



RFID Label Design and Encoding Management Pro

User's Guide Batch Commissioning

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Version 1.30

Preface

This document explains how to use the Batch Commissioning (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 or Windows 8.1, 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 7 environment.

■ Other Notes

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- The content of this document may change without prior notice.

■ Revision history

Edition	Date issued	Changes
Version 1.20	September 2015	Initial version released. Add Commissioning from 2D and Batch Commissioning
Version 1.21	October 2015	Small changes.
Version 1.22	October 2016	For the first enhancement in 2016
Version 1.30	March 31, 2017	Enhancement for ATA Spec 2000 Rev. 2016 support

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1 Function Overview of Batch Commissioning

1.1 Overview

This application can extract data records from a database in order to initialize RFID tags with the data in the ATA formats specified in ATA Spec2000 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
Batch Commissioning	Extract data records from a database in order to initialize RFID tags with the data in the ATA formats specified in ATA Spec2000 Chapter 9-5 and prints the labels on the RFID tags by RFID printer.
Configurations	Configuration 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">Explains how to use the Manual Input application of "RFID Label Design and Encoding Management Pro".
RFID Label Design and Encoding Management Pro User's Guide (Commissioning by Barcode Scanning)	<ul style="list-style-type: none">Explains how to use the Commissioning by Barcode Scanning application of "RFID Label Design and Encoding Management Pro".
RFID Label Design and Encoding Management Pro User's Guide (Commissioning from Integrated Sources)	<ul style="list-style-type: none">Explains how to use the Commissioning from Integrated Source application of "RFID Label Design and Encoding Management Pro".
RFID Label Design and Encoding Management Pro User's Guide (Batch Commissioning)	<ul style="list-style-type: none">This documentExplains how to use the Batch Commissioning application of "RFID Label Design and Encoding Management Pro".

Manual title	Description
RFID Data Management Pro & RFID Label Design and Encoding Management Pro User's Guide (Appendixes)	<ul style="list-style-type: none"> 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

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.

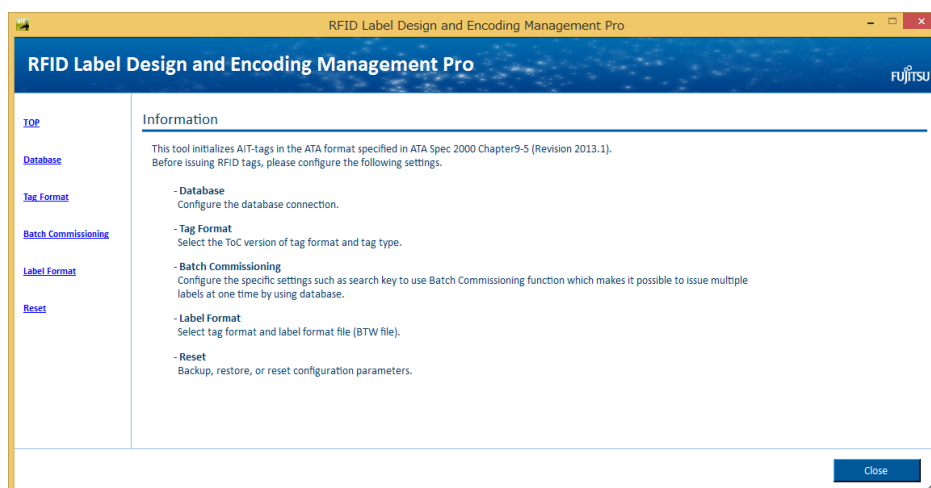
If the cause of the error cannot be identified, please make an inquiry to Fujitsu Customer Support.

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.



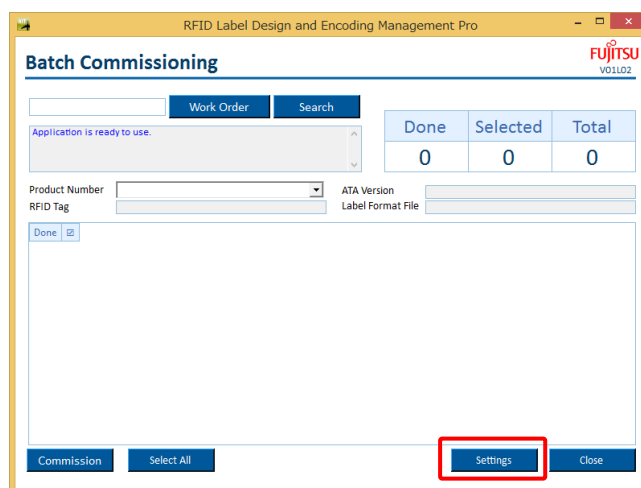
Menu Option	Description
TOP	This option is selected by default to show the brief descriptions about configuration options.
Database	This option is used to configure the database connection to the database that stores parts information for the tag commissioning. This application uses an ODBC driver for the database connection. Please refer to the 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 the section “2.2.3 Tag Format Settings” for details.
Batch Commissioning	This option is used to set application parameters for the Batch Commissioning application. Please refer to the section “2.2.4 Settings Specified to Batch Commissioning” for details.
Label Format	This option is used to specify encoding and printing data configuration. Please refer to the 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"> - “2.2.6 Backup Configurations“ - “2.2.7 Restore Backup Configurations” - “2.2.8 Initialize Configurations”
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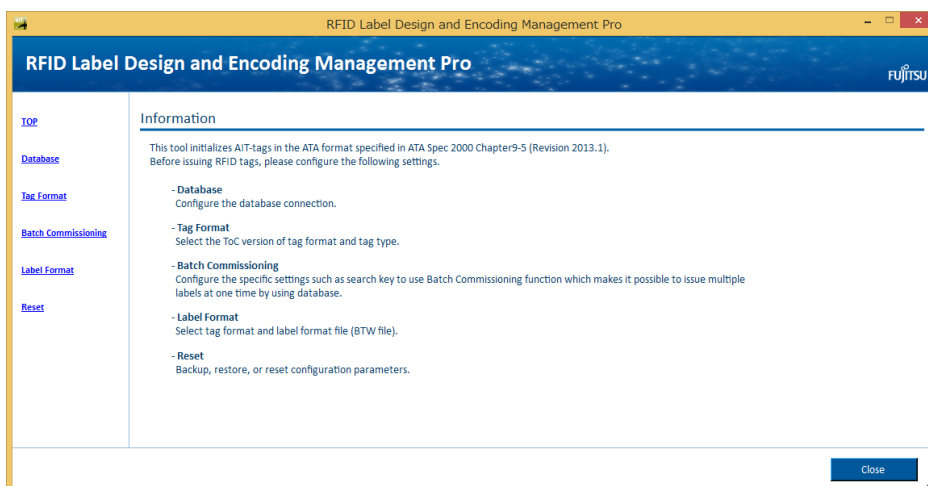
2.2 Operating Procedure for Settings

