

BCP-7000 Job Generator Utility

Operation Manual

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1. Introduction

The job generator utility running under Windows is a tool assistant for users to create their own data collecting applications without developing program code. The utility offers a circumstance which allows user to simulate the running sequences when developing applications on PC. The whole process of the application development is just by keying information in the dialogue boxes in the job generator utility and downloading it to the terminal. A new application can be developed promptly and the job of collecting data can be commenced at once.

2. How to Execute the Job Generator Utility

Running the utility, the Main Menu, Figure 1 will be shown.



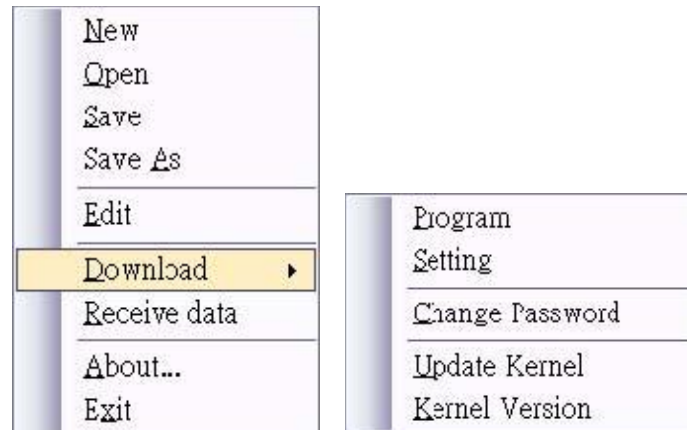
Main Menu, Figure 1

At this window, following two operational ways are available to lead the utility into Main Setting Window.

. Move the mouse cursor to any location on the picture of the terminal and click right button.

or . Move the mouse cursor to the location of “PWR” key of the terminal and click left button.

When one of those two above ways is performed, the Main Setting Window, figure 2 will be shown.



Main Setting Window, Figure 2

3. Main Setting Window

Main Setting Window comprises commands which are aiming mainly at frame create/save/upload/download files as well as terminal hardware settings. The commands are listed below:

- 3.1. New: To create a new application file.
- 3.2. Open: To open an old application file.
- 3.3. Save: To save the current editing application file.
- 3.4. Save As: To save the current editing application file to a new file.
- 3.5. Edit: To edit the current editing application file.
- 3.6. Download: To receive files from PC.
 - 3.6.1. Program: To receive application file from PC.
 - 3.6.2. Setting: To receive setting file from PC.
 - 3.6.3. Change Password: To receive the password setting file from PC.
 - 3.6.4. Update Kernel: To receive the kernel file from PC.
 - 3.6.5. Kernel Version: To receive the kernel version file from PC.
- 3.7. Receive Data: To upload data to PC.
- 3.8. About: To display information pertaining to the Job Generator utility.
- 3.9. Exit: To close the Job Generator utility.

4. Application Template

Move the mouse cursor to the “New” item of the Main Setting Window (figure 2) and click mouse left button, the Application Template, figure 3 will be shown.

Line	Data Type	Prompt	Input Source	Min Length	Max Length	Properties
#1	Text	User ID:	Both	1	50	More...
#2	None		Both	0	50	More...
#3	None		Both	0	50	More...
#4	None		Both	0	50	More...
#5	None		Both	0	50	More...
#6	None		Both	0	50	More...
#7	None		Both	0	50	More...
#8	None		Both	0	50	More...

Application Template, Figure 3

The Application Template which contents form, menu, barcode, and startup function settings to formulate the application's running sequence and data attributions. In an effortless way, user is reacted to the template just by clicking mouse button and entering information into the dialogue boxes while developing an application.

4.1. Form

The Form is a program to regulate the data attributions and loop the routine of the application. The user is requested to key all the needed information in the dialogue boxes of the template which may design the running sequence or may define data attributions. It is up to 10 forms can be defined and every form can be defined up to 8 input fields which contains maximum data length up to 50 characters.

4.1.1. Name:

Assign a name# (form ID) of the form. There are total up to 10 forms can be assigned.

4.1.2. Esc:

Map out the running route of the program to one of the next steps, “Main Menu” or “form#” or “menu#”.

4.1.3. Next:

Map out the running route of the program to one of the next steps, “Main Menu” or “form#” or “menu#”.

4.1.4. Date Stamp:

None: disable the function that Date Stamp appends to the record.

+yyyy/mm/dd: Date stamp to be appended to the rear of record.

yyyy/mm/dd+: Date stamp to be appended to the front of the record.

4.1.5. Time Stamp:

None: disable the function that Time Stamp appends to the record.

+hh:mm:ss: Time stamp to be appended to the rear of the record.

hh:mm:ss+: Time stamp to be appended to the front of the record.

4.1.6. Record

Save: Save is the default value. The form will be saved to record immediately after collection.

Passdown: The form will not be saved to record immediately while it will link to next assigned form(s) or menu(s) according to the assigned route. Whenever the "Save" is executed in the sequence, the(all) form(s) or menu(s) will be saved to record. There can be up to 10 forms/menus in a record while the maximum size of a record is 1K.

4.1.7. Data Type:

None: The field is blocked, which does not allow any data to be filled

Text: Allow any characters (eg. &*abe123...) to be inputted to the field.

Number: Allow any numeric (eg. 12345, 12.5, ...) to be input to the field.

Fix: Prompts will be shown when the field is presented at the terminal and the prompts to be saved to record.

Prompt: Prompts will be shown when the field is presented at the terminal and the prompts will not be saved to record.

4.1.8. Prompt

Specify the heading of the input field.

4.1.9. Input Source

Assign the data input by keypad, scanner, or by both of them.

4.1.10. Min Length

Set the minimum length of the data input.

4.1.11. Max Length

Set the maximum length of the data input.

4.1.12. Properties

Move mouse cursor to the “Properties” item and click left button, the Properties, figure 4 will be shown.

The Properties dialog box for Form #1, Line #1 is shown. It contains two main sections: Field Data and Barcode Input. In the Field Data section, the 'Fix data length' checkbox is checked, and the value is set to 0. The 'Initial value or text' field is empty. The 'Add prefix code' checkbox is checked, and the prefix is 'User ID:'. The 'Add suffix code' checkbox is unchecked. In the Barcode Input section, the 'Read partial barcode' checkbox is unchecked. The 'Start position' is set to 1, and the 'Maximum length' is set to 0. The 'Auto ENTER' checkbox is checked. The OK and Cancel buttons are at the bottom.

