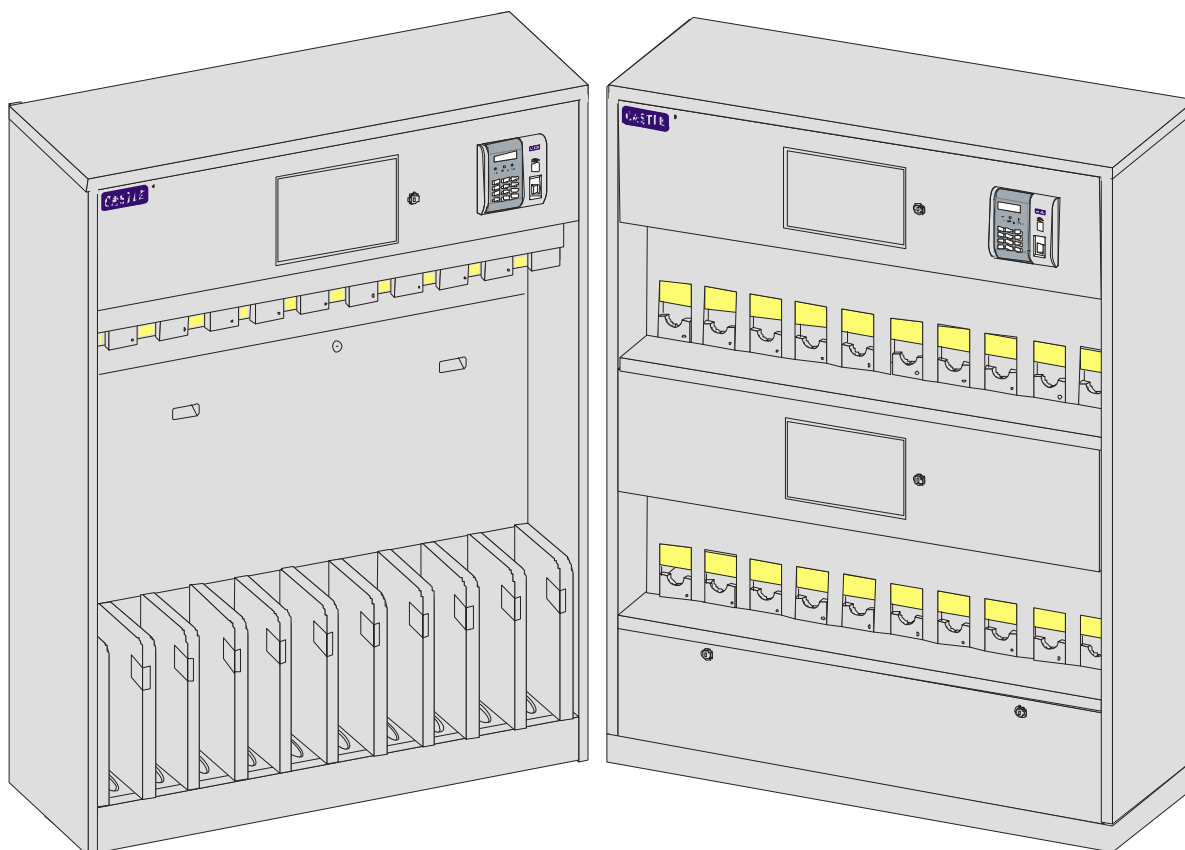


INTELLIGENT WEAPON CONTROL SYSTEM

For Demo Purpose Only



RIFFLE

HANDGUN

Quick Start Manual

Patent Pending

iWCS

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Cass Technology Sdn. Bhd.
No.28, Jalan PJU 3/48,
Sunway Damansara Technology Park,
47810 Petaling Jaya,
Selangor Darul Ehsan, Malaysia.
Tel: +603 78030011
Fax: +603 78064421
Email: enquiry@castle.com.my

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FV: iWCS v 2.10**

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WARRANTY SUMMARY

(Intelligent Weapon Control System)

Cass Technology Sdn. Bhd. warrants the products that it manufactures and sells will be free from defects in materials and workmanship for a period of twelve (12) months. If a product proves defective within the respective period, please contact your nearest Cass Technology Sdn. Bhd. authorized dealer to arrange for warranty service.

EXCEPT AS PROVIDED IN THIS SUMMARY OR THE APPLICABLE WARRANTY STATEMENT, CASS TECHNOLOGY SDN. BHD. MAKES NO WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT SHALL CASS TECHNOLOGY SDN. BHD. IS LIABLE FOR INDIRECT, SPECIAL OR CONSEQUENTIAL DAMAGES.

GENERAL SAFETY SUMMARY

Please review the following safety precautions to avoid injury and prevent damage to this product or any products connected to it. To avoid potential hazards, use this product only as specified.

Only qualified personnel should perform service procedures.

TO AVOID FIRE OR PERSONAL INJURY

Use Proper Power Supply Unit. Use only the power supply unit specified for this product.

Do Not Operate Without Covers. Do not operate this product with covers or panels removed.

Do Not Operate With Suspected Failures. If you suspect there is damage to this product, have it inspected by qualified service personnel.

Do Not Operate below or above specified temperature and humidity condition.

Do Not Operate in an Explosive Atmosphere.

Keep Product Surfaces Clean and Dry.

ATTENTION!!

BEFORE START TO ACTIVATE WEAPON SYSTEM, PLEASE READ FOLLOWING GUIDELINES CAREFULLY. THE IGNORANCE OF FOLLOWING BELOW GUIDELINES WILL CAUSE SYSTEM DAMAGE.

1. Once receive weapon rack, remove all wrapping accordingly.
2. Remove all wrappers.
3. Open Emergency Door (refer to Page 8 for product illustration) and release the emergency handle (refer to Page 31). The yellow plates should be slide up and hide in the rack. Place all weapons according to matching number, e.g.: gun A001 match with weapon slot A001 and so on. After all weapons are placed, secure all weapons with emergency handle (refer to Page 31). Now the yellow plates should be slide down and can be seen from front view.
4. Upon power on, fingerprint reader is warming up until a beep sound which indicates process complete.
5. During operation, make sure Emergency door (Refer to Figure 1.0, page 8) is closed otherwise system will not able to function.
6. There are 2 cables attach at bottom of rack casing. Each cable is indicating with the connection part i.e. Network and Power Cord that to be connected accordingly.
7. There is a backup battery switch (Refer Figure 1.0) as shown in photo. Need to switch ON for charging backup battery and to override power supply when power failure.

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CHAPTER ONE – HARDWARE

UNDERSTANDING IWCS-RIFLE

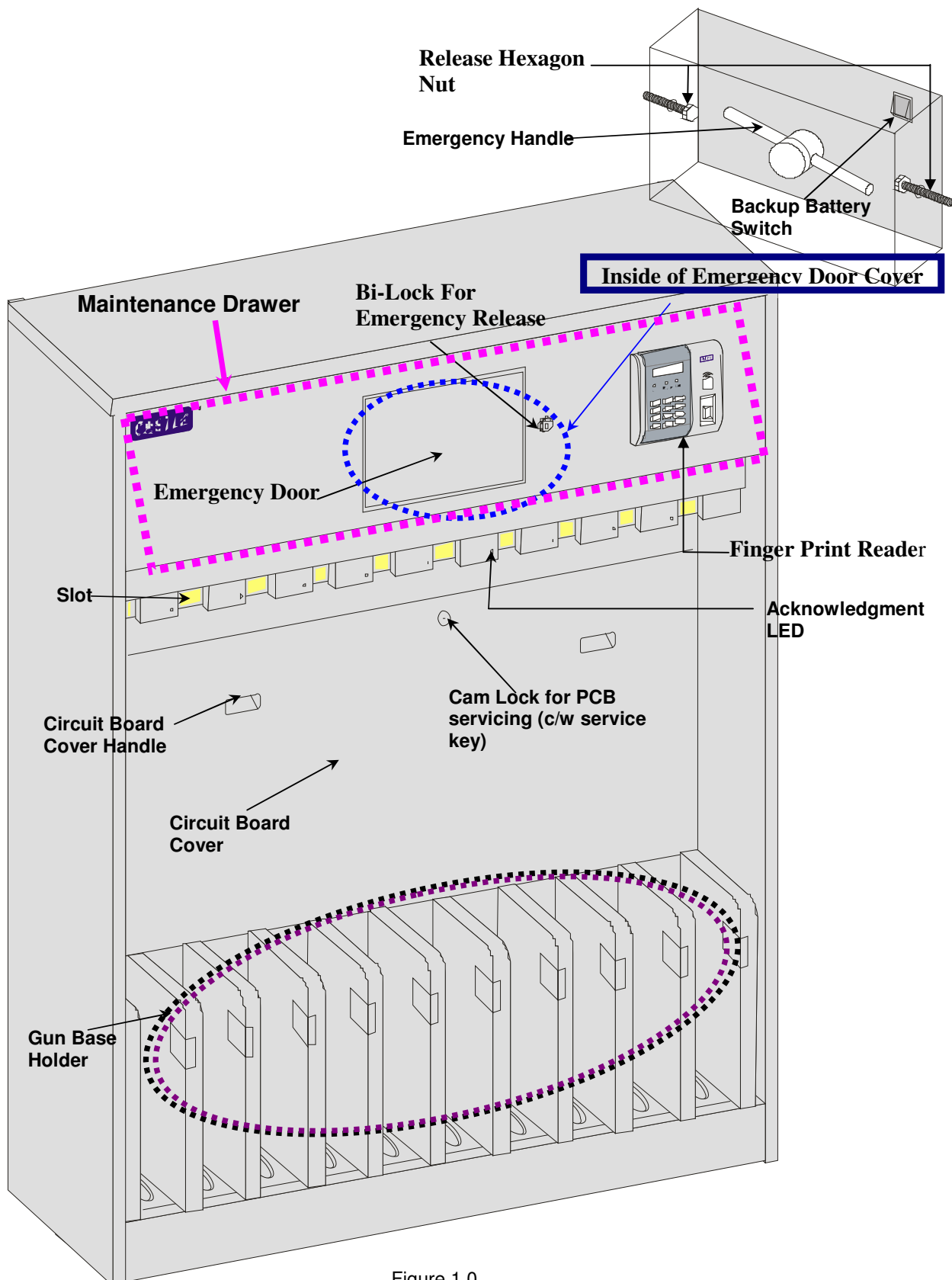


Figure 1.0

UNDERSTANDING IWCS-HANDGUN

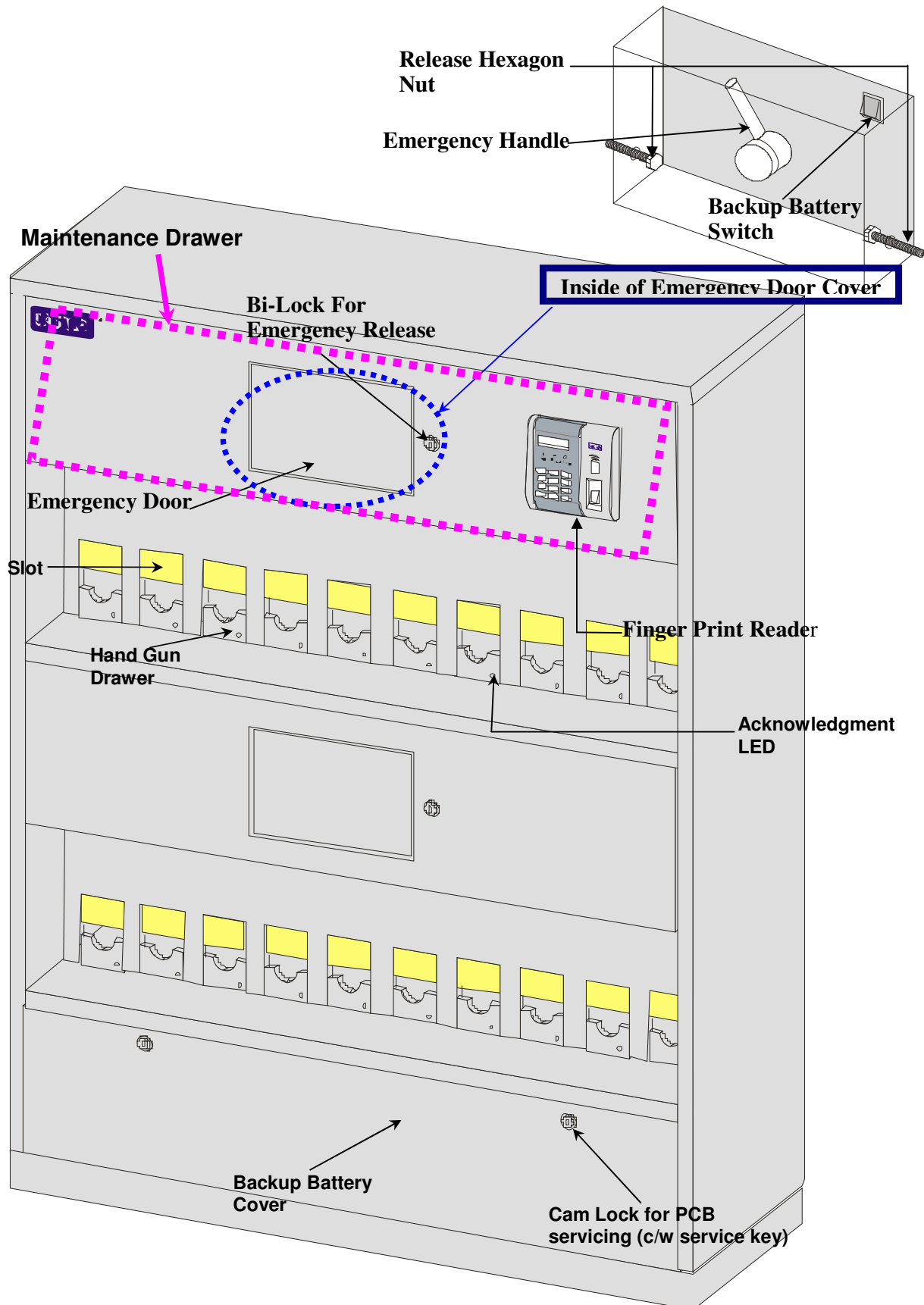


Figure 1.1

IWCS COMPONENTS–RIFLE

No	Item	Description	Unit
1	Controller	Main controller PCB	1
2	Driver Board	Motor ,reader interface with LED PCB	10
3	RS485 Converter	RS485 converter to Network device (N-Port)	1
4	Backup Battery	7AH lead acid backup battery	5
5	Motor	Powerful Fault Tolerance Motor	10
6	PSU	12Vdc 3A, Switching Power Supply Unit	1
		12Vdc 11.5A, Switching Power Supply Unit	1
7	Micro-switch	Sensor Point	31
8	Bi-LED	Bi LED Indicator with Red and Green color	10
9	Key-lock	Bi-lock for Emergency door release	1
10	Key-lock	Cam lock for Circuit Board Cover Handle release	1
11	Gun Base Holder	Plastic Gun Base Holder	10
12	Divider	Plastic Gun Base Divider	11
13	Fingerprint Reader	Fingerprint Reader (Scan-X)	1
14	Proximity Reader	Proximity Reader 125kHz	10
15	RFID Tag	RFID Tag Embedded In Weapon.	10

GENERAL FEATURES

- **Finishing: Powder Coated, Dark Grey color**
- **1.5mm Mild Steel Thickness**
- **Using SPCC – Rack Sheet Metal Material**
- **Dimension: 1250(W) x 1305(H) x 380(D) mm**
- **Weight: +/- 130 Kgs**

IWCS COMPONENTS-HANDGUN

No	Item	Description	Unit
1	Controller	Main controller PCB	1
2	Driver Board	Motor ,reader interface with LED PCB	20
3	RS485 Converter	RS485 converter to Network device (N-Port)	1
4	Backup Battery	7AH lead acid backup battery	9
5	Motor	Powerful Fault Tolerance Motor	20
6	PSU	12Vdc 3A, Switching Power Supply Unit	1
		12Vdc 11.5A, Switching Power Supply Unit	2
7	Micro-switch	Sensor Point	62
8	Bi-LED	Bi LED Indicator with Red and Green color	20
9	Key-lock	Bi-lock for Emergency door release	2
10	Key-lock	Cam lock for Circuit Board Cover Handle release	2
11	Gun Drawer	Acrylic Gun Drawer	20
12	Fingerprint Reader	Fingerprint Reader (Scan-X)	1
13	Proximity Reader	Proximity Reader 125kHz	20
14	RFID Tag	RFID Tag Embedded In Weapon.	20

GENERAL FEATURES

- **Finishing: Powder Coated, Dark Grey color**
- **1.5mm Mild Steel Thickness**
- **Using SPCC – Rack Sheet Metal Material**
- **Dimension: 1400(W) x 1305(H) x 380(D) mm**
- **Weight: +/- 230 Kgs**