2.2.1 Start Settings

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

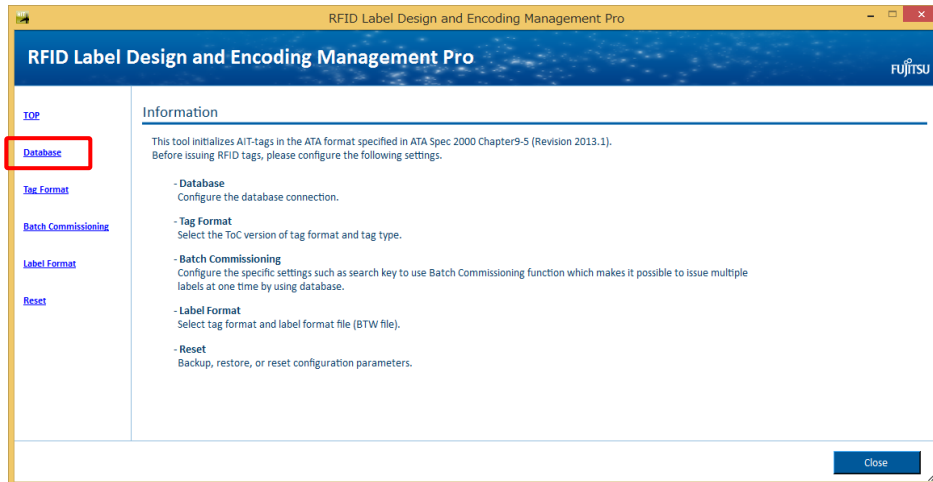


- (2) The following configurations menu is displayed.



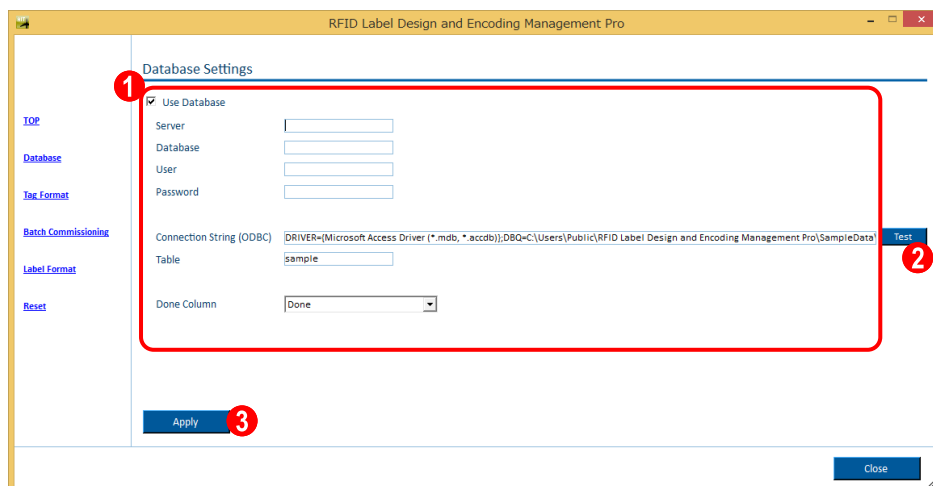
2.2.2 Database Connection Settings

- (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)
Use Database	The check-box is enable to extract data from database.

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.

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 (32-bit) 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 Format Specifier).	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 date field where the commissioning date is to be stored (the column is defined as the Done Column).	Required only if using “Done Column”.
The database table needs to have columns set as string fields where the TEI elements and the EPC elements complying with ATA Standards are stored.	Date elements need to be stored in the “YYYYMMDD” format.
The values for EPC: Alphanumeric Serial Number (or TEI: SER/SEQ/UCN when data is extracted with TEI) are unique in the database table.	
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 Batch Commissioning”).	

2.2.3 Tag Format Settings

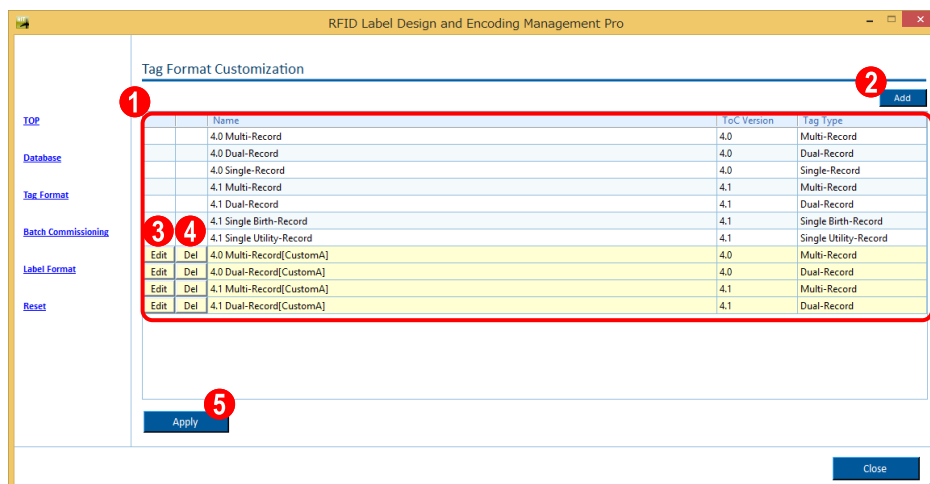
2.2.3.1 Tag Format List Screen

- (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 Section 3.2.3.3 “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

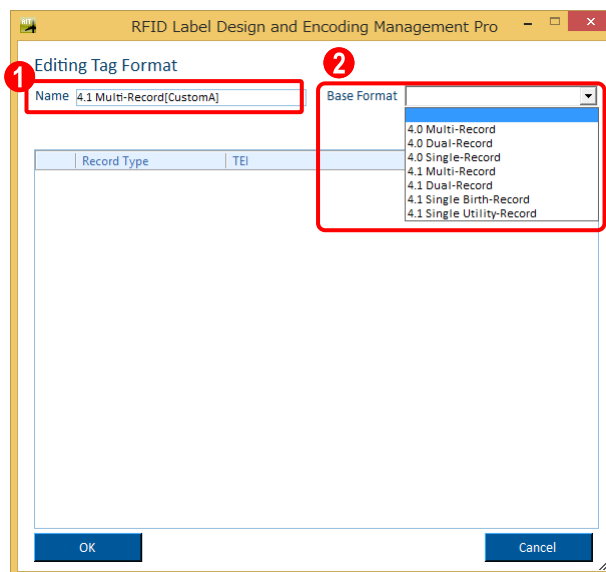
This button is used to save the changes on tag formats.

! 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 Label Format Settings” for the label format and TEI source settings).
-

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.

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	NSN	O	13	13
Birth Record	ICC	O	6	6
Birth Record	FAB	O	5	5
Current Data Record	PNR	C	1	32
Current Data Record	PML	C	1	100
Current Data Record	CND	C	3	3
Current Data Record	EXP	C	8	8
Current Data Record	TDN	C	1	32
Current Data Record	HAZ	C	6	6
Current Data Record	HAZ	C	6	6
Current Data Record	HAZ	C	6	6
Current Data Record	ONR	C	2	5
Current Data Record	LAC	C	1	13
Current Data Record	ASN	C	1	11
Del Current Data Record	DOW	O	1	8
Del Current Data Record	DTT	O	1	8
Del Current Data Record	DOH	O	1	8

OK Cancel

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. Conditional TEIs are set as “C”. 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.

