

KIRK Wireless Server 1200 1.9 GHz

The KIRK Wireless Server 1200 1.9 GHz is a VoIP solution. It has 12 simultaneous speech channels. Per server in a single cell configuration up to 35 KIRK Handsets can be subscribed to the solution. In areas with intense voice traffic, KIRK telecom recommends that the number of handsets does not exceed 12. Up to 6 KIRK Repeaters can be added to the solution to expand the coverage area.

In a multi cell configuration up to 1500 wireless users can be subscribed to the solution.

This guide will help you set up the KIRK Wireless Server 1200 1.9 GHz on a Cisco CallManager. Please refer to your CallManager user's manual for general information.

Single Cell Configuration

1. Installation

1. Mount the KIRK Wireless Server 1200 1.9 GHz on a wall, where coverage is needed, using the mounting KIT.
2. Connect the system to the Call Manager LAN network using a standard patch cable.
3. Connect the system to a power supply using only power supplies from KIRK telecom.
4. Verify that the LED's are flashing as follows:

Active

In HTTP mode and when packets are transmitted on the Ethernet the Active LED is turned on. In TFTP mode it will be turned on when the Interface Card has detected an Ethernet connection.

100

In HTTP mode and when the Ethernet speed is 100mbps the 100 LED is turned on. When 10mbps Ethernet is connected it will be off. In TFTP mode the 100 LED will be turned on when the Interface Card has detected an Ethernet connection.

Link

When the Ethernet link layer is established the Link LED is turned on.

Ready

When the system is running and ready the Ready LED is turned on. If the system is not ready the LED will start flashing.

Front LED

The front LED is green when the system is running and the subscriptions are read.



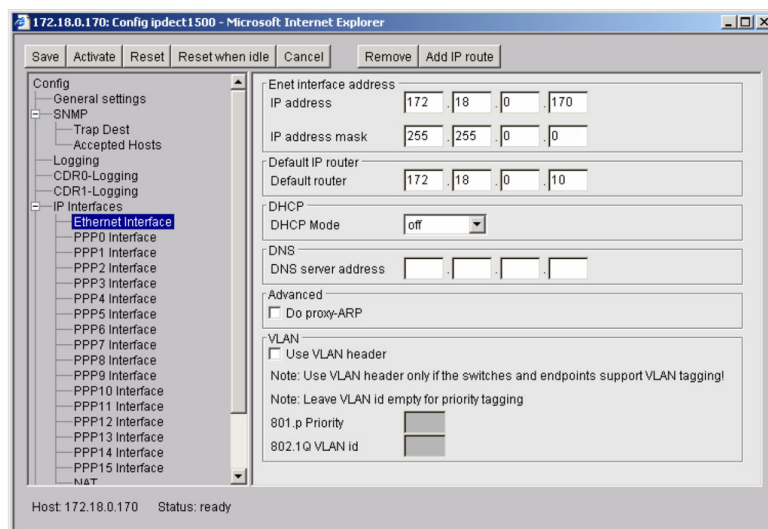
Software and help files are available at: <http://www.kirktelecom.com/company/suk207.asp>

2. IP Addresses

The KIRK Wireless Server 1200 1.9 GHz is pre-configured with the IP address: **192.168.0.1**. This address has to be changed for customizing the sub-net mask of the network. Start configuring a PC to the IP system's identical net mask, e.g. the address: 192.168.0.2 and sub-net mask: 255.255.255.0. The system is now ready to be reached with a standard internet browser. **Do not** select DHCP.

To change the address in the card to e.g. 172.180.0.170 please follow the steps below:

1. Start an Internet browser and address the system with IP address 192.168.0.1
2. Select Gateway -> Config (user = admin, password = ip1200)
3. Select IP Interfaces -> Ethernet Interface in the pop up window
4. It is now possible to change the IP address of the card and the IP address mask. Type the new IP address in the "IP address" field and press save -> activate.
5. Type the default router if applicable
6. No other fields are supported
7. Select IP Interfaces
8. "Type of service" must be set to 0xb8, and press save -> activate.