CHAPTER TWO – SOFTWARE

SOFTWARE INTERFACE

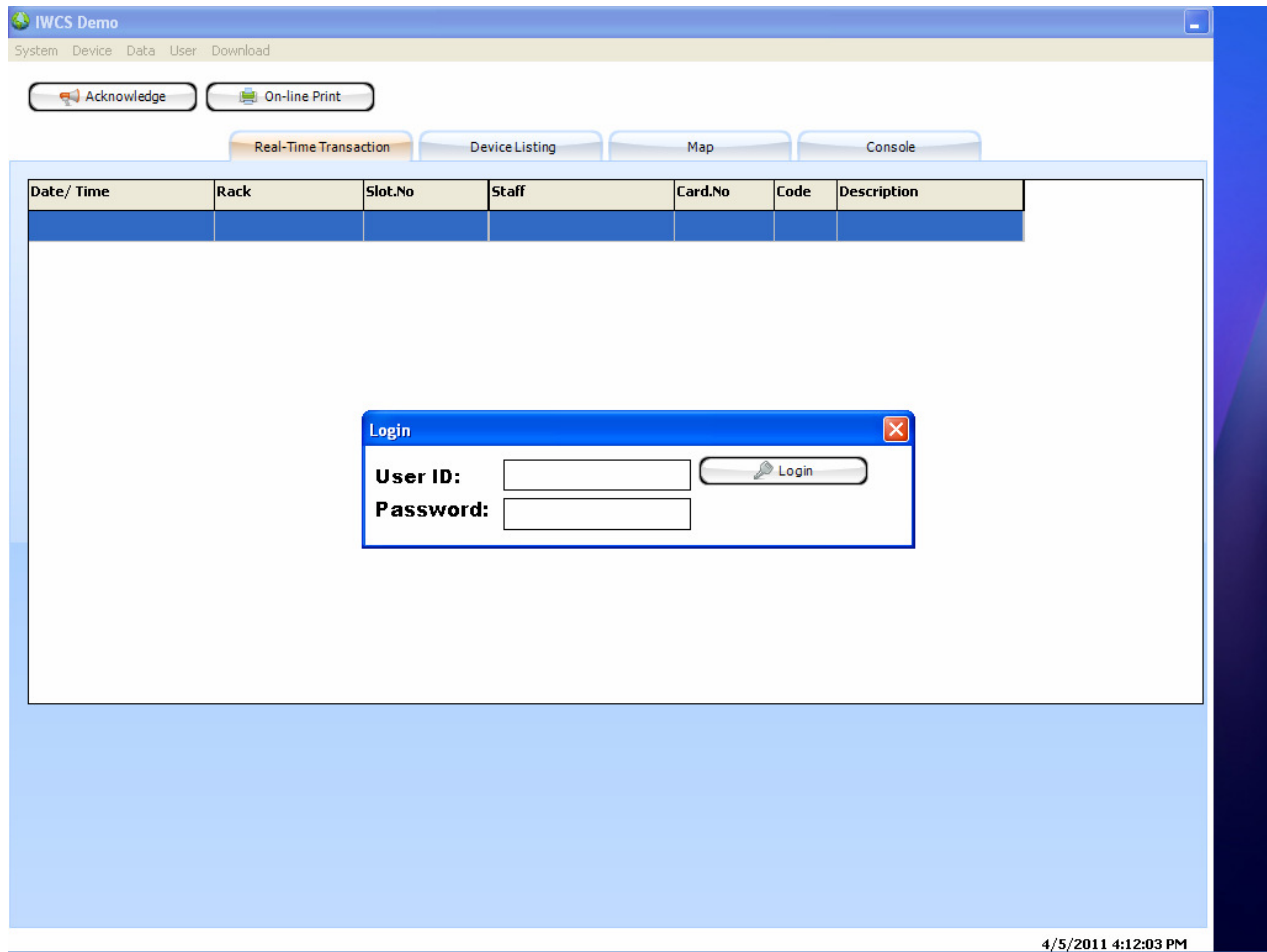


Figure 2.0

SYSTEM MENU

IWCS Demo

1. **System**
 - a. Preferences
 - b. About...
 - c. Logout
 - d. Quit
2. **Device**
 - a. Rack
 - b. Slot Configuration
3. **Data**
 - a. Location
 - b. Map
 - c. Time setting
 - i. Time Set
 - ii. Time Zone
 - iii. Holiday
 - d. Query
 - e. Backup
4. **User**
 - a. Departmental
 - b. Designation
 - c. Time Zone Accessibility
 - d. Slot Accessibility
 - e. User
 - f. Menu Accessibility
 - g. System User
5. **Download**

CHAPTER THREE – CONFIGURATION

SOFTWARE INSTALLATION

The Castle IWCS system is required to install Two (2) software for the operation – NPort Administrator and IWCS Demo.

A) Software installation guidelines:

1. Place CD into CD Rom
2. Install **NPort Setup 1.7.exe**, once complete, install **Setup.exe**.
3. Run IWCS Software.
4. [Insert Username and Password, software is ready to use](#)
5. Install Printer and Converter Driver (Optional) if you want to print out the receipt during 'Weapon Taken' and 'Weapon Return' transaction.
6. Enrollment Unit Installation. Using the installation CD provided, install the driver for fingerprint enrollment unit.
 - a) Plug in Enrollment Unit to PC USB slot
 - b) Windows will prompt new hardware found
 - c) Select driver at (cdrom:/IWCS/Drivers/)
 - d) Upon completion, Enrollment Unit is ready to use.
 - e) For PC with Windows 7, go to cdrom:/IWCS/Drivers/Windows 7 64bits and double click at Enrollment Unit Driver to install the driver.

i) Window display during installation of NPort Administrator

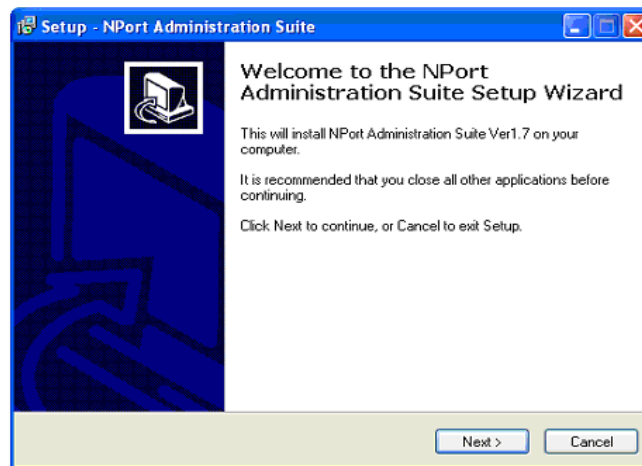


Figure 3.0

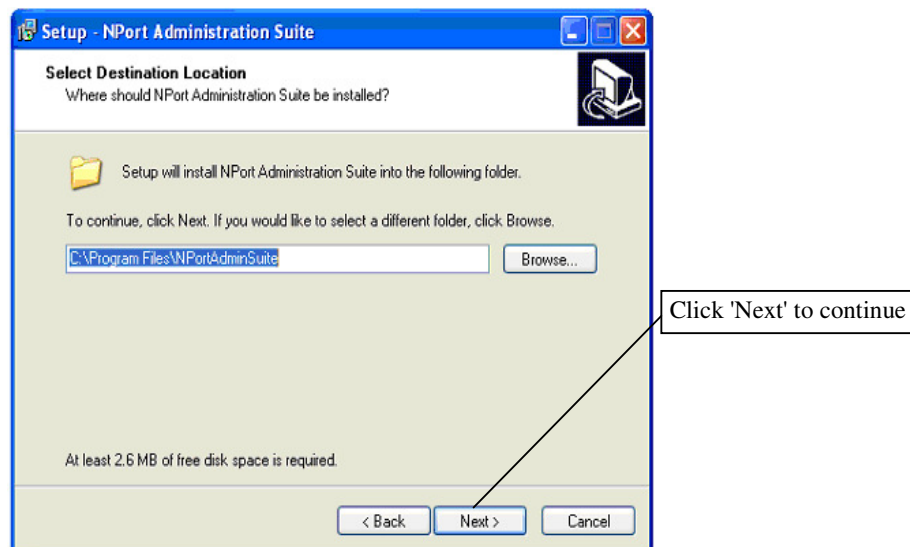
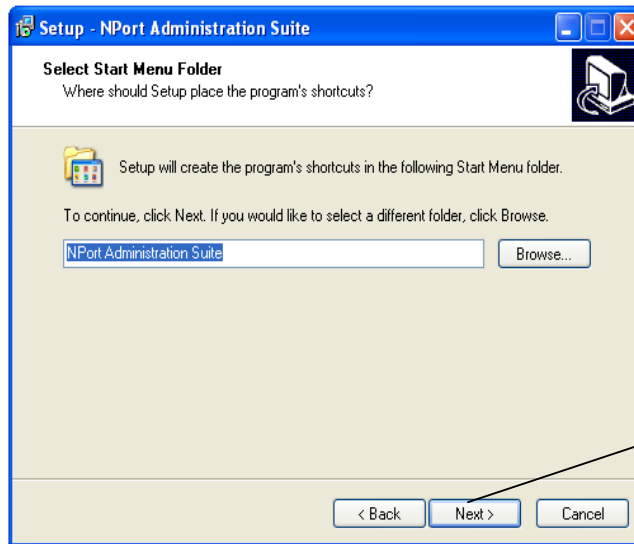
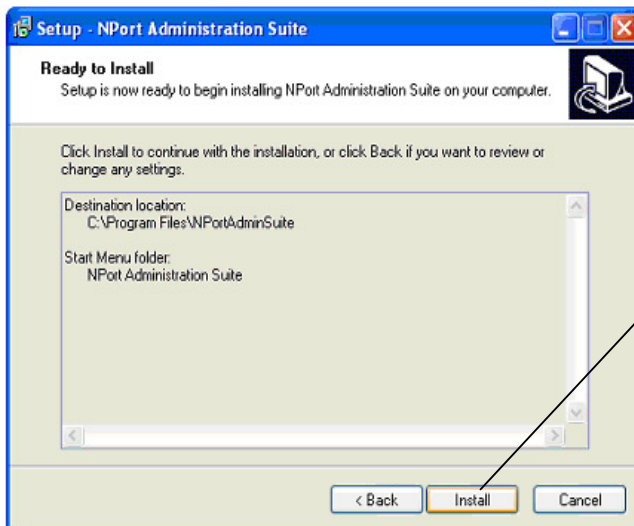


Figure 3.1



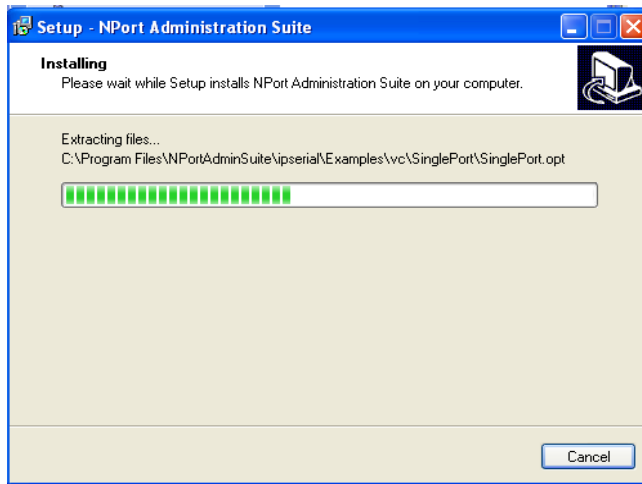
Click 'Next' to continue

Figure 3.2



Click 'Install' to continue

Figure 3.3



Installation in progress

Figure 3.4

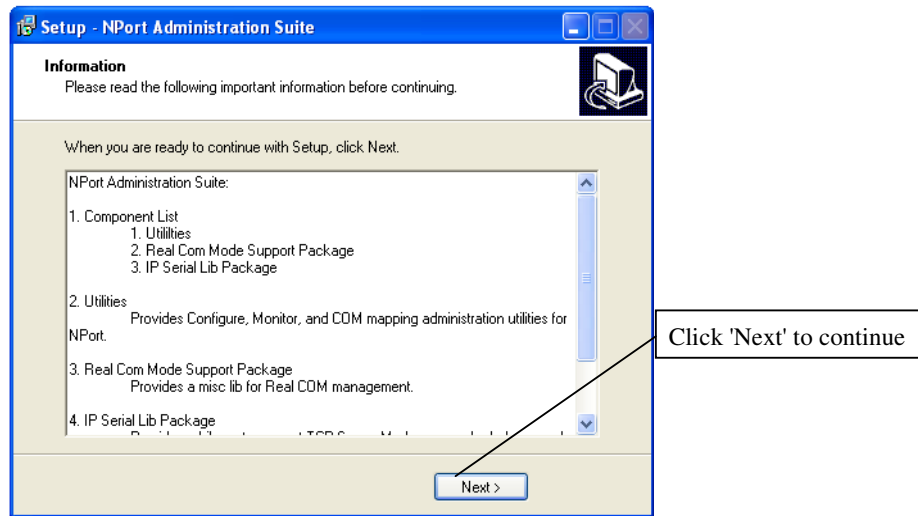


Figure 3.5

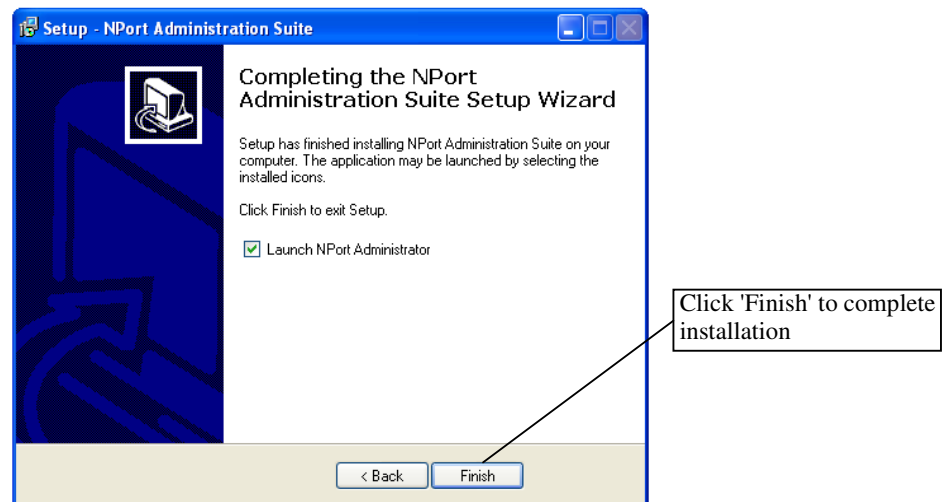


Figure 3.6

ii) Window display after install NPort administrator software for configuring IP address

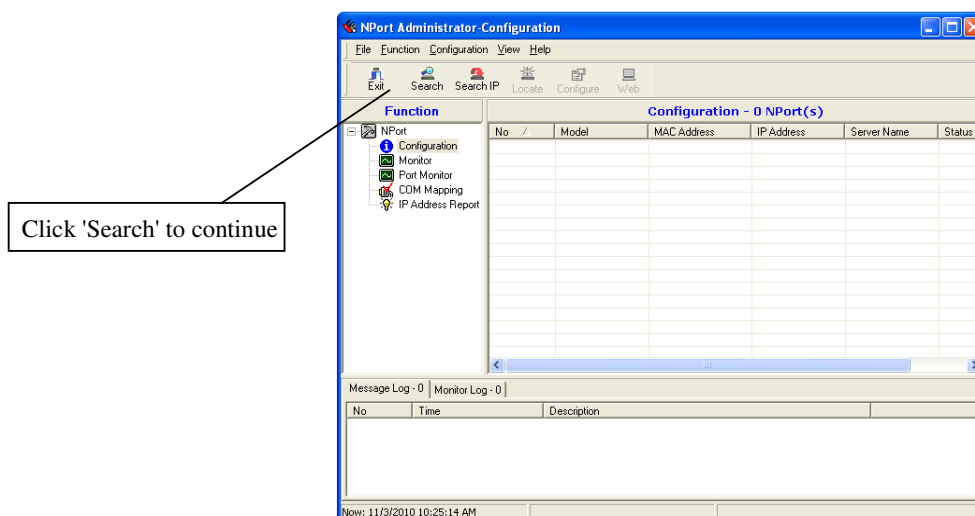


Figure 3.7

- 1) Please make sure iWCS cabinet power 'ON' and LAN cable plug in to your network.
- 2) Then click at Search icon.