Properties, Figure 4

4.1.12.1. Fixed data length

It limits the length of the inputted data. Tick the box of “Fix data length,” and 4 options will be shown as in Figure

The Properties dialog box for Form #1, Line #1 is shown. The 'Fix data length' checkbox is checked. A dropdown menu is open, showing four options: 'Left aligned(padded with sp)', 'Left aligned(padded with space)', 'Right aligned(fill with space)', and 'Left aligned(padded with 0)'. The 'Left aligned(padded with 0)' option is selected. The 'Add suffix code' checkbox is unchecked. The Barcode Input section is the same as in Figure 4.

4.1.12.1.2

In the window as Figure 6, select “Left aligned (padded with space), the collected data which is less than the setting of data length will be filled with space. The field data will be saved with the spaces.

Example

Fix data length: 10

Barcode data	Display data
54321	54321_____

The screenshot shows a 'Properties' dialog box with a blue title bar. Inside, there are two tabs: 'Form #1' and 'Line #1'. Under 'Form #1', there is a 'Field Data' section with a green background. It contains a checked checkbox for 'Fix data length' with an empty text box next to it. Below this is a dropdown menu currently showing 'Left aligned (padded with space)'. Further down are two unchecked checkboxes: 'Initial value or text' and 'Add suffix code', each with an empty text box. A checked checkbox for 'Add prefix code' is followed by a text box containing 'User ID:'. To the right of the 'Field Data' section is a 'Barcode Input' section, also with a green background. It has an unchecked checkbox for 'Read partial barcode', a 'Start position:' label with a text box containing '1', a 'Maximum length:' label with a text box containing '0', and a checked checkbox for 'Auto ENTER'. At the bottom of the dialog are 'OK' and 'Cancel' buttons.

Figure 6

4.1.12.1.3

In the window as Figure 7, select “Right aligned (fill with space), the collected data which is less than the setting of data length will be filled with space. The field data will be saved with the spaces.

Example

Fix data length: 10

Barcode data	Display data
54321	____54321

This screenshot is similar to Figure 6, showing the same 'Properties' dialog box. The only difference is in the 'Field Data' section, where the dropdown menu now shows 'Right aligned (fill with space)'. All other settings, including the checked 'Fix data length' checkbox, the 'Add prefix code' checkbox with 'User ID:', and the 'Barcode Input' section settings, remain the same. The 'OK' and 'Cancel' buttons are still at the bottom.

Figure 7

4.1.12.1.4

In the window as Figure 8, select “Left aligned (padded with 0)”, the collected data which is less than the setting of data length will be filled with 0. The field data will be saved with the filled “0”.

Example

Fix data length: 10

Barcode data	Display data
54321	5432100000

The screenshot shows a 'Properties' dialog box with a blue title bar. Inside, there are two tabs: 'Form #1' and 'Line #1'. Under 'Form #1', the 'Field Data' section contains: 'Fix data length' (checked), a dropdown menu set to 'Left aligned(padded with 0)', 'Initial value or text' (empty), 'Add prefix code' (checked) with 'UserID:' in the adjacent field, and 'Add suffix code' (unchecked). The 'Barcode Input' section contains: 'Read partial barcode' (unchecked), 'Start position:' (1), 'Maximum length:' (0), and 'Auto ENTER' (checked). 'OK' and 'Cancel' buttons are at the bottom.

Figure 8

4.1.12.1.5

In the window as Figure 9, select “Right aligned (fill with 0)”; the scanned data which is less than the setting of data length will be filled with 0. The field data will be saved with the filled “0.”

Example

Fix data length: 10

Barcode data	Display data
54321	00000 54321

The screenshot shows a 'Properties' dialog box with a blue title bar. Inside, there are two tabs: 'Form #1' and 'Line #1'. Under 'Form #1', the 'Field Data' section contains: 'Fix data length' (checked), a dropdown menu set to 'Right aligned(fill with 0)', 'Initial value or text' (empty), 'Add prefix code' (checked) with 'UserID:' in the adjacent field, and 'Add suffix code' (unchecked). The 'Barcode Input' section contains: 'Read partial barcode' (unchecked), 'Start position:' (1), 'Maximum length:' (0), and 'Auto ENTER' (checked). 'OK' and 'Cancel' buttons are at the bottom.

Figure 9

4.1.12.2. Field data

. Initial value or text

Assign the initial value (default value) or text in the input field.

. Add prefix code

Prefix code to be appended to the data. The prefix code can be any string (eg. BFR:345*&) or any a 3-digits decimal ASCII codes which is led by “\” (eg. “\065\097” equals to “Aa”).

More examples: “\\” equals to “\”, “\n” or “\N” equals to “\010”, “r” or “R” equals to “\013”, or “\t” or “\T” equals to “\009”, “e” or “\T” equals to “\027”.

. Add suffix code

Suffix the code to be appended to the data. The suffix code can be any string (eg. BFR:345*&) or any a 3-digits decimal ASCII codes which is led by “\” (eg. “\065\097” equals to “Aa”).

More examples: “\\” equals to “\”, “\n” or “\N” equals to “\010”, “r” or “R” equals to “\013”, or “\t” or “\T” equals to “\009”, “e” or “\T” equals to “\027”.

4.1.12.3. Barcode Input

. Read partial barcode

Set the barcode data to display partially at the data field. The default value of the field is 50 digits.

* Start position

Set the first digit of the barcode data to display at the data field. Its default value is from 1st digit.

* Maximum length

Set the maximum barcode data length at the data field. Its default value is 50 digits.

Example

Start position	Maximum length	Barcode data	Display data
2	10	9876543210	876543210
2	3	9876543210	876

.Auto ENTER

After reading barcode by scanner, an “ENTER” will be automatically executed and to move the cursor to next field.

4.2. Menu

Move the mouse cursor to “MENU” tab button at figure 3 and click left button, the Menu Window, figure 10 will be shown.

Item No.	Item Name	Next
#1		Main
#2		Main
#3		Main
#4		Main
#5		Main
#6		Main
#7		Main
#8		Main
#9		Main
#10		Main

MENU, Figure 10

The Menu is a program which targeted at mapping out the running route as well as the descriptions of the application. The user is requested to key all the needed information in the blanks of the template which may portray the functions or may design the running sequence of the application. There are up to 10 menus can be defined.

4.2.1. Name:

Assign a Menu#(MenuID) of the current menu.

