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## **ABOUT THIS GUIDE**

This section contains an overview of this guide, lists guide conventions, related documentation, and product compatibility.

This guide describes how to answer the questions in the installation scripts, which run when you first start a 3Com<sup>®</sup> IP Conferencing Module Server. By providing the correct answers to the script questions, you configure the system for initial operation.

This guide is intended for equipment installers who have a thorough understanding of telecommunications, VoIP technology, Linux operating systems, databases, networks, and system administrator privileges.



Release Notes are issued with some products. If the information in the release notes differs from the information in this guide, follow the instructions in the release notes.

## Conventions

This section describes notice, text, and figure conventions.

**Notices** <u>Table 1</u> lists notice icons.

#### Table 1 Notice Icon Descriptions

lcon	Notice Type	Description
i	Information note	Information that describes important features or instructions
ľ	Caution	Information that alerts you to potential loss of data or potential damage to an application, system, or device
4	Warning	Information that alerts you to potential personal injury

## **Text** <u>Table 2</u> lists text conventions.

## Table 2 Text Convention Descriptions

Convention	Description
Screen displays	This typeface represents information as it appears on the screen.
Commands	The word "command" means that you must enter the command exactly as shown and then press Return or Enter. Commands appear in bold. Example:
	To remove the IP address, enter the following command:
	SETDefault !0 -IP NETaddr = 0.0.0.0
Words in <i>italics</i>	Italics are used to:
	<ul> <li>Emphasize a point.</li> </ul>
	<ul> <li>Denote a new term at the place where it is defined in the text.</li> </ul>
	<ul> <li>Identify menu names, menu commands, and software button names. Examples:</li> </ul>
	From the Help menu, select Contents.
	Click OK.

Related Documentation	These 3Com documents contain additional information about the products in this release that are a part of or support the 3Com Convergence Applications Suite.
	The following documents are a part of the IP Conferencing Module:
	<ul> <li>IP Conferencing Module Installation Guide</li> </ul>
	<ul> <li>IP Conferencing Module User Guide</li> </ul>
	<ul> <li>IP Conferencing Module Administration Guide</li> </ul>
Comments	Send e-mail comments about this guide or about any Voice product documentation to:
	VOICE_Techcomm_comments@3com.com
	Include the following information with your comments:
	<ul> <li>Document title</li> </ul>
	<ul> <li>Document part number (found on the front page)</li> </ul>
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- Page number
- Your name and organization (optional)

## Example:

## *IP Conferencing Module Installation Guide System Release 6.0* Part Number 900-0368-01 Page 25



*Please address all questions regarding 3Com software to your authorized 3Com representative.* 

## **PRE-INSTALLATION**

This chapter provides pre-installation guidelines for the 3Com IP Conferencing Module, which is an optional component of the 3Com NBX Networked Telephony System.



The NBX system does not support presence. References to the "presence server" and "presence database" in this document are applicable to other products in the 3Com Convergence Applications Suite.

- <u>Configuration Overview</u>
- <u>Gathering Site Information</u>
- Worksheet

## Configuration Overview

All of the software components of the 3Com IP Conferencing Module must be installed on a single hardware server. Multiple server installations are not supported.

The hardware server that hosts the 3Com IP Conferencing Module software must run the 3Com VCX<sup>™</sup> Linux operating system. Consult the 3Com price list for details.

Components installed on the single server:

- conference server/conference attendant server
- NBX user database
- conferencing database (master)
- web console server



#### **Figure 1** Network diagram - single server

## Post-installationAfter you run the installation script, you need to configure the following:Setup

#### Setting up a Route to the Conference Servers

You must configure the NBX dial plan with a route to your conference server. If your implementation has only one server, then a route to a single endpoint is required.

## Setting up a Route to the Conference Attendant Servers

As with the conference server, it is necessary to configure a route for the conference attendant server. The NBX dial plan is used for this purpose.

#### **Test E-Mail Notification Setup**

You must test the e-mail setup by logging in to the system and sending an e-mail message using Send-only Simple Mail Transfer Protocol (sSMTP). If you fail to receive the test e-mail message, you can check for errors in /opt/logs/vcx-linux/maillog.

# Gathering SiteThe 3Com NBX servers communicate with each other using IP addresses.InformationThese addresses must be dedicated (static) and must be compatible with<br/>your network design.

One or more 3Com IP Conferencing Module servers may be added to a system.

**Using DNS** 3Com recommends that you configure your DNS servers so that they know the IP addresses of all NBX servers and gateways. If you prefer to not use DNS, you can edit the /etc/hosts files on the IP Conferencing Module and all of the NBX servers.



3Com does not support NIS or WINS as domain name resolution methods for NBX products.

**Single Server** You require the following:

- You must dedicate one IP address to the 3Com IP Conferencing Module.
- You must assign a host name to the 3Com IP Conferencing Module.
- You must know the IP address of the network gateway.
- You must know the IP addresses of the primary and secondary DNS servers.
- You must know the IP addresses of the primary and secondary NTP servers.

## Worksheet

To make it easier to configure your system, you may want to have the necessary information in front of you before you begin to install any server.

## Table 3 Network Configuration Parameters

Configuration Parameter	Value
3Com IP Conferencing Module IP address (eth0)	
3Com IP Conferencing Module host name	
Subnetwork mask	
Gateway IP address	
Primary DNS server IP address	
Secondary DNS server IP address	
DNS search path	
Primary NTP server IP address	
Cacandany NTD conver ID address	

Secondary NTP server IP address

Continent			
Country			
Time Zone			

 Table 3
 Network Configuration Parameters (continued)

 Table 4
 System Configuration Parameters

Configuration Parameter	Value
Services:	
1. Presence and Conference - all in one	
2. Conferencing server	
3. Conferencing and database server	
4. Data server for presence and conferencing	
5. Presence server (with database)	

	Table 5	E-Mail	Notification	Parameters
--	---------	--------	--------------	------------

Configuration Parameter	Value	
Mailhub (computer that handles mail)		
Hostname of your computer		
Mail name of your system		
System user e-mail address		

## Table 6 Database Configuration Parameters

Configuration Parameter	Value
Database:	
1. Local Master: this server will have the master db	
2. Local Slave: this server will have the slave db	
3. Remote database: db is on another server	

## Table 7 Initial Configuration Parameters

Configuration Parameter	Value
Fully qualified hostname of the installation	
Administrator's e-mail address	
Activation key(s)	
Minimum value for numeric conference names	
Maximum value for numeric conference names	
Prefix for Ad Hoc conference names	
Prefix for Group Call names	
IP address of the primary dialout proxy	
IP address of the secondary dialout proxy	
Digit Map for DTMF dialout	
NBX server Site ID (enter on master only)	
NBX Server IP address (primary server: eth0)	
Username for NBX database synchronization	
Password for NBX database synchronization	

#### **14** CHAPTER 1: PRE-INSTALLATION

## **INSTALLATION SCRIPTS**

This chapter describes the initial configuration of each 3Com IP Conferencing Module server in a NBX system. All software components run on each server.