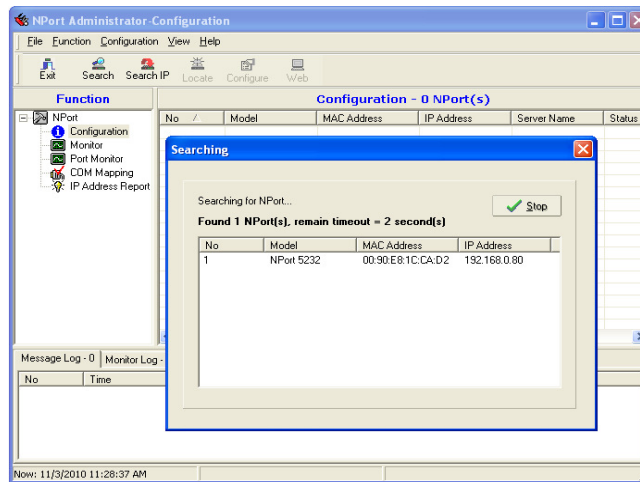


Figure 3.8

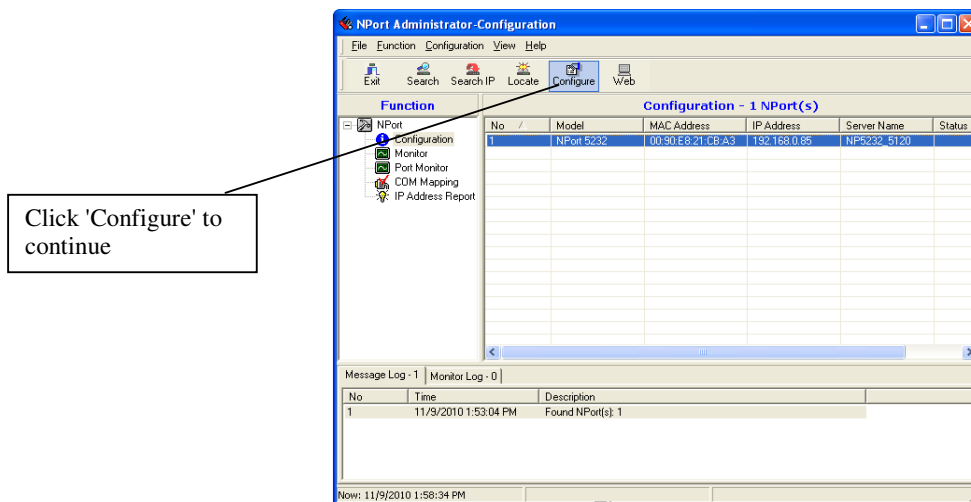


Figure 3.9

- 1) Once it's detecting device, click at Configure icon.

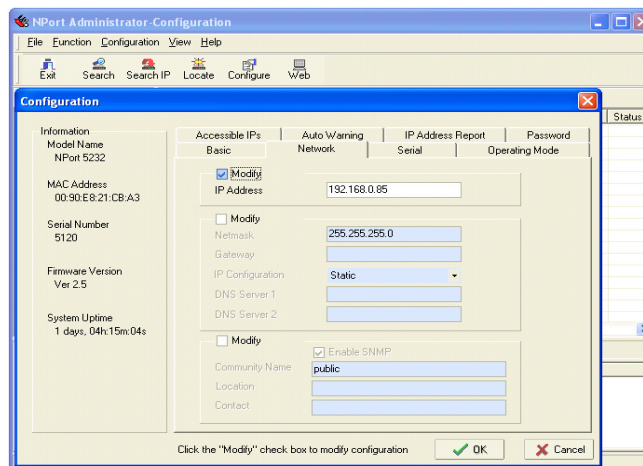


Figure 3.10

- 1) Click at Network and check box of Modify before changing IP Address and Netmask.
- 2) Click OK to save setting to the device.
- 3) Close NPort Administrator software.

ii) Window display during installation of IWCS Demo software

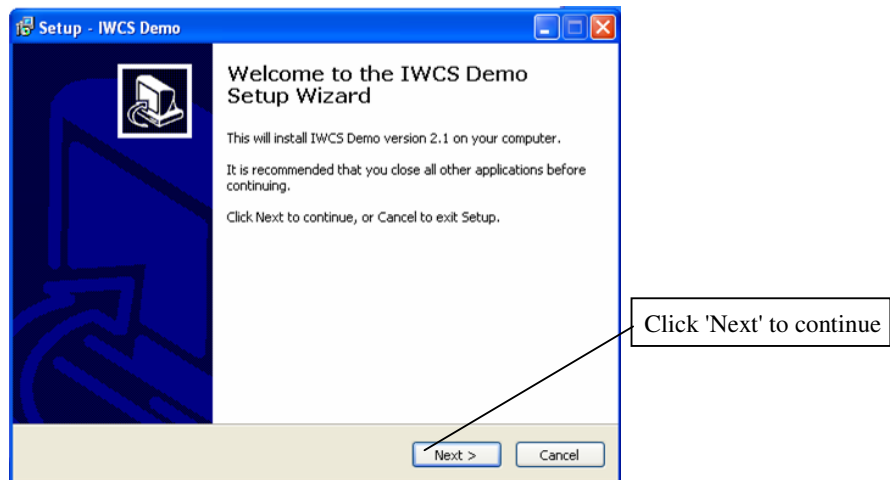


Figure 3.11

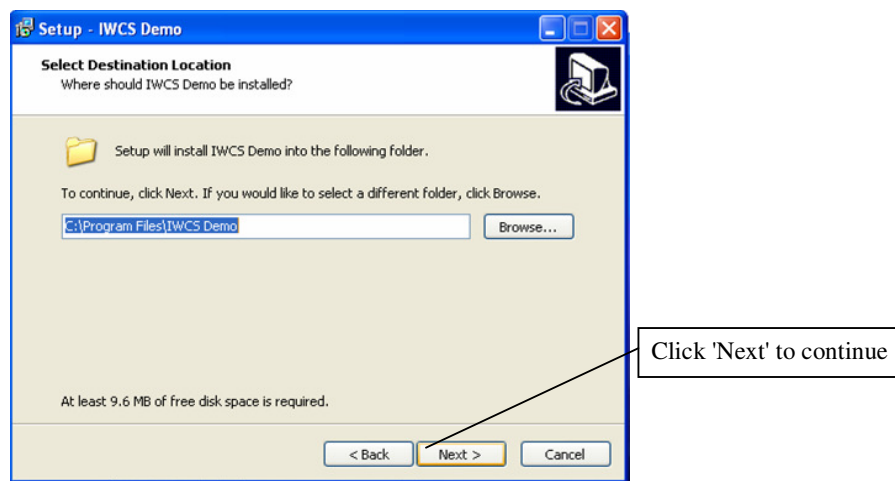


Figure 3.12

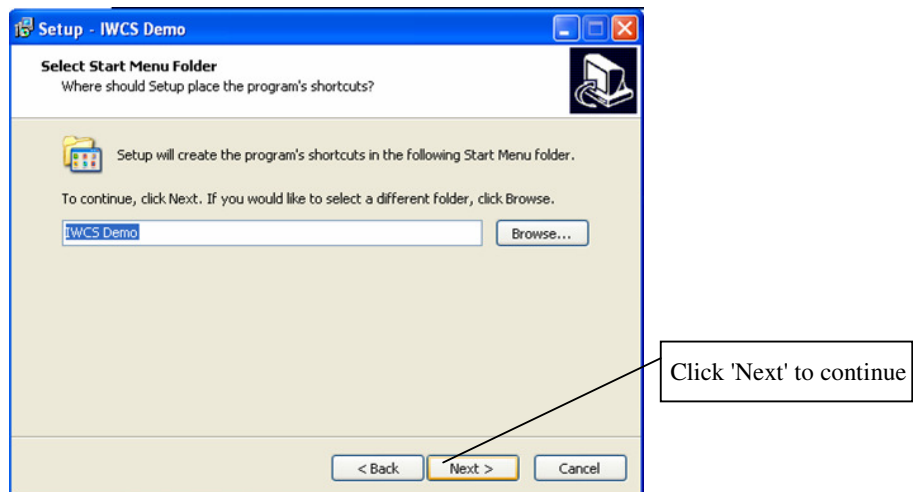


Figure 3.13

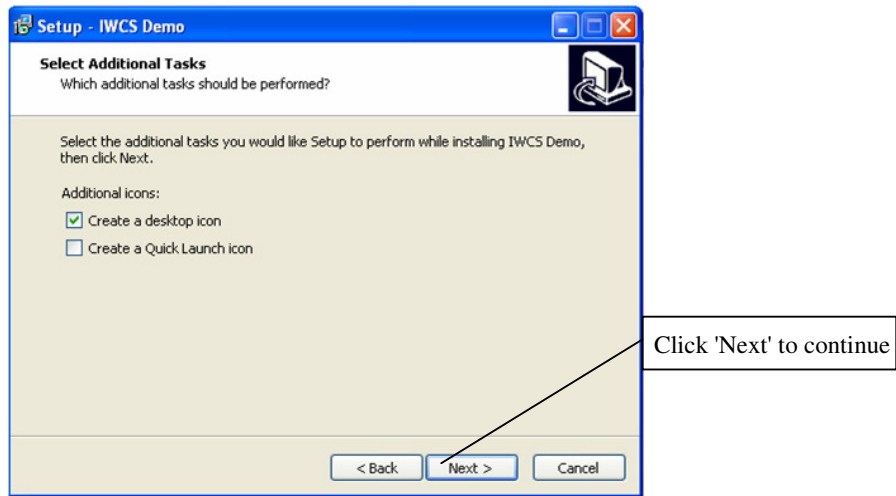


Figure 3.14

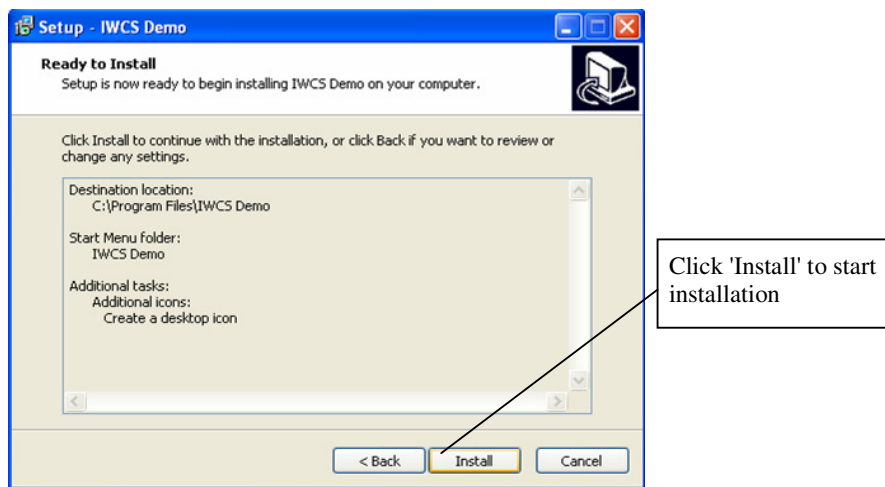


Figure 3.15

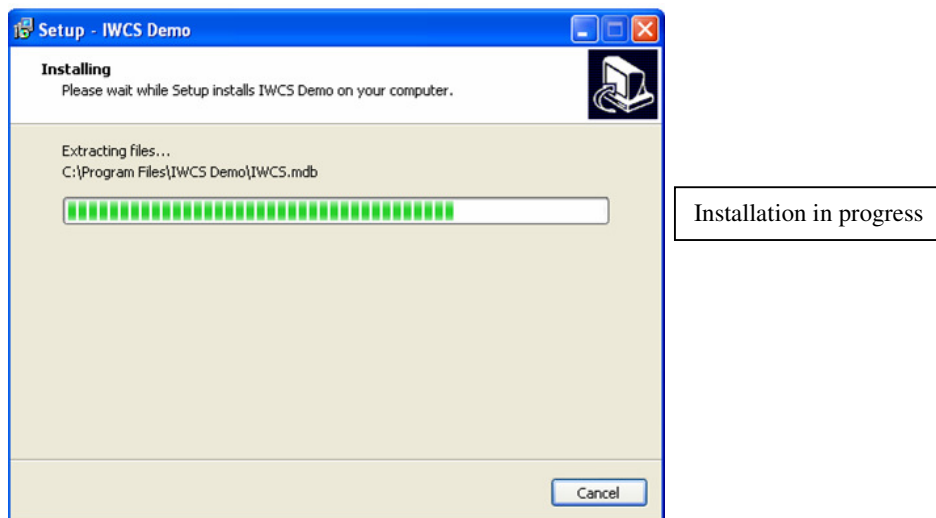


Figure 3.16

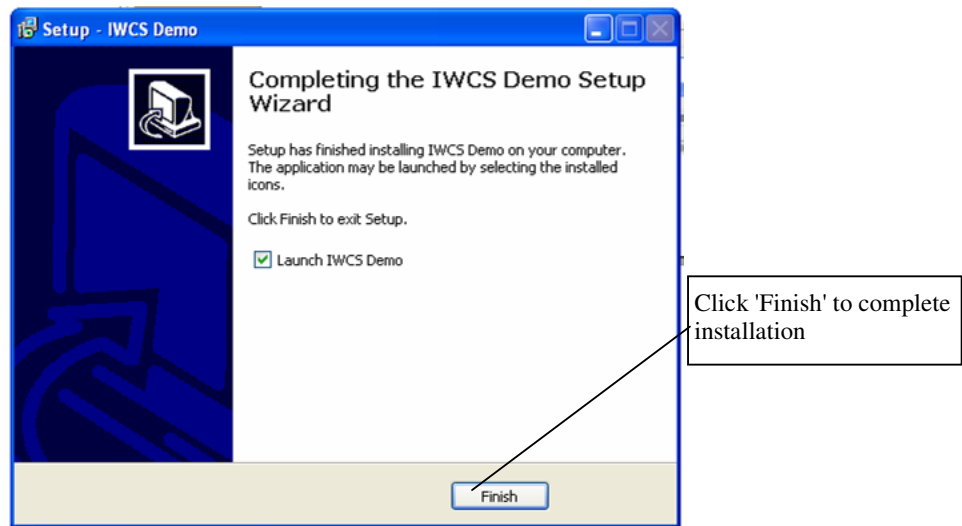


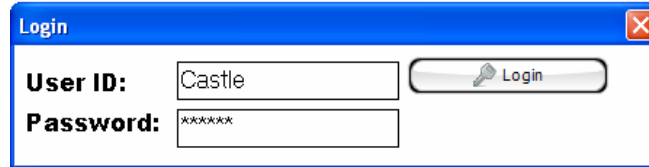
Figure 3.17

Integrated Weapon Control System 2.1

Log-in to the system

User ID = **Castle**

Password = **Castle**



A login dialog box titled "Login" with a close button (X) in the top right corner. It contains two input fields: "User ID:" with the text "Castle" and "Password:" with masked characters "*****". To the right of the password field is a "Login" button with a key icon.

1) System

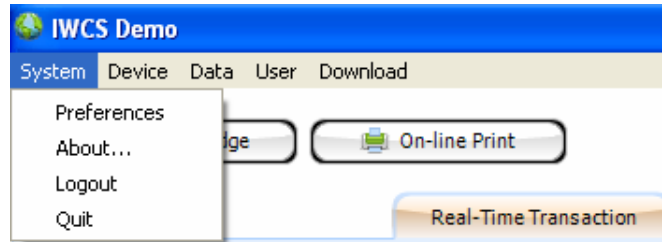
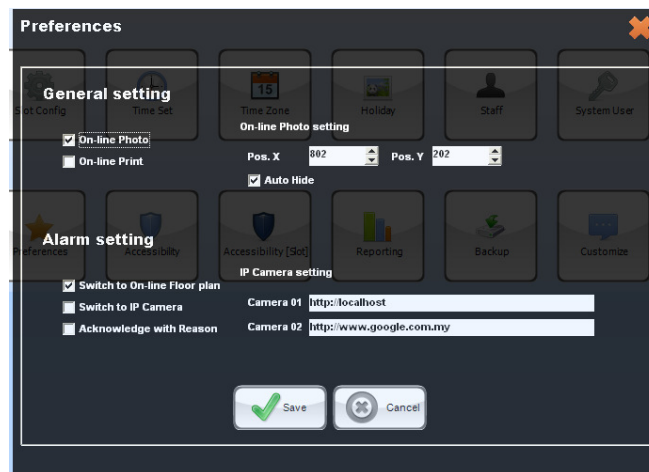


Diagram 1



A "Preferences" dialog box with a dark background and a close button (X) in the top right. It is divided into two main sections: "General setting" and "Alarm setting".
Under "General setting":

- ☒ On-line Photo
- ☐ On-line Print
- ☒ Auto Hide

Under "Alarm setting":

- ☒ Switch to On-line Floor plan
- ☐ Switch to IP Camera
- ☐ Acknowledge with Reason

There are also sections for "On-line Photo setting" (Pos. X: 882, Pos. Y: 282) and "IP Camera setting" (Camera 01: http://localhost, Camera 02: http://www.google.com.my). At the bottom are "Save" and "Cancel" buttons.

