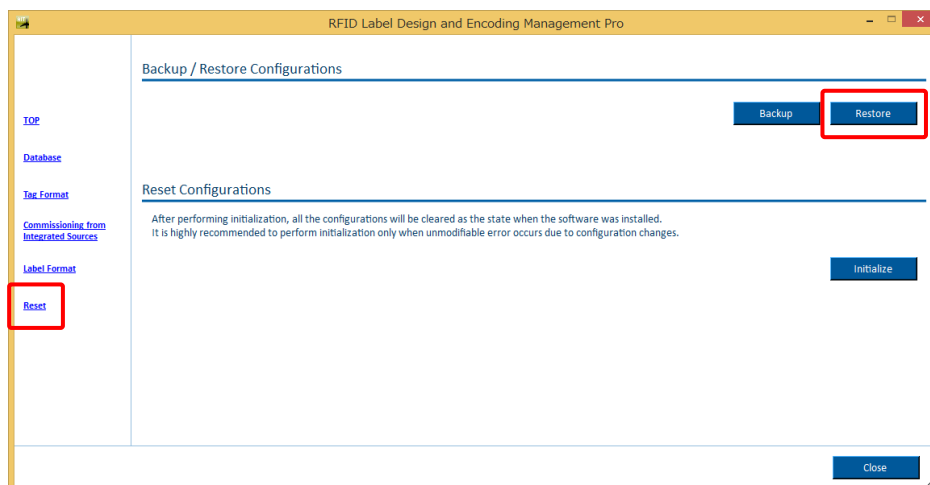
- (3) After specifying the destination folder, backup is automatically performed and "Backup.zip" is created in the folder you specified. After the backup is completed, an information dialog is displayed and then click the **OK** button.



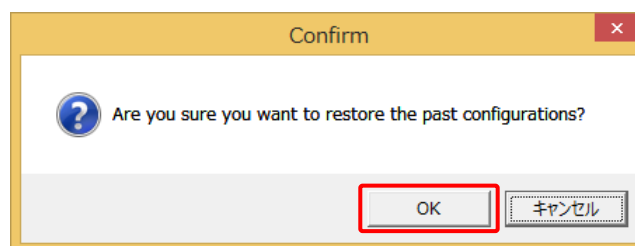
## 2.2.7 Restore Backup Configurations

---

- (1) Select **Reset** from a category on the left side and then click the **Restore** button.

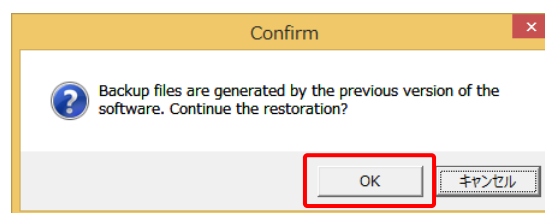


- (2) The confirmation message is displayed and then click the **OK** button.

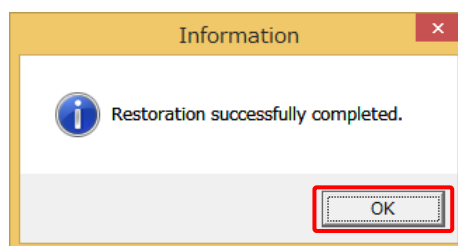


- (3) Select the "Backup.zip" file that you made in "2.2.6 Backup Configurations" from file selection dialogue.

- ☐ **Reference:** • In the case that the "Backup.zip" is created by older version, the following dialog is displayed and then click the **OK** button.

