Hytera PD41X Patrol System

Hytera

Respond & Achieve

Content

Hytera PD41X Patrol System

Challenges in Guard Tour System

For guard tour kit:

- Inconvenient

- Extra cost

- Low efficiency

- Only support offline data transmission

For analogue radio:

- Low voice quality

- High interference

- Short working time

- Limited channel resources

- Few functions

With the concerns from customers about their existing guard tour system, we have prepared **Hytera Patrol System Solution.**

What can Hytera Patrol System change? Hytera

Existing Guard Tour System

Data Gathered	Delete One	Delete All	Print Out	Export to Excel	Back
Gaurd Tour Kit Id: 2283		Location ID	Location	Installed Position	
New Location ID: 0000CDA13D00		0000/F8E3D00	Front Gate	Main Gate	
		000048/E3D00	Office	2nd Floor Office	
		0000A6C23D00	Factory	Manufactory	
		0000BC3D3D00	Parklot	Basement Parklot	
▶		0000CDA13D00	Back Gate	Back Gate	

Data gathering

⬇

- Provide convenient operation
- Avoid patrol data delay
- Prevent human errors

Data uploading

⬇

- Reduce cost
- Promote efficiency
- Simple to manage and maintain

Data reporting

⬇

- Emergent case handled in time
- Massive data applications

Hytera Patrol System

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Hytera PD41X Patrol System

Hytera PD41X Patrol System Overview

Patrol System Software

Patroller ID Card

Data transmission

PD41X with RFID

Guard tour

or

Receiving Station
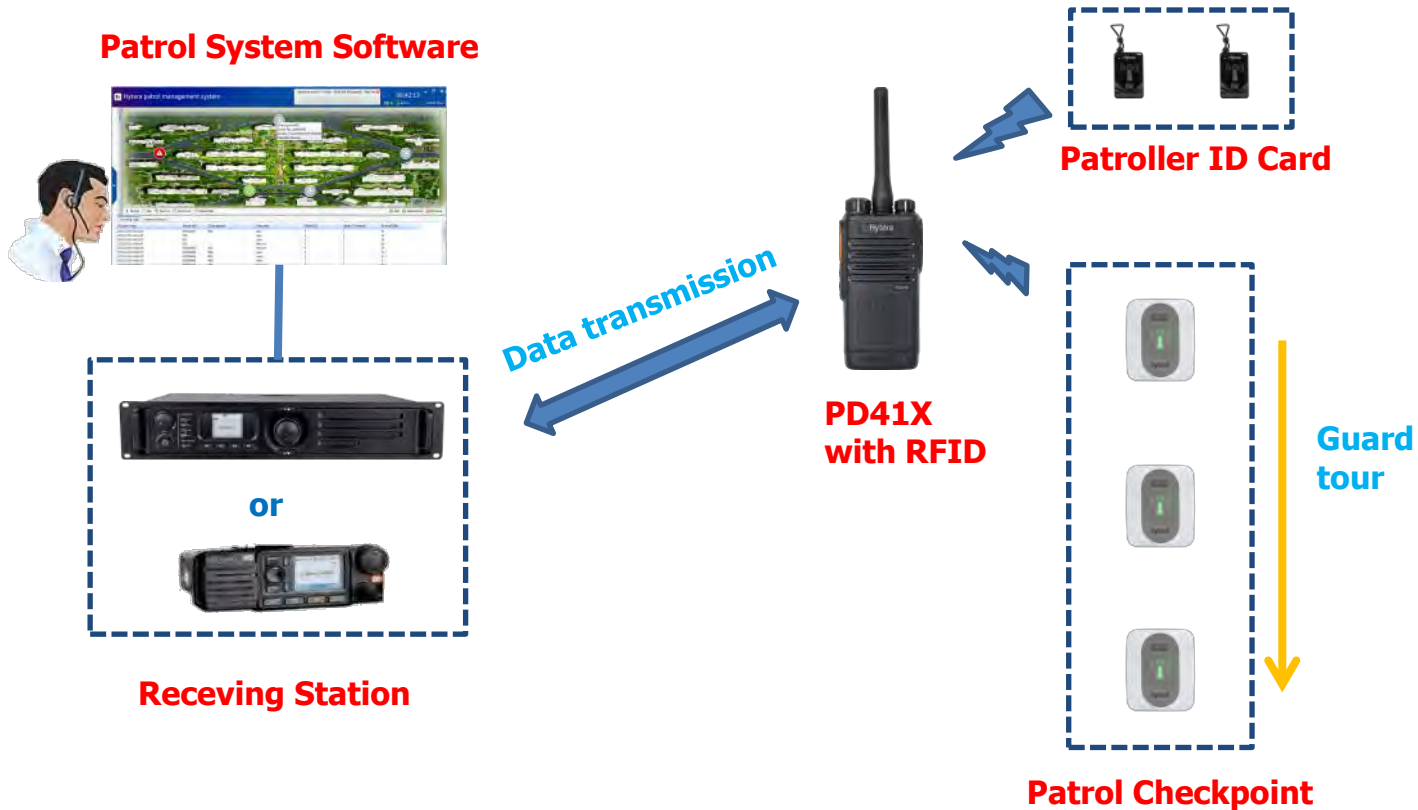
Patrol Checkpoint

Patrol Checkpoint: A RFID tag, standing for guard tour location.Its information can be read by RFID reader.
Patroller ID Card: A RFID tag, standing for patroller ID. Its information can be read by RFID reader.
Receiving Station: A repeater (RD62X/RD96X/RD98X/RD98XS) or a mobile radio (only MD78X) can work as a patrol data receiving station.
PD41X Radio: With embedded RFID reader, it can read the RFID tag and send the information to a receiving station automatically.