3. Licenses

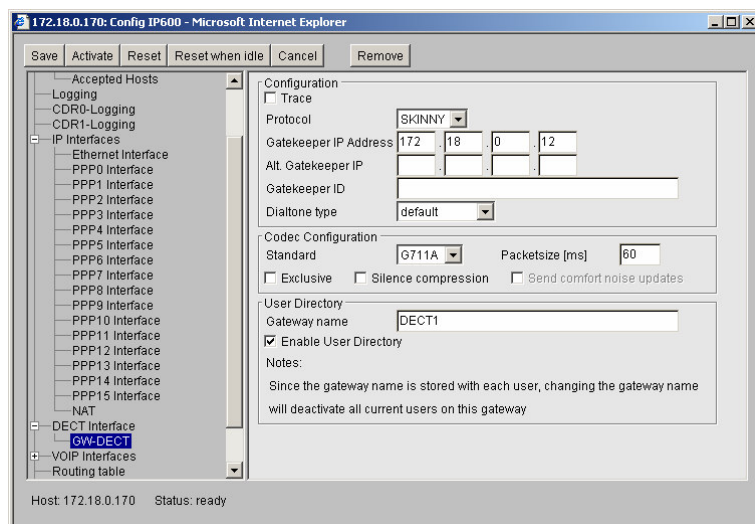
If the KIRK Wireless Server 1200 1.9 GHz is purchased as a Cisco compatible version, the pin-code to open up for the skinny protocol is printed on the label on the back of the system.

1. Click "Admin" under the menu "Radio" in the menu-bar on the left (the menu can also read "licenses" if you are upgrading from an older firmware version).
2. Type in the 28 digit pin code as shown on the label on the back of the system, WITHOUT dashes.
3. Click OK.
4. Reset the system by disconnecting the power and reconnecting it again.
5. When the system is finished rebooting the "info" field should read "a pin code with skinny license is installed". If not, repeat the procedure.

4. Configuring the KIRK Wireless Server 1200 1.9 GHz on the CallManager

Start an internet browser and address the card

1. Select Gateway -> Config (user = admin, password = ip600)
2. Select DECT Interface -> GW-DECT
3. Set protocol to "Skinny"
4. Type the IP address of the Gatekeeper. (Primary Call Manager IP)
5. Type the IP address of the alternate Gatekeeper. (Secondary CallManager IP or SRST IP)
6. Type DECT1 in HW ID
7. Check the "enable user directory" box
8. Press Save -> Activate
9. No other fields are supported.



5. Registration of Users on the CallManager

Users must be registered on the CallManager as well as on the KIRK IP Interface Card. Please follow the steps below to register users on the CallManager:

1. Start the CallManager software
2. Select "Device" -> "phone"
3. Select "add a new phone"

4. In the field "phone type" select "Cisco 7940" and press next
5. Type i.e. the handset serial number (without space) in the field "MAC address"
6. Type a description of the handset in the field "description"
7. Select "Default" in device pool and press "insert"
8. Type the extension number in the field "directory number" and press "insert"
9. Ensure that call waiting is turned off for all DECT Phones
10. Please note that the wireless system supports automatic registration

6. Subscription of Users on the KIRK IP Interface Card

How to register users on the IP card:

1. Open the IP Interface Card with an internet browser
2. Select Gateway -> users -> new user

Name: Some name you choose

Nickname: Prefix "SEP" and then the IPEI number (without spaces), i.e. SEP000770669569. This number must be the same as the one typed in the CallManager

Number: The extension you choose for the phone. The number must be unique, e.g. 320

Display: The stand-by display text of the handset

IPEI: For the 30xx series, the IPEI number of the handset is located in the battery casing of the handset. For the 40xx series, the IPEI number can be seen in the display by typing *99984* ENTER (v).

AC (access code) optional: An access code can be defined for the handset login procedure.

Password: Not supported

http://172.18.0.170/GW-DECT/gwuser1.xml?xsl=useredit.xml&na...