4.2.2. Esc:

Map out the running route of program to one of the next steps, “Main Menu” or “form#” or “menu#”.

4.2.3. Caption.

Assign a heading of the menu.

4.2.4. Data

- Save Caption

This item provides selection to save or not to save the caption of the menu to the record.

- Save Selected Item

This item provides options to save the item name of the field to the record.

- Pass down

This item provides options to save the data. It can be chose to save the caption of the menu and save selected item of the field to the record. Note that if user wants to save captions, selected item or both of them, the passdown item box must be left blank. When the “Passdown” box is ticked, the menu will link to next menu or form, and the data will be saved until “Save” is selected at the final menu or form in your working process.

- Item Name

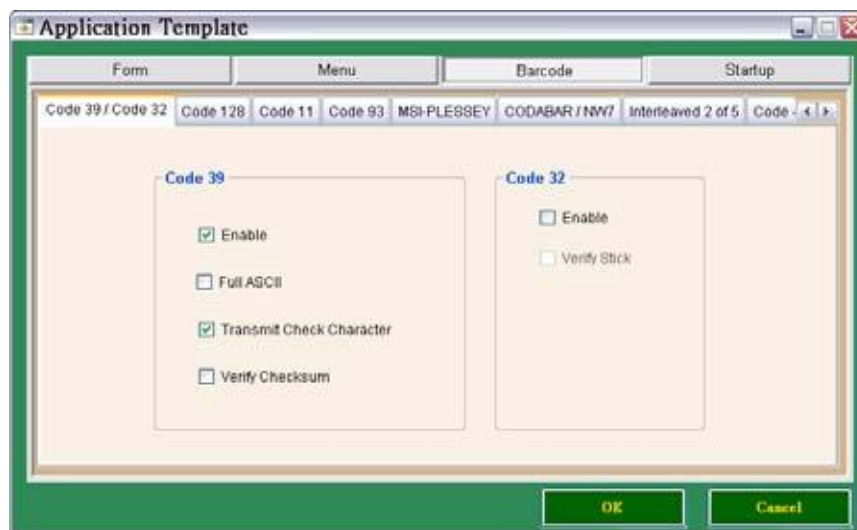
Assign the name of the field.

- Next

Map out the running route of the grogram to one of the next steps, “Main Menu” or “form#” or “menu#”. Click keyboard shortcuts from 1 to 0 in correspondent to the item to access the form# or menu# defined by “Next”.

4.3. Barcode

Move the mouse cursor to the “barcode” tab button at the figure 3 and click left button, the Barcode Window, figure 11 will be shown.



Barcode, Figure 11

. Click the left or right arrows which located at right top corner of the window to view more barcode setting options. Click "Barcode" tap button to do barcode settings.

4.4. Startup

Move the mouse cursor to the "Startup" tab button as seen in the figure 3 and click left button, the Startup Window, Figure 12 will be shown.

The image shows a software window titled "Application Template". It has four tabs: "Form", "Menu", "Barcode", and "Startup". The "Startup" tab is selected. Inside the window, there are four input fields: "Program start from:" with a dropdown menu showing "Form1"; "Data fields delimiter:" with a dropdown menu showing "1"; "ASCII Value:" with a text box containing "44"; and "Text:" with a text box containing a comma. At the bottom right, there are "OK" and "Cancel" buttons.

Startup, Figure 12

The startup is a program aiming at specify the location where the application to be started from and record format. The user is requested to key all the needed information in the dialogue boxes of the template.

4.4.1. Program start from

Assign the application where to start from, either from form# or menu#.

4.4.2. Data field delimiter

Assign the number of delimiter(s) of the data field either by one digit or two digits.

4.4.3. ASCII Value

Assign delimiter ASCII value.

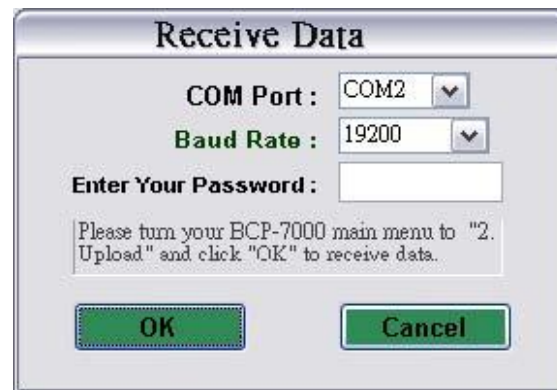
4.4.4. Text

Assign delimiter text.

Note: The editing Application Template, when "OK Button" is pressed, the setting is saved to memory only (it is not saved to the file). While "Cancel Button" is pressed, the setting won't be saved to memory or saved to file. The editing Application Template which saved at memory can be recalled by pressing "PWR" key, then select "Edit" to recall the editing Application Template.

5. Receiving Data

At Main Setting Window (figure 2) move the mouse cursor to the “Receive Data” item and click the left button. The Receive Data Window, figure 13 will be shown.

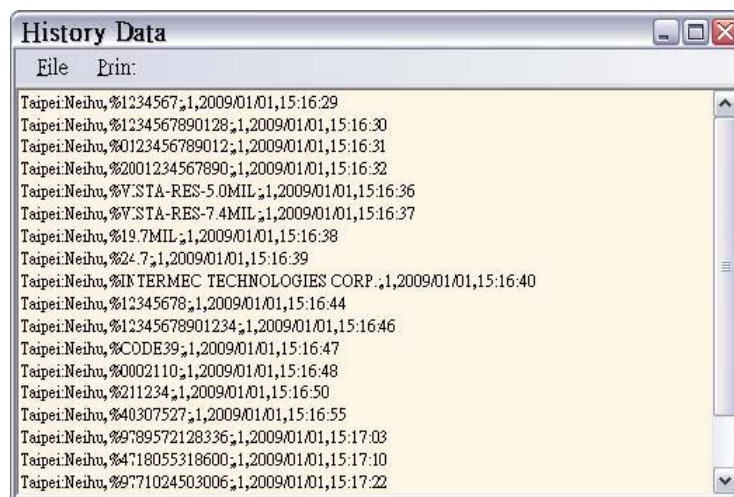


The "Receive Data" dialog box is a light gray window with a title bar. It contains the following elements:

- COM Port :** A dropdown menu showing "COM2".
- Baud Rate :** A dropdown menu showing "19200".
- Enter Your Password :** A text input field.
- Instructions:** A text box containing the message: "Please turn your BCP-7000 main menu to "2. Upload" and click "OK" to receive data."
- Buttons:** Two buttons at the bottom, "OK" and "Cancel", both with green borders and black text.