Hytera PD41X Patrol System Overview

Patrol devices

	Item	Power Supply	Working Temperature	Frequency	Valid Distance
	Patroller ID Card	No extra power supply	-22~55℃	13.56~14.2Mhz	3cm
	Patrol Checkpoint	No extra power supply	-40~85 ℃	13.56~14.2Mhz	4 cm

PD41X Patrol Radio		
	UHF: 400-470Mhz	4W(High); 1W(Low)
	VHF: 136-174Mhz	5W(High); 1W(Low)
	16 Hours (1500mAh); 22 Hours (2000mAh)	
	U.S.A Military Standard & IP54	
	Analog & Digital auto detect	
	Embedded RFID (Open API)	
	Up to 250 pieces of offline data could be stored	

Content

Hytera PD41X Patrol System

Patrol System Features

- **Patrol monitor**

Support visualized interface and real-time monitor.

- **Patrol alarm**

On touch alarm can be triggered by radio and displayed on computer monitor.

- **Basic data management**

Patroller ID and checkpoint ID can be easily managed.

- **Patrol plan (Expert mode)**

Establish strict plan to carry out a better guard tour work.

- **Patrol data management**

Query and statistics;
Report export;
Offline data upload;
Patrol data backup.
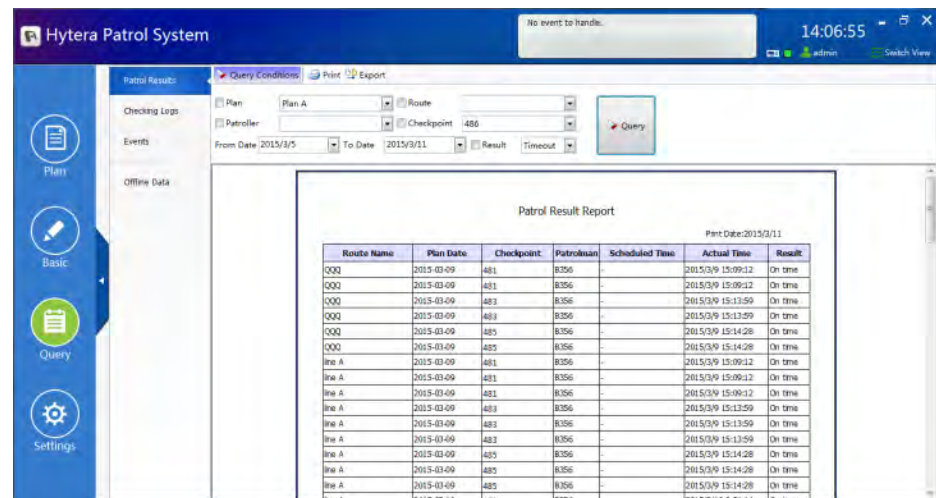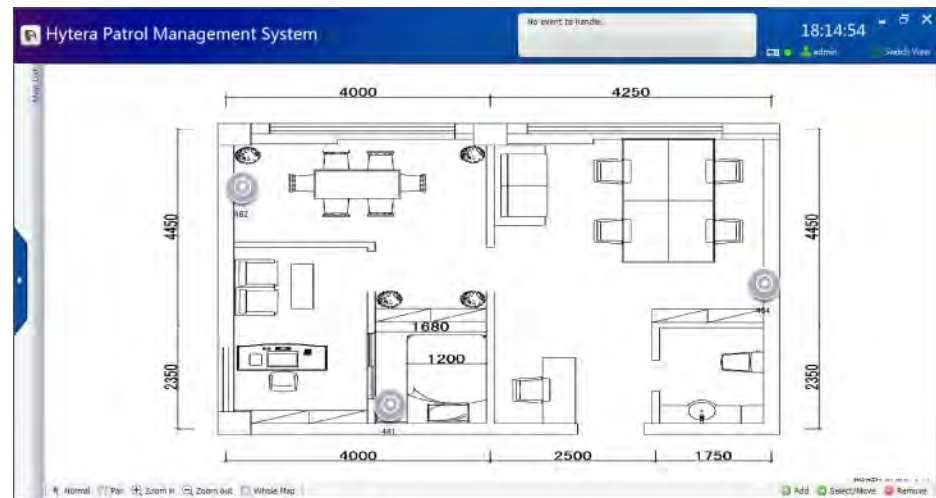
Patrol System Features
--Patrol Monitor

Visualized interface
- Support customized map imported and checkpoint added.
- Support latest checking and patol alarm display in different color.