Gateway user edit

Name

Nickname

Number

Display

IPEI

AC (access code)

Password

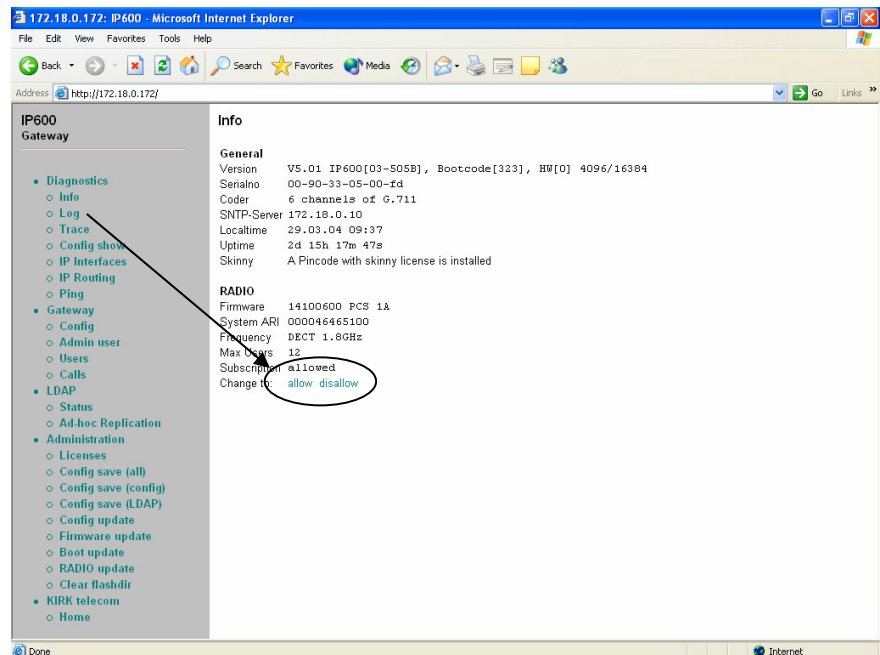
OK Remove Cancel

Note: IPEI is the serial number of the handset as in this example: 00077 2300000

7. Subscription of Handsets

Before registering handsets on the system, the system must be set to "subscription allowed". The subscription setting can be changed in the info menu.

1. From the handset choose the SUBSCRIPTION CREATE menu to subscribe to the new system. Use the < and > keys to scroll between the IDs of the different systems if there are more than one system available. If the handset is already subscribed to 10 systems you will need to remove one of the existing subscriptions.
2. Choose the system that you wish to subscribe to. When a subscription is available, enter the free system using < or > and the AC if required.
3. If the subscription was successful, the standby text and the RF icon are shown in the display. If not, the subscription has failed and the procedure must be repeated.
4. For re-subscription of a DECT handset that has previously been subscribed to the CallManager, it may be necessary to reset the handset from the CallManager after subscribing the handset.



Please refer to the KIRK 3040 or KIRK 40XX handset user's guides for further reference.

8. Remove a Subscription from the System

If you wish to remove a subscription from the system, it is very important that the subscription is removed FIRST on the KIRK IP Interface Card and then on the CallManager.

9. Firmware Upload

It is possible to upload new firmware to the system. Download the newest firmware from www.kirktelecom.com. Choose "firmware update" from the menu and locate the *.bin file. Do not interrupt the system while the firmware is being uploaded. The system needs to be restarted for the new firmware to function properly.

10. Reset to factory settings

To reset the system to factory default, press and hold the reset button for 10 seconds. The system is then back to the original IP settings and the user database is cleared. The firmware version will not be affected.

11. Pre Call Services

Activate Call-Forward-All:

Use this feature to send all calls from one telephone number to another telephone number. To activate Call-Forward-All, follow these steps:

Procedure

Step 1 Press the hook key, and dial ** then 1 on your telephone keypad. You will receive a confirmation tone.

Step 2 Enter the telephone number to which you want to send the calls. A confirmation tone will sound.

Step 3 Hang up.

Cancel Call-Forward-All:

To cancel Call-Forward-All, follow these steps:

Procedure

Step 1 Press the hook key, and dial ** then **2** on your telephone keypad. You will receive a confirmation tone.