Diagram 1.a



An "About" dialog box with a blue title bar and a close button (X) in the top right. It displays the "CASTLE" logo, the text "Integrated Weapon Control System v2.1", and contact information: "Tel: 603-78030011" and "Website: www.castle.com.my". The build number "Build: 2010 0505" is shown in the top right corner.

Diagram 1.b



A "Logout" dialog box with a blue title bar and a close button (X) in the top right. It contains a "Password:" label and an empty input field. To the right of the input field is a "Logout" button with a padlock icon.

Diagram 1.c

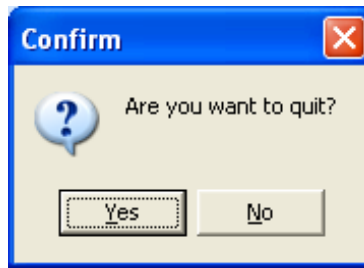


Diagram 1.d.i

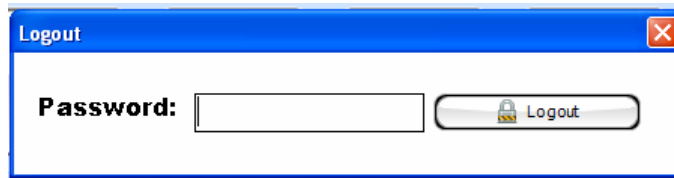


Diagram 1.d.ii

2) Device

To set IP address for software communicate with IWCS Rack through LAN.

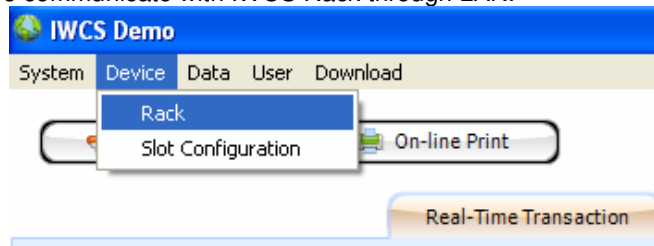


Diagram 2

a) Rack

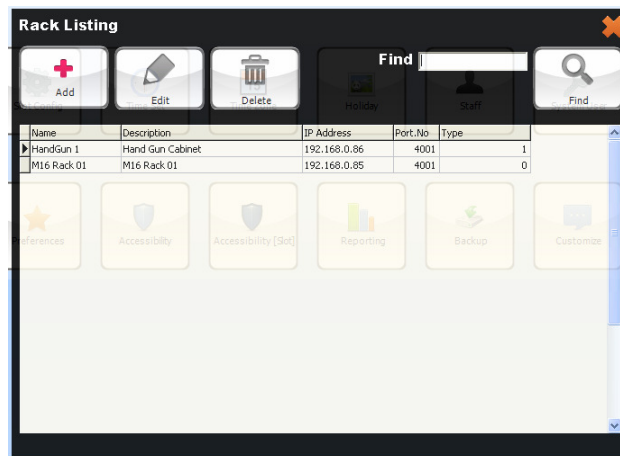


Diagram 2.a.i

Rack Listing - Add

Find

Name
 Description
 IP Address
 Port.No
 Reader IP
 Reader Port
 Reader.No

☒ Long Gun
☐ Short Gun

Save Cancel

Diagram 2.a.ii

- Click “**Device**” button, click at “**Rack**” and then click at “**Add**” to set name, type and IP for IWCS cabinet and reader that have been configure at NPort Administrator software. It must be same for **IP** and **IP Reader**.
- Click “**Save**” button after finish set IP address.
- Click “**Add**” to add another rack and after finish adding rack list, then click “**X**” for exit. It requires **restarting** IWCS Demo software when add or edit rack listing for applying changes to database.

b) Slot Configuration

Slot Configuration

Edit Mode Time Set Find

Racks

- HandGun 1 (Hand Gun Cabinet)
- M16 Rack 01 (M16 Rack 01)

No	Tag	Release time
0		10
1		10
2		10
3		10
4		10
5		10
6		10
7		10
8		10
9		10
10		10
11		10
12		10
13		10
14		10
15		10
16		10
17		10

Diagram 2.b.i (HandGun)

Slot Configuration

Edit Mode Time Set Find

Racks

- HandGun 1 (Hand Gun Cabinet)
- M16 Rack 01 (M16 Rack 01)

No	Tag	Release time
0		10
1		10
2		10
3		10
4		10
5		10
6	0055598375	10
7		10
8		10
9		10

Diagram 2.b.i (Riffle)

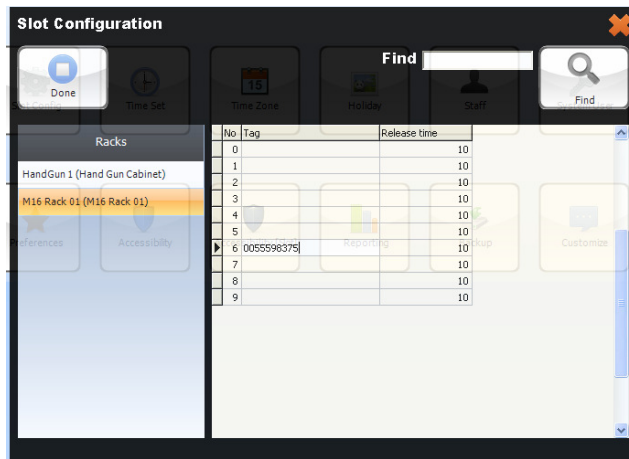


Diagram 2.b.ii (Riffle)

- i) Click **"Edit Mode"** to add weapon Tag ID number which attached inside CD, then set release time for slot to open until weapon be taken. After finish, click **"Done"** and then proceed to next Racks for key-in Tag ID number. System will automatically install Tag ID number to the Rack controller.
- ii) It will be different Tag ID number for each slot and for each cabinet. For Handguns will be 20 Tag ID number to be key-in and 10 Tag ID number for Riffle cabinet.

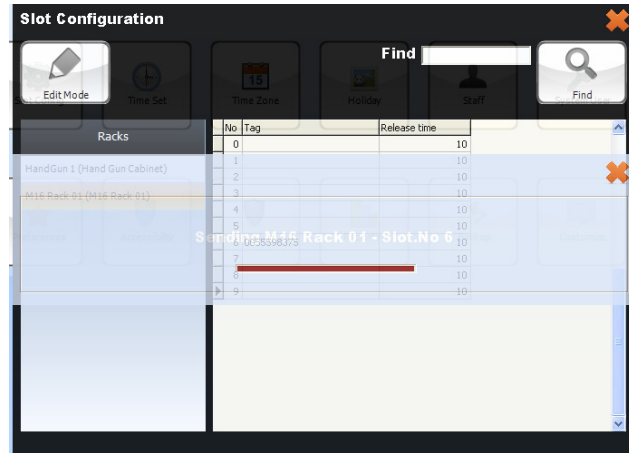


Diagram 2.b.iii (Riffle)

3) Data

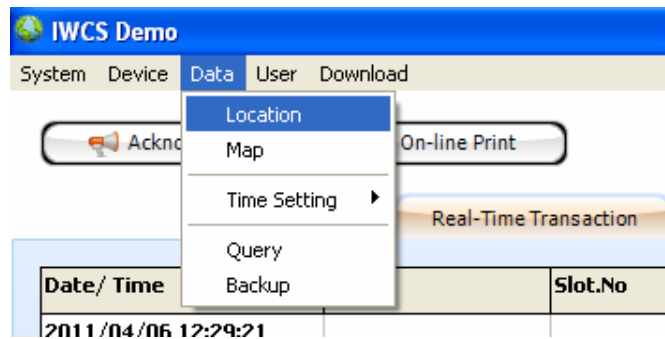


Diagram 3

i) Location

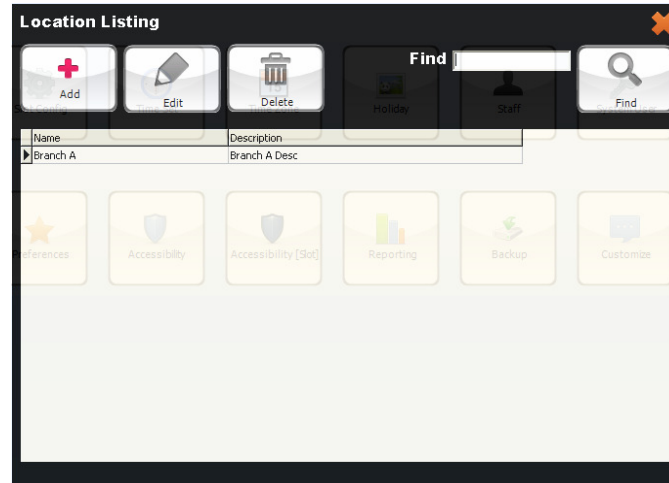


Diagram 3.a

- a) Click "Add" button to create location of the IWCS racks. Then click "OK" after finish creating location.
- b) Location which has been created can be edit or delete by clicking "Edit" or "Delete" button.

ii) Map

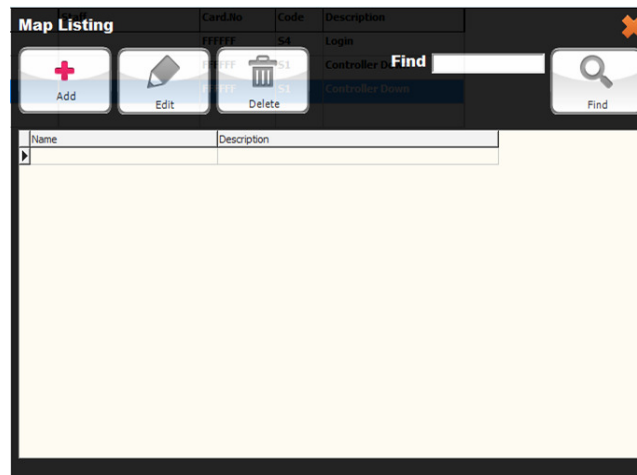


Diagram 3.b.i

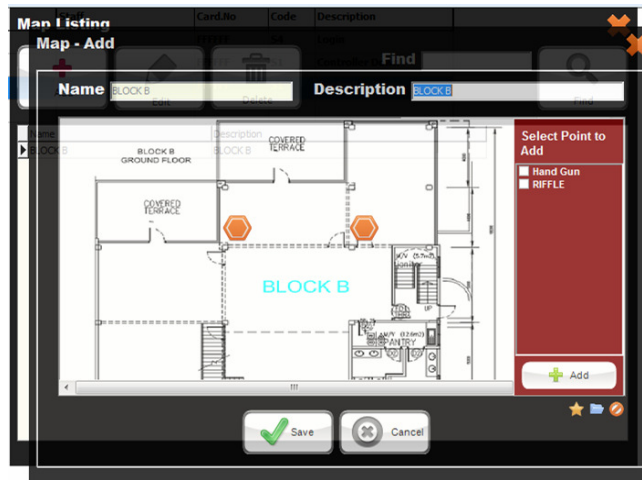


Diagram 3.b.ii

- Click "Add" button then key-in Name and Description.
- Click folder icon to select map files. Then click "Open" button after do the selection.
- Check or click box for pointing the racks and then click "Add" button to put racks into the map.
- After finish, click "Save" button to save map into the software.

iii) Time Setting

1) Time Set

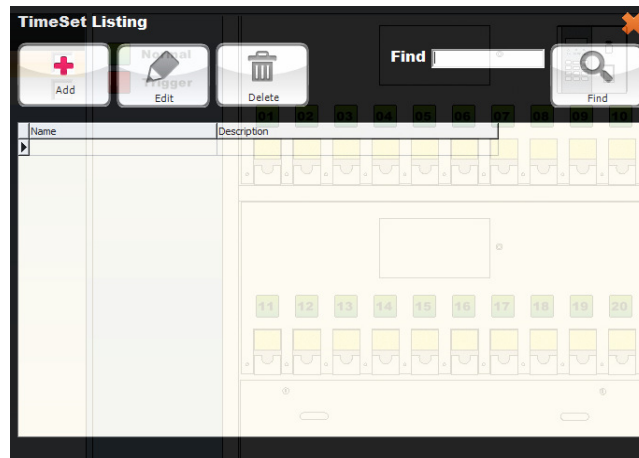


Diagram 3.c.i-1

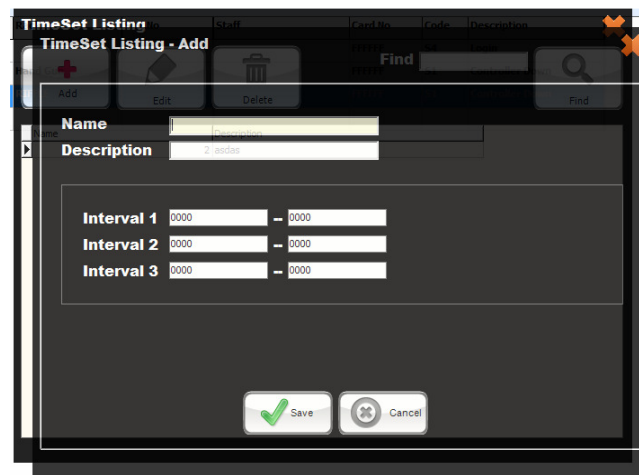


Diagram 3.c.i-2

- In this Time Set, have two defaults Time Set Listing Name. That is 0 and 1, and it's hidden. Time Set Name 0 is for No Access and Time Set Name 1 is for Free Access (from 0000 until 2359). For new Time Set Listing Name will start from 2 until 99.
- For setting new Time Set Name, click at "Add" button and key-in description for the time set. Then set interval 1, interval 2 and interval 3. After finish, click at "Save" button.

2) Time Zone

The screenshot shows the 'TimeZone Listing' window. At the top, there are tabs for 'Staff', 'Card.No', 'Code', and 'Description'. Below the tabs are three buttons: 'Add' (with a plus icon), 'Edit' (with a pencil icon), and 'Delete' (with a trash icon). To the right of these buttons is a 'Find' button with a magnifying glass icon. Below the buttons is a table with columns 'Name' and 'Description'. The table is currently empty.

Diagram 3.c.ii-1

The screenshot shows the 'TimeZone Listing - Add' window. It has the same top tabs and buttons as the previous window. Below the buttons, there are two input fields: 'Name' and 'Description'. Below these fields is a section for setting time zone access for each day of the week. The days are listed in two columns: Mon, Tue, Wed, Thu on the left, and Fri, Sat, Sun, Hol on the right. Each day has a dropdown menu showing '000 - No Access'. At the bottom of the window are two buttons: 'Save' (with a green checkmark icon) and 'Cancel' (with a red X icon).

Diagram 3.c.ii-2

- i) In this Time Zone, have two default Time Zone Listing Name. That is 0 and 1, and it is hidden. Time Zone Name 0 is for No Access and Time Zone Name 1 is for Free Access (from Monday until Holiday02 are Time Set 1). For new Time Zone ID will start from 2 until 99.
- ii) For setting new Time Zone ID, click at "Add" button and key-in description for time zone. Then set time set for Monday until Holiday. After finish, click at 'Save' button.

3) Holiday

The screenshot shows the 'Holiday Listing' window. It has the same top tabs and buttons as the previous windows. Below the buttons is a table with columns 'Name' and 'Description'. The table is currently empty.

Diagram 3.c.iii-1

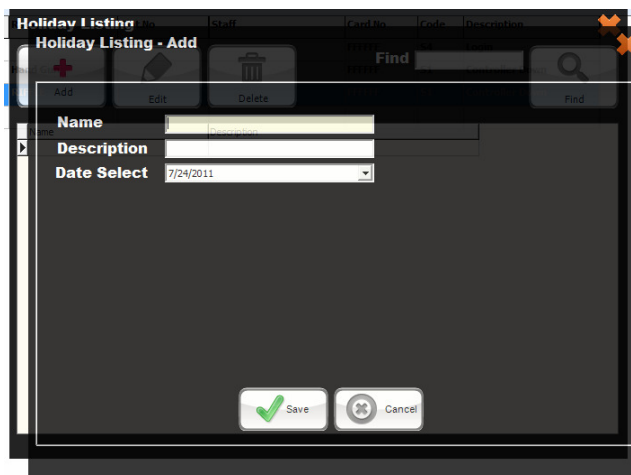


Diagram 3.c.iii-2

- i) For setting new Holiday Listing, click at "Add" button and key-in description for time zone. Then select date by click at down arrow, a calendar will appear. Click at the date for holiday.
- ii) After finish, click at 'Save' button.

iv) Query

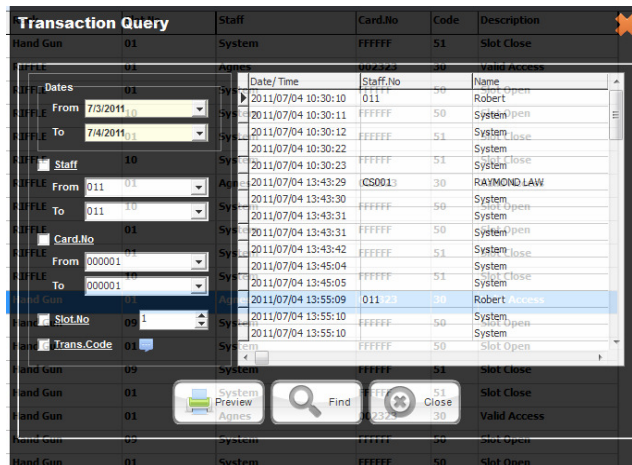


Diagram 3.d.i

- i). Click on "Query" to view log transaction. Select date and also can filter Staff, Card No., Slot No. and Transaction Code. Click at the box to apply filter function.
- ii). After finish selection, click "Find" button. Transaction log will appear at table on the right.
- iii). To view transaction on print preview, click at "Preview" button. From here, can be print out transaction report by click on printer icon.
- iv).

