

# Type Approval User Guide for RTX9440

*Quick start guide Installation & Configuration* 

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### 1 About This Document

This document describes the installation and configuration of the Cisco VoIP System (RTX9440 base, RTX864x or RTX8440 handset).

#### 1.1 Important Assumptions

This document was written with the following assumptions in mind:

- 1) You understand network deployment in general
- 2) You have working knowledge of basic TCP/IP/SIP protocols, Network Address Translation, etc...
- 3) A proper site survey has been performed, and the administrator have access to these plans

#### 1.2 Abbreviations

For this document, the following abbreviations hold:

DHCP:	Dynamic Host Configuration Protocol
DNS:	Domain Name Server
HTTP(S):	Hyper Text Transfer Protocol (Secure)
(T)FTP:	(Trivial) File Transfer Protocol
IOS:	Internetworking Operating System
PCMA:	A-law Pulse Code Modulation
PCMU:	mu-law Pulse Code Modulation
PoE:	Power over Ethernet
RTP:	Real-time Transport Protocol
RPORT:	Response Port (Refer to RFC3581 for details)
SIP:	Session Initiation Protocol
SME:	Small and Medium scale Enterprise
VLAN:	Virtual Local Access Network
TOS:	Type of Service (policy based routing)
URL:	Uniform Resource Locator
UA:	User Agent

#### 1.3 Document History

REVISION	AUTHOR	ISSUE DATE	COMMENTS
0.1	ОНО	08-Jan-2019	First Draft
1.0	ОНО	14-05-2019	Updated after review w CAP
1.1	ОНО	03-06-2019	Update regarding mounting height
1.2	TWL	6-Nov-2019	Update the FCC warning message
1.3	TWL	7-Nov-2019	Update the ISEDC warning message

#### 1.4 Documentation Feedback

We always strive to produce the best and we also value your comments and suggestions about our documentation. If you have any comments about this guide, please enter them through the Feedback link on the RTX website. We will use your feedback to improve the documentation.



# 2 Introduction – System Overview

In a typical telephony system, the network setup is the interconnection between Base-stations, "NAT" routers, repeaters, portable parts, etc. The back-bone of the network depends on the deployment scenario, but a ring or hub topology is used. The network has centralized monitoring, and maintenance system.

In the RTX9440 based system there is only one base station in the network. Up to 30 handsets (RTX864x or RTX8440 handset) can be registered on the base station. The system can be extended with up to 6 of the supported IP DECT CAT-IQ repeaters RTX4026. System setup is illustrated below.

Based on PoE interface the base station is easy to install without additional wires other than the LAN cable for power.

The following figure gives a graphical overview of the architecture of the SME VoIP single cell System:



#### 2.1 Hardware Setup

SME network hardware setup can be deployed as follows:

The RTX9440 base-station is connected via Layer 3 and/or VLAN Aware Router depending on the deployment requirements. The Layer 3 router implements the switching function.

The base-station should be mounted on a wall in a height less than 2 meters. Radio coverage can be extended using repeaters that are separated from each other by up to 50m indoor<sup>1</sup> (300m outdoor). Repeaters are range extenders and cannot be used to solve local call capacity issues.

The base-station antenna mechanism is based on space diversity feature which improves coverage. The base-station uses complete DECT MAC protocol layer and IP media stream audio encoding feature to provide up to 10 simultaneous calls.

#### 2.2 Components of SME VoIP System

RTX SME VoIP system consists of (but not limited to) the following components:

<sup>&</sup>lt;sup>1</sup> Measured with European DECT radio and depends on local building layout and material RTX9440 TYPE APPROVAL USER GUIDE 1.3 Proprietary and Confidential



- At least one RTX Base Station is connected over an IP network and using DECT as air-core interface. (The RTX9440 is a single cell base station, so in a setup with the RTX9440 base station only one base station is connected to the IP network).
- RTX IP DECT wireless Handset.
- RTX SME VoIP Configuration Interface; is a management interface for SME VoIP Wireless Solution. It runs on all IP DECT Base stations. Each Base station has its own unique settings.

#### 2.2.1 RTX Base Stations

The Base Station converts IP protocol to DECT protocol and transmits the traffic to and from the end-nodes (i.e. wireless handsets) over a channel. It has 12 available channels.

#### 2.2.2 SME VoIP Administration Server/Software

This server is referred to as SME VoIP Configuration Interface.