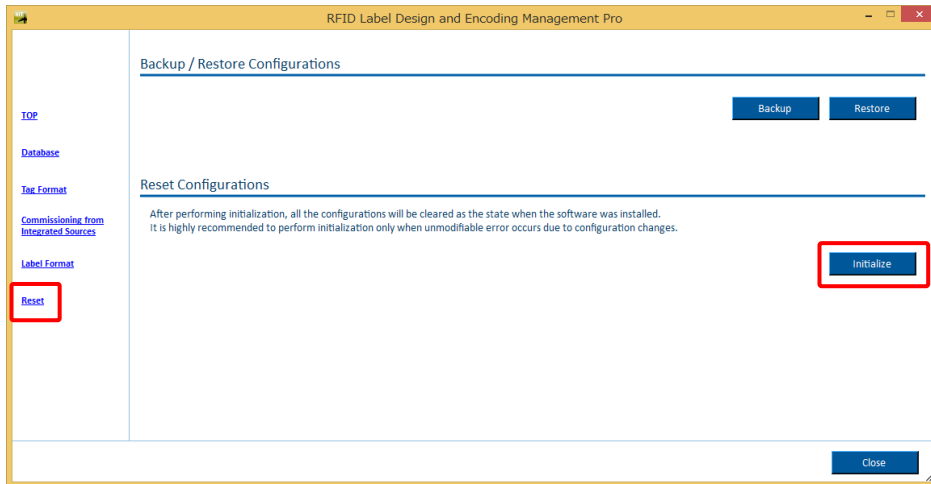


- (4) After the restoration is completed, an information dialog is displayed and then click the **OK** button.



## 2.2.8 Initialize Configurations

(1) Select **Reset** on the left-side menu and click the **Initialize** button.



**! Caution**      • After performing initialization, all the configurations will be cleared as the state when the software was installed.  
It is highly recommended to perform initialization only when unmodifiable error occurs due to configuration changes.

## 2.2.9 Close Settings Menu

(1) Click the **Close** button.



## 3 Commissioning from Integrated Sources

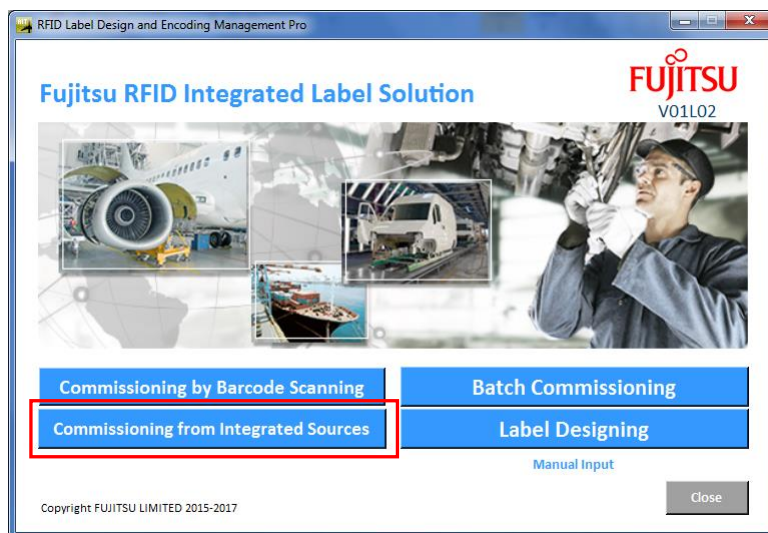
### 3.1 Start and Stop the Application

#### 3.1.1 Start the Application

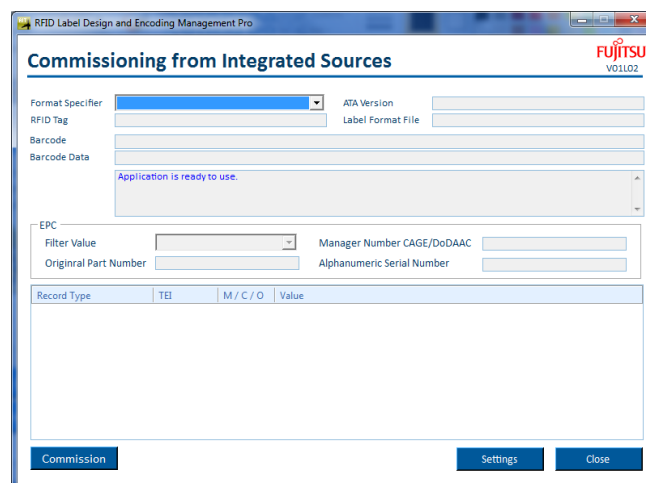
- (1) To start this application, click the icon of **RFID Label Design and Encoding Management Pro** that has been placed on the computer desktop.



- (2) Click the **Commissioning from Integrated Sources** button.



- (3) The main screen of Commissioning from Integrated Sources is displayed. The message “Application is ready to use.” displayed in the text box means that the application is properly running.