Report Preview

File Page Zoom

Page 1 of 2 Zoom 100%

CASTLE Transaction Log Report

Date/Time	Staff.No	Name	Card.No	Rack	Slot	Description
2011/07/04 10:30:10	011	Robert	000012	Hand Gun	01	(30) Valid Access
2011/07/04 10:30:11		System	FFFFFF	Hand Gun	12	(50) Slot Open
2011/07/04 10:30:12		System	FFFFFF	Hand Gun	08	(50) Slot Open
2011/07/04 10:30:22		System	FFFFFF	Hand Gun	12	(51) Slot Close
2011/07/04 10:30:23		System	FFFFFF	Hand Gun	08	(51) Slot Close
2011/07/04 13:43:29		RAYMOND LAW	000001	Hand Gun	01	(30) Valid Access
2011/07/04 13:43:30		System	FFFFFF	Hand Gun	06	(50) Slot Open
2011/07/04 13:43:31		System	FFFFFF	Hand Gun	10	(50) Slot Open
2011/07/04 13:43:31		System	FFFFFF	Hand Gun	06	(53) Weapon Taken
2011/07/04 13:43:42		System	FFFFFF	Hand Gun	10	(51) Slot Close
2011/07/04 13:45:04		System	FFFFFF	Hand Gun	06	(54) Weapon Placed
2011/07/04 13:45:05		System	FFFFFF	Hand Gun	06	(51) Slot Close
2011/07/04 13:55:09	011	Robert	000012	Hand Gun	01	(30) Valid Access
2011/07/04 13:55:10		System	FFFFFF	Hand Gun	12	(50) Slot Open
2011/07/04 13:55:10		System	FFFFFF	Hand Gun	08	(50) Slot Open
2011/07/04 13:55:13		System	FFFFFF	Hand Gun	08	(53) Weapon Taken
2011/07/04 13:55:21		System	FFFFFF	Hand Gun	12	(51) Slot Close
2011/07/04 14:01:05		System	FFFFFF	Hand Gun	08	(53) Weapon Taken
2011/07/04 15:02:53		System	FFFFFF	Hand Gun	01	(37) Controller Reset
2011/07/04 15:02:53		System	FFFFFF	Hand Gun	01	(70) Emergency Open
2011/07/04 15:02:59		System	FFFFFF	Hand Gun	01	(51) Slot Close
2011/07/04 15:03:00		System	FFFFFF	Hand Gun	02	(51) Slot Close
2011/07/04 15:03:00		System	FFFFFF	Hand Gun	01	(35) Reader Up
2011/07/04 15:03:00		System	FFFFFF	Hand Gun	03	(51) Slot Close
2011/07/04 15:03:00		System	FFFFFF	Hand Gun	04	(51) Slot Close
2011/07/04 15:03:00		System	FFFFFF	Hand Gun	05	(51) Slot Close
2011/07/04 15:03:00		System	FFFFFF	Hand Gun	06	(73) Weapon Missing
2011/07/04 15:03:00		System	FFFFFF	Hand Gun	06	(51) Slot Close

Diagram 3.d.ii

v) Backup

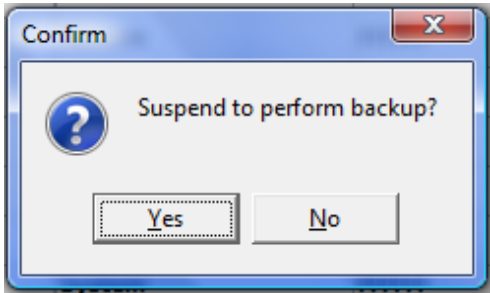


Diagram 3.e.i

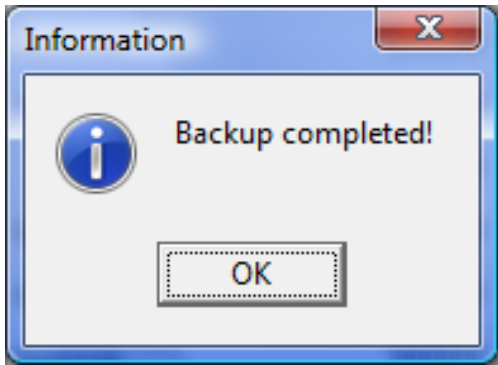


Diagram 3.e.ii

i) This function to backup database to backup folder at C:\Program Files\IWCS Demo.

4) User

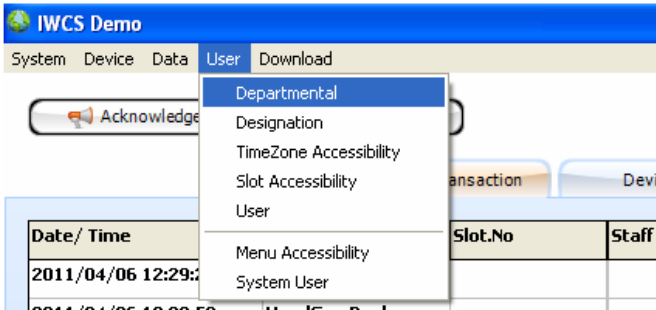


Diagram 4

i) Departmental

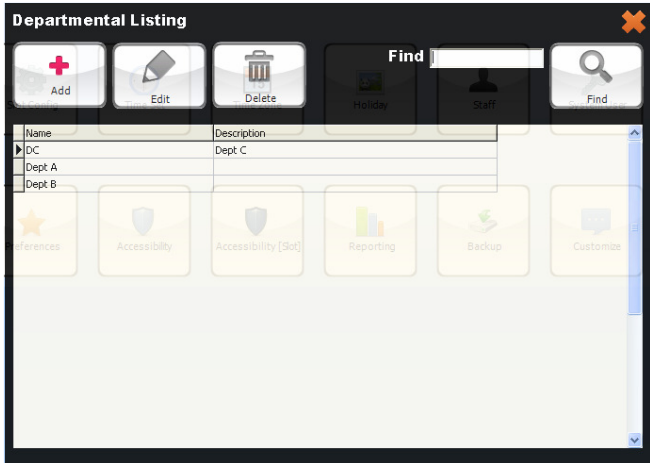


Diagram 4.a.i

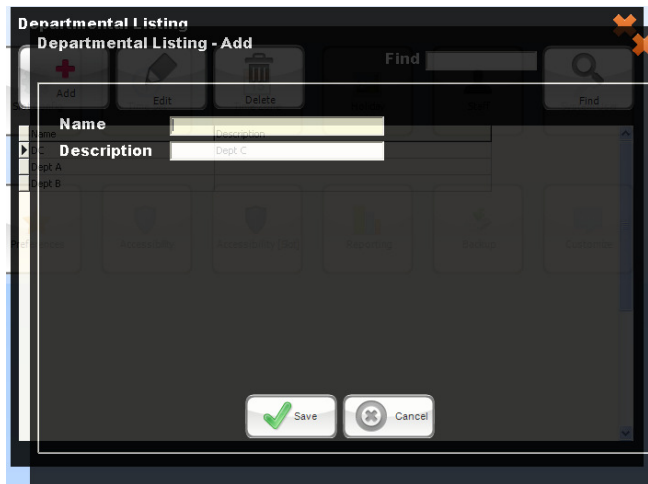


Diagram 4.a.ii

- i). Click at “Add” button to create department. After key-in Name and Description, click at “Save” button to save.

ii) Designation

Name	Staff	Card.No	Code	Description
Officer	08	000000	51	Slot Close
SWAT	13	000000	51	Slot Close
System	10	000000	51	Slot Close
System	14	000000	51	Slot Close
System	01	000000	52	Controller Up
System	06	000000	70	Emergency Open
System	01	000000	73	Weapon Missing
System	01	000000	71	Emergency Close
System		000000	53	Alarm Acknowledge
System		000000	51	Controller Down
System		000000	52	Controller Up
System	14	000000	50	Slot Open
System	14	000000	51	Slot Close
System	01	000000	51	Slot Close
System	01	000000	50	Slot Open

Diagram 4.b.i

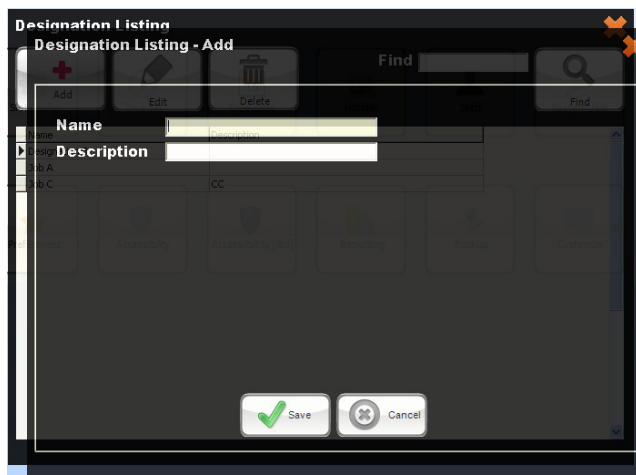
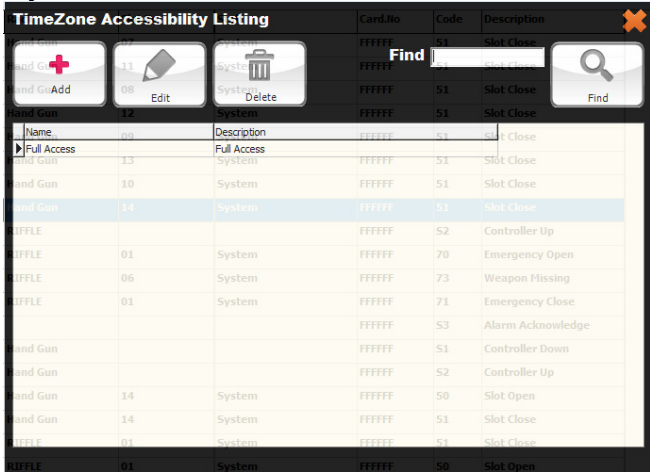


Diagram 4.b.ii

- i). Click “Add” button to create designation. After assign Name and Description, click at “Save” button to save changes.

iii) TimeZone Accessibility

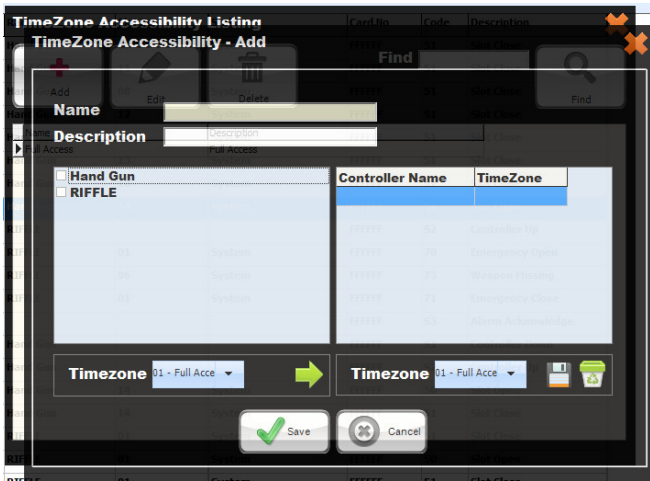


TimeZone Accessibility Listing

Buttons: Add, Edit, Delete, Find

Name	Description	Card.No	Code	Description
Hand Gun	System	FFFFFF	51	Slot Close
Full Access	Full Access	FFFFFF	51	Slot Close
Hand Gun	System	FFFFFF	51	Slot Close
Hand Gun	System	FFFFFF	51	Slot Close
Hand Gun	System	FFFFFF	51	Slot Close
RIFFLE	System	FFFFFF	52	Controller Up
RIFFLE	System	FFFFFF	70	Emergency Open
RIFFLE	System	FFFFFF	73	Weapon Missing
RIFFLE	System	FFFFFF	71	Emergency Close
Hand Gun	System	FFFFFF	53	Alarm Acknowledge
Hand Gun	System	FFFFFF	51	Controller Down
Hand Gun	System	FFFFFF	52	Controller Up
Hand Gun	System	FFFFFF	50	Slot Open
Hand Gun	System	FFFFFF	51	Slot Close
RIFFLE	System	FFFFFF	51	Slot Close
RIFFLE	System	FFFFFF	50	Slot Open

Diagram 4.c.i



TimeZone Accessibility - Add

Buttons: Add, Edit, Delete, Find

Name:

Description:

Hand Gun ☐ RIFFLE ☐

Controller Name:

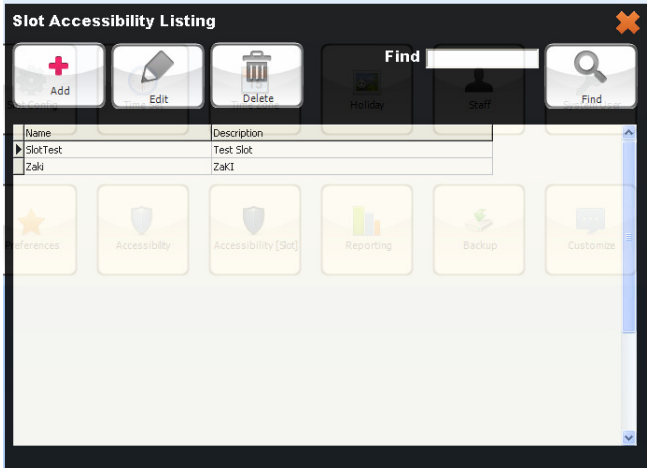
TimeZone:

Save Cancel

Diagram 4.c.ii

- i) Click “Add” button to create TimeZone Accessibility. Key-in Name and description.
- ii) Check box for the racks and select Timezone. Then click ➡ to transfer racks and Timezone from left to right.
- iii) After finish, click “Save” to apply into the system.

iv) Slot Accessibility



Slot Accessibility Listing

Buttons: Add, Edit, Delete, Find

Name	Description
SlotTest	Test Slot
Zaki	Zaki

References Accessibility Accessibility [Slot] Reporting Backup Customize

Diagram 4.d.i

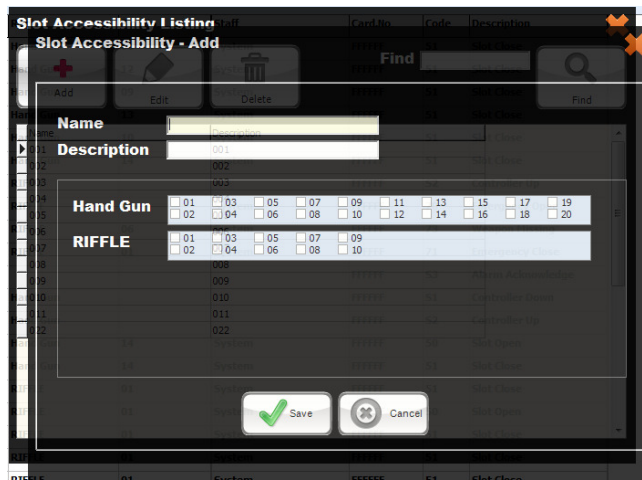


Diagram 4.d.ii

- i) Click “Add” to set accessibility, after key-in name and description of accessibility, select which slot of racks that authorized person can take their weapon.
- ii) Click “Save” after finish setting for accessibility.