The installation scripts are run on command. Each time a script prompts you for a response, you can accept the default (preconfigured) value by pressing the Return or Enter key, or you can manually enter a different value.

If necessary, you can re-run the scripts and enter new values.



Verify that all the procedures outlined in <u>Chapter 1</u>, <u>"Pre-Installation"</u> have been completed before continuing with this chapter.



The NBX system does not support presence. References to the "presence server" and "presence database" in this document are applicable to other products in the 3Com Convergence Applications Suite.

This chapter contains information on the following:

- Overview of Components
- Initial Installation Services Installed
- Initial Installation Configuration Guidelines
- <u>Single Server Initial Installation</u>
- Post Installation Configuration
- <u>Upgrade Installation</u>
- Managing the Activation Keys

Overview of Components This section provides a general description of the various components of the IP Conferencing Module.

	<ul> <li>Web Provisioning Server — Allows for the creation of conferences and maintenance of the server.</li> </ul>
	<ul> <li>Conference Server — Allows users to join conferences that support any or all of audio, video, and desktop sharing communication modes.</li> </ul>
	<ul> <li>Conference Attendant — Allows users to join conferences by dialing a single access number independent of conference ID. The attendant prompts the user for the conference ID and, if required, the conference passcode.</li> </ul>
	<ul> <li>Presence Server (optional) — Collects and distributes the online status information of users.</li> </ul>
	<ul> <li>Conference Server Database — Database of IP Conferencing Module activity. On systems with two or more servers, a single database pair (master and slave) is supported.</li> </ul>
	<ul> <li>NBX user database — Database of NBX system users.</li> </ul>
i	The NBX system does not support presence.
Initial Installation - Services Installed	When you perform an initial software installation (a "fresh" install), you must run the setup script for each hardware server in your conference server pool. The script provisions the following services on the hardware server:
	<b>Network Configuration</b> — For the initial installation, you are prompted to enter general networking settings.
	<b>System Configuration</b> — The script prompts you to select the configuration that matches the services you have purchased. Select one

- Presence and Conference (All-in-one): Installs all components, including the conference server, conference attendant server, web server, NBX user database, and conference database.
- Conferencing server: Installs the conference server and conference attendant server.
- Conferencing and database server: Installs the conference server, conference attendant server, and conference database.
- Data server for presence and conferencing: Installs the conference database.

of the following:

	<ul> <li>Presence server (with database): Presence server, web server, NBX user database, and conference database.</li> </ul>
	<b>E-Mail (sSMTP) Configuration</b> — This portion of the script configures the Send-only Simple Mail Transfer Protocol (sSMTP) that enables the system to send e-mail notifications when conferences are created or modified, or when users add contacts to their buddy lists.
	<b>Database Configuration</b> — Select a database configuration for this server. Select "Local Master" if the server is going to host the master database (All-in-one server, or primary server in a distributed system).
	<b>IP Conferencing Module Configuration</b> — Contains parameters for the NBX system software components, including the IP Conferencing Module. Activation keys are entered in this portion of the script.
Initial Installation - Configuration Guidelines	Follow these general guidelines when you perform an initial software installation.
	Single Server Configuration
	General installation steps:
1	On the single server, run the setup script:
	<b>a</b> When prompted to select the services the system will provide, select 1 (presence and conference - all in one).
	<b>b</b> When prompted to select a database configuration, select 1 (Local Master: this server will have the master database).
	<b>c</b> When prompted to start the 3Com IP Conferencing Services, enter Y.
2	Complete the post-installation configuration (see <u>Post Installation</u> <u>Configuration</u> ).
i>	The setup script is divided into five sections:
	<ul> <li>network configuration</li> </ul>
	<ul> <li>system configuration</li> </ul>
	<ul> <li>e-mail configuration</li> </ul>
	<ul> <li>database configuration</li> </ul>
	<ul> <li>initial configuration.</li> </ul>

These sections run automatically after the command "setup" is entered.

Single Server Initial Installation	The section contains a sample script of the setup script for the single server (all-in-one) configuration).				
Sample setup Script (All-in-one server)	The following options are selected in this sample script:				
	<ul> <li>All-in-one system configuration (installs the conference server, conference attendant server, web server, NBX user database, and conference &amp; presence database)</li> </ul>				
	<ul> <li>Master database configuration.</li> </ul>				
	The setup script displays the current settings and then asks you if you want to accept or update them. Sample answers are provided in bold type along with explanations of those answers. Explanations are in italics.				
	To run the setup script:				
1	Log in to the server as <b>root</b> .				
2	Enter a password (default is pvadmin).				
3	Press <b>Enter</b> (or Return).				
-bash-2.05b# <b>setup</b>					
	Enter setup at the command prompt.				
Welcome to	the VCX Linux Network Configuration Wizard				
This wizard sets up ne	etworking and related services.				
	Start of Network Configuration				
Configure networking	now? [yes] :				
	Press the Enter or Return key to accept yes as the suggested answer.				
Configuring	Dynamic Host Configuration Protocol (DHCP)				
VCX servers can use D	HCP for automated configuration, but this requires				

VCX servers can use DHCP for automated configuration, but this requires that the DHCP server is configured to provide the proper options. Unless you know that your environment is set up in this way, you should say 'no' here and configure static network parameters.

Use DHCP on eth0 to configure network parameters? [no] :

----- Configuring Hostname -----Enter system hostname [localhost] : conf01.yourcompany.com ----- Configuring IP Interface 'eth0' ------Enter IP Address [192.168.1.100 ] : **10.20.30.60** Enter Network Subnet Mask [255.255.255.0] : 255.255.255.0 Enter Default Gateway Address [10.20.30.254 ] : 10.20.30.254 ----- Configuring IP Interface 'eth1' ------Interface State : disabled Note that 'eth1' is not used for the 3Com IP Conferencing Module. ----- Configuring DNS Servers ------Enter DNS servers one at a time. When done, enter 0.0.0.0 to stop. Primary DNS Server [192.168.1.1] : 10.25.10.31 Secondary DNS Server [192.168.1.2] : 10.26.10.31 Tertiary DNS Server [0.0.0.0] : 0.0.0.0 ----- Configuring DNS Search Path ------Press Enter to leave the current path unchanged, or specify a new search path, with spaces separating each entry. DNS Search Path []: yourcompany.com ----- Configuring Network Time Protocol ------Enter NTP servers one at a time. When done, enter 0.0.0.0 to stop. Primary NTP Server [192.168.1.253] : 10.35.10.51 Secondary NTP Server [192.168.1.252] : 10.36.10.51 Additional NTP Server : 10.1.0.3 ----- Configuring Time Zone -----Please select a geographic location from the following list: 1. Africa 2. Americas 3. Antarctica 4. Arctic Ocean 5. Asia 6. Atlantic Ocean 7. Australia