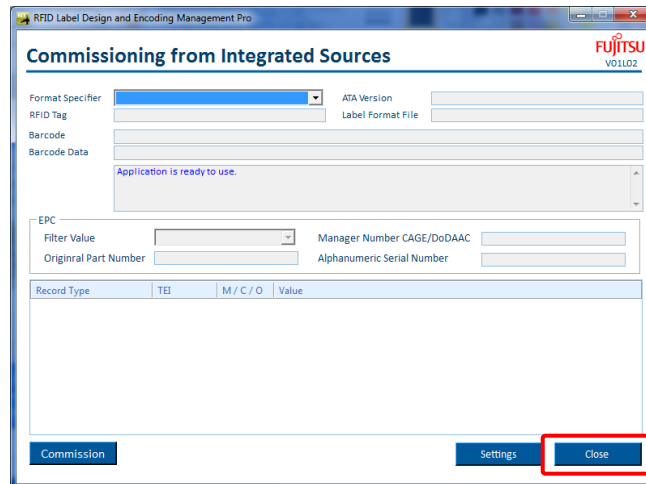


- 
- ! Caution      • Even if one attempts to start the application multiple times, only one screen for Commissioning from Integrated Sources will be opened.
- 

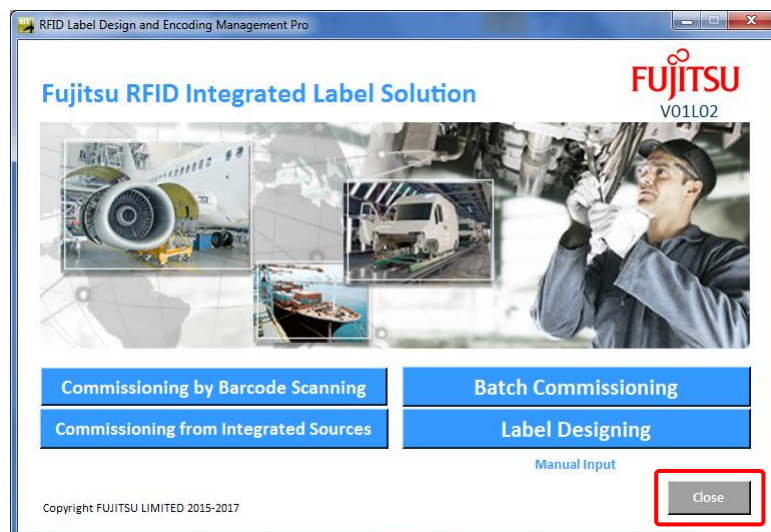
### 3.1.2 Stop the Application

---

- (1) To stop this application, click the **Close** button.



- (2) Then click the **Close** button on the menu screen.



## 3.2 Use Commissioning from Integrated Sources

### 3.2.1 Commission Tag (Manually Selecting Label Format)

- (1) In the case that **Manual** is selected for **Label Format Selection**, select a label format from the **Format Specifier** dropdown.

RFID Label Design and Encoding Management Pro

**Commissioning from Integrated Sources** FUJITSU V01L02

Format Specifier: PNO41-001003, PNO41-001004, PNO41-002001, PNO41-002002, PNO41-002003, PNO41-003001, PNO41-003002, PNO41-012001

RFID Tag: ATA Version: Label Format File:

Barcode: Barcode Data:

EPC Filter Value: Manager Number CAGE/DoDAAC: Original Part Number: Alphanumeric Serial Number:

Record Type	TEI	M / C / O	Value
-------------	-----	-----------	-------

Commission Settings Close

- (2) The defined TEI and EPC information is displayed.
- Put the focus in the **Barcode** field and read barcode using a barcode reader.

RFID Label Design and Encoding Management Pro

**Commissioning from Integrated Sources** FUJITSU V01L02

Format Specifier: PNO41-012001 ATA Version: 2016 (4.1) Label Format File: Sample41\_Multi\_Large\_001.btw

RFID Tag: FJ Integrated 8K

Barcode: Barcode Data:

EPC Filter Value: 0:All Others Manager Number CAGE/DoDAAC: [Same value with MFR/SPL] Original Part Number: Alphanumeric Serial Number: [Same value with SER/SEQ/UCN]

Record Type	TEI	M / C / O	Value
Birth Record	MFR	M	S0167
Birth Record	SER	C	
Birth Record	PNO	M	PNO41-012001
Birth Record	UIC	C	1
Birth Record	PDT	M	SAMPLE PRODUCT 012001
Birth Record	DMF	C	20170203
Birth Record	EXP	C	20201231
Current Data Record	PNR	C	PNO41-012001

Commission Settings Close

(3) The read barcode information is displayed in **Barcode** field.