Receive Data, Figure 13

There are two interface cables available between the terminal and PC; USB (serial) and RS-232. After setting the COM Port and Baud Rate, click “OK” item. The History Data Window, figure 14 will be shown. Suggestion that before click “OK” button, user has to double check if the terminal is at uploading file state and if the cable is connected firmly between the PC and the terminal.

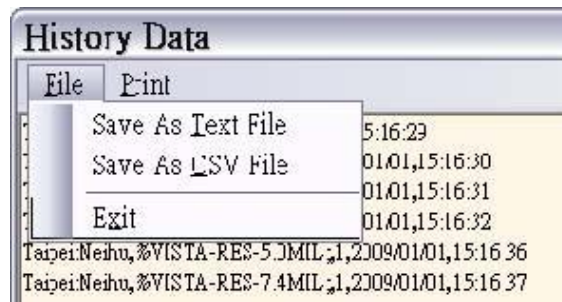


The "History Data" window is a light gray window with a title bar and a menu bar containing "File" and "Print". It displays a list of data entries in a text area. The entries are as follows:

Location	File Name	Date and Time
Taipei:Neihu,	%1234567,	1,2009/01/01,15:16:29
Taipei:Neihu,	%1234567890128,	1,2009/01/01,15:16:30
Taipei:Neihu,	%0123456789012,	1,2009/01/01,15:16:31
Taipei:Neihu,	%2001234567890,	1,2009/01/01,15:16:32
Taipei:Neihu,	%V.STA-RES-5.0MIL,	1,2009/01/01,15:16:36
Taipei:Neihu,	%V.STA-RES-7.4MIL,	1,2009/01/01,15:16:37
Taipei:Neihu,	%19.7MIL,	1,2009/01/01,15:16:38
Taipei:Neihu,	%24.7,	1,2009/01/01,15:16:39
Taipei:Neihu,	%INTERMEC TECHNOLOGIES CORP.,	1,2009/01/01,15:16:40
Taipei:Neihu,	%12345678,	1,2009/01/01,15:16:44
Taipei:Neihu,	%12345678901234,	1,2009/01/01,15:16:46
Taipei:Neihu,	%CODE39,	1,2009/01/01,15:16:47
Taipei:Neihu,	%0002110,	1,2009/01/01,15:16:48
Taipei:Neihu,	%211234,	1,2009/01/01,15:16:50
Taipei:Neihu,	%40307527,	1,2009/01/01,15:16:55
Taipei:Neihu,	%9789572128336,	1,2009/01/01,15:17:03
Taipei:Neihu,	%4718055318600,	1,2009/01/01,15:17:10
Taipei:Neihu,	%9771024503006,	1,2009/01/01,15:17:22

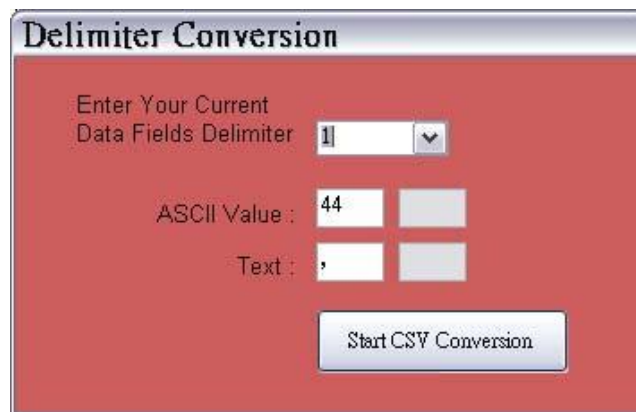
History Data, Figure 14

At the window, user can double check and edit the data. If user wants to save it, move the mouse cursor to the “file” item and click the left button. File/Print Window, figure 15 will be shown.



File/Print, Figure 15

User can save the data in the forms of text or Excel compatible CSV files. If user wants to save it as CSV file, then move the cursor onto the “Save As CSV File” item and click it, the Delimiter Conversion Window, figure 16 will be shown.



Delimiter Conversion, Figure 16

At the window, user has to enter all the information in the dialogue boxes and then move the mouse cursor onto the “Start CSV Conversion” item and click left button to start the process of data conversion.

6. Change Password

At Main Setting Window (figure 2), move the mouse cursor onto the “Download” item and click the left button, and then move the mouse cursor onto “Change Password” item and click the left button. The Change Password Window, figure 12 will be shown.



The image shows a 'Change Password' dialog box with an orange background. At the top, the title 'Change Password' is centered. Below the title, there are two dropdown menus: 'COM Port' set to 'COM2' and 'Baud Rate' set to '19200'. Below these are three text input fields: 'Current Password', 'Your New Password', and 'Confirm Password'. A checkbox labeled 'Memorize Password' is located below the input fields. At the bottom, there are two buttons: 'OK' and 'Cancel'. A red text box at the bottom of the dialog contains the instruction: 'Before your setting, please turn BCP-7000 main menu into "6. Download/Setting"'.

Change Password, Figure 17

The password contains up to 10 alphanumeric characters, includes lower case a~b, upper case A~Z, and 0-9. The password would be changed only after the current password verified. While setting up a password for the first time, leave the “Current Password” item blank, and fill in the “Your New Password” item and the “Confirm New Password” item accordingly.

After the password is configured, any communication between the terminal and PC would request password verification.

When the “Memorize Password” function is enabled; user isn’t requested to enter the password every time when terminal works to communicate with PC.

7. Setting

At Main Setting Window (figure 2), move the mouse cursor onto the “Download” item and click the left button, and then move the mouse cursor onto the “Setting” item and click the left button. One of the Download Setting window, figure 13~16, will be shown.

7.1. Buzzer Pitch

The buzzer’s pitch can be adjusted to meet user’s optimal needs. At the figure 13, the bar represents the pitch value, between 0~255 Hz. User just need to drag the arrow to travel it to any position in the bar, while the bar is traveling, the small window shows a rotated number which represents the pitch value. User can use “Test” item to try out the best value of the pitch before save it as a file or download it to the terminal.