Real-time monitor
- Checking logs and patrol results will be updated in real time.
- The radio channel is diplayed on the screen allowing an operator to get in touch with patrollers in time.

Real-time checking logs

Real time alarm report
• Alarm is displayed in window on the top and user could click to handle the alarm.

Alarm notice
• The latest checkpoint before alarm is marked with alarm sign and the software play alarm tone.

Event Logs
• Every result of handling is recorded in the event logs.

Event logs

Patrol System Features
--Basic Data Management

Patroller Management
• The system allows the administrator to add/delete the information of patroller, including name, phone number and working unit.

Patrol checkpoint Management
• The system allows the administrator to add/delete the information of patrol checkpoint, including checkpoint name and description.

Patrol System Features
--Easy Mode & Expert Mode

Expert Mode
- Complicated but with more functions, including patrol route management, patrol plan management and offline data upload. Notice: The patroller ID card is an essential accessory for expert mode;

Easy Mode
- Maintain basic functions for patrol monitor, data query **and export. It's recommended** for general users. Notice: The patroller ID card is not an essential accessory for easy mode.
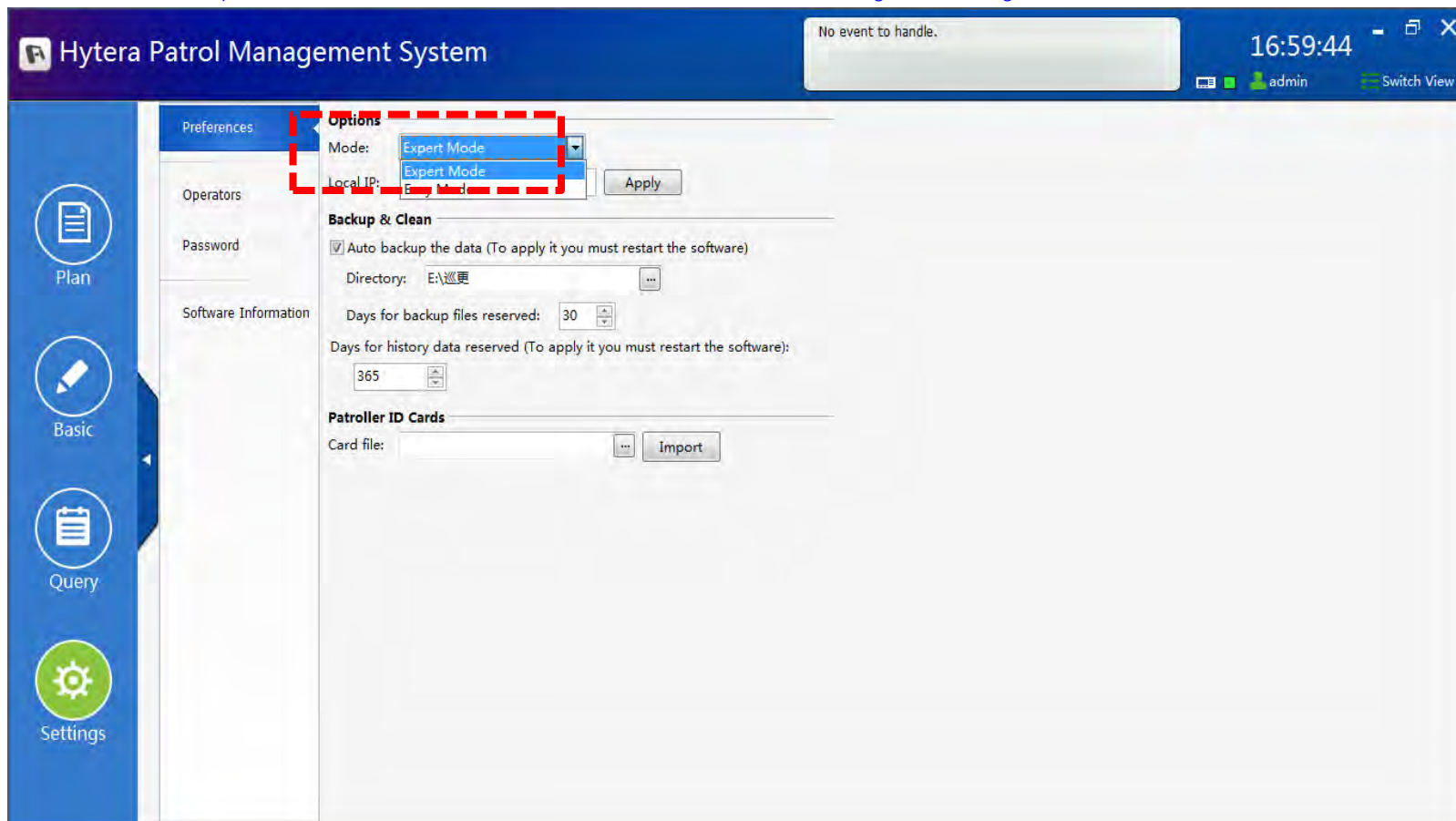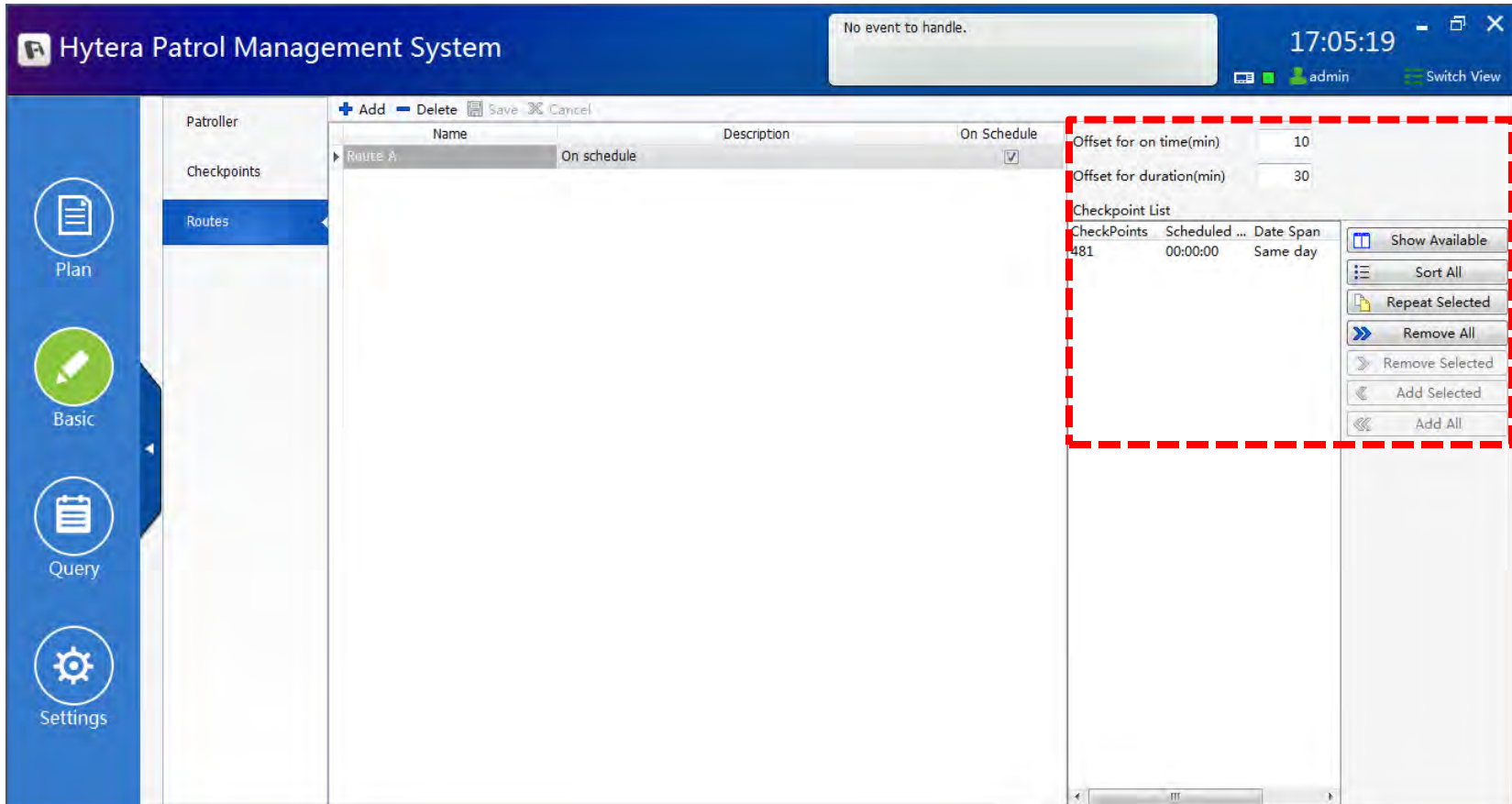
Patrol System Features
--Patrol Route(Expert mode only)