! 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

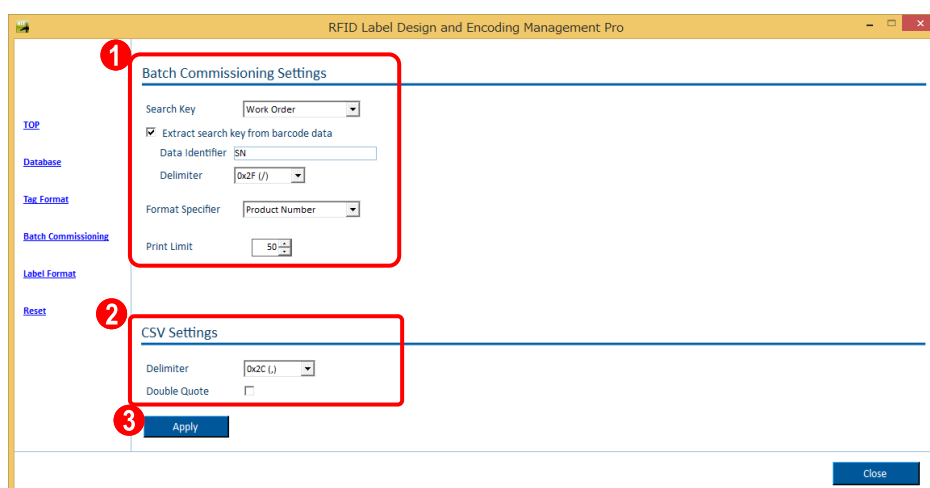
2.2.4 Settings Specified to Batch Commissioning

(1) Click the **Batch Commissioning** 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 Batch Commissioning Settings

Item	Description
Search Key	Column of the database table to be used to locate a part record for Batch Commissioning

Extract search key from barcode data	<p>Check box to enable to extract search key from string such as 2D barcode information.</p> <p>The search key will be between the specified Target String and Delimiter:</p> <ul style="list-style-type: none"> • Data Identifier: Sequence of characters immediately preceding the search key value. • Delimiter: Character placed immediately after the search key value.
Format Specifier	Column in the database table used for specifying the label format (required)
Print Limit	The maximum number of tags to be commissioned in one operation. (10 to 10000)

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 the changes to Batch Commissioning.

! 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.

☐ **Reference:** The text below provides an example of an “Extract search key from barcode data”

Assuming the following parameters have been set:

- Target String: **WN**
- Delimiter: **/**

When the following string is entered,

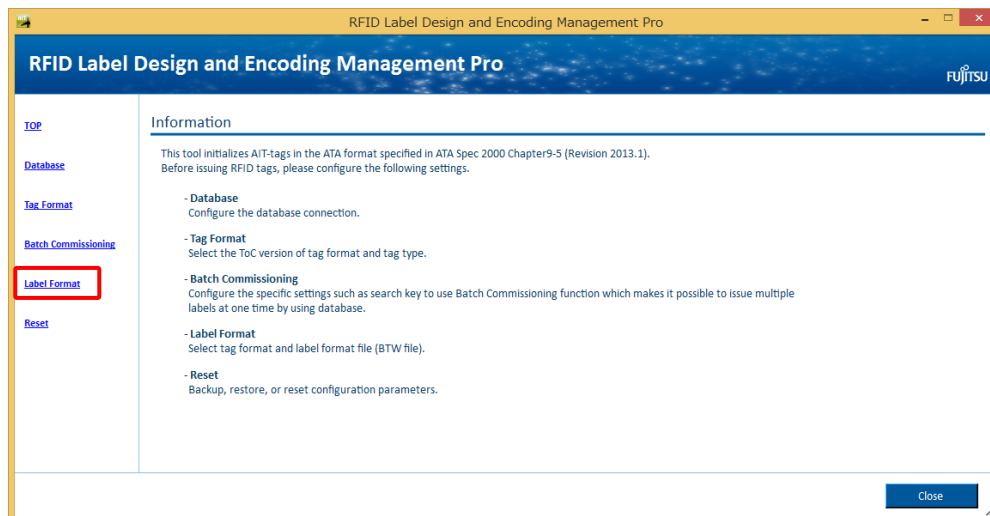
WN 0000-00001/MC S1067

the string “0000-00001” is set as the search key. (Start point of extraction is defined as the text starting after “WN” and ending at the delimiter “/”.)

2.2.5 Label Format Settings

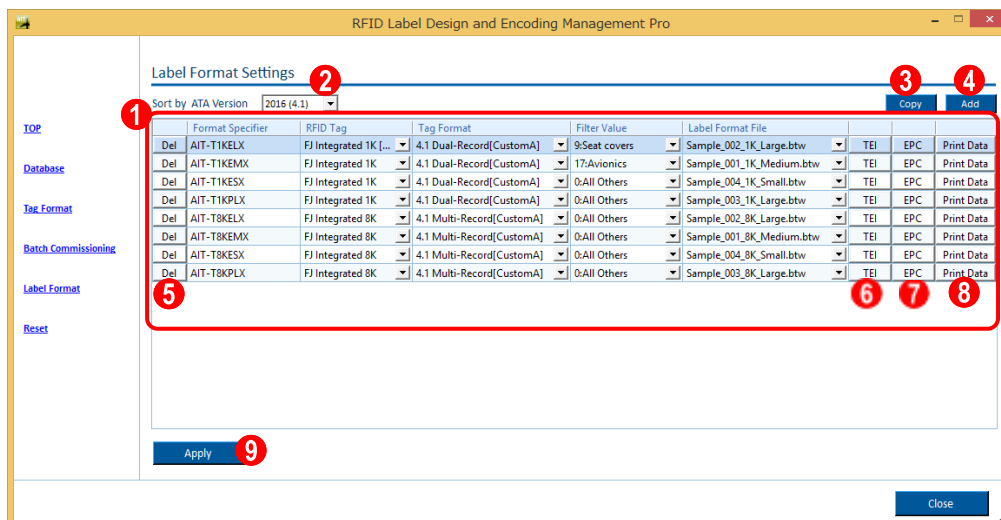
2.2.5.1 Label Format List Screen

(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.
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).

! 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

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 Setting” 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.

! Caution

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

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, set the 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"> • DB: Extract data from database. The source column is specified in the DB Column field. • Barcode: Extract data from barcode. The corresponding data name is specified in the Barcode Data Identifier field. • Fixed: Use the same value for every commissioning. The value is set in the Fixed Value field. • Today: Set the date when the commissioning is performed as data (YYYYMMDD format). Only available for “DMF”. • Manual: Manually enter the data value.