Step 2 Hang up.

Call Pickup:

(NOT SUPPORTED FOR SRST)

To answer a phone in your call pickup group, follow these steps:

Procedure

Step 1 Press the hook key, and dial ** then **3** on your telephone keypad.

12. Note

Cisco charges users of the CallManager software a license fee for each IP Phone, soft phone or other endpoint system ("IP Phone") that connects into the Cisco CallManager software. This CallManager user license fee applies regardless of the source (Cisco, Licensee or third party) or the functionality of that IP phone.

Licensee must communicate to Licensee's field, channels and customers, in a form and manner approved in advance by Cisco, the following information about the program: How to make payment of that CallManager User License Fee under a particular part ID number. (URL to be provided to Licensee by Cisco or customers may contact their Cisco Field representative to make payment).

13. Multi Cell Configuration

To be defined

Important Safety Instructions and Product Information

Before using your telephone equipment, you should always follow basic safety instruction to reduce the risk of fire, electrical shock and injury to persons, and damage to property.

- 1 Read and understand all instructions
- 2 Follow all warnings and instructions including those marked on the product
- 3 Unplug this product before cleaning. Do not use liquid cleaners or aerosol cleaners. Use damp cloth for cleaning
- 4 Do not install the telephone equipment in the bathroom or near a wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool
- 5 Slots or openings in the cabinet back and bottom of the equipment are provided for ventilation to protect it from over-heating. These openings must not be blocked or covered.
- 6 The product should be operated only from the type of power source indicated on the instructions. If you are not sure of the type of power supply, consult your dealer or local power company.
- 7 Do not overload wall outlets and extension cords as this can result in fire or electrical shock.
- 8 Never push objects of any kind into this product through cabinet slots as they may touch dangerous voltage points or short out parts that could result in fire, electrical shock, or injury. Never spill liquid of any kind into this product.
- 9 To reduce the risk of electrical shock or burns, do not disassemble this product. Opening or removing covers may expose you to dangerous voltages, dangerous electrical current, or other risks. Incorrect reassemble can cause electrical shock when the appliance is subsequently used. If the product need repair, consult your dealer.
- 10 Refer servicing to qualified service personnel under the following conditions:
 - AQ If liquid has been spilled into the product
 - BQ If the product has been exposed to rain or water
 - CQ If the product does not operate normally when following the operating instructions in the manual. Adjust only those controls that are covered by the operation instructions. Improper adjustment of other controls may result in damage and will often require extensive work by qualified service personnel to restore the product to normal operation.
 - DQ If the product has been dropped or cabinet has been damaged
 - EQ If the product exhibits a distinct change in performance
- 11 Avoid using telephone during an electrical storm. There may be a risk of electrical shock from lightning
- 12 Do not use the telephone to report a gas leak in the vicinity of the leak
- 13 Do not place the unit near microwave ovens, radio equipment, or non-ground connected televisions. These appliances may cause electrical interference to the base or handset
- 14 The unit must be installed on a hard, plane surface and connected to a functional 120 volt AC power netadapter and plug the adapter into the power outlet
- 15 The system will not operate in the event of a blackout. Please keep a backup phone for emergencies

Intrinsic safety

Do not install the unit in conditions where there is a danger of electrically ignited explosions.

Exposure to sunlight, heat and moisture

Do not expose the unit to direct sunlight for long periods. Keep away from excessive heat and moisture.

Spare parts and accessories

Use only approved spare parts and accessories. The operation of non-approved parts cannot be guaranteed and may even cause damage.

Power failure

In the event of a power failure, you cannot use the wireless solution to make or receive calls

NOTICES

NOTICE: Before installing this equipment, users should ensure that it is permissible to be connected to the facilities of the local telecommunications company. The equipment must also be installed using an acceptable method of connection. The customer should be aware that compliance with the above conditions may not prevent degradation of service in some situations.