Patrol Route Management

• The system allows the adminstrator to add/edit the patrol route through choosing the checkpoint entered in the system and setting whether it follows a certain schedule.

Route setting

Patrol System Features
--Patrol Plan (Expert mode only)

Patrol Plan Management
- The system allows the administrator to add/edit the patrol plan through setting patrol route, patroller and the time period of the plan.

Plan setting

Patrol System Features
--Query and Statistics

Query and Statistics
- The user could query patrol data in the checking logs or event logs applying different query conditions.

Query conditions

Patrol System Features
--Report Export

Print Report
- The report could be printed into paper or PDF files.

Export Report
- Export report into Excel files for further analysis.

Report export

Patrol System Features
--Offline Data Upload (Expert mode only)

Offline Data Upload
- The PD41X radio has each patrol data stored inside. (Up to 250 pieces)
- Offline data could be uploaded to patrol system client by programming cable.

Offline data import

Data Backup
The system could automatically store all the patrol data into a external file as the data backup.
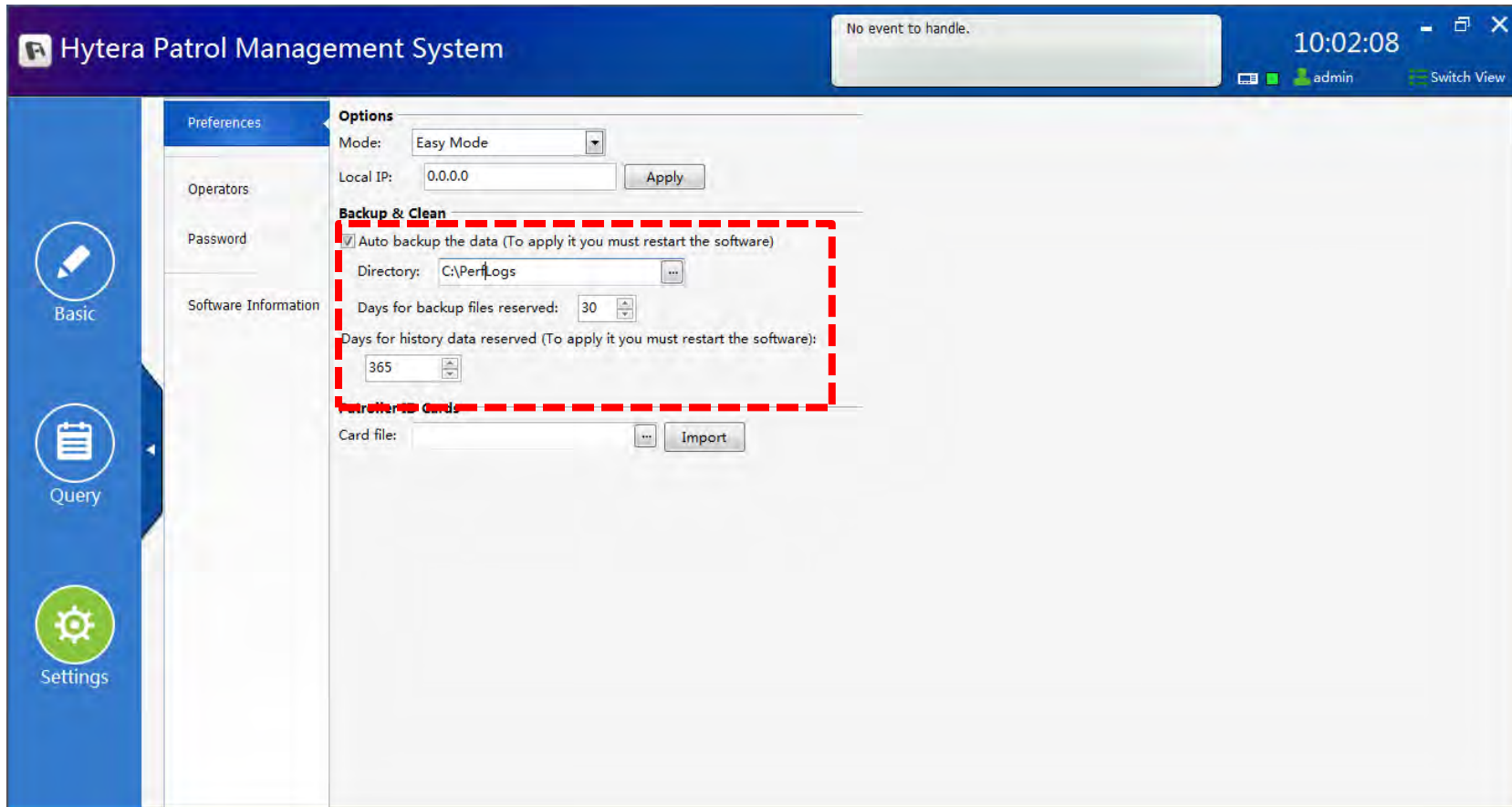
Hytera PD41X Patrol System

> Part 1 : Challenges in Guard Tour System

> Part 2 : Patrol System Overview

> Part 3 : Patrol System Features

> **Part 4 : Data Transmission Process**

> Part 5 : Patrol System Solutions

Real-time transmission

Beep!!!

System time received

Patrol System Information

Information received

Click Here

Patroller ID has been successfully checked

Now, Let's try a patrol checkpoint…

Real-time transmission

Beep!!!

System time received

Patrol Checkpoint
Information
System Time

Patrol checkpoint has been successfully checked.

Information received

Real-time Alarm

Alarm Information

Real-time event——Time: 14:15:28 Checkpoint: 481 Patr
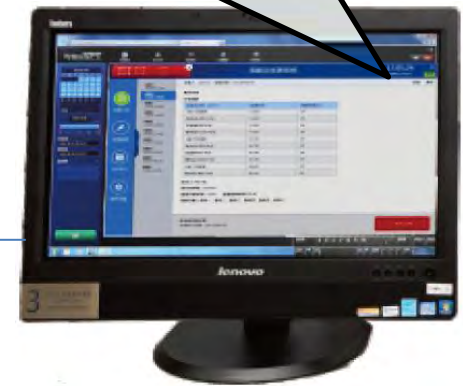
Information Received

Patrol data resend

Press a button which is preprogrammed as
Patrol data resend function.

Resend the last
Send information Patrol data stored.

Move to the open area
Where there is better
signal.

Dow!!!

Offline Data Upload

Sending Information

Dow!!!