v) User

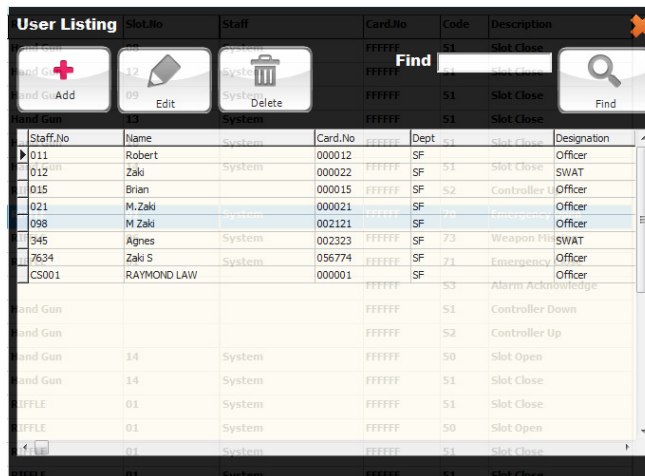


Diagram 4.e.i

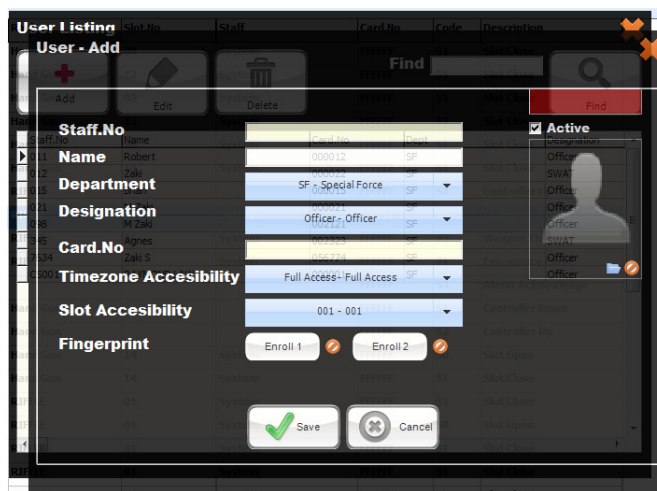
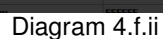


Diagram 4.e.ii



- vi)
- Menu Accessibility**



- vii) **System User**

Diagram 4.g.i

Diagram 4.g.ii

- ## 5) Download



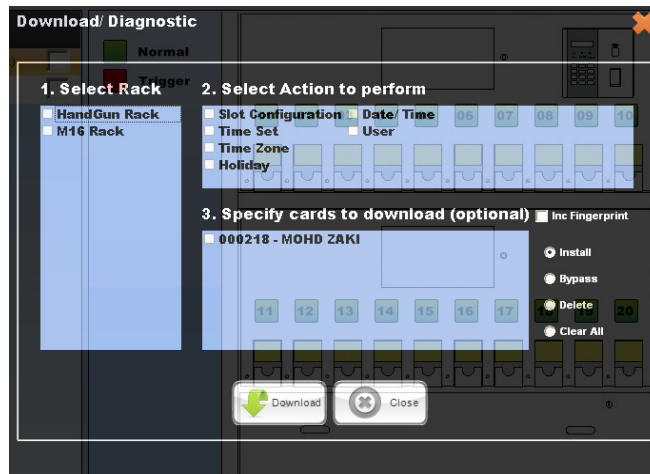


Diagram 5.b

- i) The Download/Diagnostic is used as shortcuts for downloading data from software to the racks.

CHAPTER FOUR – OPERATION

RACK VIEW

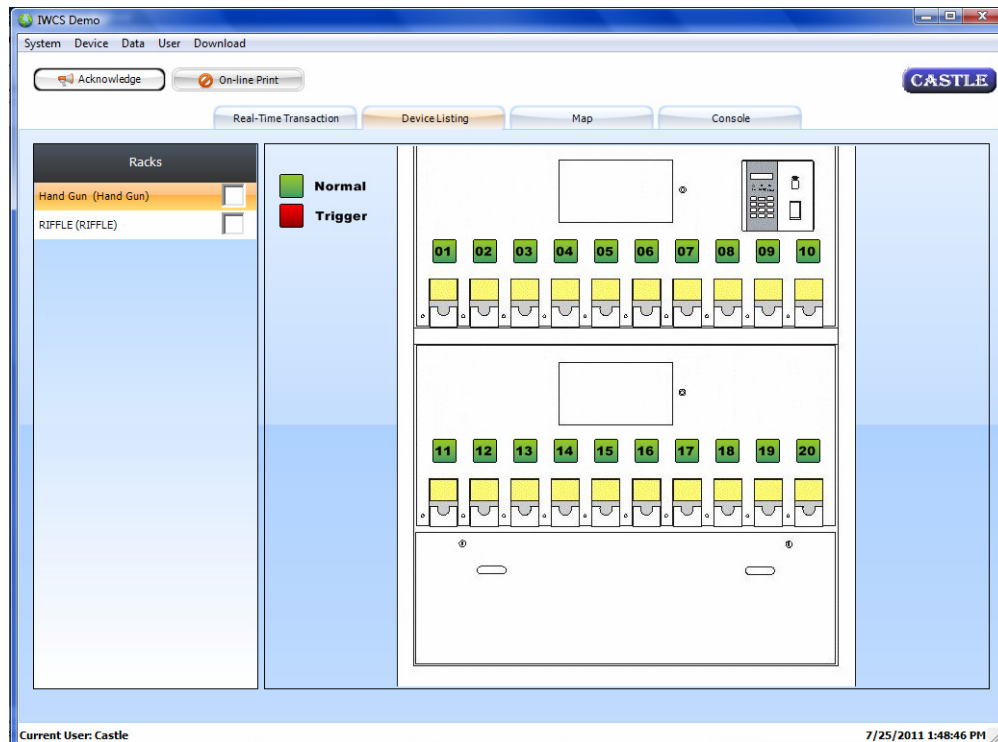


Figure 4.1

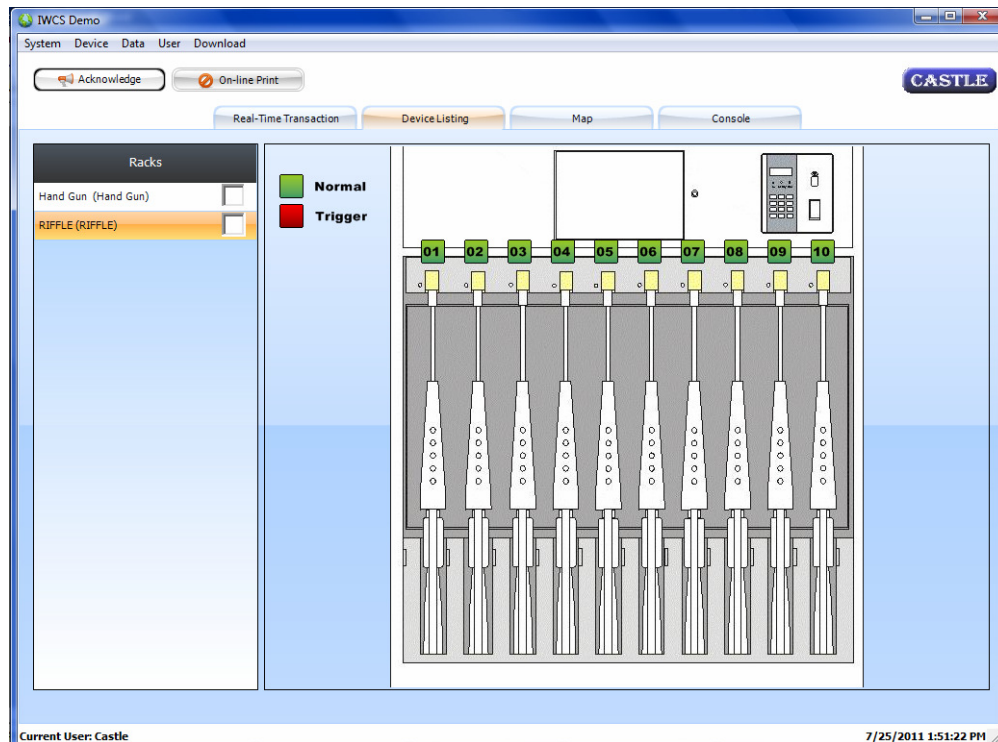


Figure 4.2

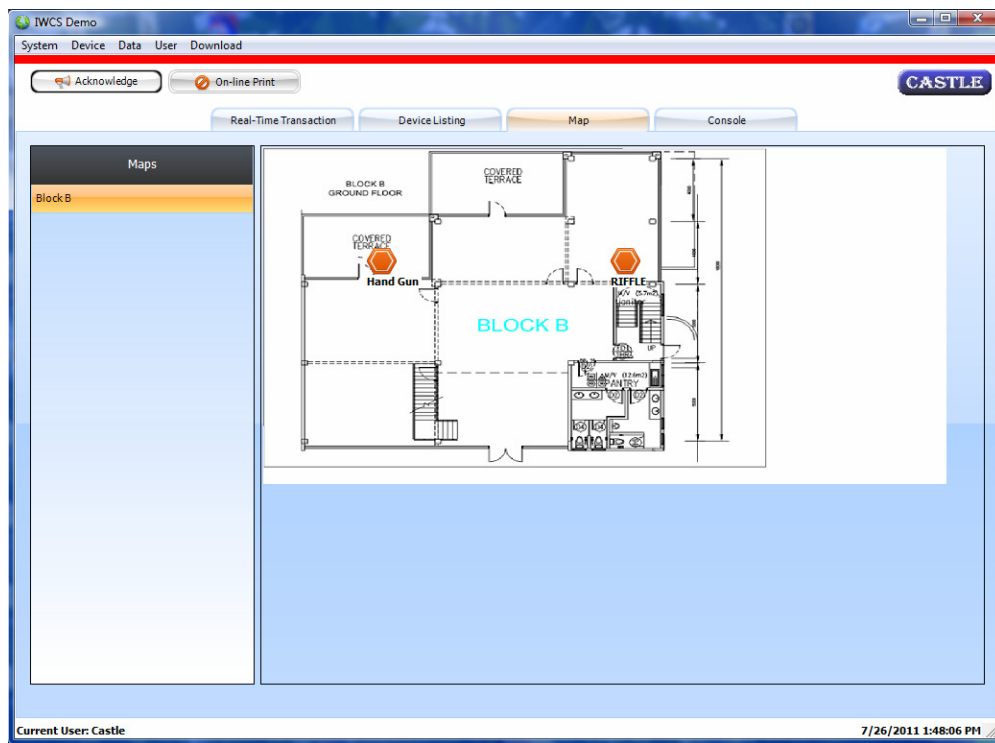
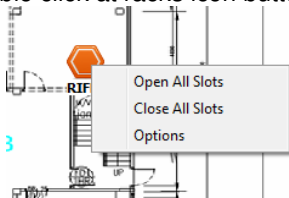


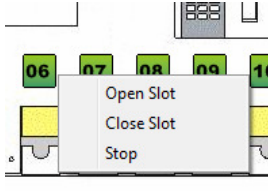
Figure 4.3

1. Can view the racks picture with all sensor point as stated in the drawing above by highlight racks name.
2. When the rack panel is being tampered or weapon missing from slot, the rack view floor plan will pop up with flashing bar and slot number for missing weapon will show sensor status in different color.
3. Bar or slot number color indication:
Red & Yellow – Alarm Trigger
White – Acknowledge
4. Double click at racks icon button.



- i) Open All – To open all slots in one time.
- ii) Close All – To close all slots in one time.
- iii) Option – Select which slot to open, close or stop by multiple selections.