The SME VoIP Configuration Interface is a web based administration page used for configuration and programming of the base station and relevant network end-nodes. E.g. handsets can be registered or de-registered from the system using this interface.

The configuration interface can be used as a setup tool for software or firmware download to base stations, repeaters and handsets. Further, it is used to check relevant system logs that can be useful to administrator. These logs can be used to troubleshoot the system when the system faces unforeseen operational issues.

#### 2.2.3 RTX Wireless Handset

The handset is a lightweight, ergonomically, and portable unit compatible with Wideband Audio (G.722), DECT, GAP standard, CAT-iq audio compliant.

The handset includes color display with graphical user interface. It can also provide the subscriber with most of the features available for a wired phone, in addition to its roaming and handover capabilities. Refer to the relevant handset manuals for full details handset features.

#### 2.3 Wireless Bands

The bands supported in the SME VoIP are summarized as follows: Frequency bands: 1880 – 1930 MHz (DECT) 1880 – 1900 MHz (10 carriers) Europe/ETSI 1910 – 1930 MHz (10 carriers) LATAM 1920 – 1930 MHz (5 carriers) US

Transmit Power: 23.7 dBm in Europe mode.

#### 2.4 System Capacity (in Summary)

SME network capacity of relevant components can be summarized as follows:

DESCRIPTION	CAPACITY
Min ## of Bases Single Cell Setup	1
Max ## of Bases in Multi-cell Setup (configurable)	NA – RTX9440 is a single cell system
Single/Multi Cell Setup: Max ## of Repeaters	1 base and up to 6 repeaters RTX9440 is a single cell system, so no multicell setup available.



NA – RTX9440 is a single cell system
30
limited to 30
NA – RTX9440 is a single cell system
10 per Base station
NA – RTX9440 is a single cell system
NA – RTX9440 is a single cell system
5
2

Quick Definitions Single Cell Setup: Multi-cell Setup: Synchronization Level:

SME telephony network composed of one base station Telephony network that consists of more than one base station Is the air core interface between two base stations.

#### 2.5 Advantages of SME VoIP System

They include (but not limited to):

**1. Simplicity.** Integrating functionalities leads to reduced maintenance and troubleshooting, and significant cost reductions.

**2. Flexibility.** Single network architecture can be employed and managed. Furthermore, the architecture is amenable to different deployment scenarios, including Isolated buildings for in-building coverage, location with co-located partners, and large to medium scale enterprises deployment for wide coverage.

**3. Scalability.** SME network architecture can easily be scaled to the required size depending on customer requirement.

**4. Performance.** The integration of different network functionalities leads to the collapse of the protocol stack in a single network element and thereby eliminates transmission delays between network elements and reduces the call setup time and packet fragmentation and aggregation delays.



# 3 Installation of Base Stations/Repeater

After planning the network, next is to determine the proper places or location the relevant base station and potential repeaters will be installed. Therefore, we briefly describe the how to install the base station in this chapter.

#### 3.1 Package – Contents/Damage Inspection

#### Before Package Is Opened:

Examine the shipping package for evidence of physical damage or mishandling prior to opening. If there is a proof of mishandling prior to opening, you must report it to the relevant support center of the regional representative or operator.

#### Contents of Package:

Make sure all relevant components are available in the package before proceeding to the next step. Every shipped base unit package/box contains the following items:

- 3 x mounting screws and 1 x Anchor
- 1 x Plastic Wall mount
- Base unit





#### Damage Inspection:

The following are the recommended procedure for you to use for inspection:

- 1. Examine all relevant components for damage.
- 2. Make a "defective on arrival DOA" report or RMA to the operator. Do not move the shipping carton until the operator has examined it. If possible, send pictures of the damage. The operator/regional representative will initiate the necessary procedure to process this RMA. They will guide the network administrator on how to return the damaged package if necessary.
- 3. If no damage is found, then unwrap all the components and dispose of empty package/carton(s) in accordance with country specific environmental regulations.

#### 3.2 RTX Base Station Mechanics

The base station front end shows an LED indicator that signals different functional states of the base unit and occasionally of the overall network. The indicator is off when the base unit is not powered.