Offline data is in red

Offline data
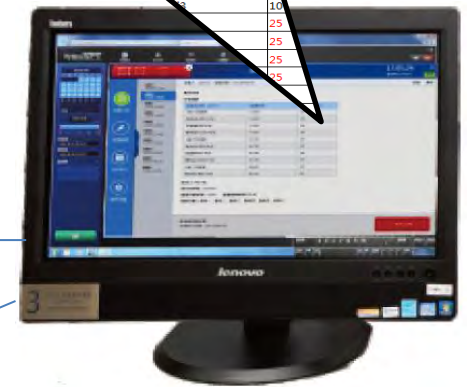
Offline data Received

Connect to the computer and send Offline data.

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Hytera PD41X Patrol System

> Part 1 : Challenges in Guard Tour System

> Part 2 : Patrol System Overview

> Part 3 : Patrol System Features

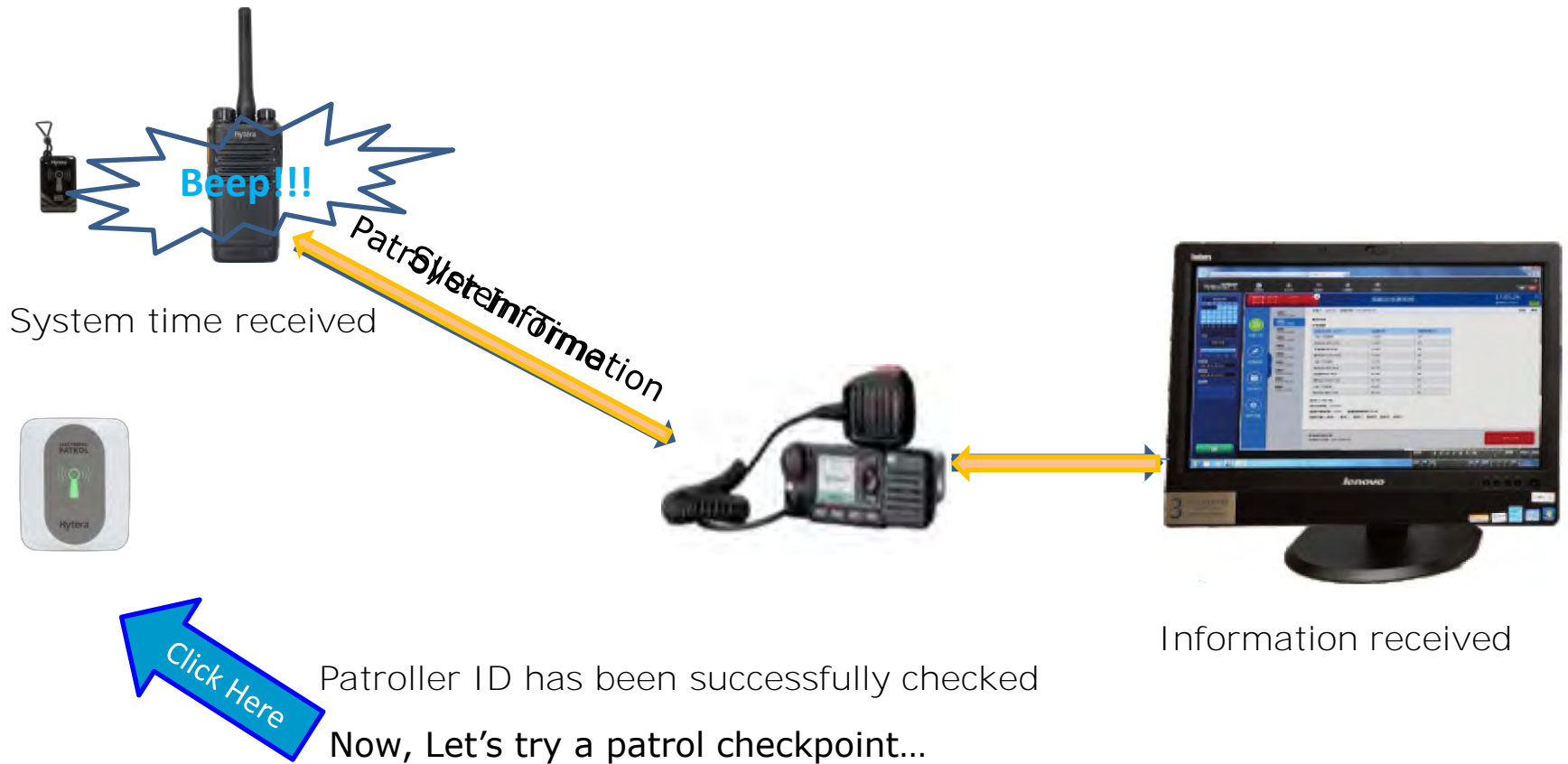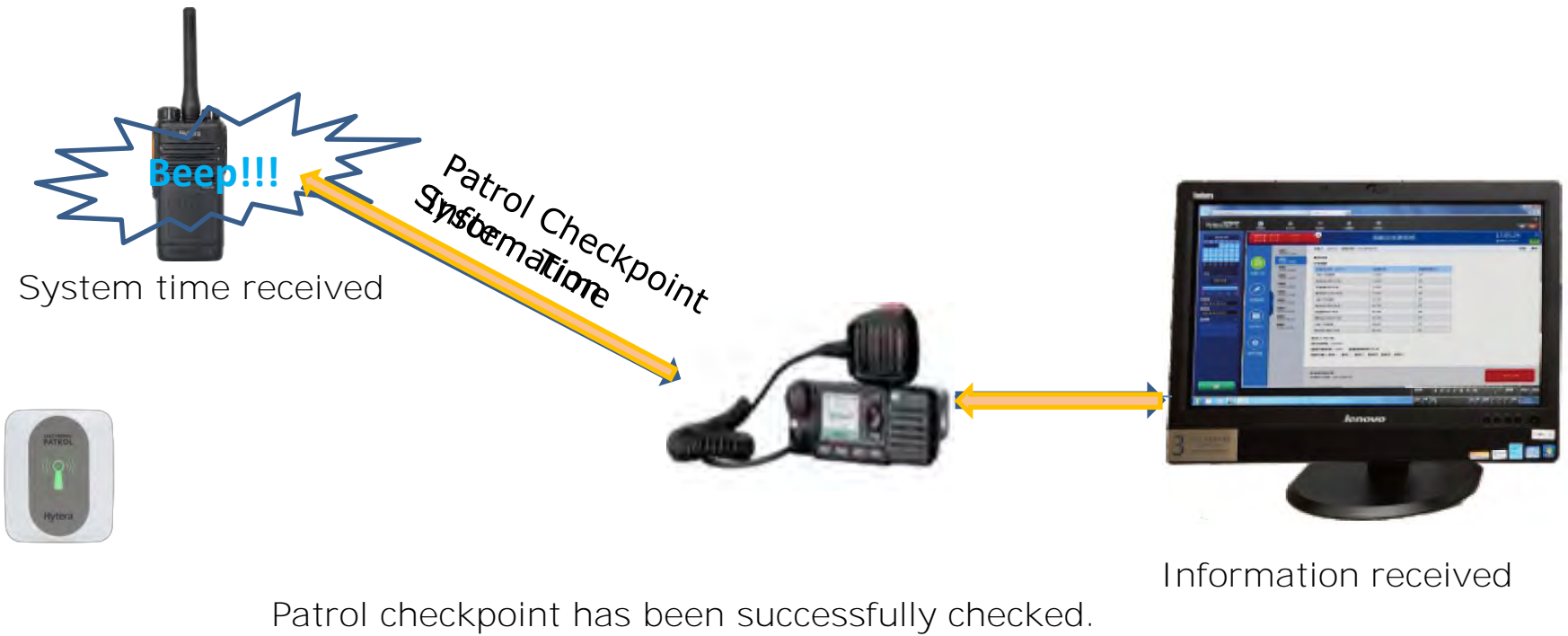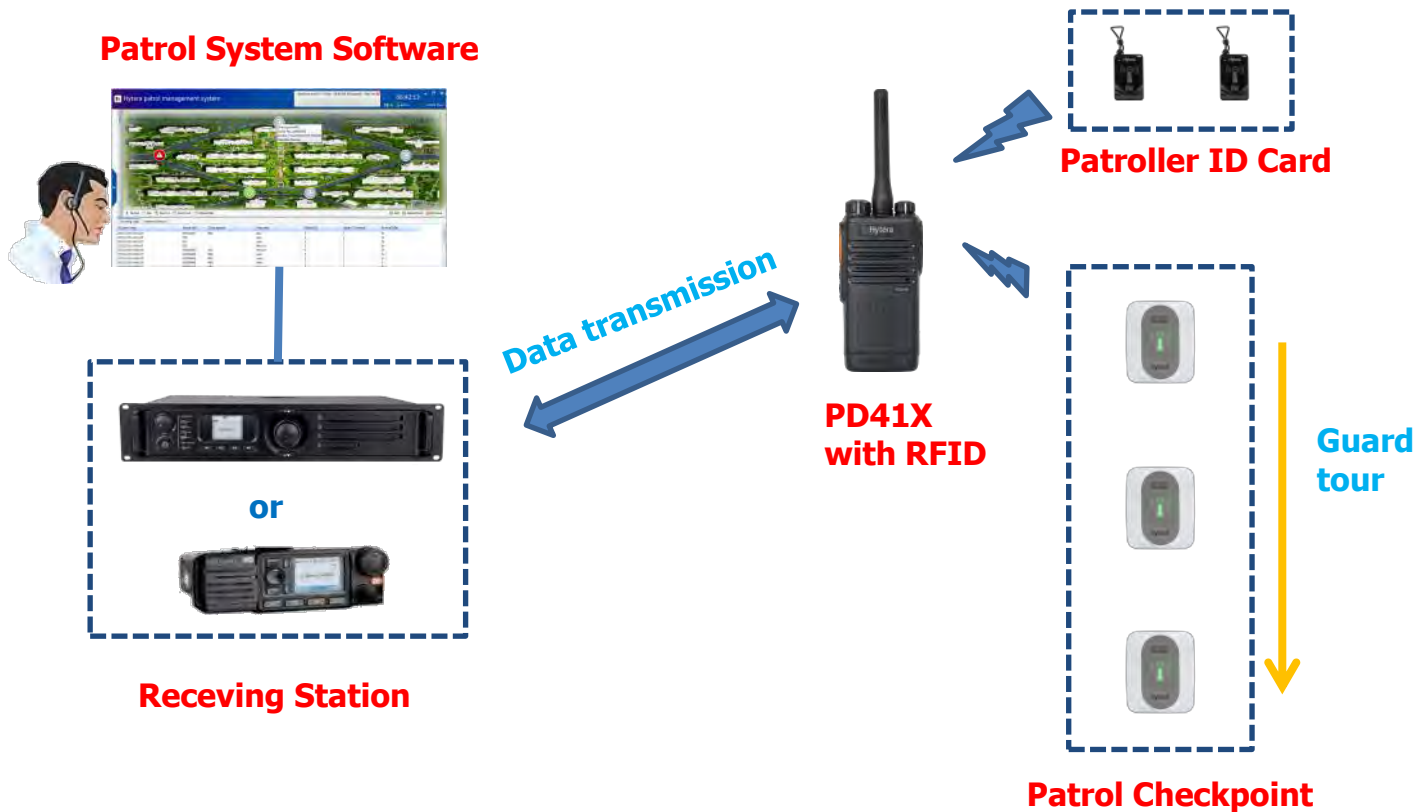> Part 4 : Data Transmission Process