RFID Label Design and Encoding Management Pro

**Commissioning from Integrated Sources** FUJITSU  
V01U02

Format Specifier: PNO41-012001 ATA Version: 2016 (4.1)  
RFID Tag: FJ Integrated 8K Label Format File: Sample41\_Multi\_Large\_001.btw

**Barcode**: SER R0001

Barcode Data

EPC  
Filter Value: 0:All Others Manager Number CAGE/DoDAAC: [Same value with MFR/SPL]  
Original Part Number: Alphanumeric Serial Number: [Same value with SER/SEQ/UCN]

Record Type	TEI	M / C / O	Value
Birth Record	MFR	M	S0167
Birth Record	SER	C	
Birth Record	PNO	M	PNO41-012001
Birth Record	UIC	C	1
Birth Record	PDT	M	SAMPLE PRODUCT 012001
Birth Record	DMF	C	20170203
Birth Record	EXP	C	20201231
Current Data Record	PNR	C	PNO41-012001

Commission Settings Close

- **Reference:** Sample barcodes for using sample database are included in the following file:

C:\Users\Public\RFID Label Design and Encoding Management  
Pro\SampleData\sample.pdf

- (4) After reading barcode, data is acquired from barcode and database according to the label format settings and automatically enter into the EPC and TEI fields.

Record type	TEI	M / C / U	Value
Birth Record	MFR	M	S0167
Birth Record	SER	C	R0001
Birth Record	PNO	M	PNO41-012001
Birth Record	UIC	C	1
Birth Record	PDT	M	SAMPLE PRODUCT 012001
Birth Record	DMF	C	20170203
Birth Record	EXP	C	20201231
Current Data Record	PNR	C	PNO41-012001

### 1 EPC

This area displays the values of EPC elements. Pre-configured data including extracted values from database and barcode is automatically entered and the fields are greyed out. The other fields need to be manually entered.

- ☐ **Reference:** In the case that **Allow any data to be edited** is enabled, all the elements become editable.

### 2 TEIs list

This area displays the values of TEIs. Pre-configured data including extracted values from database and barcode is automatically entered. The other fields which are colored in yellow need to be manually entered.

- ☐ **Reference:** In the case that **Allow any data to be edited**, all the elements become editable.

### 3 Barcode Data

This box displays the text acquired from barcode.



(5) After entering manual data and cofim values, click the **Commission** button.

RFID Label Design and Encoding Management Pro

**Commissioning from Integrated Sources** FUJITSU V01U02

Format Specifier: PNO41-012001 ATA Version: 2016 (4.1)  
RFID Tag: FJ Integrated 8K Label Format File: Sample41\_Multi\_Large\_001.btw  
Barcode:  
Barcode Data: SER R0001

2 Printing data has been successfully transmitted.

EPC  
Filter Value: 0:All Others Manager Number CAGE/DoDAAC: [Same value with MFR/SPL]  
Original Part Number: Alphanumeric Serial Number: [Same value with SER/SEQ/UCN]

Record Type	TEI	M / C / O	Value
Birth Record	MFR	M	S0167
Birth Record	SER	C	R0001
Birth Record	PNO	M	PNO41-012001
Birth Record	UIC	C	1
Birth Record	PDT	M	SAMPLE PRODUCT 012001
Birth Record	DMF	C	20170203
Birth Record	EXP	C	20201231
Current Data Record	PNR	C	PNO41-012001

1 Commission Settings Close

#### 1 Commission button

This button is used to perform the commissioning for the selected parts.

- ! Caution
- Please issue the label tags by the printer within three minutes after clicking the **Commission** button. After a lapse of three minutes, the print job will be automatically deleted from print queue.
  - Please suspend issuing the tags when an error message is displayed after clicking the **Commission** button.

- Reference: The print dialog is not displayed in this version of this application before commissioning in the case of using card printer. Please confirm the printer settings such as the **Card Settings** (Feeder or ATM Slot) in the **Label Format File** (.btw) before clicking the **Commission** button.

#### 2 Message Area

This area displays application messages. If commissioning is successfully performed, "Printing data has been successfully transmitted." is displayed.

If another message is displayed, please refer to "4 Troubleshooting" to look into the error cause.

### 3.2.2 Commission Tag (Automatically Selecting Label Format)

In the case that either of **DB column** or **Format Specifier in Barcode** is selected for **Label Format Selection**, the label format will be automatically selected after reading barcode.