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 DB Column is selected in the Source 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 Barcode is selected in the Source field.
Fixed Value	Value to be set to the TEI. This item is required to be configured in the case that Fixed 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

The screenshot shows the 'Editing EPC' dialog box with the following sections and options:

- EPC Header** (1): ADI (0x3B)
- Filter Value** (2):
 - ☒ Fixed Value: 6:Pallet
 - ☐ DB Column: [dropdown]
 - ☐ Barcode Data Identifier: [text box]
 - ☐ Manual Input: [text box]
 - ☐ Displtem
- Manager Number CAGE/DoDAAC** (3):
 - ☒ Same value with MFR/SPL in Birth Record/Utility Record
 - ☐ DB Column: [dropdown]
 - ☐ Barcode Data Identifier: [text box]
 - ☐ Fixed Value: [text box]
 - ☐ Manual Input: [text box]
 - ☐ Displtem
- Original Part Number** (4):
 - ☒ Same value with PNO in Birth Record/Utility Record
 - ☐ DB Column: [dropdown]
 - ☐ Barcode Data Identifier: [text box]
 - ☐ Fixed Value: [text box]
 - ☐ Manual Input: [text box]
 - ☐ Not Use
 - ☐ Displtem
- Alphanumeric Serial Number** (5):
 - ☒ Same value with SER/SEQ/UCN in Birth Record/Utility Record
 - ☐ DB Column: # + [dropdown]
 - ☐ Barcode Data Identifier: # + [text box]
 - ☐ Manual Input: [text box]
 - ☐ Displtem
- Buttons** (6, 7): OK and 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 Batch Commissioning 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 Batch Commissioning 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 Batch Commissioning 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 Batch Commissioning 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.

-
- **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	<p>This area is used to choose the way to get print-only data.</p> <ul style="list-style-type: none"> • DB: Extract the value from database (the column of the database table needs to be specified). • Barcode: Extract the value from barcode (the data name in the barcode needs to be specified). • Fixed: Use the same value for every commissioning. The value is set in the "Fixed Value" field.
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 DB is selected in the Source 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 Barcode is selected in the Source field.

Fixed Value	Value to be set to the print-only data. This item is required to be configured in the case that Fixed is selected in the Source field.
-------------	--

2 OK button

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

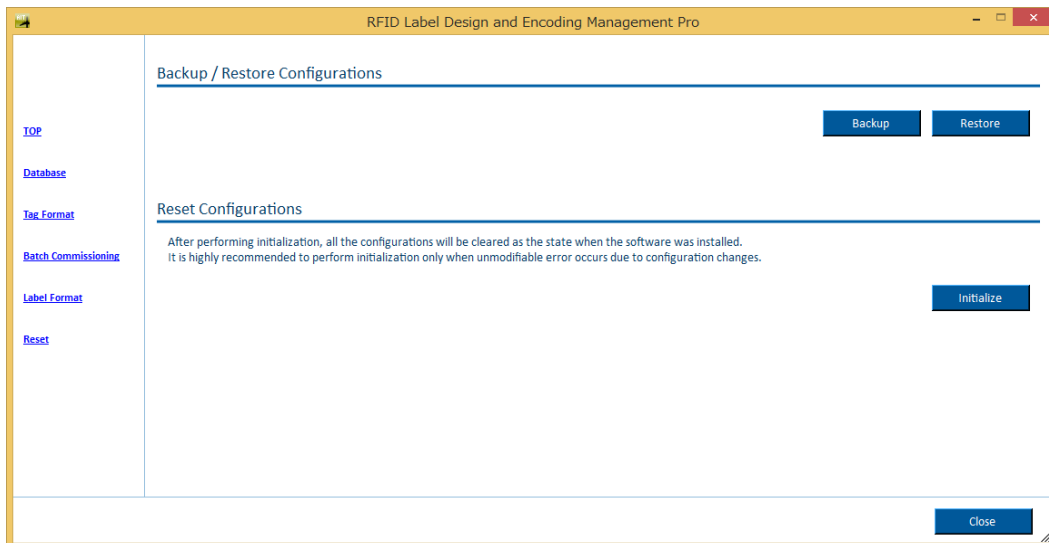
! Caution It is necessary to click the **Apply** button on tag format list screen to save the added tag format.

3 Cancel button

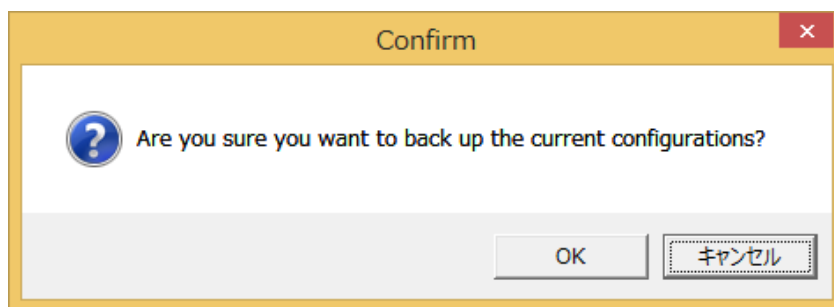
The print-only data setting under the edit is canceled and it returns to the label format list screen. (Please make sure to click the **Apply** button on the label format list screen to save the fixed setting).

2.2.6 Backup Configurations

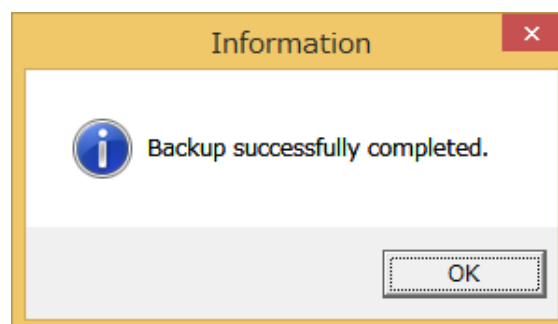
- (1) Select **Reset** from a category on the left side and then click the **Backup** button.



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

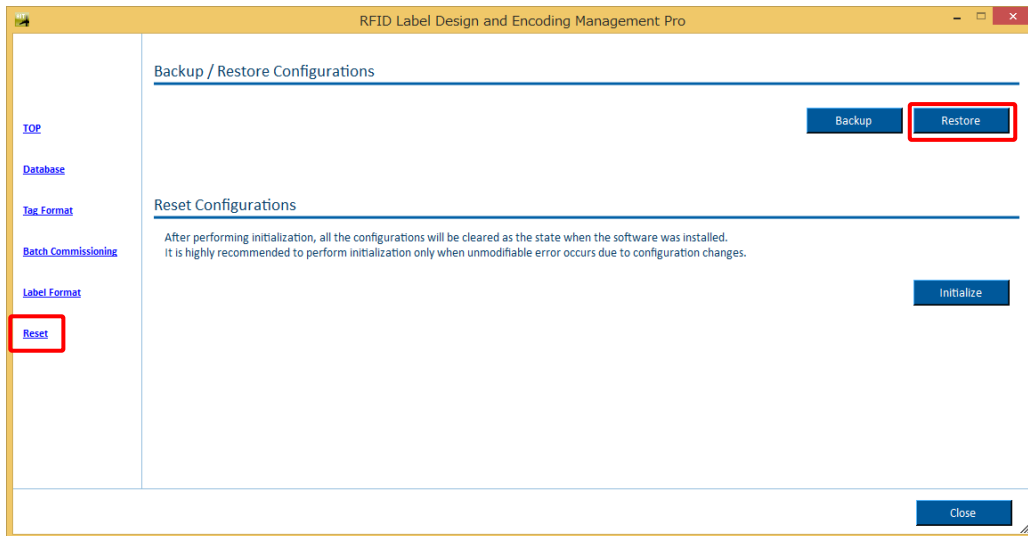


- (3) After specifying the destination folder, backup is automatically performed and "Backup.zip" is created in the folder you specified. After the backup is completed, an information dialog is displayed and then click the **OK** button.