8. Europe

9. Indian Ocean
10. Pacific Ocean
Enter continent [2] :

#### Press the Enter or Return key to accept 2 as the suggested answer.

Pleas	se select a country fro	om tl	ne following list:		
1.	Antigua & Barbuda	18.	Ecuador	35.	Panama
2.	Anguilla	19.	Grenada	36.	Peru
3.	Netherlands Antilles	20.	French Guiana	37.	St Pierre & Miquelon
4.	Argentina	21.	Greenland	38.	Puerto Rico
5.	Aruba	22.	Guadeloupe	39.	Paraguay
6.	Barbados	23.	Guatemala	40.	Suriname
7.	Bolivia	24.	Guyana	41.	El Salvador
8.	Brazil	25.	Honduras	42.	Turks & Caicos Is
9.	Bahamas	26.	Haiti	43.	Trinidad & Tobago
10.	Belize	27.	Jamaica	44.	United States
11.	Canada	28.	St Kitts & Nevis	45.	Uruguay
12.	Chile	29.	Cayman Islands	46.	St Vincent
13.	Colombia	30.	St Lucia	47.	Venezuela
14.	Costa Rica	31.	Martinique	48.	Virgin Islands (UK)
15.	Cuba	32.	Montserrat	49.	Virgin Islands (US)
16.	Dominica	33.	Mexico		
17.	Dominican Republic	34.	Nicaragua		
Enter	r country [44] :				

Press the Enter or Return key to accept 44 as the suggested answer.

```
Please select a time zone from the following list:
 1. Alaska Time
 2. Alaska Time - Alaska panhandle
 3. Alaska Time - Alaska panhandle neck
 4. Alaska Time - west Alaska
 5. Aleutian Islands
 6. Central Time
 7. Central Time - Michigan - Wisconsin border
 8. Central Time - North Dakota - Oliver County
 9. Eastern Standard Time - Indiana - Crawford County
10. Eastern Standard Time - Indiana - Starke County
11. Eastern Standard Time - Indiana - Switzerland County
12. Eastern Standard Time - Indiana - most locations
13. Eastern Time
14. Eastern Time - Kentucky - Louisville area
15. Eastern Time - Kentucky - Wayne County
16. Eastern Time - Michigan - most locations
17. Hawaii
18. Mountain Standard Time - Arizona
```

19. Mountain Time 20. Mountain Time - Navajo 21. Mountain Time - south Idaho & east Oregon 22. Pacific Time Enter zone [13] : Selected Time Zone: America/New\_York ------ CONFIGURATION SUMMARY ------DHCP state: disabled Hostname: conf01.yourcompany.com IP Address IP Interfaces: Device Network Mask Default Gateway eth0 10.20.30.60 255.255.0.0 10.20.30.254 (interface is disabled) eth1 DNS Servers: 10.25.10.31 10.26.10.31 Search Domains: yourcompany.com NTP Servers: 10.35.10.51 10.36.10.51 10.1.0.3 Time Zone: America/New York \_\_\_\_\_ \_\_\_\_\_ Is all of the above information correct? [yes] : \_\_\_\_\_ Please wait while the wizard completes. Saving configuration...Done.

#### **End of Network Configuration**

The network configuration is complete. If necessary, you can re-run this portion of the script by entering vcx-config-network -wizard.

#### **Start of System Configuration**

After successful completion of the network configuration, the script will prompt you to select a set of services.

----- Select System Configuration -----

Individual systems may provide various services in a VCX installation.You must select the appropriate set of services which this system is to provide. Be certain that the selection corresponds to the functionality you have purchased.

Which services will this system provide?

- 1. Presence and Conference all in one
- 2. Conferencing server
- 3. Conferencing and database server
- 4. Data server for presence and conferencing
- 5. Presence server (with database)

Enter your choice (1-5) : 1

Select "1" to install the following components:

- conference server
- conference attendant server
- presence server
- web server
- NBX user database
- conference & presence database.

You have chosen to configure this system to provide:

Presence and Conference - all in one

Note that in order for these services to work, you must have purchased an appropriate license and installed the corresponding license activation key on this system.

\*\*\* WARNING \*\*\* Once you confirm your selection, you cannot change it.

Are you absolutely certain that you wish to configure this system as an 'Presence and Conference - all in one' server? If you answer 'no' here you can choose an alternative configuration.

Confirm selection? [no] : y

Confirm your selection by typing "y."

Selection confirmed.

```
*** Assembling VCX.2.9.3 using 'VSBOM.xml' ***
*** Processing components ***
*** Executing assembly commands ***
*** Assembly complete ***
The VCX assembly has been created. Preparing system for use:
Performing early startup tasks: [ OK ]
Starting VCX-Firewall: [ OK ]
Starting httpd:
Removing unneeded application components from the system.
This may take several minutes. Please wait while the operation completes.
Determining which packages are not used by any VCX version:
 oem.7.0.1
                                          : [keep; used in 2.9.3]
presconf.2.5.3
                                          : [keep; used in 2.9.3]
presconf-conf.2.5.3
                                          : [keep; used in 2.9.3]
presconf-presence.2.5.3
                                         : [keep; used in 2.9.3]
presconf-vcxdb.2.5.3
                                         : [keep; used in 2.9.3]
presconf-web.2.5.3
                                          : [keep; used in 2.9.3]
 vcx-firewall.1.5.5
                                         : [keep; used in 2.9.3]
mysql.3.23.58
                                          : [keep; used in 2.9.3]
```

No extra packages were found.

#### **End of System Configuration**

The system configuration is complete. If necessary, you can re-run this portion of the script by entering vcx-setconfigtype.

#### Start of E-mail (sSMTP) Configuration

After successful completion of the system configuration, the script will prompt you to set up the e-mail notification utility. The utility sends e-mails when conferences are created and modified, and when users attempt to add contacts to their buddy lists. E-mail notification works

once users have added their e-mail addresses to the 3Com IP Conferencing Module.

Configuration for sSMTP

(1) mailhub This is the computer responsible for handling your outgoing mail. It could be the SMTP server of your ISP, or a departmental mailhub. Use the fully-qualified domain name (foo.bar.baz) of the mailhub; if it uses an unusual SMTP port number, use the colon syntax

foo.bar.baz:2525

Otherwise sSMTP will use the standard SMTP port number (25). (Note that sSMTP can support a user-dependent mailhub with the 'reverse aliases' feature, for which see the man page.)

Please enter your mailhub []: mail.yourcompany.com

Enter the fully qualified domain name of the computer handling outgoing mail.

#### (2) FromLineOverride

This specifies how sSMTP handles the From: line of outgoing mail. If FromLineOverride=YES, sSMTP will leave the From: line alone if it already exists. If FromLineOverride has any other value, or there is no From: line, sSMTP creates the From: line using your username (or the -f command-line option), and the value of the rewriteDomain option (step (4), below). If you use a mail user agent (MUA; e.g. mutt, pine) I recommend using YES and having the MUA set the From: line. (Exception: the 'reverse aliases' feature can be used to set up a particular From: address for each user, in which case don't use FromLineOverride=YES. See the man page.)