- (1) Put the focus in the **Barcode** field and read barcode using a barcode reader.

RFID Label Design and Encoding Management Pro

**Commissioning from Integrated Sources** FUJITSU V01L02

Format Specifier: [Dropdown] ATA Version: [Text]  
RFID Tag: [Text] Label Format File: [Text]  
**Barcode**: PN PNO41-002002/SN SER41-0202-001  
Barcode Data: Application is ready to use.  
EPC: Filter Value: [Dropdown] Manager Number CAGE/DoDAAC: [Text]  
Original Part Number: [Text] Alphanumeric Serial Number: [Text]  
Record Type | TEI | M / C / O | Value  
[Empty Table]  
Commission Settings Close

- (2) Label format is automatically selected.

Data is acquired from barcode and database according to the label format settings and automatically enter into the EPC and TEI fields. The remaining operating procedure is same to 3.2.1 Commission Tag (Manually Selecting Label Format).

RFID Label Design and Encoding Management Pro

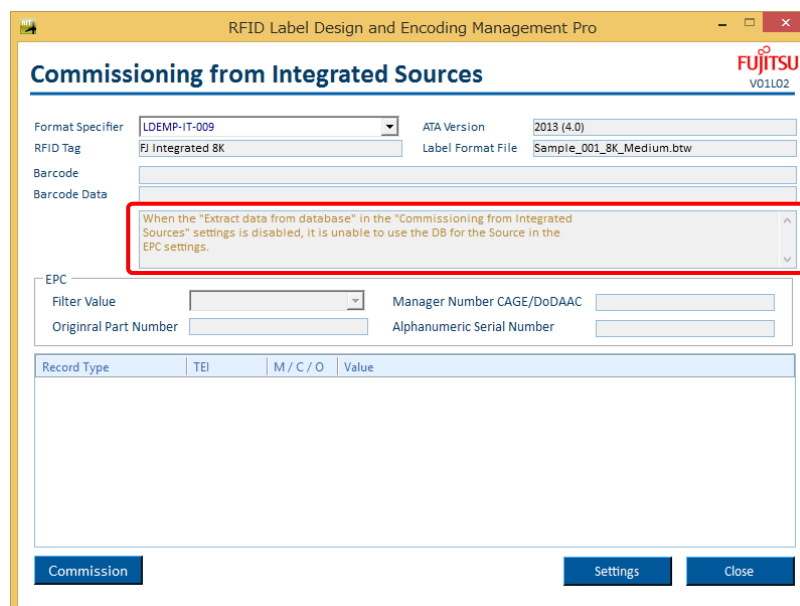
**Commissioning from Integrated Sources** FUJITSU V01L02

Format Specifier: PNO41-002002 ATA Version: 2016 (4.1)  
RFID Tag: FJ Integrated 8K Label Format File: Sample41\_Multi\_Medium\_001.btw  
Barcode: [Empty]  
Barcode Data: PN PNO41-002002/SN SER41-0202-001  
EPC: Filter Value: 0:All Others Manager Number CAGE/DoDAAC: [Same value with MFR/SPL]  
Original Part Number: [Text] Alphanumeric Serial Number: [Same value with SER/SEQ/UCN]  
Record Type | TEI | M / C / O | Value  
Birth Record | MFR | M | S0167  
Birth Record | SER | C | SER41-0202-001  
Birth Record | PNO | M | PNO41-002002  
Birth Record | UIC | C | 1  
Birth Record | PDT | M | SAMPLE PRODUCT 0202  
Birth Record | DMF | C | 20170203  
Birth Record | EXP | C | 20201231  
Current Data Record | PNR | C | PNO41-002002  
Commission Settings Close

## 4 Troubleshooting

### 4.1 Messages and Corrective Actions While using Commissioning from Integrated Sources

Messages are displayed in red or yellow in the following area.



- **Reference:**
- The message color indicates the possible cause of the error.  
**Yellow:** The error is probably caused by an operation mistake on this application (example: “Please enter search key”).  
**Red:** The error probably occurred by another cause (example: “The connection to database failed. Please confirm the Database settings”).
  - The “XXX”, “YYY”, and “ZZZ” are replaced with other words to specify the problematic points in the actual message.