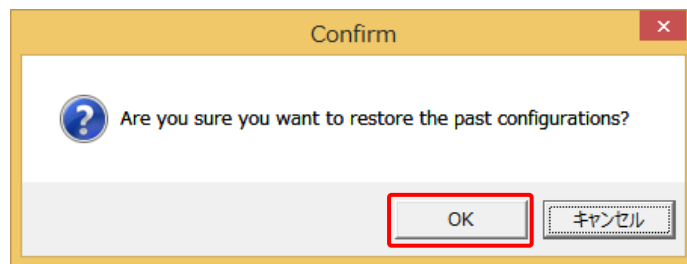


2.2.7 Restore Backup Configurations

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

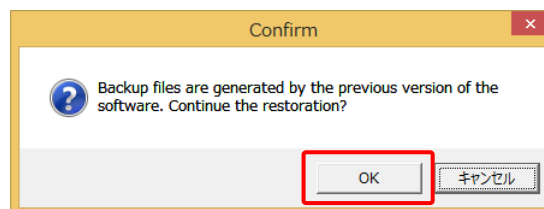


- (2) The confirmation message is displayed and then click the **OK** button.

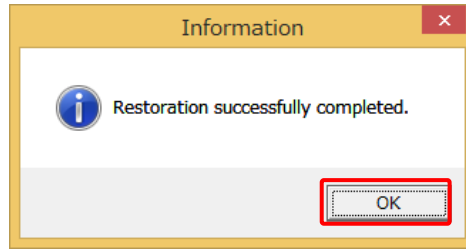


- (3) Select the "Backup.zip" file that you made in "2.2.6 Backup Configurations" from file selection dialogue.

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

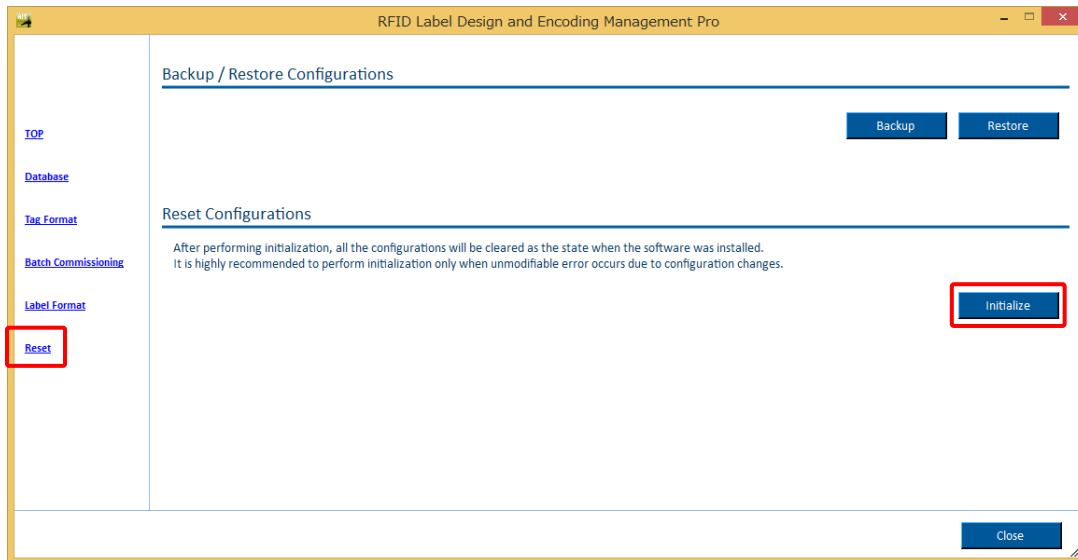


- (4) After the restoration is completed, an information dialog is displayed and then click the **OK** button.



2.2.8 Initialize Configurations

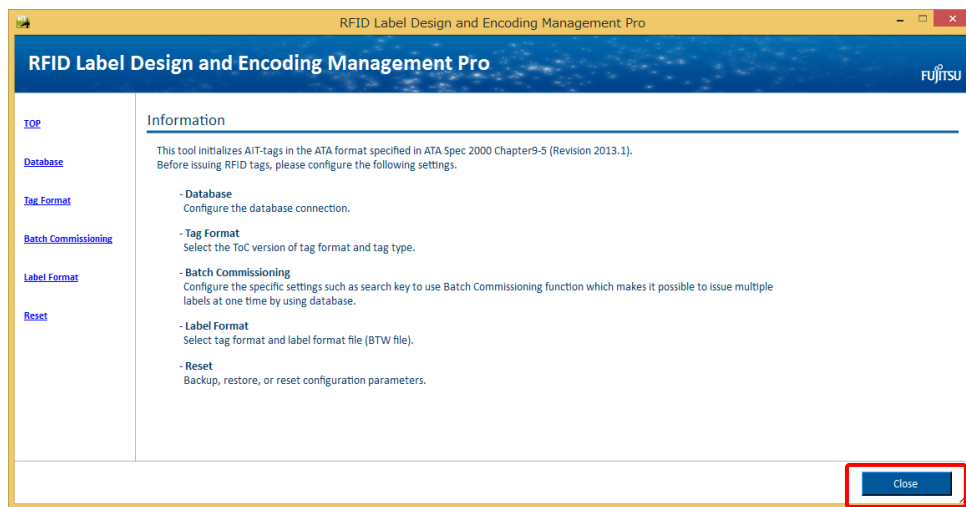
- (1) Select **Reset** on the left-side menu and click the **Initialize** button.



! 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 Batch Commissioning

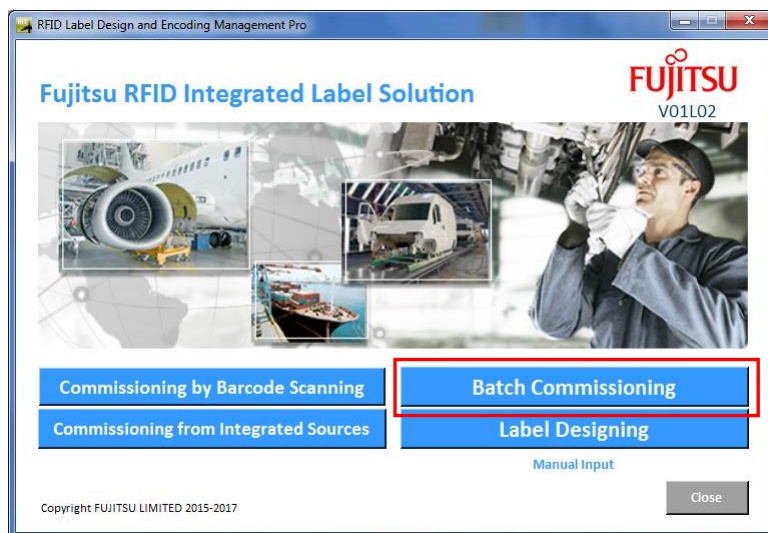
3.1 Start and Stop the Application

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.