FromLineOverride? [YES]:

Specify how sSMTP handles the From: line of outgoing mail.

#### (3) hostname

sSMTP uses the hostname of your computer to identify itself to the mailhub, and in the Received: headers of the outgoing mail. This has relatively little effect on how the mail is handled. Use the fully-qualified domain name (FQDN) of your computer(foo.bar.baz). If it doesn't have a FQDN, use some name for your box.

Hostname of your box [conf01.yourcompany.com]:

Enter the host name of your computer handling outgoing mail.

(4) rewriteDomain
Please enter the mail name of your system.
sSMTP uses this value to add a domain to unqualified e-mail addresses(addresses
without an @-sign).

You probably want to use the domain from your own e-mail address.You probably want to set up your MUA to handle unqualified addresses itself, in which case sSMTP will never have to use this.

Mail name [conf01.yourcompany.com]:yourcompany.com

Enter the mail name of your system.

(5) root

Last and least: if sSMTP finds an unqualified e-mail address among the recipients, and it corresponds to a username on your local machine with a userid less than 1000, then the e-mail is sent to this value instead. The idea is that mail sent to 'root' should probably go to 'postmaster' instead.

If you set up your MUA to do its own handling of unqualified addresses, this is irrelevant. Use the default value of 'postmaster' or your own e-mail address if you're paranoid.

System users receive mail at [postmaster]:postmaster

Enter the system user e-mail address.

Note: check with your e-mail administrator for the proper system user e-mail address.

Wrote configuration file /etc/ssmtp/ssmtp.conf

Starting mysqld daemon with databases from /opt/3comdata/mysql Tcl is already installed Tcl version is 8.3 Please report any installation problem to "3Com Support" <support@3com.com>

#### End of E-mail (sSMTP) Configuration

The e-mail configuration is complete. If necessary, you can re-run this portion of the script by entering usr/sbin/smtp-configure.

#### Start of Database Configuration

After successful completion of the e-mail configuration, the script will prompt you to select a database configuration.

There are different ways to install and access the database. 1 Local Master: this server will have the master database. 2 Local Slave: this server will have a slave database. 3 Remote database: database is on another server. Please choose one of the above options: 1

Select "1" to specify that this server will initially host the master database (All-in-one server, or primary server in a distributed system).

Available applications: sipconf, sipvxml, gui, vcxdb, sippeng,

## **End of Database Configuration**

The database configuration is complete. If necessary, you can re-run this portion of the script by entering presconf-setup.

## Start of IP Conferencing Module Configuration

After successful completion of the database configuration, the script will prompt you to select an initial configuration.

Enter the fully qualified hostname for this installation.
[host.yourcompany.com]:

Enter the fully qualified hostname of the machine you are installing on.

Assuming the userid of the administrator who will manage the applications for your domain is root

Enter the administrator's email address. [sipadmin@yourcompany.com]: Assuming default value as sipadmin@yourcompany.com

Enter the administrator's e-mail address. The default is derived from the hostname defined in the network configuration (above).

If the system is configured to send e-mail notification of conference events to users, the e-mails will appear to be sent from the administrator (sipadmin@yourcompany.com). Note that some mail agents may require this to be a valid e-mail address.

Host Identifier (hostid) of this machine is: 75896dc20fa90922ddbb2b81

Please send an email to vcxconf@3com.com to receive an activation key to activate this product.

Please enter the software activation keys one by one; end with an empty line:

Send the host ID to 3Com, which will use it to generate your activation keys. Once 3Com has returned the activation keys to you, you can paste them into the install session when prompted.

The activation keys are validated as they are entered. If validation is successful, the keys will be stored in a license file and the installation session will continue. If validation is unsuccessful, the installation session will be aborted.

```
Enter key:
sipconf:-:+:2006-11-11:2006-11-11:300-300-1-1-1:124b4835f1a6e9a172f4ba6596fe1f85
key ok for sipconf
Enter key: sipvxml:-:+:2006-11-11:2006-11-11:50-50:b4acb4c5415c8005d0b8bd737f8a1d5b
key ok for sipvxml
Enter key: sippeng:-:+:2006-11-11:2006-11-11:-:dcdb0531a90ffbf027786aa0a4732a98
key ok for sippeng
Enter key:
License file name: /opt/3com/components/presconf.2.5.3/presconf licenses
Validating the license for sipconf application ...
The license key
sipconf:-:+:2006-11-11:2006-11-11:300-300-1-1-1:124b4835f1a6e9a172f4ba6596fe1f85 is
valid
Validating the license for sipvxml application ...
The license key
sipvxml:-:+:2006-11-11:2006-11-11:50-50:b4acb4c5415c8005d0b8bd737f8ald5b is valid
Validating the license for sippeng application ...
The license key
sippeng:-:+:2006-11-11:2006-11-11:-:dcdb0531a90ffbf027786aa0a4732a98 is valid
MySQL is needed for your application.
mysql is found at /opt/3com/VCX/bin/mysql
Assuming mysql is already installed
Enter the mysql user name for accessing the master database. [root]:
Assuming default value as root
Enter the host name on which the master database is running. [localhost]:
Assuming default value as localhost
Enter the mysql password for user root at localhost. [NULL]:
Assuming default value as NULL
The SIP conferencing server will be running at conf01.yourcompany.com:5060
```

The Conference Attendant Server will be running at conf01.yourcompany.com:5092

The range of the numeric conference names must be specified

Enter the minimum value for numeric conference names. [8000]:

Enter the minimum value for numeric conference names. Default is 8000.

Enter the maximum value for numeric conference names. Note that it must have the same number of digits as the minimum value. :

Enter the maximum value for numeric conference names.

For conference server, the prefix of ad hoc conference can be specified Enter the prefix for ad hoc conference. [2join]:

Enter the prefix for ad hoc conferences.

Enter the prefix for group call conferences. [777]: Value entered by user is: 777

Enter the prefix for group calls.

Enter the IP address of the primary dialout proxy: Value entered by user is: 10.1.15.5

Enter the IP address of the primary NBX system used for DTMF dialout during conferences.

Enter the IP address of the secondary dialout proxy: Assuming default value as

Enter the IP address of the secondary NBX system used for DTMF dialout during conferences.

Enter the digitmap for DTMF dialout.[[1-7]XX|9XXXXXXXXXX|91XXXXXXXX|9011.XT]: Assuming default value as [1-7]XX|9XXXXXXXXX|91XXXXXXX|9011.XT

Enter the digit map used to define the dial plan for DTMF dialout.

Several lines of text appear before the next prompt.

-- Creating cinema\_db.conf

-- Changing permissions of all the files in /opt/3com/components/presconf.2.2.2.190 to 755.

-- Trying to load fbsql.so...

-- fbsql is loaded...