Message	Cause and Corrective Action
When the "Extract data from database" in the "Commissioning from Integrated Sources" settings is enabled, it is also necessary to enable the "Use Database" in the "Database" settings.	This message is displayed if <b>Extract data from database</b> is enabled in settings specific to Commissioning from Integrated Sources but <b>Use Database</b> is not enabled in the database connection settings. Please verify the database connection settings.
The connection to database failed. Please confirm the Database settings.	This message is displayed when this application failed to connect with database. Please verify the database connection settings.

Message	Cause and Corrective Action
The column specified for the Search Key does not exist in the database. Please confirm the "Commissioning from Integrated Sources" settings.	This message is displayed when the column specified for search key is not found. Please verify settings specific to Commissioning from Integrated Sources.
The column specified for the Format Specifier does not exist in the database. Please confirm the "Commissioning from Integrated Sources" settings.	This message is displayed when the column specified for format specifier is not found. Please verify settings specific to Commissioning from Integrated Sources.
The column specified for the Done does not exist in the database. Please confirm the Database settings.	This message is displayed when the column specified for done column is not found. Please verify database connection settings.
The specified item [Search Key] not found.	This message is displayed when data record specified by search key is not found in database. Please confirm barcode data.
Multiple items are found by the search key [Search Key].	This message is displayed when multiple data records are found by search key. Please verify search key column in database (values in the column need to be unique).
Please enter search key [Search Key].	This message is displayed when acquired barcode data is empty. Please verify that the correct barcode is read.
Search key could not be extracted from barcode data properly.	This message is displayed when search key is not extracted properly. Please confirm the <b>Data Identifier</b> in settings specific to Commissioning from Integrated Sources is correctly configured.
Label format of the item [Format Specifier: XXX] is not defined.	This message is displayed when the label format for the part is not defined. Please verify label format settings.
There is no Format Specifier in the barcode data.	This message is displayed when format specifier is not extracted properly. Please verify the <b>Format Specifier in Barcode</b> in settings specific to Commissioning from Integrated Sources is correctly configured.
The barcode data format is invalid. Please confirm the Commissioning from Integrated Sources settings.	This message is displayed when scanned barcode is not in the format defined in settings. Please verify the <b>Barcode Format</b> in the settings specific to Commissioning from Integrated Sources.

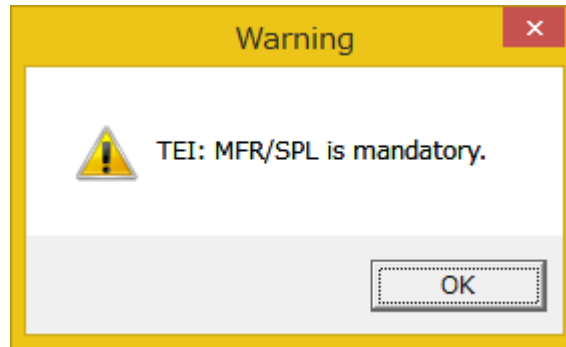
Message	Cause and Corrective Action
When the "Extract data from database" in the "Commissioning from Integrated Sources" settings is disabled, it is unable to use the DB for the Source in the TEI settings.	This message is displayed when the <b>Extract data from database</b> in settings specific to Commissioning from Integrated Sources is disabled but DB is selected for the data source in TEIs data source settings. Please verify TEIs data source settings.
When the "Extract data from database" in the "Commissioning from Integrated Sources" settings is disabled, it is unable to use the DB for the Source in the EPC settings.	This message is displayed when the <b>Extract data from database</b> in settings specific to Commissioning from Integrated Sources is disabled but DB is selected for the data source in EPC settings. Please verify EPC settings.
When the "Extract data from database" in the "Commissioning from Integrated Sources" settings is disabled, it is unable to use the DB for the Source in the Print Data settings.	This message is displayed when the <b>Extract data from database</b> in settings specific to Commissioning from Integrated Sources is disabled but DB is selected for the data source in print-only data settings. Please verify print-only data settings.
The specified DB column for TEI does not exist in database.	This message is displayed when the column specified for TEI data source is not found. Please verify TEIs source settings.
The specified DB column for EPC does not exist in database.	This message is displayed when the column specified for EPC data source is not found. Please verify EPC settings.
The specified DB column for print data does not exist in database.	This message is displayed when the column specified for print-only data source is not found. Please verify print-only data settings.
Invalid item data. [Details: No data in mandatory TEI field. [TEI: XXX]]	This message is displayed when no data is set in mandatory TEI. Please verify the data.
Invalid item data. [Details: Invalid character is used. [TEI: XXX]]	This message is displayed when an invalid character (e.g., comma, double quotation, or tilde) is included in the part data. Please verify the data.
Invalid item data. [Details: A number greater than the upper limit is specified. [TEI: XXX]]	This message is displayed when the TEI data is longer than the maximum length. Please verify the data.
Invalid item data. [Details: A number less than the lower limit is specified. [TEI: XXX]]	This message is displayed when the TEI data is shorter than the minimum length. Please verify the data.
Invalid item data. [Details: Character [XXX] is not permitted to use. [TEI: YYY]]	This message is displayed when an invalid character is included in the TEI data. Please verify the data.