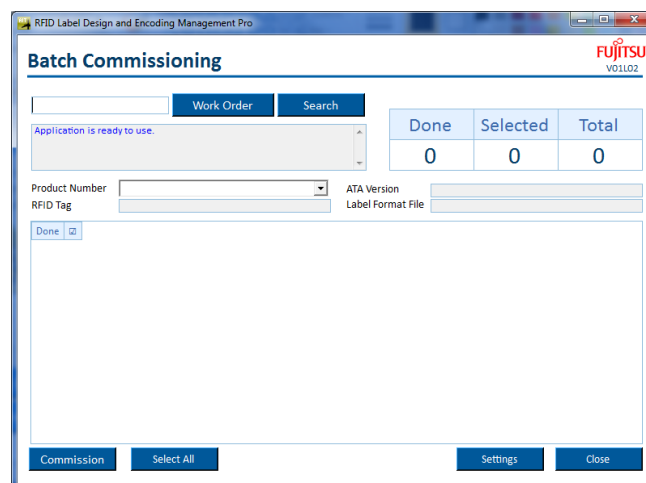


- (2) Click the **Batch Commissioning** button.



- (3) The main screen of Batch Commissioning is displayed.

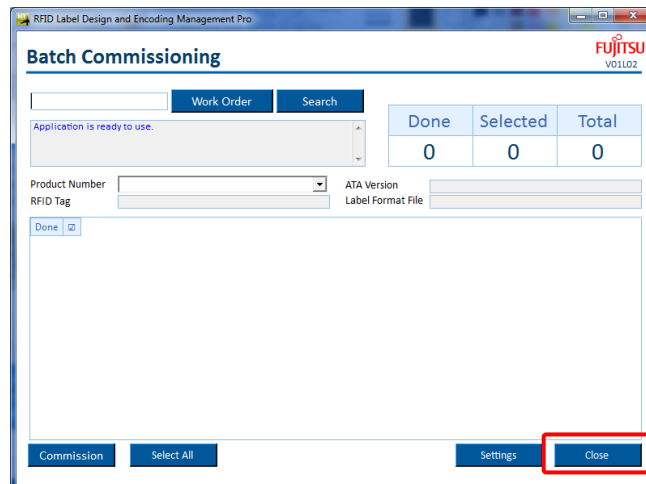
The message "Application is ready to use." displayed in the text box means that the application is properly running.



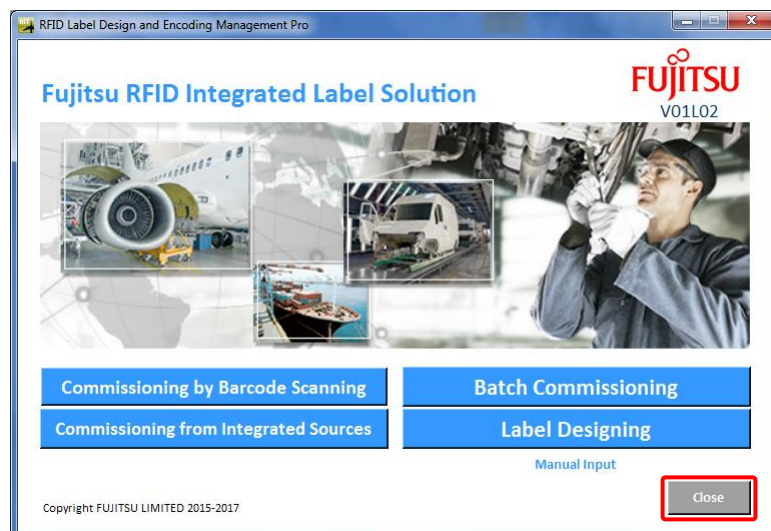
-
- ! Caution • Even if one attempts to start the application multiple times, only one screen for Batch Commissioning will be opened.
-

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.

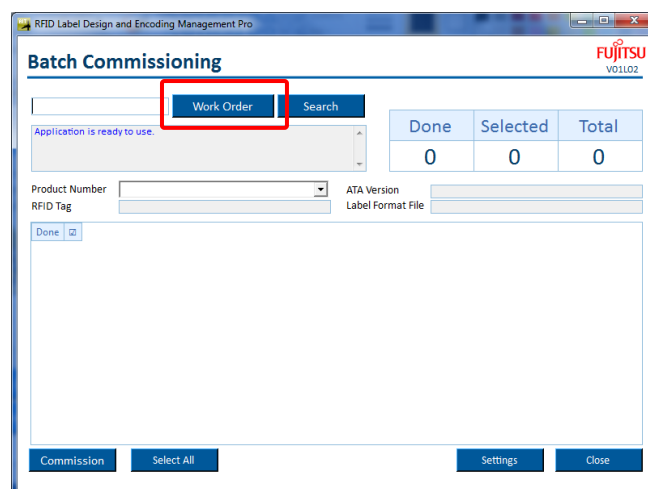


3.2 Use Batch Commissioning

3.2.1 Acquire Parts Information

3.2.1.1 Select Work Order from List

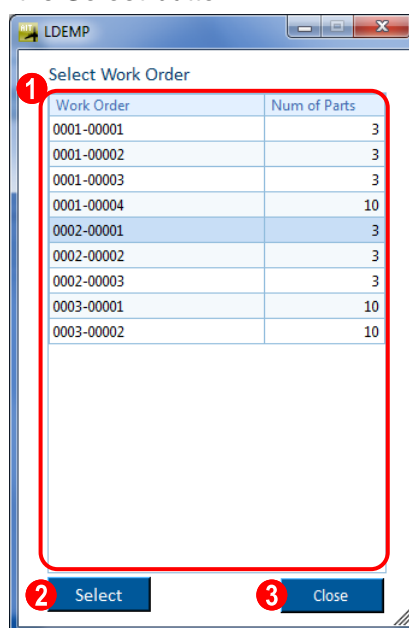
(1) Click the **Work Order** button.



- ! Caution
- The text of “Work Order” button varies depending upon the name of database column which is set as “Search Key” column in “3.2.4 Settings Specified to Batch Commissioning”. If the “Test” is the name of “Search Key” column, the text of the button shall be “Test”.

(2) Work Order are displayed on a list.

Select Work Order and click the **Select** button.



1 Work Order list

This area displays a list of Work Order in database.

The number of parts contained in Work Order is displayed in the **Num of Parts** column.

2 Select button

This button is used to select Work Order and return to the main screen of the Batch Commissioning.

3 Close button

This button is used to return to the main screen of the Batch Commissioning without selecting Work Order

(3) Parts data is displayed in a list (parts are listed by Product Number).

RFID Label Design and Encoding Management Pro

Batch Commissioning FUJITSU V01L02

0002-00001 Work Order Search

Done	Selected	Total
0	3	3

Product Number PNO41-002001 ATA Version 2016 (4.1)

RFID Tag FJ Integrated 8k Label Format File Sample41_Multi_Large_001.btw

Done	MFR	SER	PNO	UIC	PDT	DMF	EXP	PNR
<input checked="" type="checkbox"/>	S0167	SER41-0201-001	PNO41-002001	1	SAMPLE PRODUCT 0201	20170202	20201231	PNO41-002001
<input checked="" type="checkbox"/>	S0167	SER41-0201-002	PNO41-002001	1	SAMPLE PRODUCT 0201	20170202	20201231	PNO41-002001
<input checked="" type="checkbox"/>	S0167	SER41-0201-003	PNO41-002001	1	SAMPLE PRODUCT 0201	20170202	20201231	PNO41-002001

Commission Deselect All Settings Close

! Caution

- The text of “Product Number” button varies depending upon the name of database column which is set as “Format Specifier” column in “3.2.4 Settings Specified to Batch Commissioning”. If the “Test” is the name of “Format Specifier” column, the text of the button shall be “Test”.