#### The table below summarizes the various LED states:

LED STATE	STATE
UNLIT	No power in unit
UNLIT/SOLID RED	Error condition
BLINKING GREEN	Initialization
SOLID RED	Factory reset warning or long press in BS reset button
BLINKING RED	Factory setting in progress
SOLID GREEN	Ethernet connection available (Normal operation)
BLINKING RED	Ethernet connect not available OR handset de/registration failed
SOLID RED	Critical error (can only be identified by RTX Engineers). Symptoms include no
	system/SIP debug logs are logged, etc.
ORANGE	Press reset button of base station.
BLINKING ORANGE	No IP address received

#### 3.3 RTX Base Unit – Reset feature

It is possible to restart or reset the base station unit by pressing a knob at the bottom edge of the unit. Alternatively, it can be reset from the SME Configuration Interface. We do not recommend this; but unplugging and plugging the Ethernet cable back to the PoE port of the base station also resets the base unit.



#### 3.4 Find IP of Base Station

To find IP of the installed base station two methods can be used; Using handset Find IP feature or browser IPDECT feature.

#### 3.4.1 Using handset Find IP feature

On the handset press "Menu" key followed by the keys: \*47\* to get the handset into find bases menu. The handset will now scan for the RTX9440 base. Depending on the amount of powered on bases with active radios and the distance to the base it can take up to minutes to find a base.

- Use the cursor down/up to select the base MAC address for the base
- The base IP address will be shown in the display

The feature is also used for deployment.

#### 3.4.2 Using browser IPDECT

Open any standard browser and enter the address: <u>http://ipdect</u><MAC-Address-Base-Station> for e.g. <u>http://ipdect</u>00087B00AA10. This will retrieve the HTTP Web Server page from the base station with hardware address **00087B00AA10**.

This feature requires an available DNS server.

#### 3.5 Login to Base SME Configuration Interface

1. Connect the Base station to a private network via standard Ethernet cable (CAT-5).

**2.** Use the IP find menu in the handset (Menu \* 4 7 \*) to determine the IP-address of the base station by matching the MAC address on the back of the base station with the MAC address list in the handset.

**3.** On the Login page, enter your authenticating credentials (i.e. username and password). By default, the username and password are **admin**. Click **OK** button.

Windows Security ×		
Microsoft Edge		
The server 192.168.11.103 is asking for your user name and password. The server reports that it is from .		
Warning: Your user name and password will be sent using basic authentication on a connection that isn't secure.		
admin		
Password		
Remember my credentials		
ОК	Cancel	

**4.** Once you have authenticated, the browser will display front end of the SME Configuration Interface. The front end will show relevant information of the base station.

#### Screenshot:



	SME VoIP	
Home/Status	Welcome	
Extensions	System Information: Phone Type:	Multi cell Unchained(Unchained) Allowed to Join as Secondary IPDECT-V2 (8663)
Servers	System Type: RF Band:	Generic SIP (RFC 3261) EU
Network	Current local time:	09/Jan/2018 04:17:20 00:01:22 (H:M:S)
Management	RFPI Address:	12AE8C04; RPN:00 00087b100a10
Firmware Update	IP Address:	192.168.11.167 IPDCF8.12/01.00/PD057/00.1cm 2010.21.22
Time	Firmware Version: Firmware URL:	Firmware update server address: betaware.rtx.net
Country	Base Station Status:	Firmware path: HDJFwu Idle
Security	SIP Identity Status on this Base S	Station:
Central Directory	Press button to reboot.	
Multi cell	Reboot	Forced Reboot
LAN Sync		
Repeaters		
Alarm		
Statistics		
Diagnostics		
Configuration		ryample only
Syslog		EAU
SIP Log		
· · · · · · · · · · · · · · · · · · ·		
Logout		

## 4 Making Handset Ready

In this chapter, we briefly describe how to prepare the handset for use, install, insert and charge new batteries. Please refer to an accompanying Handset User Guide for more information of the features available in the Handset.

#### 4.1 Package – Contents/Damage Inspection

Before Package Is Opened:

Examine the shipping package for evidence of physical damage or mishandling prior to opening. If there is a proof of mishandling prior to opening, you must report it to the relevant support center of the regional representative or operator.