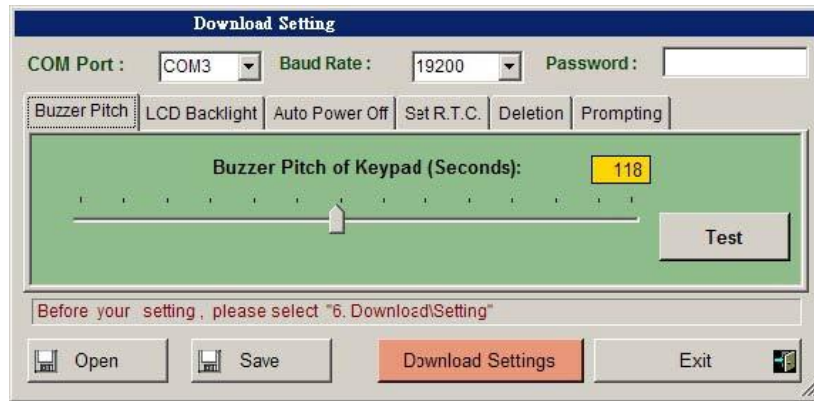


Figure 18

7.2. LCD Backlight

The LCD backlight can be set to auto off in the pre-defined period of time without press any keypad or do a scan on the terminal. At the figure 14, the bar represents pre-defined off time value, 0-60 second. User just need to drag the arrow to travel it to any position in the bar, while the bar is traveling, the small window shows a rotated number which represents the pre-defined off time value. User is also able to set the backlight always on by click the “Always On” item. User can save it as a file or just download it to the terminal. Factory default is off.

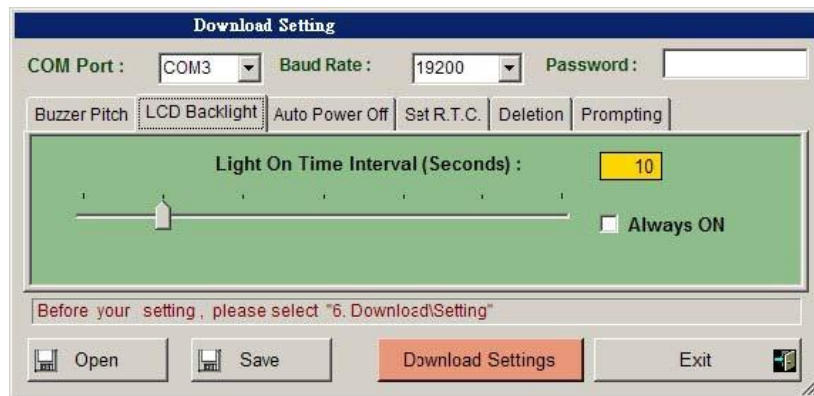


Figure 19

7.3. Auto Power Off

The terminal can be set to auto power off in the pre-defined period of time without press any keypad or do a scan on the terminal. At figure 15, the bar represents pre-defined off time value, 0-60 minute. User just need to drag the arrow to travel it to any position in the bar, while the bar is traveling, the small window shows a rotated number which represents the pre-defined off time value. User is also able to set the terminal always on by click the “Disable” item. User can save it as a file or just download it to terminal.

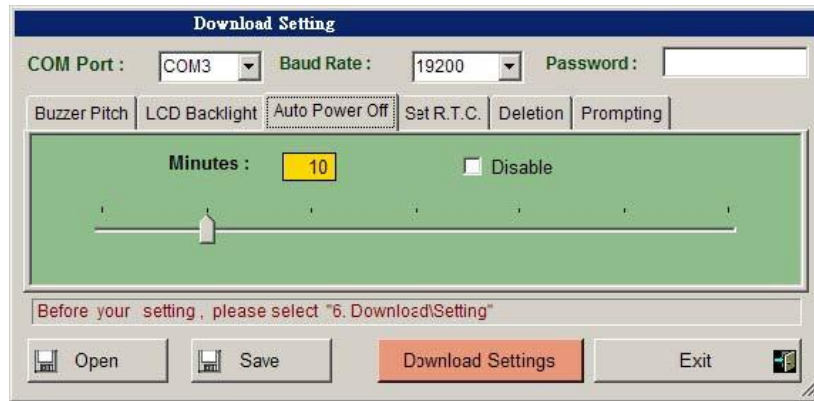


Figure 20

7.4. Set R.T.C.

The terminal's real time clock has to synchronize with host PC. At the figure 21, user can save it as a file or just download it to the terminal.



Figure 21

7.5. Deletion

The collected data would be deleted from BCP-7000 after the data transmission completes automatically. Referring to the figure 22, user can set the delete function by ticking the box.

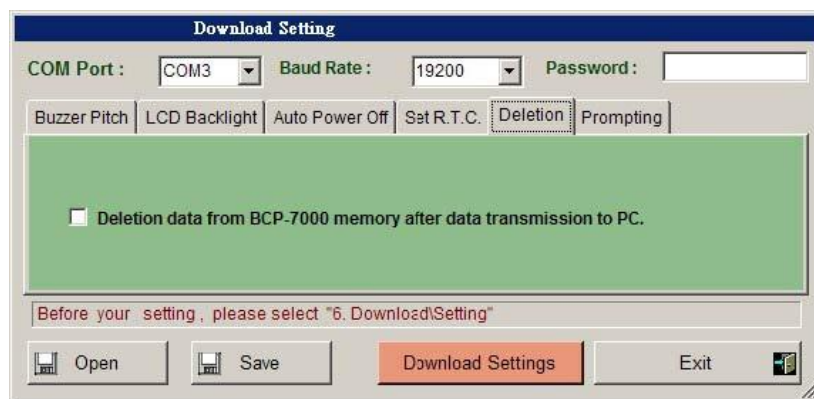


Figure 22

7.6 Prompting

The number of records will show on the screen as in figure 23 by setting the lasting time.

Simply drag the arrow on the bar as shown in figure 24 from 0 to 9999 seconds.