3.2.1.2 Manually Enter Work Order

(1) Input Work Order manually and click the **Search** button.

RFID Label Design and Encoding Management Pro

Batch Commissioning FUJITSU
V01L02

0002-00001 Work Order Search

Application is ready to use.

Done	Selected	Total
0	0	0

Product Number PNO41-002001 ATA Version 2016 (4.1)

RFID Tag FJ Integrated 8K Label Format File Sample41_Multi_Large_001.btw

Done ☐

Commission Select All Settings Close

(2) Parts data is displayed in a list (parts are listed by Product Number).

RFID Label Design and Encoding Management Pro

Batch Commissioning FUJITSU
V01L02

0002-00001 Work Order Search

Application is ready to use.

Done	Selected	Total
0	3	3

Product Number PNO41-002001 ATA Version 2016 (4.1)

RFID Tag FJ Integrated 8K Label Format File Sample41_Multi_Large_001.btw

Done	MFR	SER	PNO	UIC	PDT	DMF	EXP	PNR
<input checked="" type="checkbox"/>	S0167	SER41-0201-001	PNO41-002001	1	SAMPLE PRODUCT 0201	20170202	20201231	PNO41-002001
<input checked="" type="checkbox"/>	S0167	SER41-0201-002	PNO41-002001	1	SAMPLE PRODUCT 0201	20170202	20201231	PNO41-002001
<input checked="" type="checkbox"/>	S0167	SER41-0201-003	PNO41-002001	1	SAMPLE PRODUCT 0201	20170202	20201231	PNO41-002001

Commission Deselect All Settings Close

3.2.2 Commission Tag

(1) After selecting Work Order, select Product Number.

The parts for the selected Product Number are displayed in a list.

Select the parts to be commissioned and click the **Commission** button.

(Parts from different Product Numbers can not be commissioned in the same operation.)

RFID Label Design and Encoding Management Pro

Batch Commissioning FUJITSU V01L02

0002-00001 Work Order Search

Done	Selected	Total
0	1	3

Product Number PNO41-002001 ATA Version 2016 (4.1)

RFID Tag FJ Integrated 8K Label Format File Sample41_Multi_Large_001.btw

Done	MFR	SER	PNO	UIC	PDT	DMF	EXP	PNR
<input checked="" type="checkbox"/>	S0167	SER41-0201-001	PNO41-002001	1	SAMPLE PRODUCT 0201	20170202	20201231	PNO41-002001
<input type="checkbox"/>	S0167	SER41-0201-002	PNO41-002001	1	SAMPLE PRODUCT 0201	20170202	20201231	PNO41-002001
<input type="checkbox"/>	S0167	SER41-0201-003	PNO41-002001	1	SAMPLE PRODUCT 0201	20170202	20201231	PNO41-002001

Commission Deselect All Settings Close

1 Product Number

This dropdown list is used to select label. Parts of the label format is displayed after selected.

2 ATA Version

This area displays the version of ATA Spec 2000 standard to be applied to the tag commissioning for the selected Product Number.

2 RFID Tag

This area displays the type of RFID tag to be used for the tag commissioning for the Selected Product Number.

3 Label Format File

This area identifies the label format file (BTW file) to be used for the selected Product Number.

4 Parts list

This area displays a list of the parts which are found by the selected Work Order and Product Number

Column	Description
Done	Already commissioned parts
<input checked="" type="checkbox"/>	Checkbox to select parts to be commissioned.
MFR, SER, PNO ...	Each TEI data acquired with the setting of label format.

! Caution In case of setting the **Done Column** in the database connection settings, the database records once commissioned are permanently checked as **Done**.

If not, the database records are temporary checked as Done but the checks are cleared after next search operation. Please refer to section 3.2.2 “Database Connection Settings” for the operating procedure to set the **Done Column**.

5 Number of Parts area

Done: The number of already commissioned parts (checked as **Done**) in the list.

Selected: The number of selected parts

Total: The number of all the parts in the list.

6 Select All / Deselect All button

Select All: Select all the parts in the list

Deselect All: Unselect all the parts in the list

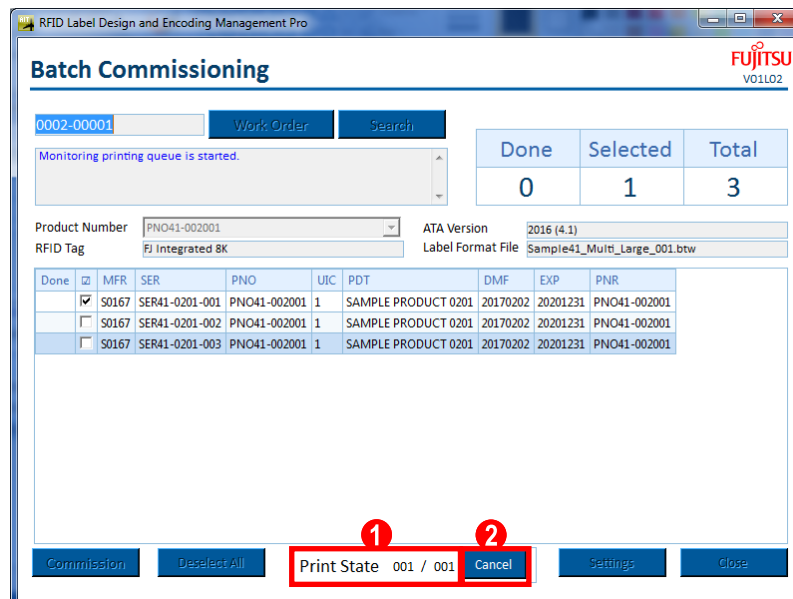
7 Commission button

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.

• Please suspend issuing the tags when an error message is displayed after clicking the **Commission** button.

- (2) Printing jobs are created one by one. **Cancel** button and **Print State** are displayed on the bottom of the screen.



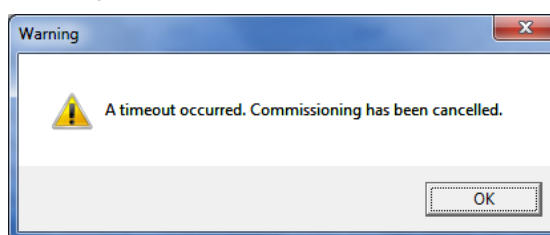
1 Print State

This area displays the numbers of printing jobs of already executed and all.

2 Cancel

This button is used to cancel the following print jobs.