Contents of Package:

Make sure all relevant components are available in the package before proceeding to the next step. Every shipped base unit package/box contains the following items:

- 1 x Handset hook
- 1 x A/C Adaptor
- 1 x Battery
- 1 x charger
- 1 x Handset Unit
- 1 x Battery cover,
- 1 x Belt hook





#### Damage Inspection:

The following are the recommended procedure for you to use for inspection:

- 1. Examine all relevant components for damage.
- 2. Make a "defective on arrival DOA" report or RMA to the operator. Do not move the shipping carton until the operator has examined it. The operator/regional representative will initiate the necessary procedure to process this RMA. They will guide the network administrator on how to return the damaged package if necessary.
- 3. If no damage is found, then unwrap all the components and dispose of empty package/carton(s) in accordance with country specific environmental regulations.

#### 4.2 Before Using the Phone

Here are the pre-cautions users should read before using the Handset:

Installing the Battery

- 1. Never dispose battery in fires, otherwise it will explode.
- 2. Never replace the batteries in potentially explosive environments, e.g. close to inflammable liquids/ gases.
- 3. ONLY use approved batteries and chargers from the vendor or operator.
- 4. Do not disassemble, customize, or short circuit the battery

**Closing Back Cover** 

- 1. Slide the top of the battery cover into the designated slot of the handset (see step 1 in below drawing)
- 2. Press the bottom of the battery cover onto the handset (see step 2 in below drawing)
- 3. Move the lock pin to "locked position" (see step 3 in below drawing)

**Replace Battery** 

Remove Back Cover from Handset. Remove the old battery and replace with a new one.





Using the Charger

Each handset is charged using a handset charger. The charger is a compact desktop unit designed to charge and automatically maintain the correct battery charge levels and voltage.

The charger Handset is powered by AC supply from 110-240VAC that supplies 5.0VDC at 2A.

When charging the battery for the first time, it is necessary to leave the handset in the charger for at least 10 hours before the battery is fully charged and the handset ready for use.

Handset in the Charger

For correct charging, ensure that the room temperature is between 5°C and 25°C/41°F and 77°F. Do not place the handset in direct sunlight. The battery has a built-in heat sensor which will stop charging if the battery temperature is too high.

If the handset is turned off when placed in charger, only the LED indicates the charging. When handset is turned off, the LED flashes at a low frequency while charging and lights constantly when the charging is finished. There will be response for incoming calls.

If the handset is turned on when charging, the display shows the charging status.

#### Handset Serial Number

The serial number (IPEI/IPUI number) of each handset is found either on a label, which is placed behind the battery, or on the packaging label. First, lift off handset back cover and lift the battery and read the serial number. The serial number is needed to enable service to the handset. It must be programmed into the system database via the SME VoIP Configuration interface.





#### Handset Battery

There is a danger of explosion if the battery is replaced incorrectly. Use only recommended battery from Dong Guan DRN New Energy Co. LTD. (Cell model no.: RTR001F05 - Li-ion 3.7V 1100mAh 4.2Wh).

#### CAUTION

RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS

#### For countries in the European Union

way.

Be sure to dispose of these products as well as its packing material in an environmentally compatible



Electrical equipment, including the battery, should not be disposed of as municipal waste. These products should be taken to a designated facility where the best available treatment, recovery and recycling techniques are available.

#### For countries outside the European Union

Disposal of electrical and electronic products in countries outside the European Union should be done in line with the local regulations. If no arrangement has been made with NEC or your supplier, please contact the local authorities for further information.

CE

Handset CP-6825-K9, CP-6825-RGD-K9; charger CP-6825-HC; base DBS-110-3PC-CE-K9 are in compliance with the essential requirements and other relevant provisions of below.

2011/65/EU

Restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS) 1907/2006 Registration, Evaluation, Authorization and Restriction of Chemicals (REACH)

Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) 2012/19/EU

2012/19/EU

Amending Directive 2002/96/EC on Waste Electrical and Electronic Equipment (WEEE)