Repairs to certified equipment should be coordinated by a representative designated by the supplier. Any repairs or alterations made by the user to this equipment, or equipment malfunctions, may give the telecommunications company cause to request the user to disconnect the equipment.

Users should ensure for their own protection that the electrical ground connections of the power utility, telephone lines and internal metallic water pipe system, if present, are connected together. This precaution may be particularly important in rural areas.

CAUTIONS: Users should not attempt to make such connections themselves, but should contact the appropriate electric inspection authority, or electrician, as appropriate.

If your telephone equipment causes harm to the telephone network, the telephone operator may ask you to disconnect the system from the line until the problem has been corrected or they may discontinue your service temporarily. If possible, they will notify you in advance. But if advance notice is not practical, you should be notified as soon as possible. You will be informed of your right to file a complaint with the FCC.

Your telephone operator may make changes in its facilities, equipment, operations, or procedures that could affect the proper functioning of your telephone system. If they do and it is possible, you will be notified in advance to give you an opportunity to maintain uninterrupted telephone service. If you experience trouble with this telephone system, disconnect it from the network until the problem has been corrected or until you are sure that the equipment is not malfunctioning.

Note: 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.

Power Outage: In the event of a power outage, your cordless telephone will not operate. The cordless telephone requires electricity for operation. You should have a telephone which does not require electricity available for use during power outages.

Information to user: The user's manual or instruction manual for an intentional or unintentional radiator shall caution the user that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

LIMITED WARRANTY

This limited, non-transferable warranty is provided to the original purchaser. The product is warranted to be free from defects in materials and workmanship under normal installation, use and service for a period of one (1) year from the date of purchase as shown on the purchaser's receipt.

Our obligation under this warranty is limited to repair or replacement (at our option) of the product or any part(s) which are defective provided that the product is returned to the original place of purchase or an authorized service location during the warranty period. Products returned must be accompanied by a copy of the purchase receipt. In the absence of a purchase receipt, the warranty period shall be one (1) year from the date of manufacture. Repair or replacement of the product is your sole and exclusive remedy.

If the product is repaired, reconditioned component parts or materials may be used. If the product is replaced, we may replace it with a new or reconditioned product of the same or similar design. The repaired product will be warranted for either (a) 90 days or (b) the remainder of the original one (1) year warranty period, whichever is longer.

This warranty does not apply to the defects outside of our control, including but not limited to acts of God, fire, flood and damage while in transit to service facility. We do not warrant that the product will be compatible with any telephone equipment, systems or party lines.

This warranty shall be void if the product is damaged as a result of defacement, misuse, abuse, neglect, accident,

destruction or alteration of the serial number, improper electrical voltages or currents, repair, alteration or maintenance by any person or party other than our authorized service facility, or any violation of instructions furnished by us.

This warranty is also void if this product is removed from the country in which it was purchased by the original purchaser, if it is used in a country in which it is not registered for use, or if it is used in a country for which it was not designed. Due to variations in telephone systems and communications laws, this product may be illegal for use in some countries. We assume no responsibilities for damages or penalties incurred resulting from the use of this product in a manner or location other than that for which it was intended.

THIS LIMITED WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES EXPRESS OR IMPLIED. ANY IMPLIED WARRANTIES INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, SHALL BE LIMITED TO THE DURATION OF THIS WRITTEN LIMITED WARRANTY. WE DISCLAIM ANY LIABILITY FOR DAMAGES FOR LOSS OF USE OF THE PRODUCTS, LOSS OF TIME, INCONVENIENCE, INJURY TO ANY PERSON, OR DAMAGE TO PROPERTY CAUSED BY THE PRODUCT, LOSS OF REVENUE OR PROFIT OR DAMAGES FOR ANY FAILURE TO PERFORM. IN NO EVENT SHALL WE BE LIABLE FOR ANY SPECIAL, INCIDENTAL, PUNITIVE OR CONSEQUENTIAL DAMAGES EVEN IF WE ARE ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. Some states do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply to you.

This warranty is the sole and exclusive warranty provided for the product. There are no other express warranties. This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state.



The product must not be disposed of with unsorted waste, but must be collected separately.



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