-- Opening the database sql://root:NULL@localhost/mysql

-- Changing permissions for conf01.yourcompany.com -- Changing permissions for localhost -- Changing permissions for conf01.yourcompany.com -- Changing permissions for conf01.yourcompany.com -- Changing permissions for conf01.yourcompany.com -- Flushing privleges -- Calling createdb \*\*\* Checking table vxml users \*\*\* Creating table vxml users \*\*\* Checking table put \*\*\* Creating table put \*\*\* Checking table aliases \*\*\* Creating table aliases \*\*\* Checking table about \*\*\* Creating table about \*\*\* Checking table requestlog \*\*\* Creating table requestlog \*\*\* Checking table gwclass \*\*\* Creating table gwclass \*\*\* Checking table debug config \*\*\* Creating table debug config \*\*\* Checking table personnote \*\*\* Creating table personnote \*\*\* Checking table confatt record \*\*\* Creating table confatt record \*\*\* Checking table dialplan \*\*\* Creating table dialplan \*\*\* Checking table radius config \*\*\* Creating table radius config Cannot select database sip: Error 1049 (Unknown database 'sip') \*\*\* Checking table display \*\*\* Creating table display \*\*\* Checking table domain \*\*\* Creating table domain \*\*\* Checking table sipd log \*\*\* Creating table sipd log \*\*\* Checking table conferences \*\*\* Creating table conferences \*\*\* Checking table eventattendee \*\*\* Creating table eventattendee \*\*\* Checking table user config \*\*\* Creating table user config \*\*\* Checking table cinema \*\*\* Creating table cinema \*\*\* Checking table address \*\*\* Creating table address

\*\*\* Checking table confinstances \*\*\* Creating table confinstances \*\*\* Checking table person \*\*\* Creating table person \*\*\* Checking table conf log \*\*\* Creating table conf log \*\*\* Checking table agendaitem \*\*\* Creating table agendaitem \*\*\* Checking table Rooms \*\*\* Creating table Rooms \*\*\* Checking table resource \*\*\* Creating table resource \*\*\* Checking table conffiles \*\*\* Creating table conffiles \*\*\* Checking table event \*\*\* Creating table event \*\*\* Checking table acl \*\*\* Creating table acl \*\*\* Checking table license \*\*\* Creating table license \*\*\* Checking table vote \*\*\* Creating table vote \*\*\* Checking table presence conf \*\*\* Creating table presence conf \*\*\* Checking table eventresource \*\*\* Creating table eventresource \*\*\* Checking table speed dial \*\*\* Creating table speed dial \*\*\* Checking table vcxdb conf \*\*\* Creating table vcxdb conf \*\*\* Checking table RoomACL \*\*\* Creating table RoomACL \*\*\* Checking table Cards \*\*\* Creating table Cards \*\*\* Checking table groupmember \*\*\* Creating table groupmember \*\*\* Checking table subscription \*\*\* Creating table subscription \*\*\* Checking table messageboard \*\*\* Creating table messageboard \*\*\* Checking table confsrv config \*\*\* Creating table confsrv config \*\*\* Checking table ua\_capabilities \*\*\* Creating table ua capabilities \*\*\* Checking table trusted host \*\*\* Creating table trusted host

\*\*\* Checking table vmail \*\*\* Creating table vmail \*\*\* Checking table tariff \*\*\* Creating table tariff \*\*\* Checking table RoomPrefs \*\*\* Creating table RoomPrefs \*\*\* Checking table contacts \*\*\* Creating table contacts \*\*\* Checking table ConfigData \*\*\* Creating table ConfigData \*\*\* Checking table confservers \*\*\* Creating table confservers \*\*\* Checking table eventcategory \*\*\* Creating table eventcategory \*\*\* Checking table user presence \*\*\* Creating table user\_presence \*\*\* Checking table location tuples \*\*\* Creating table location tuples \*\*\* Checking table Credentials \*\*\* Creating table Credentials \*\*\* Checking table mail account \*\*\* Creating table mail account \*\*\* Checking table eventgroup \*\*\* Creating table eventgroup \*\*\* Checking table eventgroup notify \*\*\* Creating table eventgroup notify \*\*\* Checking table gateway map \*\*\* Creating table gateway map \*\*\* Checking table confusers \*\*\* Creating table confusers \*\*\* Checking table thirdparty \*\*\* Creating table thirdparty \*\*\* Checking table election \*\*\* Creating table election \*\*\* Checking table persongroup \*\*\* Creating table persongroup \*\*\* Checking table sipd\_config \*\*\* Creating table sipd config \*\*\* Checking table ssl config \*\*\* Creating table ssl\_config -- createdb is complete -- \*IMPORTANT\*: Adding administrator root@yourcompany.com with password root -- Database is successfully initialized.

MYSQL host is localhost MYSQL user is root Enter the IP address of the VCX Data Server: 10.20.30.40

Enter the IP address of the NBX data server that contains the global directory of users to be downloaded to this IP Conferencing Module.

Enter the username for VCX DB Sync: vcx

Enter the username for NBX database synchronization.

Enter the password for VCX DB Sync: vcx

Enter the password for NBX database synchronization. The password does not echo on the screen.

Do users on this VCX have their home presence server on this installation  $(y/n)\,?\,[y]$  : Assuming the default value as y

Enter no [n] if the NBX data server containing the global directory of users (see above) is not a local NBX for this installation.

# 10.20.30.40 SSH-1.99-OpenSSH\_3.6.1p2
# 10.20.30.40 SSH-1.99-OpenSSH\_3.6.1p2

OK

now testing if we can connect to the 10.20.30.40  $_{\rm VCX}$ 

updating the configuration database entries 3Com IP Conferencing Module applications will be automatically restarted when system reboots

-- Installing SIP Conferencing servers ...

-- Changing permissions of all the files in /opt/3com/components/presconf.2.5.3.
-- Changing owner and permissions of /opt/3com/components/presconf.2.5.3/sipconf/sipconf. restarting httpd...

Creating a directory client\_config to hold the soft client autoconfiguration files...

Directory created successfully at

/opt/3com/components/presconf.2.5.3/client\_config
Any files that you store in this directory are accessible via
http://master.yourcompany.com/3c3/<CONFIGFILENAME>.xml

If you have not already entered the license string during installation you must do so from the web interface before trying to run any application in 3Com software.