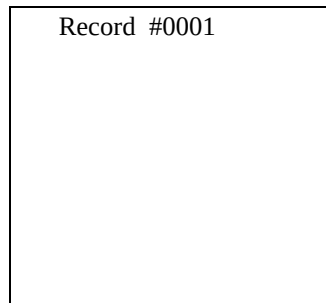


Figure 23

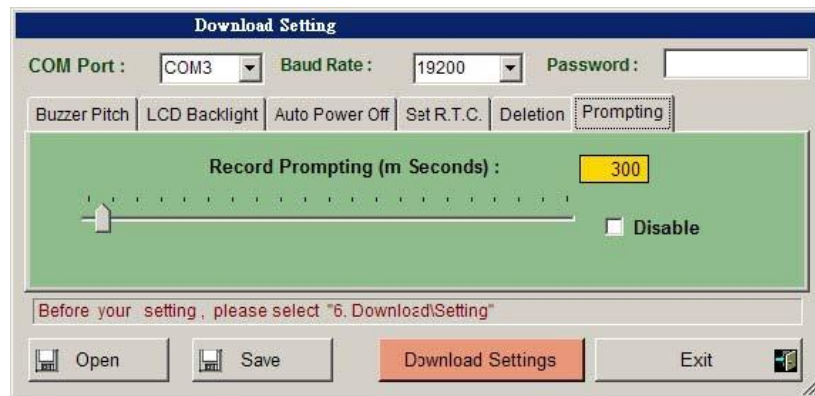


Figure 24

8. Update Kernel Firmware

User can update kernel firmware on the terminal. Please be careful to prevent the communication breakdown or other factors that interfere in the communication while the process of the kernel firmware is being updated. Any failures happen in the communication process may cause terminal hang-up.

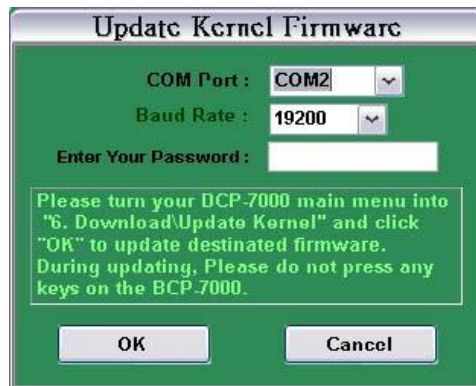


Figure 25

9. Get Kernel Version

User can get the kernel version from the terminal.

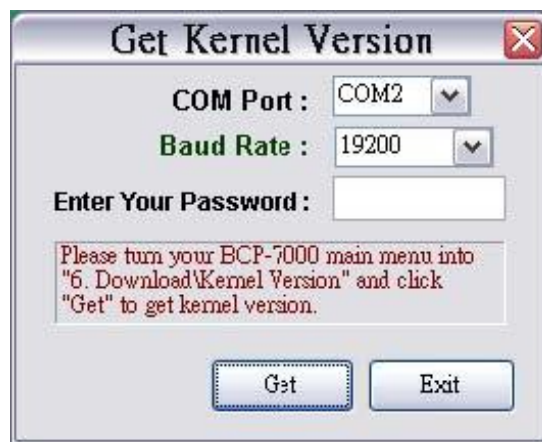


Figure 26

10. Example Job Application

The chapter aims to tutor how to design a job application. There is a Program Template File at CD disk, its file name is Baylan.bcp which is the example file to guide user how a job application designed.

Assuming that the application consists of user identified number, location, item no. and quantity variables and the working flow of the application is framed as below:

. Firstly, it needs an initial window (referred as menu1) when the application is executed and a given name and options to head into data collecting job or quit the application.

. The user identified number (referred to form1) runs prior data when collecting job commences.

. Location, Item No and Quantity (refer to form 2) variables have to be collected in the warehouse. It would be a loop routine process by start from location, item no and quantity till an “Esc” command is executed. When the “Esc” command is enabled, the loop routine would be ended and shift to the menu1.

10.1. Run the Job Generator utility

The Main Menu figure will be shown on the PC.



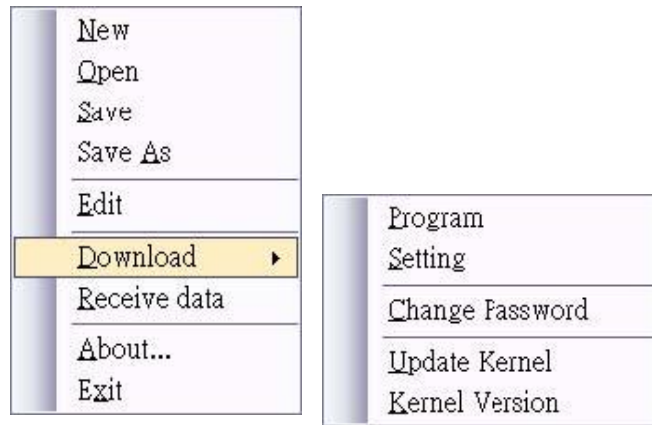
Main Menu, Figure 1

. Move the mouse cursor to any location on the picture of the terminal (figure 1), and click right button.

or

. Move the mouse cursor to the location of “PWR” key of the terminal (figure 1), and click left button.

When one of those two above mentioned operational ways is performed, the Main Setting Window, figure 2 will be shown.



Main Setting Window, Figure 2

At figure 2, select “OPEN” item first and to read the example file, Baylan.bcp. After reading the Baylan.bcp file, the following figure will be shown on the PC.

Line	Data Type	Prompt	Input Source	Min Length	Max Length	Properties
#1	Text	User ID:	Both	1	50	More...
#2	None		Both	0	50	More...
#3	None		Both	0	50	More...
#4	None		Both	0	50	More...
#5	None		Both	0	50	More...
#6	None		Both	0	50	More...
#7	None		Both	0	50	More...
#8	None		Both	0	50	More...

Figure 27

This figure shows detailed settings, form1, at the Application Template. Those settings are described as below:

- Name: Form1 – this form’s ID
- Esc: Menu1 – when an “Esc” command is called, the application would head into Menu1.
- Next: Form2 – when a “next” command is called, the application would head into Form2.
- Date Stamp: +yyyy/mm/dd – the date stamp would be appended to the rear of record.
- Time Stamp: +hh:mm:ss – the time stamp would be appended to the rear of record.
- Record:
 - Save: Save is the Default Value. The form will be saved to record immediately after collection.

- Pass down: The form will not be saved to record immediately while it will link to next assigned form(s) or menu(s) according to the assigned route. Whenever the "Save" is executed in the sequence, the(all) form(s) or menu(s) will be saved to record. There can be up to 10 forms/menus in a record while the maximum size of a record is 1K.
- Prompt: User ID: -- the prompt represents user identified number.
- Input Source: both – data key-in is allowed by scanner and by keypad. If the data is inputted by scanner, then the "ENTER" is automatically executed while the data key-in is by keypad, then the "ENTER" has to be pressed by operator to complete the key-in process.
- Min Length: 1 – the number of the data is not less than 1 digit.
- Max Length: 50 – the number of the data is not more than 50 digits.
- Properties: please refer to the figure 28

Figure 28

* This figure shows that the prompt of "User ID:" would be saved as prefix to the record. And the "ENTER" will be executed when a data key-in is by scanner.