> **Part 5 : Patrol System Solutions**

Hytera PD41X Patrol System Solutions --single site

Patrol System Software

Patroller ID Card

Data transmission

PD41X with RFID

Guard tour

or

Receiving Station

Patrol Checkpoint

Single site solution
- *Easy to deploy. Only one repeater or one mobile radio can work as a receiving station.*
- *A repeater can provide two channels for patrol data transmission or voice call.*
- *A mobile radio can only provide one channel for patrol data transmission.*

Hytera PD41X Patrol System Solutions --Multi-site

Patrol System Software

Receiving Station

Site A

LAN / WAN IP network

Receiving Station

Site B

Receiving Station
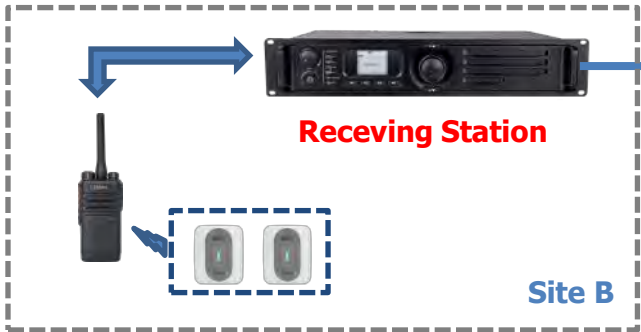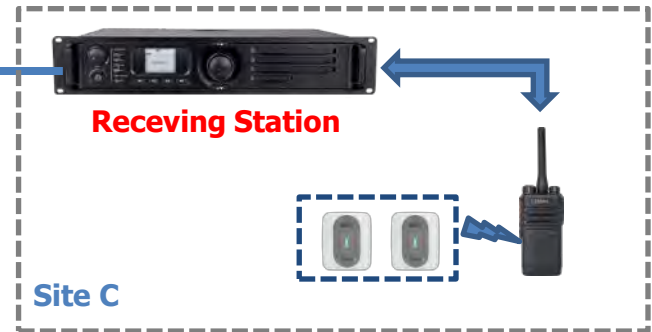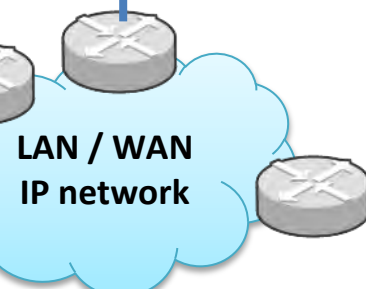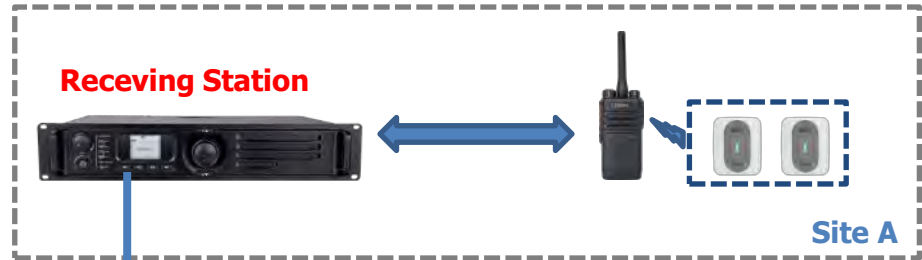
Site C

Multi-site solution

- *With IP connection structure, guard tour in different site comes true.*

Application Scenarios

Retail

Residential & Commercial property

Factory

Bank

Warehouse

Hotel

Hytera Patrol System is suitable for more scenarios...

Q & A

Thanks!

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