You may start, stop and monitor the 3Com IP Conferencing Module applications using the following command(s): > service <application> start|stop|status|restart Else, you may do so using the web interface. Your installation is complete. To add new user or to change your profile visit appropriate URL corresponding to /opt/3com/components/presconf.2.5.3/qui. Once again, Please report any installation problem to "3Com Support" <support@3com.com> \* Output, from this install session, was saved to: \* /opt/3com/components/presconf.2.5.3/install\_log.Dec\_07\_2005 \*\*\*\*\* Would you like to start the 3Com IP Conferencing Module services now? (N/Y) [N]: **y** Select "Y" to complete the installation and start the 3Com IP Conferencing Module services. Select "N" (the default) to complete the installation but not start the services. Validating configuration file Configuration file is valid for this release. Applying configuration to all unconfigured components Configuring VCX components: Configuring vcx-firewall-firstboot: [ OK ] Configured VCX components: 1 configured. Component configuration succeeded. Stopping VCX-Firewall: [ OK ] Starting VCX-Firewall: [ OK ] Starting VCX Services: Starting vcx/mysgl: [ OK ] Starting vcx/confbridge: [ OK ] Starting vcx/sipconf: [ OK ]

Starting vcx/sippeng: [ OK ]									
Starting vcx/vcxdb:	[ OK ]								
Started VCX Services: -bash-2.05b#	5 started.								
	End of IP Conferencing Module Configuration								
	Following succe Module service command, she	essful co s will be Il comm	omplet e instal and, o	ion of led. Sta r web	the sci art the interfa	ript, th servic ace sele	e 3Com es using ection (a	IP Confe a script s noted a	erencing above).
Post Installation Configuration	Before the 3Cc	Before the 3Com IP Conferencing Module can be used, the system must							
	<ul> <li>Create Rout</li> </ul>	es to th	ne:						
	Confere	nce Serv	ver						
	<ul> <li>Conference</li> </ul>	nce Atte	endant						
	<ul> <li>Add Trustec</li> </ul>	I SIP Inte	erfaces						
	<ul> <li>Configure t</li> </ul>	he IP Co	onferer	icing N	/Iodule	2			
	<ul> <li>Test the E-m</li> </ul>	nail Noti	ificatio	n Setup	Э.				
Set up Routes	You must prog and the confer	ram the ence at	NBX d tendan	ial plar t serve	n with r.	routes	to the c	onferend	ce server
	For information on how to program the NBX dial plan, see the <i>3Com NBX Administrator's Guide</i> .								
	To create route	s to the	e confei	rence s	erver/	confere	ence atte	endant s	erver:
1	Using a browse besgroup).	Using a browser, log in to the NBX system as admin (default password is besgroup).							
2	Program the dirange 8000 to	git sequ 8999, e	ience fo enter:	or conf	erence	es. For	example	, to prog	ram the
	Command	ID	Entry	Digit	Min	Max	Class	Priority	Route
	TableEntry Create	e 1	32	8	4	4	Internal	0	8



Different conference types may require different routes. For example, if users dial the prefix 76 to call Ad Hoc conferences and 74 to call other conferences, then one route is required for dial pattern 76 and another is required for dial pattern 74.

**3** Program the Conference Attendant extension number. For example, to program extension 7501, enter:

Command	ID	Entry	Digit	Min	Max	Class	Priority	Route
TableEntry Create	1	33	7501	4	4	Internal	0	8

**4** Program a route for conferences. For example:

Command	Route	Description
DestinationRoute Create	8	Conferences

**5** Program a destination route entry for the NBX extension of the 3Com IP Conferencing Module. For example:

Command	Route	Entry	DestinationExtension
DestinationRouteEntry Create	8	1	7500

Add Trusted SIP Interfaces Trusted SIP Interfaces may be SIP gateways, other NBX systems, 3Com VCX telephone systems, Call Processors, or other trusted interfaces. Each interface you add and how you configure it affects your device licensing. Each audio path trusted end point requires one system device license.

You do not add telephones as trusted interfaces. For information about how to add 3Com telephones and generic SIP telephones to the NBX SIP mode system, see the *NBX Administrator's Guide*.

To add or modify a trusted SIP interface:

- 1 See the *NBX Administrator's Guide* for more information about the details in these steps.
- **2** Log in to the NBX NetSet utility using the administrator login ID and password.
- **3** Click SIP Applications > Trusted SIP Interfaces.
- **4** Click *Add* to add a new trusted interface or click an extension from the list to modify that trusted interface.
- **5** See the online Help for detailed information about each field.

**Configuring the IP** The IP Conferencing Module supports two types of Meet-Me **Conferencing Module** conferences:

- Public Public conferences are dial-in conferences in which a caller can dial a conference extension and connect directly to the conference.
- Restricted Restricted conferences are secure conferences. Callers must authenticate themselves before the system allows them to join a conference. The system connects a caller to the IP Conferencing Module Attendant, which requires the caller to provide a Conference ID and a password.

Use the NBX NetSet utility to configure IP Conference Server and Conference Attendant settings:

- 3Com Conferencing servers use different UDP ports for Restricted and Public conferences. Therefore, you must configure these ports separately in the NBX NetSet utility.
- You must configure a dedicated conference extension to enable callers to connect to the IP Conferencing Module Attendant.
- Each conference you add is a trusted SIP interface, which the system includes in the Trusted SIP Interfaces list.
- You must edit your dial plan to complete the 3Com IP Conferencing Module configuration.

To configure IP Conference Server:

- 1 See the *NBX Administrator's Guide* for more information about the details in these steps.
- **2** Log in to the NBX NetSet utility using the administrator login ID and password.
- **3** Click SIP Applications > 3Com IP Conferencing Module.
- **4** Type the extension that the system uses for IP Conferencing. This extension must be an unused extension on the system in the range of external extensions, which is defined as 6000-7999 by default in a 4-digit dial plan. You must use a different extension from the one you use to configure the Conference Attendant settings.
- **5** Type a description for the IP Conferencing Module.
- **6** Type the IP address for the IP Conferencing Module.

**7** Type a port number. A SIP endpoint is identified by the IP and port combination.

Port 5060 is set as the default during installation and typically does not need to be changed.

- **8** Type the maximum number of simultaneous sessions. Each session requires one system device license. See the *NBX Administrator's Guide* for more information.
- 9 Click OK or Apply to save your changes.

When you click *Apply*, the system adds a trusted endpoint. Click *SIP Applications > Trusted SIP Interfaces* to verify.

**10** Configure the dial plan.

You must add an extension list to the dial plan to support routing of extensions to the conference server or edit the extension list, if one has already been created.

To configure the settings of the Conference Attendant for restricted conferences:

- 1 See the *NBX Administrator's Guide* for more information about the details in these steps.
- **2** Log in to the NBX NetSet utility using the administrator login ID and password.
- **3** Click *SIP Applications* > *3Com IP Conferencing Module,* and then click the Conference Attendant Settings tab.
- **4** Type the extension that the system uses for IP Conferencing. This extension must be an unused extension on the system in the range of external extensions, which is defined as 6000-7999 by default in a 4-digit dial plan. You must use a different extension from the one you used to configure the IP Conference Server settings.
- **5** Type a description for the IP Conferencing Module.
- **6** Type the IP address for the IP Conferencing Module.
- **7** Type a port number. A SIP endpoint is identified by the IP and port combination.

Port 5092 is the port number defined in the IP Conferencing server for running the Conference Attendant.

- **8** Type the maximum number of simultaneous sessions. Each session requires one system device license.
- 9 Click OK or Apply to save your changes.

When you click Apply, the system adds a trusted endpoint. Click *SIP Applications > Trusted SIP Interfaces* to verify.

**10** Configure the dial plan. You must add an extension list to the dial plan to support routing of extensions to the conference server or edit the extension list if one has already been created.