Message	Cause and Corrective Action
Invalid item data. [Details: Data needs to be specified in the following format. [TEI: XXX] [Format: YYY]]	This message is displayed when a format error is detected for the TEI. Please verify the data.
Invalid item data. [Details: Specified value can not be converted into date format. [TEI: XXX]]	This message is displayed when a date format error is detected for the TEI. Please verify the data.
Invalid item data. [Details: Invalid date. [TEI: XXX] [TEI range: YYY]]	This message is displayed when an invalid date is used. Please verify the TEI data.
Invalid country code. [TEI: XXX]	This message is displayed when an invalid Country Code is used. Please verify the TEI data.
Invalid item data. [Details: It is not permitted to use only one either [TEI: XXX] or [TEI YYY].]	This message is displayed when an invalid combination of TEIs is detected. Please verify the TEI data.
Invalid item data. [Details: When "TEI:XXX" is used, "TEI:YYY" needs to be set as the following value. [value:ZZZ]]	This message is displayed when an invalid data value is detected. Please verify the TEI data.
Invalid item data. [Details: It is not permitted to use [TEI: XXX] in the case that [TEI: YYY] is not used.]	This message is displayed when an invalid combination of TEIs is detected. Please verify the TEI data.
Invalid item data. [No data in mandatory EPC field. [EPC: XXX]]	This message is displayed when no data is set in mandatory EPC element. Please verify the data.
Invalid item data. [Details: Invalid character is used. [EPC: XXX]]	This message is displayed when an invalid character is included in the EPC data. Please verify the EPC data.
Invalid item data. [Details: A number greater than the upper limit is specified. [EPC: XXX]]	This message is displayed when the EPC data is longer than the maximum length. Please verify the EPC data.
Invalid item data. [Details: A number less than the lower limit is specified. [EPC: XXX]]	This message is displayed when the EPC data is shorter than the minimum length. Please verify the EPC data.
Invalid item data. [Details: Character [XXX] is not permitted to use. [EPC: YYY]]	This message is displayed when an invalid character is included in the PEC data. Please verify the EPC data.
Invalid item data. [Details: Invalid filter value.]	This message is displayed when an invalid Filter Value is used. Please verify the Filter Value data.
Invalid item data. [Details: Invalid character is used. [Print Data (Header)]]	This message is displayed when an invalid character is included in the header of print-only data. Please verify the header name.

Message	Cause and Corrective Action
Invalid item data. [Details: Invalid character is used. [Print Data: XXX]]	This message is displayed when an invalid character is included in the print-only data. Please verify the print-only data.
An error occurred while commissioning. [Details: Label format file does not exist. [File: XXX]]	This message is displayed when the specified label format file (BTW file) in label format settings is not found. Please verify the correct label format file is located.
An error occurred while commissioning. [Details: An error occurred while encoding tag data. [Data Record No.: 1, Data size of Birth Record exceeds the upper limit.]]	This message is displayed when the amount of data specified for the Birth Record exceeds the allocated record length. Please revise the Birth Record data for the part.
An error occurred while commissioning. [Details: An error occurred while encoding tag data. [Data Record No.: 1, Data size of Current Data Record exceeds the upper limit.]]	This message is displayed when the amount of data specified for the Current Data Record exceeds the allocated record length. Please revise the Current Data Record data for the part.
An error occurred while commissioning. [Details: An error occurred while encoding tag data. [Data Record No.: 1, Data size of Lifecycle Record exceeds the upper limit.]]	This message is displayed when the amount of data specified for the Lifecycle Record exceeds the allocated record length. Please revise the Lifecycle Record data for the part.
An error occurred while commissioning. [Details: An error occurred while encoding tag data. [Data Record No.: 1, Data size of Utility Record exceeds the upper limit.]]	This message is displayed when the amount of data specified for the Utility Record exceeds the allocated record length. Please revise the Utility Record data for the part.
An error occurred while commissioning. [Details: BarTender is not installed.] or An error occurred while commissioning. [Details: BarTender program file is not found.]	This message is displayed when the BarTender software is not installed. Please install BarTender and/or confirm proper installation.