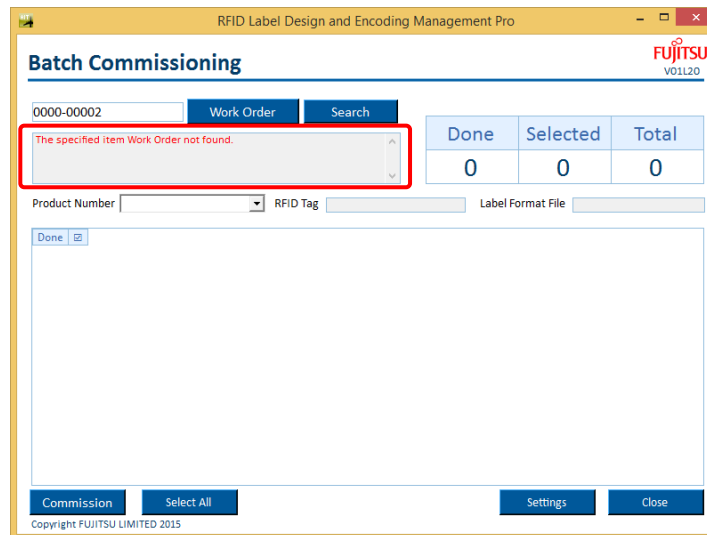
- ! Caution •When a timeout occurred before executing printing, the following dialog appears and the printing jobs are cancelled.



4 Troubleshooting

4.1 Messages and Corrective Actions While using Batch Commissioning

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
In the Batch Commissioning, it is necessary to enable the Use Database in the Database settings.	This message is displayed when the “Use Database” is not enabled in the database setting. Please verify database connection settings.
The connection to database failed. Please confirm the Database settings.	This message is displayed when the connection to database is failed. Please verify database connection settings.
The column specified for the Search Key does not exist in the database. Please confirm the "Batch Commissioning" settings.	This message is displayed when the column specified for search key is not found. Please verify settings specific to Batch Commissioning.

Message	Cause and Corrective Action
The column specified for the Format Specifier does not exist in the database. Please confirm the "Batch Commissioning" settings.	This message is displayed when the column specified for format specifier is not found. Please verify settings specific to Batch Commissioning.
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 settings specific to Batch Commissioning.
The specified item Work Order not found.	This message is displayed when any parts information in database is not found by the Work Order. Please verify the Work Order.
Please enter search key Work Order.	This message is displayed when the Work Order is not entered. Please enter Work Order.
Search key could not be extracted from barcode data properly.	This message is displayed when the Search key is not extracted from barcode properly. Please verify that the "Target String" in settings specific to Batch Commissioning is correctly configured.
Label format of the item [Product Number: XXX] is not defined.	This message is displayed when the label format for the part is not defined. Please verify label format settings.
In the "Batch Commissioning", it is unable to use the Barcode nor Manual for the Source in the TEI settings.	This message is displayed when Barcode or Manual is included in the TEIs data source settings. Please verify TEIs data source settings.
In the "Batch Commissioning", it is unable to use the Barcode nor Manual for the Source in the EPC settings.	This message is displayed when Barcode or Manual is included in EPC data source settings. Please verify EPC settings.
In the "Batch Commissioning", it is unable to use the Barcode for the Source in the Print Data settings.	This message is displayed when Barcode or Manual is included in print-only data source 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.

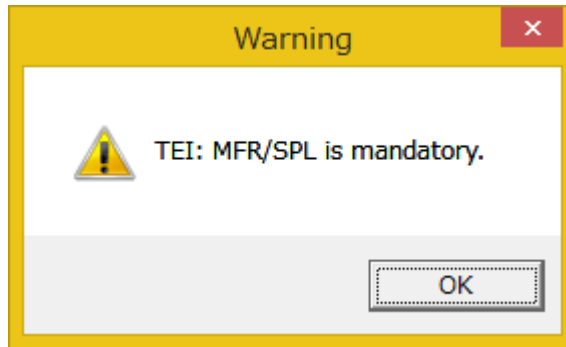
Message	Cause and Corrective Action
Invalid item data. [Details: Invalid character is used. [TEI: XXX]]	This message is displayed when an invalid character (e.g., comma, double quotation, or tilde) is included in the part data. Please verify the data.
Invalid item data. [Details: A number greater than 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.
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 cannot 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 item data. [Details: 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.

Message	Cause and Corrective Action
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 character is used. [Print Data (Header): XXX]]	This message is displayed when an invalid character is included in the header of print-only data. Please verify the header name.
Invalid item data. [Details: Invalid filter value.]	This message is displayed when an invalid Filter Value is used. Please verify the Filter Value 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.: XXX, 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.: XXX, 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.: XXX, 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.: XXX, 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: The header name for the Print Data is already used for another data column in the CommissionData. [Item:XXX]]	[Cause] Invalid column name is exist in the header name of each print data. [Corrective Action] Verify the Print data settings and confirm the specified column name.

Message	Cause and Corrective Action
<p>An error occurred while commissioning. [Details: BarTender is not installed.]</p> <p>or</p> <p>An error occurred while commissioning. [Details: BarTender program file is not found.]</p>	<p>This message is displayed when the BarTender software is not installed. Please install BarTender and/or confirm proper installation.</p>
<p>A timeout occurred. Commissioning has been cancelled. [Details: The print job was not generated by BarTender.]</p>	<p>This message is displayed when a print job is not created in the limited time. Please verify the connection with the printer.</p>
<p>Please select item data records to be commissioned.</p>	<p>This message is displayed when the Commission button is clicked without selecting any parts. Please select parts, and then click the Commission button.</p>
<p>Key field for database update is not specified.</p>	<p>This message is displayed when key data (EPC: Alphanumeric Serial Number and TEI: SER/SEQ/UCN if used) to determine record to be updated is not configured properly. Please verify the source settings.</p>
<p>Multiple records are found by the update key. [Line: XXX]</p>	<p>This message is displayed when key data (EPC: Alphanumeric Serial Number and TEI: SER/SEQ/UCN if used) to determine record to be updated is not unique. Please verify the corresponding data records in the database.</p>

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 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 settings item. Please enter a correct value.
Please enter XXX. or Please enter XXX. [Line: YYY].	This message is displayed when a required item is not configured. Please enter a value for the settings 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 specified value is already used. Please change the value.
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 a greater value than Min into the Max field.
[Tag Format: XXX] cannot be applied to [RFID Tag: YYY]. [Line: ZZZ]	This message is displayed when an invalid combination of tag format and record type is detected. Please change RFID tag type ("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 for all the mandatory TEIs.
[TEI: XXX] cannot 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 the Use check-box of [TEI: MFR/SPL] is not checked in TEIs data setting even though Manager Number CAGE/DoAAC is set as the same value with the TEI. 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 the Use check-box of [TEI: PNO] is not checked in TEIs data settings even though Original Part Number is set as the same value with the TEI. 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 the Use check-box of [TEI: SER/SEQ/UCN] is not checked in TEIs data settings even though Alphanumeric Serial Number. Please check the check-box of SER/SEQ/UCN.
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 the Use check-box of [TEI: UIC] is checked in TEIs data settings even though another option than using SER/SEQ/UCN is selected for the data source for Alphanumeric Serial Number in EPC settings. Please remove the check on the check-box of [TEI: UIC].