## **Dial Plan and 3Com IP Conferencing Module Configuration**

You must configure the dial plan to complete the 3Com IP Conferencing Module configuration. The following procedure describes the process.

- 1 See the *NBX Administrator's Guide* for more information about the details in these steps.
- **2** Add an extension list to the dial plan to support routing of extensions to the 3Com IP Conferencing Module.

For example, you can define the 3Com IP Conferencing Module extension list as follows:

/	Route	Desci	ription
/			
DestinationRoute Create	900	Confe	erence
/	Route	Entry	DestinationExtension
/ DestinationRouteEntry Create	9	1	*0900

/ Extension List \*0900 holds the internal extension of 3Com IP Conferencing Module

**3** Create a route entry in the dial plan for the dialed-in digits the telephone user of the 3Com IP Conferencing Module enters.

For example, using the extension list created in Step 1, the entry below shows a dial-in that begins with 900.

/	ID	Entry	Digits	Min	Max	Class PrioRoute
/						
Table Entry Create	1	6	900	3	3	internal0900

Therefore, if the caller dials 900, the system receives the extension of the 3Com IP Conferencing Module and the port number for the private conference from the dial plan. The system can route the call to the 3Com IP Conferencing Module.

## **3Com Public IP Conferencing Module Configuration**

You must configure the dial plan to complete the 3Com Public IP Conferencing Module configuration. The dial plan uses the private conference dial plan if it is configured; otherwise, you need to configure the dial plan for Public conference.

The only change required is in the dial plan prefix entry table because in a Public conference, you need to define a range of extensions rather than a single extension.

For example, using the above configuration and taking the case that the extensions range from 700-799, the table entry can be as follows:

/	ID	Entry	Digits	Min	Max	Class PrioRoute
/						
Table Entry Create	1	7	7	3	3	internal0900

If the caller dials 700, the system receives the extension of 3Com IP Conferencing Module and the port number for the Public conference from the dial plan. The system can route the call to the 3Com IP Conferencing Module.

**Test E-Mail** Run the following test to ensure that the e-mail setup works correctly. **Notification Setup** 

- 1 Log in to the server as **root**.
- **2** At the prompt, enter:

```
/usr/sbin/sendmail user@domain.com
From: sender@domain.com
To: user@domain.com
Subject: test e-mail
[blank line]
test1
test1
test1
3 Ctrl-D
```

	Be aware that most Mail Transfer Agents (MTAs) require valid To: and From: addresses.					
	If the user fails to red /opt/logs/vcx-l the E-Mail setup aga	eive the e-mail message, check for errors in inux/maillog. After resolving the problem, run in.				
Upgrade Installation	Software upgrades a and vcx-switchversio operating system to software packages. T with the software pa	re completed by running two scripts: install-upgrade n. The install-upgrade script upgrades the VCX Linux the latest version (if necessary) and installs the The vcx-switchversion script provisions the system ickages.				
	It is possible to upgra server is designated a	ade from Apps 2.0 to Apps 3.0 provided that the as either an all-in-one or primary server.				
Sample install-upgrade Script	To run the install-up	grade script:				
1	Untar the software fi	les and add them to a directory on the server.				
2	Log in to the server a	as <b>root</b> .				
3	Enter a password (de	fault is pvadmin).				
4	Go to the directory v	vhere the software files are located.				
5	Press <b>Enter</b> (or Retur	n).				
-bash-2.05b# ./install	-upgrade					
	Enter ./install-upgra	<b>ade</b> at the command prompt.				
	Start of install-upg	rade Script				
	VCX Upgrade I	nstaller				
	Pre-Installati	on Checks				
Checking that required	files are present					
Checking which package	s are needed					
3ComInstall-1.1-1.nc vcx-firewall-1.5.5-1 mysql-3.23.58-1.i386	arch.rpm .noarch.rpm .rpm	: already present : needed : already present				

```
presconf-2.5.13-1.i386.rpm
                                        : needed
                                       : needed
 presconf-conf-2.5.13-1.i386.rpm
                                       : needed
 presconf-presence-2.5.13-1.i386.rpm
 presconf-vcxdb-2.5.13-1.i386.rpm
                                        : needed
 presconf-web-2.5.13-1.i386.rpm
                                       : needed
 oem-a-7.0.1-2.i386.rpm
                                        : needed
Checking for available disk space ...
 Determining required space: ..... Done.
 Required space : 33581 K
 Available space : 59679580 K
  There is sufficient disk space.
----- OS Installation -----
OS file to install : vcx-linux-4.4.0-111505.000
Target OS partition : 'A', device /dev/sda2
Replacing version : 3.2.4
Continue with OS installation? [yes] :
Installing partition image on /dev/sda2.
partimage: status: initializing the operation
partimage: status: reading partition informations
partimage: status: copying used data blocks
partimage: status: commiting buffer cache to disk.
/dev/sda2: 39554/251392 files (0.1% non-contiguous), 117820/502023 blocks
resize2fs 1.32 (09-Nov-2002)
The filesystem on /dev/sda2 is now 526128 blocks long.
tune2fs 1.32 (09-Nov-2002)
Setting maximal mount count to -1
Setting interval between check 15552000 seconds
Updating fstab files.
Configuring GRUB boot loader...Done.
Transferring configuration data.
Checking kernel configuration:
... Selecting standard kernel
Done.
Copying configuration files:
hosts
passwd
 group
 resolv.conf
 ntp.conf
 modules.conf
```

```
sysconfig/network
 sysconfig/hwconf
 sysconfig/network-scripts/ifcfg-eth0
 sysconfig/network-scripts/ifcfg-eth1
 .vcx-config-network
 ssmtp/revaliases
 ssmtp/ssmtp.conf
 ssh/ssh config
 ssh/sshd config
 ssh/ssh host key
 ssh/ssh_host_key.pub
 ssh/ssh host dsa key
 ssh/ssh host dsa key.pub
 ssh/ssh host rsa key
 ssh/ssh host rsa key.pub
httpd/conf/ssl.key/server.key
 httpd/conf/ssl.crt/server.crt
Done.
Copying user specific SSH files:
 /root/.ssh
Done.
Setting console speed to 9600: Done.
Configuring timezone: Done.
Transferring cron entries:
Done.
Migrating CUPS configuration: Done.
Updating /usr/sbin/vcx-switchversion: Done.
Updating /usr/sbin/vcx-showmachineid: Done.
Updating /usr/sbin/vcx-licensequery: Done.
Updating /usr/sbin/vcx-licenseinstall: Done.
Updating /usr/sbin/vcx-updatecfg: Done.
Updating /usr/sbin/vcx-createcfg: Done.
Configuration transfer completed successfully.
----- Package Installation -----
Installing 7 packages...
 vcx-firewall-1.5.5-1.noarch.rpm
                                     : OK
                                       : OK
 presconf-2.5.13-1.i386.rpm
 presconf-conf-2.5.13-1.i386.rpm
                                      : OK
: OK
 presconf-presence-2.5.13-1.i386.rpm
                                       : OK
 presconf-vcxdb-2.5.13-1.i386.rpm
 presconf-web-2.5.13-1.i386.rpm
                                       : OK
 oem-a-7.0.1-2.i386.rpm
                                        : OK
7 packages installed.
----- Final Assembly -----
Installing assembly package ...
```

## End of install-upgrade Script

Record the version number that appears at the end of the install-upgrade script. You will need it to run the next script (the system provisioning script).