6. Double clicks at slot number can open, close or stop the slot for single selection slot.



REPORTING

Types of Reports

A) Transaction Log

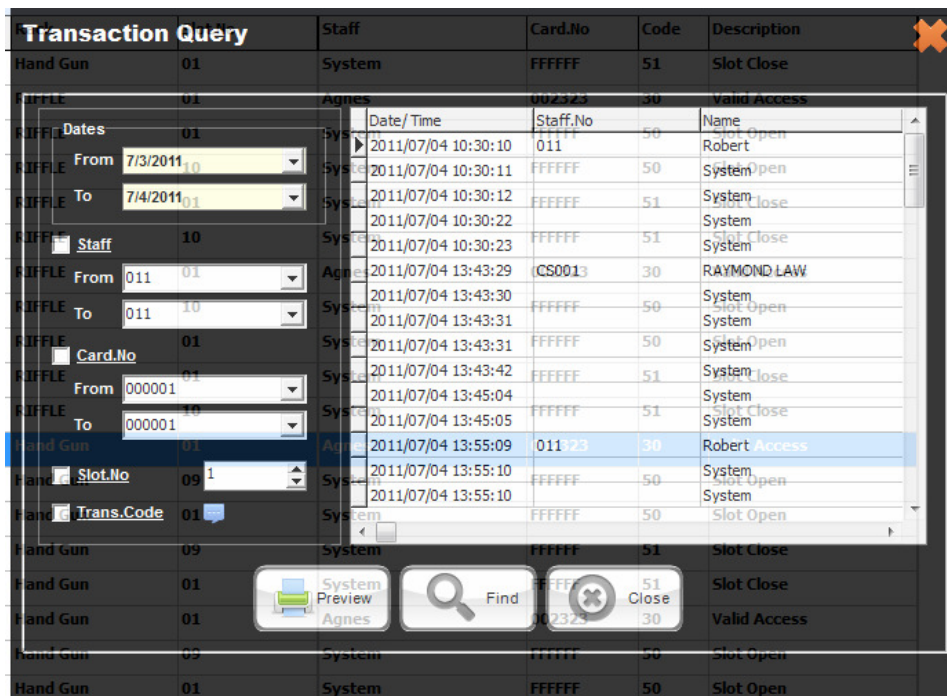


Figure 5.0

1. You can view Transaction history from Data> Query.

B) Real Time Transaction View

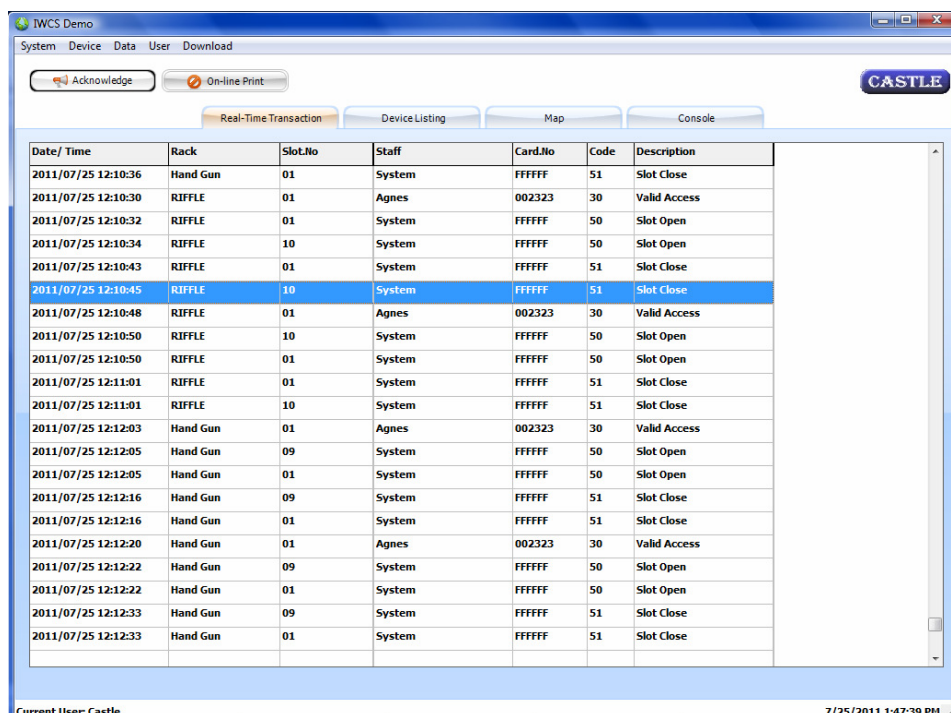


Figure 6.0

1. The Real Time Transaction allows you to view the online transaction on the spot.

C) Device Listing

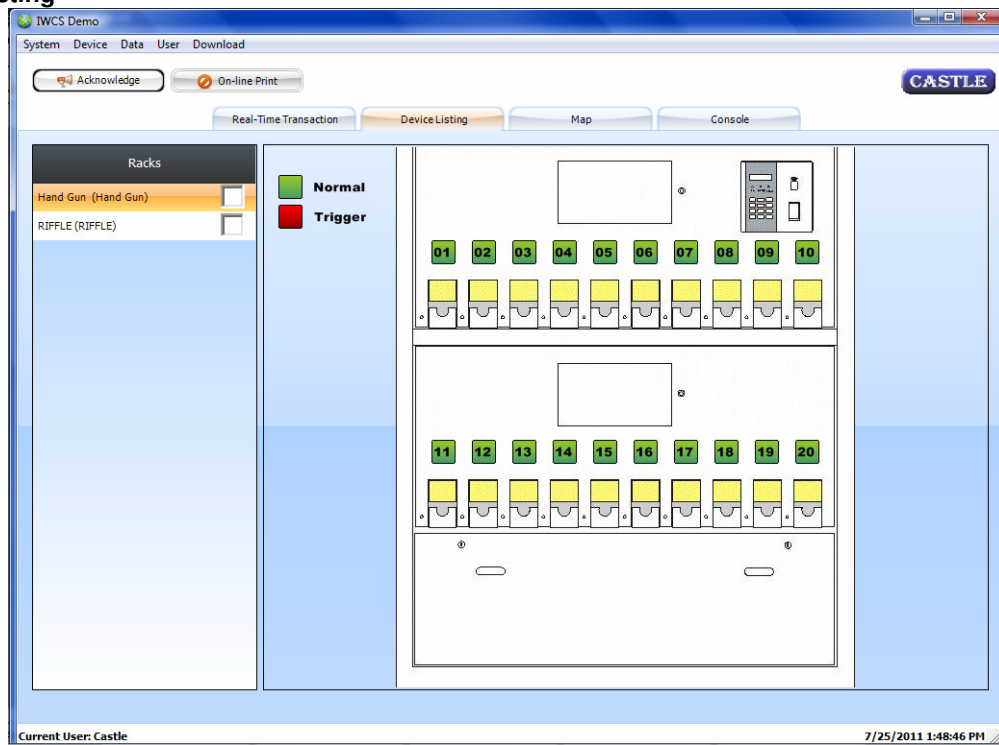


Figure 7.1

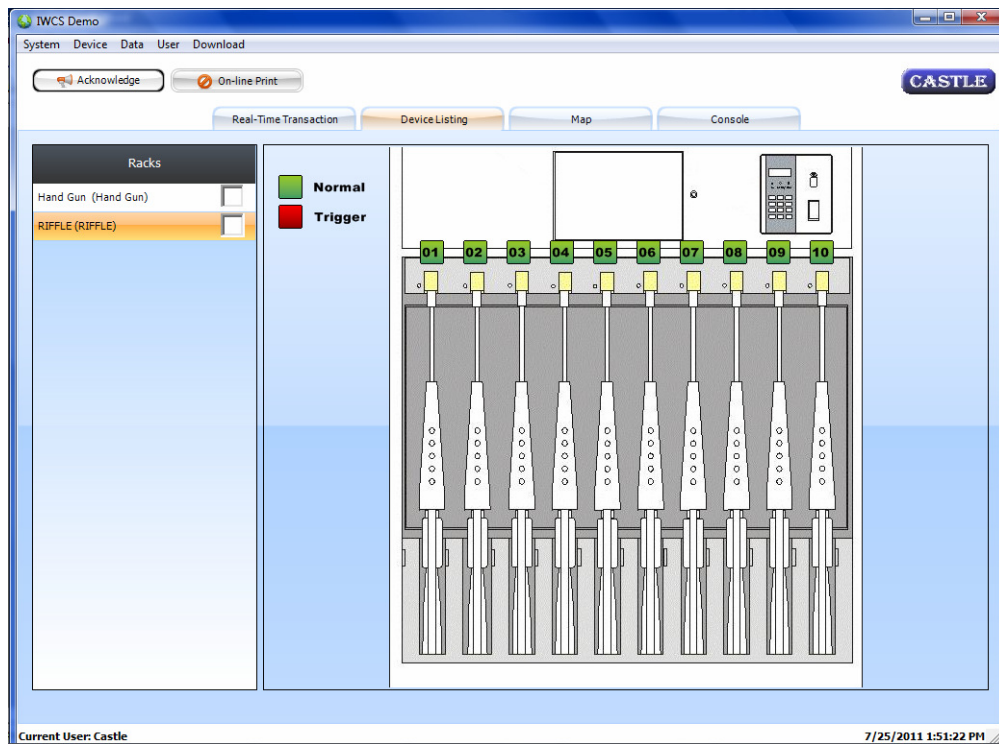
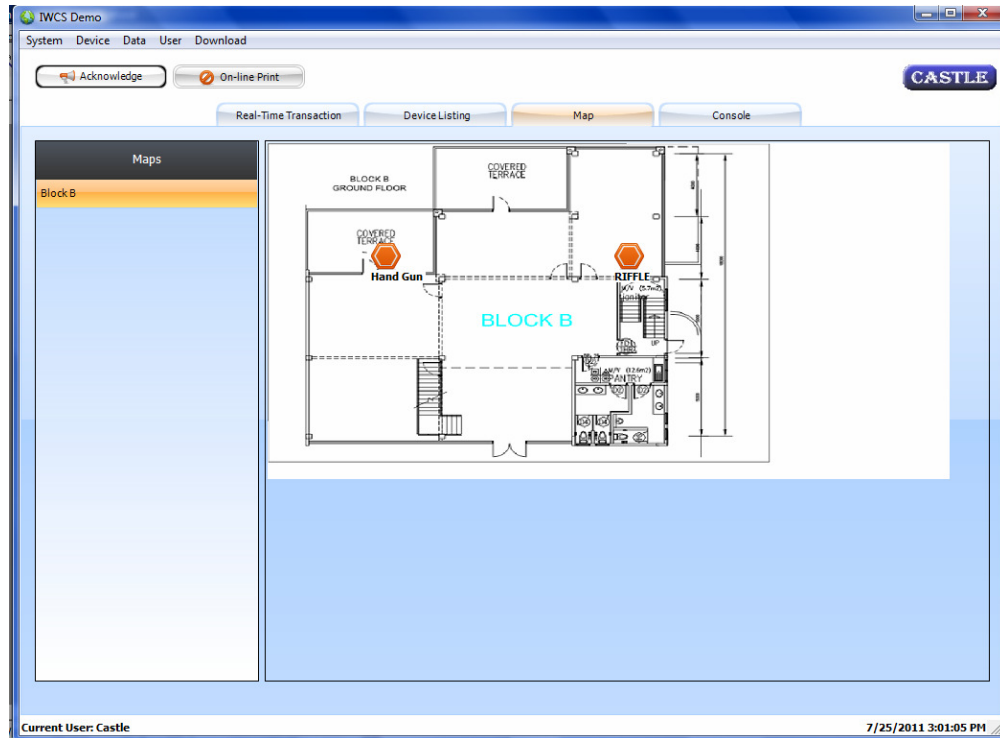


Figure 7.2

1. The Device Listing will show racks view. Need to highlight which racks name to view.

D) Map



E) Console

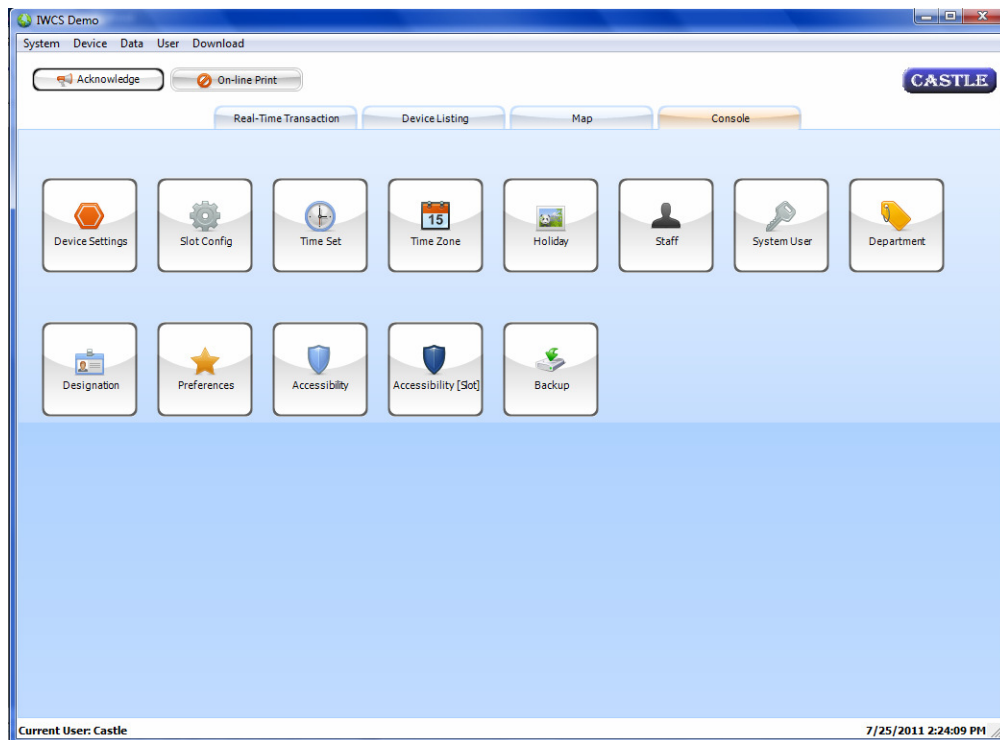


Figure 8.0

1. The Console is used as shortcuts for view data.

EMERGENCY RELEASE

A. Release All Weapons with Emergency Handle

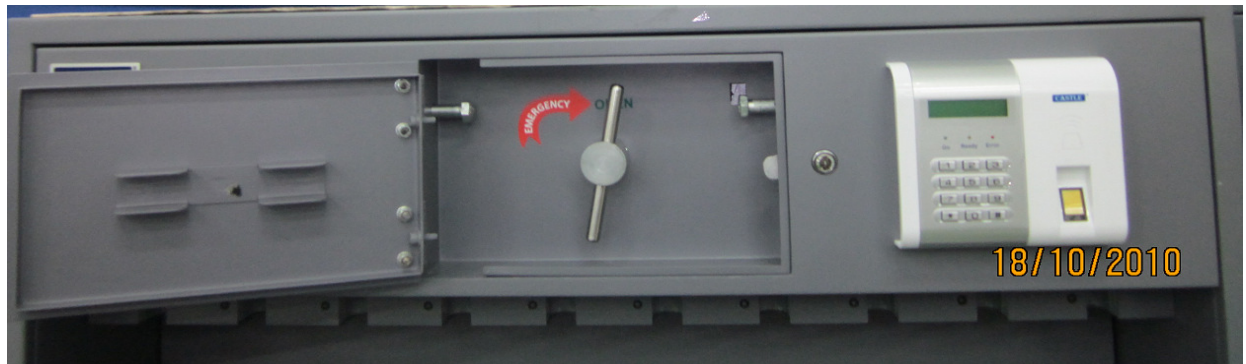


Figure 9.1 Turn Emergency handle anti clockwise to release all weapons at once

B. Secure All Weapons with Emergency Handle

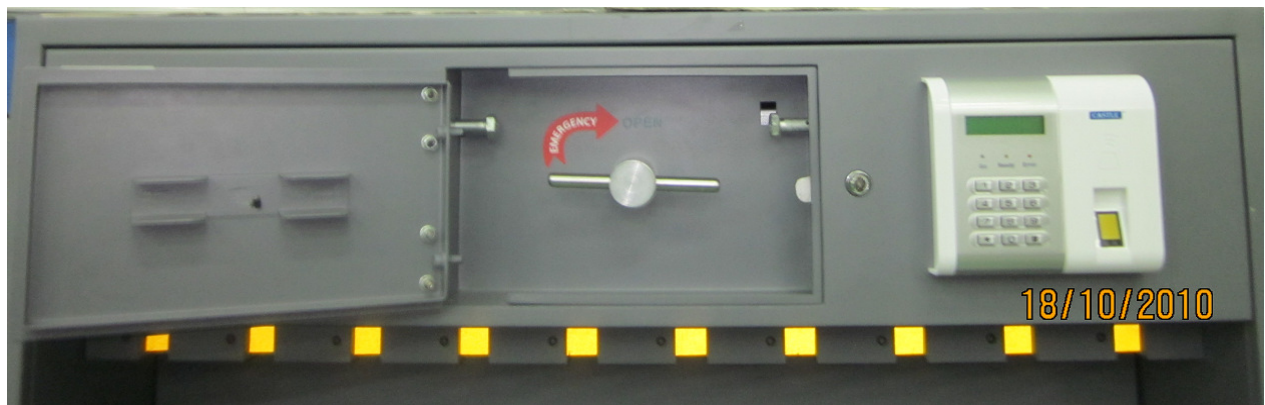


Figure 9.2 Turn Emergency Handle clockwise to secure all weapons at once

RECEIPT PRINTING (OPTIONAL)

For every 'Weapon Taken' and 'Weapon Return', authorized person can select 'Print Receipt' to print online receipt.

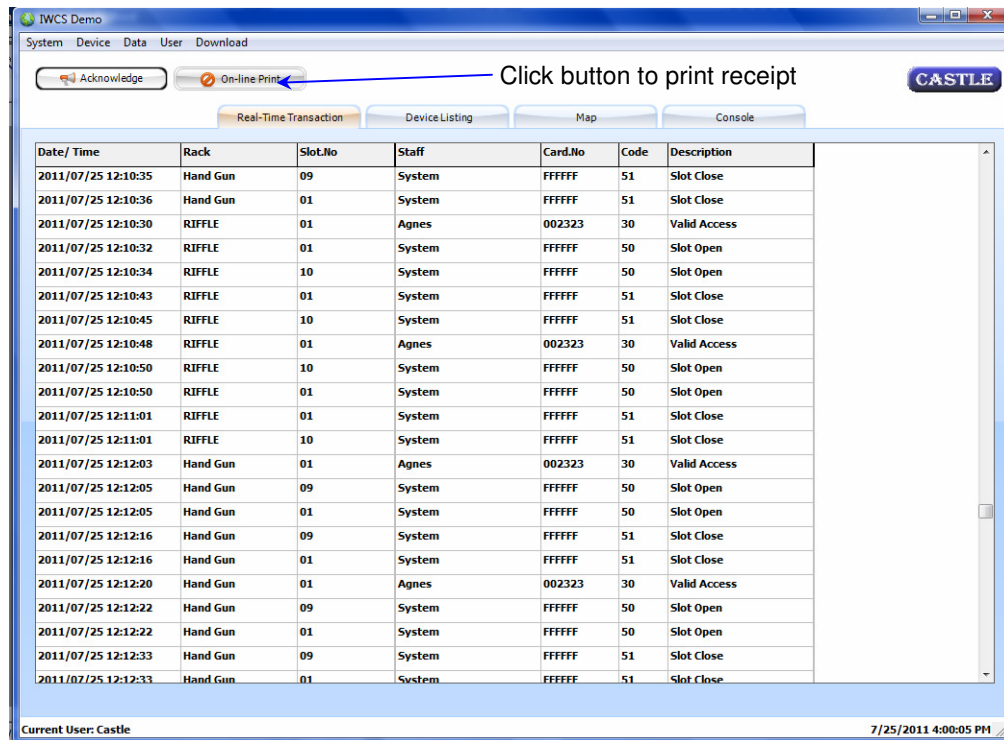


Figure 10.0 Receipt Printing Option

ONLINE PHOTO (OPTIONAL)

For every 'Valid Access', picture of authorized person will pop-ups as picture been loaded at User>User.

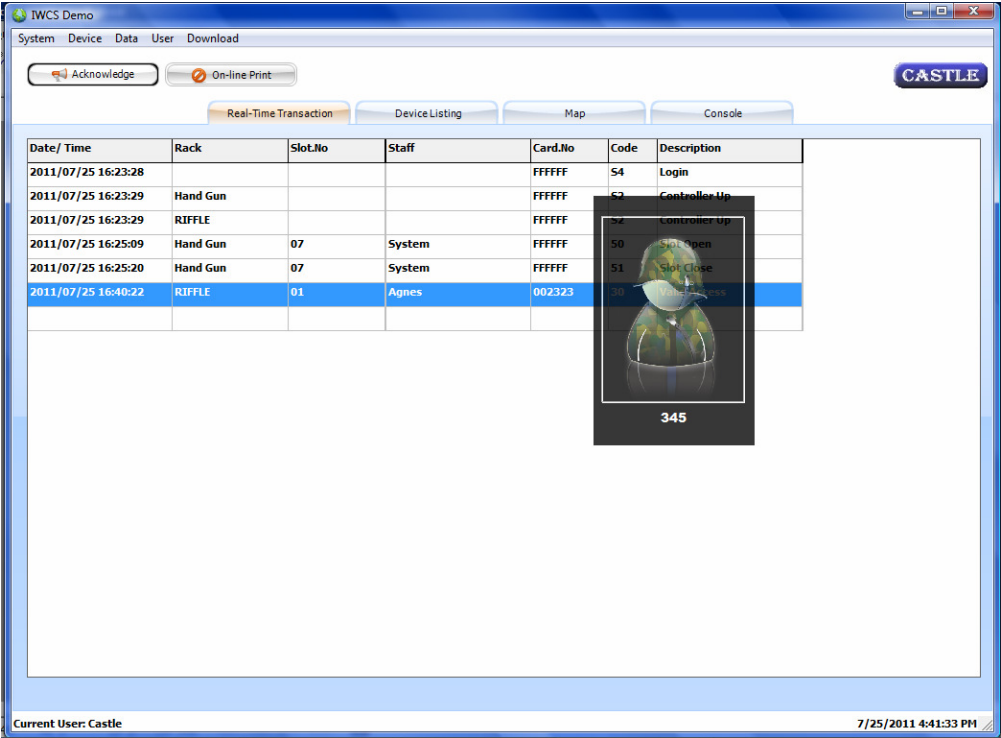


Figure 11.0 Online Photo Option

ALARM ACKNOWLEDGEMENT

During alarm event, 'Alarm' bar will be continuously blink and continuously beep until alarm is acknowledged.