2014/35/EU Low Voltage Directive (LVD) 2014/30/EU Electromagnetic Compatibility Directive (EMC) 2009/125/EC Eco-design requirements for Energy-related Products (ErP) 2014/53/EU Radio Equipment Directive (RED) Adaptor Base DBS-110-3PC-CE-K9 and Charger CP-6825-HC, is dedicated for Handset CP-6825-K9, CP-6825-RGD-K9 and needs the following Power Supply Units: **PSU Europe** - TenPao (Model S010WV0500200) - efficiency level VI (rating I/P:AC 100-240V, 0.4A; O/P: DC 5V, 2A). **PSU United State** - TenPao (Model S010WU0500200) - efficiency level VI (rating I/P:AC 100-240V, 0.4A; O/P: DC 5V, 2A). **PSU United Kingdom** - TenPao (Model S010WB0500200) - efficiency level VI (rating I/P:AC 100-240V, 0.4A; O/P: DC 5V, 2A). **PSU** Australia - TenPao (Model S010WS0500200) - efficiency level VI (rating I/P:AC 100-240V, 0.4A; O/P: DC 5V, 2A). PSU WW - TenPao (Model S008ACM0500100 with EU, UK, US, AUS plugs) – efficiency level VI (rating I/P:AC 100-240V, 0.3A; O/P: DC 5V, 1A). - TenPao (Model S008ACM0500200 with EU, UK, US, AUS plugs) – efficiency level VI (rating I/P:AC 100-240V, 0.3A; O/P: DC 5V, 2A).

#### FCC Warning

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

-Reorient or relocate the receiving antenna.

—Increase the separation between the equipment and receiver.

-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

-Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications to this equipment not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

#### For Handset

SAR tests are conducted using standard operating positions accepted by the FCC with device transmitting at its highest certifed power level in all tested frequency bands, although the SAR is determined at the highest certified power level, the actual SAR level of the device while operating can be well below the maximum value. Before a new model device is an available for sale to the public, it must be tested and certifed to the FCC that it does not exceed the exposure



limit established by the FCC, tests for each device are performed in positions and locations as required by the FCC. For body

worn operation, this model device has been tested and meets the FCC RF exposure guidelines when used with an accessory designated for this product or when used with an accessory that contains no metal. **For Base** 

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator& your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter located or operating in conjunction with any other antenna or transmitter.

#### **ISEDC Warning**

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause interference.

2. This device must accept any interference, including interference that may cause undesired operation of the device.

Cet appareil est compatible avec la licence de l'Innovation, la Science et le développement conomique du Canada à l'exemption des normes RSS. Le fonctionnement est sujet aux deux (2) conditions suivantes :

(1) Cet appareil peut ne pas causer de l'interférence, et

(2) Cet appareil doit accepter l'interférence, incluant de l'interférence qui peut causer un mauvais fonctionnement de cet appareil.

#### For Handset

SAR tests are conducted using standard operating positions accepted by the ISEDC with device transmitting at its highest certified power level in all tested frequency bands, although the SAR is determined at the highest certified power level, the actual SAR level of the device while operating can be well below the maximum value. Before a new model device is an available for sale to the public, it must be tested and certified to the ISEDC that it does not exceed the exposure limit established by the ISEDC, tests for each device are performed in positions and locations as required by the ISEDC. For body worn operation, this model device has been tested and meets the ISEDC RF exposure guidelines when used with an accessory designated for this product or when used with an accessory that contains no metal. **For Base** 

# This equipment complies with ISEDC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator& your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter located or operating in conjunction with any other antenna or transmitter.

#### Pour le combiné

Les tests SAR sont faits en utilisant les normes de positions d'opération acceptées par l'ISEDC avec les appareils émettant les plus hauts niveaux de puissance certifiés sur toutes les bandes de fréquences, même si le SAR est déterminé d'être du plus haut niveau de puissance certifié, le niveau SAR actuel de l'appareil peut être sous la valeur maximale de fonctionnement. Avant qu'un nouveau modèle d'appareil ne soit disponible pour la vente au public, celuici doit être soumis à des tests de certification par l'ISEDC lesquels n'excèdent aucunement la limite d'exposition issue par l'ISEDC, lesquels sont des tests effectués sur chaque appareil dans des positions et endroits requis par l'ISEDC. Pour l'usure de construction de ce modèle d'appareil, celui-ci a été testé et rencontre les lignes directrices émises par l'ISEDC RF pour l'exposition, lorsqu'il est utilisé avec un accessoire conçu pour ce produit ou utilisé avec un accessoire qui ne contient aucun métal.

#### Pour la base

Cet équipement est conforme avec les limites d'exposition à la radiation de l'ISEDC émises dans un environnement contrôlé. Cet équipement devrait être installé et fonctionnel avec un minimum de distance entre le radiateur et votre corps d'au moins 20 cm. Ce transmetteur ne doit pas être co-situé près d'une autre antenne ou en conjonction avec un autre transmetteur.



This Class B digital apparatus complies with Canadian ICES-003. Cet appareille numérique de classe B est conforme aux normes canadiennes ICES-003.