When finishes form1 setting. Move the mouse cursor to Name Com Box and click the left button to dropdown more form# selections. The following figure will be shown on the PC.

Line	Name	Prompt	Input Source	Min Length	Max Length	Properties
01	Form1	Location:	Both	1	50	More...
02	Form2	Item No:	Both	1	50	More...
03	Form2	Qty:	Keyboard	1	50	More...
04	None		Both	0	50	More...
05	None		Both	0	50	More...
06	None		Both	0	50	More...
07	None		Both	0	50	More...
08	None		Both	0	50	More...

Figure 29

*At the window, select the form2 and click left button. The following figure will be shown below.

Line	Data Type	Prompt	Input Source	Min Length	Max Length	Properties
#1	Text	Location:	Both	1	50	More...
#2	Text	Item No:	Both	1	50	More...
#3	Number	Qty:	Keyboard	1	50	More...
#4	None		Both	0	50	More...
#5	None		Both	0	50	More...
#6	None		Both	0	50	More...
#7	None		Both	0	50	More...
#8	None		Both	0	50	More...

Figure 30

*At the window, shows detailed settings, form 2, at the Application Template. Those Settings are described as below:

- Name: Form2 – this form's ID
- Esc: Menu1 – when an “Esc” command is called, the application will head into Menu1.
- Next: Form2 – when a next command is called, the application will head into Form2.
- Date Stamp: +yyyy/mm/dd – the date stamp would be appended to the rear of record.
- Time Stamp: +hh:mm:ss – the time stamp would be appended to the rear of record.
- Record:
 - Save: The form will be saved to record immediately after collection.
 - Passdown: The form will not be saved to record immediately while it will be linked to next assigned form(s) or menu(s) according to the designed running route. Whenever an assigned form or menu defined with the "Save" is executed in the sequence, the(all) form(s) or menu(s) will be saved to record. There can be up to 10 forms/menus in a record while the maximum size of a record is 1K.
- Data Type: Text – allow any characters (eg. &*abe123...) to be inputted into the field.
- Prompt: Location: -- the prompt represents the locations.
- Input Source: both – data key-in is allowed by scanner and by keypad. If the data is key-in by scanner, then the “ENTER” is automatically executed while the data key-in is by keypad, then the “ENTER” key has to be pressed by operator to complete the key-in process.
- Min Length: 1 – the number of the data is not less than 1 digit.
- Max Length: 50 – the number of the data is not more than 50 digits.
- Properties: please refer to figure 31.

Properties

Form #1 **Line #1**

Field Data

☐ Fix data length 0

☐ Initial value or text

☒ Add prefix code UserID:

☐ Add suffix code

Barcode Input

☐ Read partial barcode

Start position: 1

Maximum length: 0

☒ Auto ENTER

OK Cancel

Figure 31

* At this setting, an “ENTER” will be automatically executed when a data key-in is by scanner.

- Prompt: Item No: -- the prompt represents the item no.
- Input Source: both –data key-in is allowed by scanner and by keypad. If the data is inputted by scanner, then the “ENTER” is automatically executed while the data key-in is by keypad, then the “ENTER” key has to be pressed by operator to complete the key-in process
- Min Length: 1 – the number of the data is not less than 1 digits.
- Max Length: 50 – the number of the data is not more than 50 digits.
- Properties: please refer to figure 32.

Properties

Form #1 **Line #1**

Field Data

☐ Fix data length 0

☐ Initial value or text

☒ Add prefix code UserID:

☐ Add suffix code

Barcode Input

☐ Read partial barcode

Start position: 1

Maximum length: 0

☒ Auto ENTER

OK Cancel

Figure 32

*At this setting, an “ENTER” will be automatically executed when a data key-in is by scanner.

- Prompt: Qty: -- the prompt represents the quantity.
- Input Source: keyboard – The information key-in is by keypad only, the “ENTER” key has to be pressed by operator to complete the process.
- Min Length: 1 – the number of the data is not less than 1 digits.
- Max Length: 50 – the number of the data is not more than 50 digits.
- Properties: please refer to the figure 33.

Properties

Form #1 **Line #1**

Field Data

☐ Fix data length: 0

☐ Initial value or text:

☒ Add prefix code: User ID:

☐ Add suffix code:

Barcode Input

☐ Read partial barcode

Start position: 1

Maximum length: 0

☒ Auto ENTER

OK Cancel

Figure 33

* At this setting, an “ENTER” won’t be automatically executed when a data key-in is by keypad.

When finishes form 2 settings, move the mouse cursor to Menu Tab Button and click the left button. The following figure will be shown on the PC.

Application Template

Form Menu Barcode Startup

Name: Menu1

Esc: Main

Caption:

Data

☐ Save Caption

☐ Save Selected Item

☒ Passdown

Item No.	Item Name	Next
#1		Main
#2		Main
#3		Main
#4		Main
#5		Main
#6		Main
#7		Main
#8		Main
#9		Main
#10		Main

Figure 34

OK Cancel

*At this window shows detailed settings, menu1, at the Application Template. Those settings are described as below:

- Name: Menu1 – this menu’s ID.
- Esc: Main – when an “Esc” command is called, the application would head to Main Menu.
- Caption: <BAYLAN Inventory> -- the heading of the application.
- Passdown: the menu’ s information won’ t be saved to record. It will link to next assigned menu or form.
- Item Name: “ >Check Stock” and “ >Exit” -- are prompts.
- Next -- “ item1” is set the application head to form1 and “ item2” is set application head to Main Menu.

10.2. Download The Program Template File To The Terminal

At the Main Setting Window, figure 2, select the “download” item then program item, the Download AP Template figure will be shown.