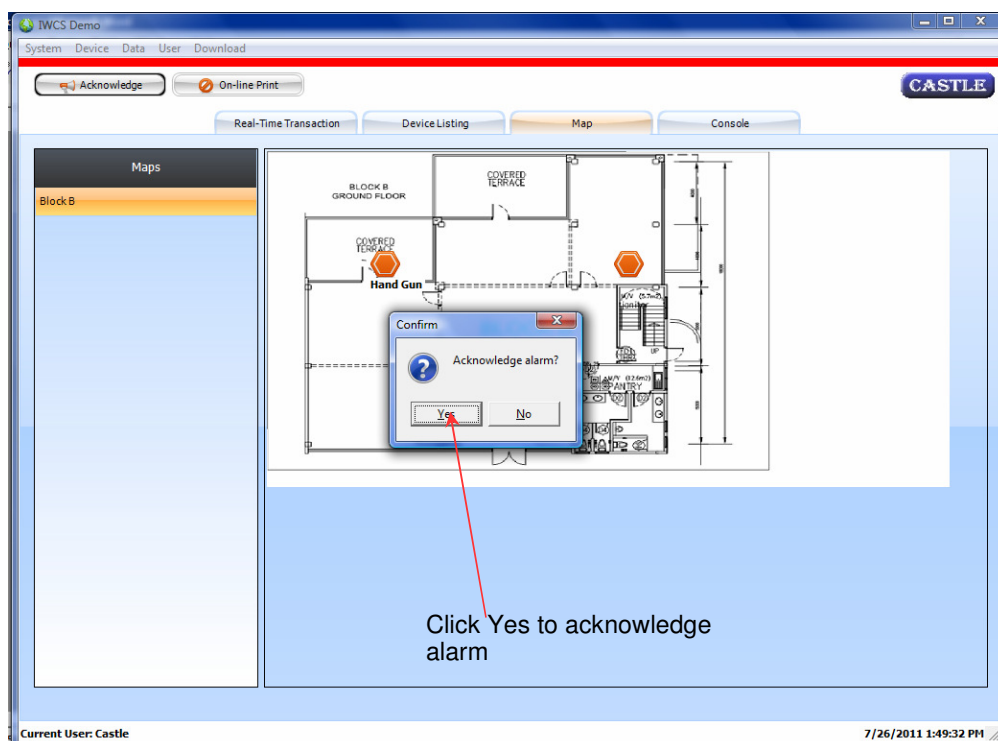
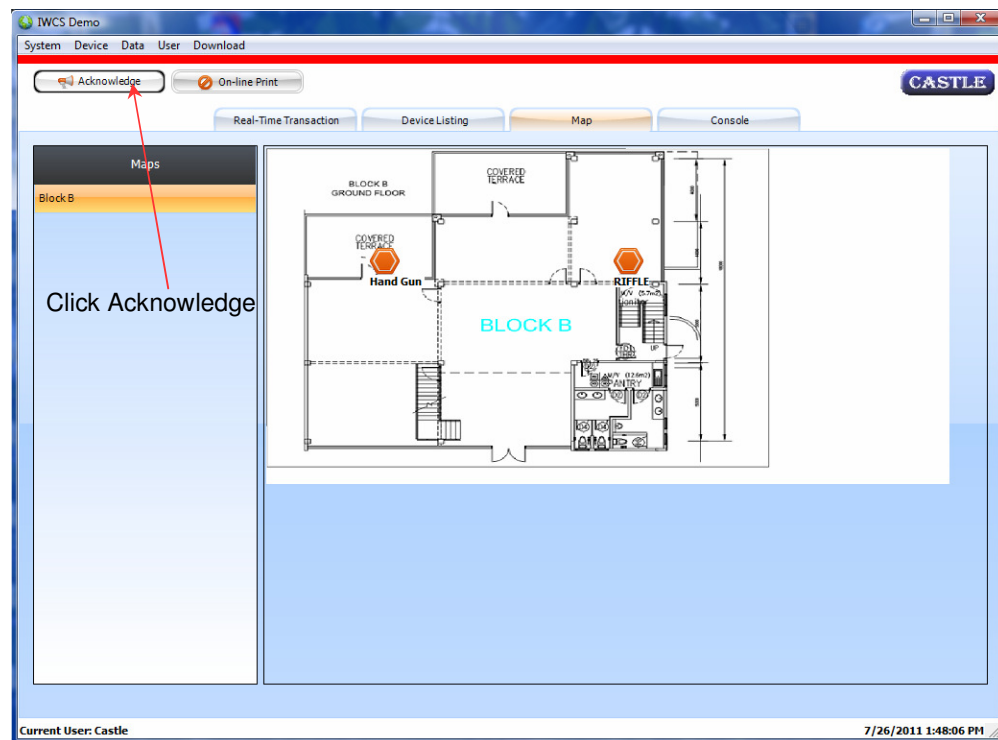


Figure 12.0 Alarm Acknowledgment Maps

Frequently Asked Question (FAQ)

1. Q: I would like to know if we can use proximity reader along with keypad only instead of fingerprint reader with proximity reader & PIN as you are providing fingerprint reader for both the rifle and handgun rack.
A: Yes you can but it is not recommended due to security reason as card can easily be used by other if stolen.
2. Q: There are two types of Tags mention in the specification i.e. World Tag and Logi Tag. Please clarify their function.
A: Both the function is to provide each weapon an ID for tracking purpose.
3. Q: How many weapon racks can be connected to one PC as far as server, PC and software specifications are concerned. For an example, if there are 100 rifles, do we require 10 weapon racks and 10 standalone PCs or 1 standalone PC can be used to configure 10 weapon racks?
A: You require only 1 standalone PC to configure 10,000 weapons.
4. Q: Do we require single server on which IWCS database software and IWCS monitoring software can be configured or do we require two different server for database and monitoring?
A: You require only single server for database and monitoring.
5. Q: How do we assure that our data is safe when IWCS is on LAN? Any kind of encryption techniques being used for data protection?
A: We provide the product with IP base and IP configuration will depend on your network system setting. The installation of firewall is strongly recommended for data protection.
6. Q: Is it mandatory to have PC for control center? What are the features and capabilities control center can do?
A: Yes it is strongly recommended for monitoring and record of weapon transaction, database management and it releases all weapon at one time during emergency.
7. Q: Please highlight on the warranty terms and its standard accessories. Can it be repaired our side the minor defect or do we need to send the whole system at your end?
A: Our standard warranty period is 12 month for the whole system and accessories as well. Minor defect can be done at your side without returning to us provided your resources is capable to handle after training.
8. Q: What is the outside IWCS made of and thickness?
A: The outside IWCS is made of steel with 2mm thickness.
9. Q: Is the system linked to a camera to video record people entering and existing the room?
A: System can be linked to a camera but it would then be a 3rd party recording system that should record the whole activities in the room.
10. Q: Does IWCS generate reports?
A: Yes IWCS generates reports. Receipt printing is an optional feature.
11. Q: Can the weapon rack operate independently even the PC software is not on?
A: Yes as all verification has been done by built-in controller and transaction are stored in this controller as well.
12. Q: Will the information be available locally at the rack after enrollment is done into the system?
A: The information will be kept in the reader itself after transfer all template enrollment to rack reader.
13. Q: Should the IWCS rack always need to be switched on when there is drawing of weapons?
A: Yes it should as all transaction works electronically.
14. Q: Will you be able to customize according to our requirement if we require customization whether hardware or software of the system?
A: Yes we will be able but we need to know the details of requirement to further advice if the requirement is applicable for the system.

Frequently Asked Question (FAQ)

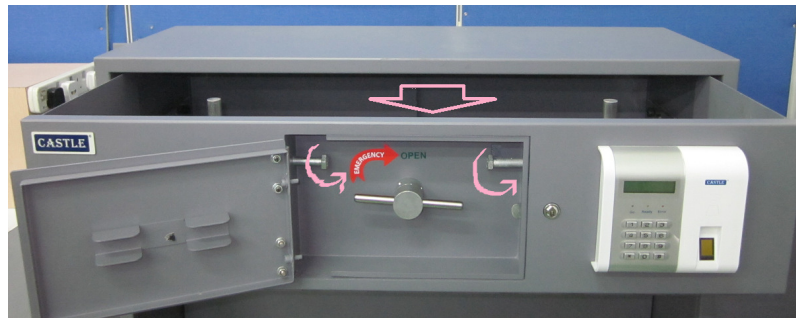
15. Q: Can the weapons be placed at different slots apart from their allocated slots?
A: No the weapon cannot be placed at different slots because they have different ID tags and shutter will not close.
16. Q: Can all weapons be taken to use at the same time during emergency?
A: Yes there is an emergency release mechanism to open all slots of the weapons.
17. Q: Is there any way to trigger the alarm in case of a hijack upon the weapon user?
A: Yes the threatened weapon user could activate duress alarm to acknowledge the system.
18. Q: Can it be tracked down in the event of weapon loss or stolen?
A: Yes it can be tracked down by the log transaction that has been saved in the software.
19. Q: Does the IWCS can be operated independently in case of power failure?
A: Yes it can be operated independently because it is backed up by rechargeable battery.
20. Q: Does the IWCS provide total solution to weapon loss and abuse?
A: Yes it does by employing electronically controlled weapon slots, fingerprint access and rigid mechanical construction which provides unquestionable safety and reliability.

MOTOR MAINTENANCE

To Release Maintenance Drawer



Step 1 Turn the key clockwise to release emergency door



Step 2 Unscrew 2 screws that are located at each side of emergency drawer first, then pull maintenance drawer with emergency handle to start maintenance

To Close Maintenance Drawer

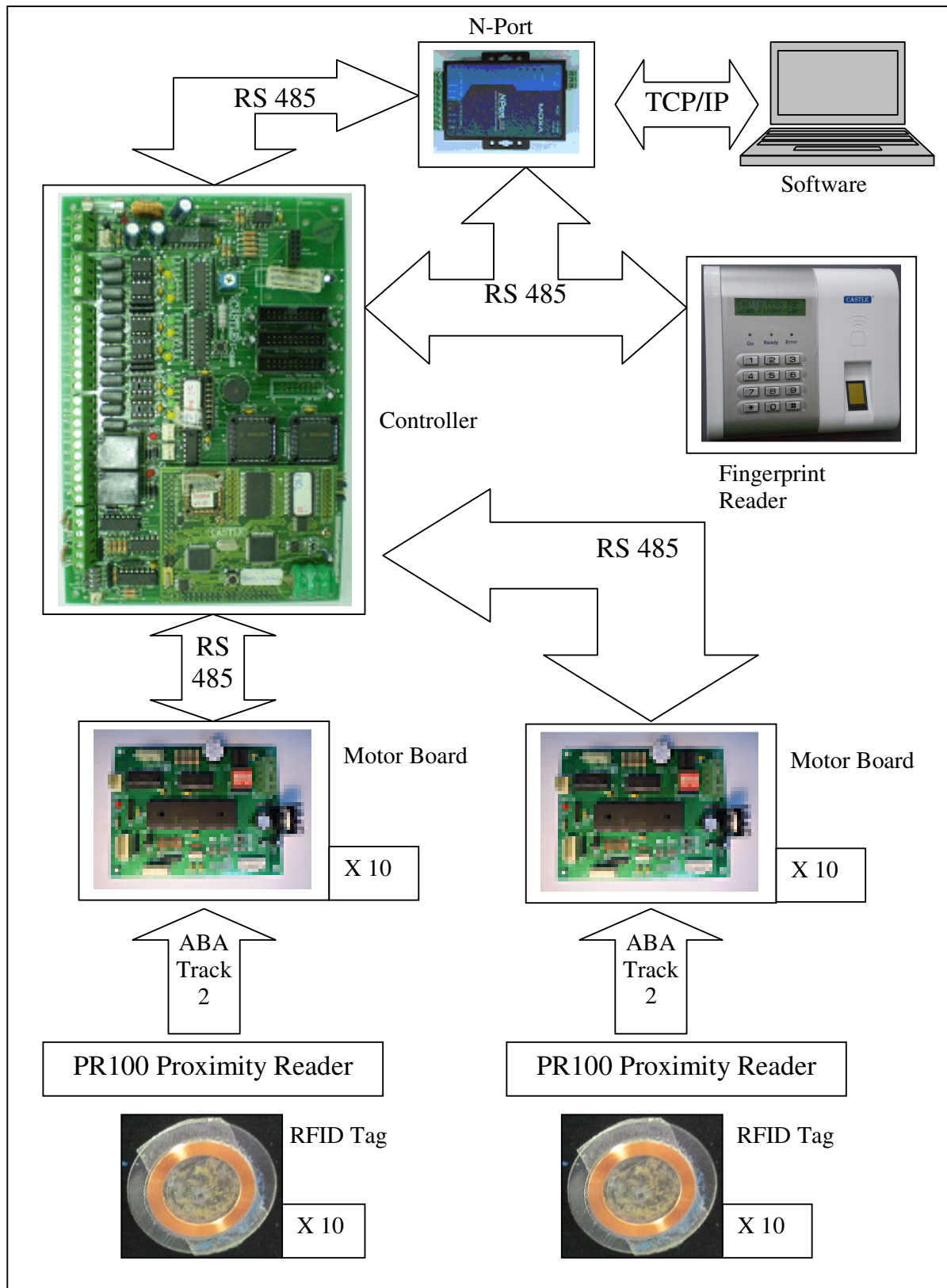


Step 1 Push maintenance drawer to original position. Then screw back the screws to its original position



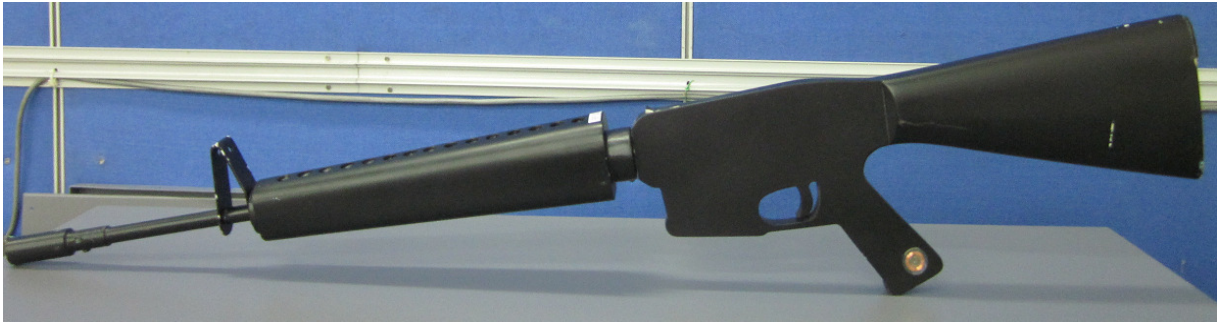
Step 2 Turn the key anti-clockwise to secure emergency door

WEAPON CONTROL BLOCK SIGNAL DIAGRAM



WEAPON TAG PLACEMENT

M16 mock up outlook



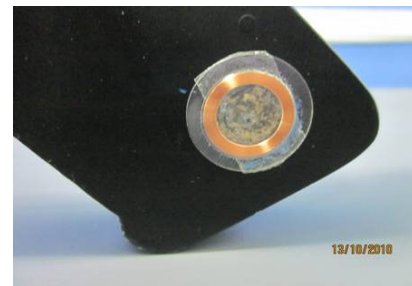
Tag should place at the bottom left side of handle with super glue to secure the position.

Close up of tag positioning

A)



B)



HandGun mock up outlook



SENSOR MAINTENANCE

In normal use, monthly cleaning of the sensor surface is recommended.

To clean the finger drive ring and the sensor surface, follow these steps:

1. Remove the electrical power from the fingerprint sensor by disconnecting it from its power source.
2. Use any type of household kitchen or window cleaner, such as Formula 409™, Fantastic™, Windex™, or any generic versions of these cleaners.



DO NOT use chlorine-based cleaners, such as Clorox™ bleach, non-chlorine bleach, or chlorine-based bathroom or mildew cleaners. Chlorine based cleaners will not necessarily affect the functionality of the finger print sensor, but they will discolor the finger drive ring and could damage the surrounding circuitry around the fingerprint sensor.



DO NOT use any solvents, such as acetone, MEK, TCE, paint thinner, turpentine, etc. Solvents will not adversely affect the sensor, but they might damage the surrounding enclosure and peripheral components to the sensor.

3. Wet one end of a cotton swab (not soaking or dripping wet) with one of the above mentioned cleaners. Gently rub the sensor surface and finger drive ring with the wet cotton swab, slowly rotating the swab so a new, clean surface of the swab is constantly exposed to the sensor surface. Do not allow cleaner to drip or run down into the electronics around the sensor.
4. After cleaning with the wet swab, gently rub the surfaces again with a dry cotton swab. Use a clean swab each time the sensor is cleaned. (If a dirty swab is used, it may make the sensor dirty again.)