## 4.2 Messages and Corrective Actions While Setting Configurations

Messages while setting configurations are displayed in dialog as below.



Message	Cause and Corrective Action
Failed to open database. [Details: XXX]	This message is displayed when database connection test fails. Please revise the ODBC connection strings.
Invalid value is specified for XXX or Invalid value is specified for XXX. [Line: YYY].	This message is displayed when an invalid value is specified for setting item. Please enter the correct value.
Please enter XXX. or Please enter XXX. [Line: YYY].	This message is displayed when a required item is not configured. Please enter the value for the setting item.
Please configure XXX. or Please configure XXX. [Line: YYY].	This message is displayed when a required item is not selected. Please select the setting item.
Specified XXX already exists. or Specified XXX already exists. [Line: YYY]	This message is displayed when the Format Specifier does not exist in the database table. Please change Format Specifier to an existing column.
Please enter a greater number than Min in Max field. [Line: XXX]	This message is displayed when the Min is set as greater number than Max. Please enter greater value than Min into the Max field.
[Tag Format: XXX] can not be applied to [RFID Tag: YYY]. [Line: ZZZ]	This message is displayed an invalid combination of tag format and record type is detected. Please change RFID tag ("FJ Integrated 8K" is available for only Multi-Record and "FJ Integrated 1K" is available for only Dual-Record).



Message	Cause and Corrective Action
Up to 3 items can be specified as Disp Item.	This message is displayed when more than 3 TEIs are defined as Disp Item. Please select less than 4 TEIs for Disp Item.
TEI: XXX is mandatory.	This message is displayed when the Use check-box of mandatory TEI is not checked. Please check the check-boxes of all the mandatory TEIs.
[TEI: XXX] can not be used with [TEI: YYY].	This message is displayed when an invalid combination of TEIs is detected. Please revise the combination.
It is not permitted to use only one either [TEI: XXX] or [TEI YYY].	This message is displayed when an invalid combination of TEIs is detected. Please check both of the TEIs or remove the checks on the check-boxes of both TEIs.
It is not permitted to use [TEI: XXX] in the case that [TEI: YYY] is not used.	This message is displayed when an invalid combination of TEIs is detected. Please check both of the TEIs or remove the checks on the check-boxes of both TEIs.
One of the MFR and SPL needs to be used in TEIs data settings in the case that manager number in EPC is configured as same value with the TEI in Birth Record. [Line: XXX]	This message is displayed when [TEI: MFR/SPL] is not used in TEIs data source settings even though the <b>Same value with MFR/SPL In Birth Record/Utility Record</b> is selected for Manager Number CAGE/DoAAC in EPC settings. Please check the check-box of MFR/SPL.
PNO needs to be used in TEIs data settings in the case that original part number in EPC is configured as same value with the TEI in Birth Record. [Line: XXX]	This message is displayed when [TEI: PNO] is not used in TEIs data source settings even though the <b>Same value with PNO In Birth Record/Utility Record</b> is selected for Original Part Number in EPC settings. Please check the check-box of PNO.
One of the SER, SEQ, and UCN needs to be used in TEIs data settings in the case that alphanumeric serial number in EPC is configured as same value with the TEI in Birth Record. [Line: XXX]	This message is displayed when [TEI: SER/SEQ/UCN] is not used in TEIs data source settings even though the <b>Same value with SER/SEQ/UCN In Birth Record/Utility Record</b> is selected for Alphanumeric Serial Number in EPC settings. Please check the check-box of SER/SEQ/UCN.

Message	Cause and Corrective Action
It is not permitted to use UIC in TEIs data settings in the case that another identifier than SER / SEQ / UCN is used for alphanumeric serial number in EPC. [Line: XXX]	This message is displayed when [TEI: UIC] is used in TEIs data source settings even though another identifier than SER/SEQ/UCN is used for Alphanumeric Serial Number in EPC settings. Please remove the check on check-box of UIC.