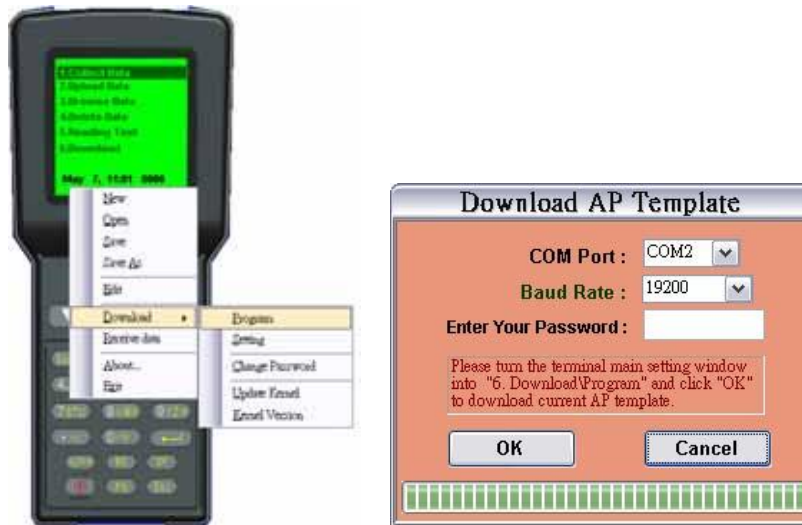


Figure 35

*At this window, user has to fill the correct information of the COM Port and Baud Rate into blanks.

However, before click “OK” button, user has to double check if the terminal is at receiving file state and if the cable is firmly connected with the PC and the terminal. The route to get to the state of the terminal to receive the program template file is via main menu\download\program\enter.

10.3. Collecting Data

When finishes the program template file download, the terminal is already equipped with the customized application, Baylan Inventory. The way to enable the Baylan Inventory application terminal is via the route of main menu\collect data\enter.

10.4. Uploading Data

Users will need to upload the collected data to PC after finishing the data collecting task.

At the PC terminal, user has to run the Main Setting Window, figure 2 and select the “Receive data” item, the Receive Data window will be shown as in figure 36.

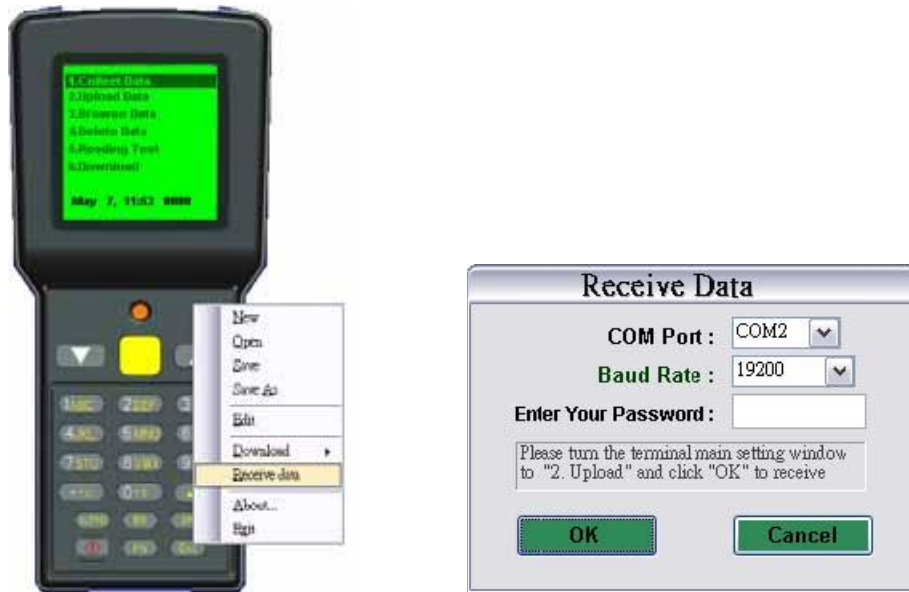


Figure 36

*At this window, user has to fill the correct information of the COM Port, Baud Rate in blanks. However, before click “OK” button, user has to double check if the terminal is at the status of uploading file state and if the cable is connected firmly between the PC and the terminal. The route to get to the state of the terminal to upload the data is via main menu\upload data\enter.

When finishes the uploading task, the following figure will be shown on the PC.

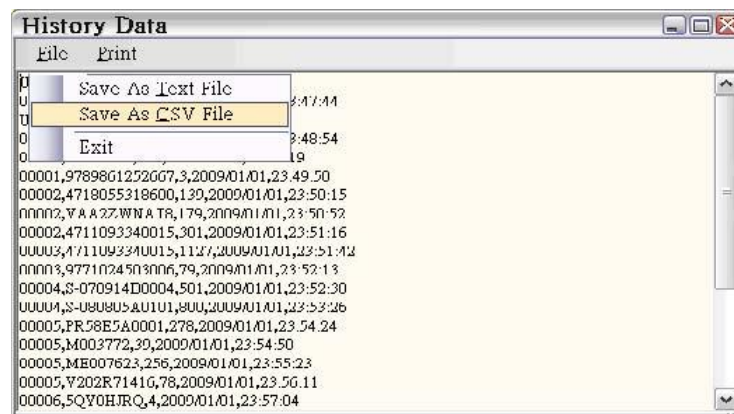


Figure 37

The file can be saved as Text file or CSV file. The example shows the file to be saved as a CSV file. At this window, click left button on the “file” item, then the figure 38 will be shown.

Delimiter Conversion

Enter Your Current Data Fields Delimiter: 1

ASCII Value : 44

Text : '

Start CSV Conversion

Figure 38

*At the window, click the left button on the “Start CSV Conversion”, then the figure 39 will be shown.

	A	B	C	D	E	F	G
1	User ID:01230	2009/1/1	23:48:30				
2	1	40307527	133	2009/1/1	23:49:19		
3	1	9789861252667	3	2009/1/1	23:49:50		
4	2	4718055318600	139	2009/1/1	23:50:15		
5	2	VAA2ZWNAT8	179	2009/1/1	23:50:52		
6	2	4711093340015	381	2009/1/1	23:51:16		
7	3	4711093340015	1127	2009/1/1	23:51:42		
8	3	9771024503006	79	2009/1/1	23:52:13		
9	4	S-070914B0004	581	2009/1/1	23:52:38		
10	4	S-080805A0101	800	2009/1/1	23:53:26		
11	5	P-58E5A0001	278	2009/1/1	23:54:24		
12	5	M003772	39	2009/1/1	23:54:50		
13	5	ME007623	256	2009/1/1	23:55:23		
14	5	V202R71416	78	2009/1/1	23:56:11		
15	6	5QY0HJRQ	4	2009/1/1	23:57:04		
16	6	12562855905	75	2009/1/1	23:57:38		
17	6	0808051014AT	9	2009/1/1	23:58:34		
18	6	9789867198686	45	2009/1/1	23:58:59		
19	6	9789867961631	132	2009/1/1	23:59:25		

Figure 39