#### Sample vcx-switchversion Script

Run the switchversion script after completing the install-upgrade script for a software upgrade. This script provisions the system with the latest software application packages.



The vcx-switchversion script takes the system out of service for several minutes. Accordingly, run the script during a period of low system activity.

To run the switchversion script:

- 1 Log in to the server as **root**.
- 2 Enter a password (default is pvadmin).
- **3** Go to the directory where the software files are located.
- 4 Press Enter (or Return).

#### -bash-2.05b# vcx-switchversion 2.9.3

Enter **vcx-switchversion <version-number>** at the command prompt. For **<version-number>**, enter the VCX version number that appeared at the end of the install-upgrade script.

## Start of vcx-switchversion Script

```
-bash-2.05b# vcx-switchversion 2.9.13
Checking if VCX can switch to VCX.2.9.13
ls: /opt/3com/VCX.2.9.13/scripts/upgrade/C??*: No such file or directory
Checking os versions: YES
Switching VCX to VCX.2.9.13:
...setting up
...checking if this is a VCX 5.X upgrade: no
...checking if existing configuration file is valid for new version.
...copying existing configuration file.
```

...selecting operating system partition The currently active OS is 'B', OS version 3.3.1 Selecting OS installation 'A', OS version 4.4.0 Configuring GRUB boot loader...Done. Version switch complete. Rebooting to start new version.

Broadcast message from root (pts/0) (Tue Dec 20 11:21:43 2005):

The system is going down for reboot NOW!

#### End of vcx-switchversion Script



If upgrading from release 2.0 to release 3.0, you will be required to add new activation keys (license keys).

## Managing the Activation Keys

If you have purchased new applications, or need to increase the number of users on your system, then you may need to upgrade your activation keys (license keys). Each system has a unique system host ID that is used in the generation of activation keys.

Before upgrading the activation keys, first ensure that the VCX Linux operating system and the 3Com IP Conferencing Module software is installed. Then do the following:

- 1 Using a browser, log in to the 3Com IP Conferencing Module as root.
- 2 Select Admin > System Config from the menu bar.
- **3** From quick links, select **Licensing Information**. The License Information screen appears, listing the system's activation keys and host ID.

Figure 2 License Information

Application	<u>Domain</u> Hostid	<u>Expiration</u> <u>date</u>	<u>Update expiry</u> <u>date</u>	Features	Hash value	Delete?	
sipconf	3conf.com +	2005-12-14	2005-12-14	300-100-1-1- 1	5bc8512e8fb6dc80913487a66dd8b43c	È	
sippeng	3conf.com +	2005-12-14	2005-12-14	-	e83dflca6f15805d7alb0fae9c79c69f	ê	
sipvzml	3conf.com +	2005-12-14	2005-12-14	-	242eaa6d9d7ac5d2e911324fb9f7f6fa	ê	
hostid of this machine is: "3157ecf668ffcb7dc7f00e4c" Enter the complete license string here, e.g., sipd:example.com:+i::2005-12:31:encrypted-text-for-verification							
						Add	

- **4** To delete an activation key, press  $\stackrel{\textcircled{1}}{=}$  .
- **5** To add an activation key:

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- **a** Send the host ID (located at the bottom of the screen) to 3Com.
- **b** When 3Com returns the new activation key, paste it into the license string box and press **Add**.

You can also determine the system host ID with a Linux command:

- 1 Log in to the server as **root**.
- 2 At the prompt, enter cd /opt/3com/VCX/presconf/tools/license
- 3 Enter ./hostid

The Host ID is displayed. For example: 3157ecf668ffcb7dc7f00e4c



Please note that the ./hostid command you enter in the license directory is not the same as the hostid command normally used with Linux (/usr/bin/hostid).

#### 46 CHAPTER 2: INSTALLATION SCRIPTS

## OBTAINING SUPPORT FOR YOUR PRODUCT

Register Your Product	Warranty and other service benefits start from the date of purchase, so it is important to register your product quickly to ensure you get full use of
	the warranty and other service benefits available to you.
	Warranty and other service benefits are enabled through product registration. Register your product at http://eSupport.3com.com/. 3Com eSupport services are based on accounts that you create or have authorization to access. First time users must apply for a user name and password that provides access to a number of eSupport features including Product Registration, Repair Services, and Service Request. If you have trouble registering your product, please contact 3Com Global Services for assistance.
Purchase Value-Added Services	To enhance response times or extend warranty benefits, contact 3Com or your authorized 3Com reseller. Value-added services like 3Com Express <sup>SM</sup> and Guardian <sup>SM</sup> can include 24x7 telephone technical support, software upgrades, onsite assistance or advance hardware replacement. Experienced engineers are available to manage your installation with minimal disruption to your network. Expert assessment and implementation services are offered to fill resource gaps and ensure the success of your networking projects. More information on 3Com maintenance and Professional Services is available at http://www.3com.com/
	Contact your authorized 3Com reseller or 3Com for a complete list of the value-added services available in your area.

Troubleshoot Online	You will find support tools posted on the 3Com web site at <pre>http://www.3com.com/</pre>
	<b>3Com Knowledgebase</b> helps you troubleshoot 3Com products. This query-based interactive tool is located at <pre>http://knowledgebase.3com.com</pre> and contains thousands of technical solutions written by 3Com support engineers.
Access Software Downloads	<b>Software Updates</b> are the bug fix / maintenance releases for the version of software initially purchased with the product. In order to access these Software Updates you must first register your product on the 3Com web site at http://eSupport.3com.com/
	First time users will need to apply for a user name and password. A link to software downloads can be found at <a href="http://esupport.3com.com/">http://esupport.3com.com/</a> , or under the Product Support heading at <a href="http://www.3com.com/">http://www.3com.com/</a> , or
	<b>Software Upgrades</b> are the software releases that follow the software version included with your original product. In order to access upgrades and related documentation you must first purchase a service contract from 3Com or your reseller.
Telephone Technical Support and Repair	To enable telephone support and other service benefits, you must first register your product at <a href="http://esupport.3com.com/">http://esupport.3com.com/</a>
	Warranty and other service benefits start from the date of purchase, so it is important to register your product quickly to ensure you get full use of the warranty and other service benefits available to you.
	When you contact 3Com for assistance, please have the following information ready:
	<ul> <li>Product model name, part number, and serial number</li> </ul>
	<ul> <li>Proof of purchase, if you have not pre-registered your product</li> </ul>
	<ul> <li>A list of system hardware and software, including revision level</li> </ul>
	<ul> <li>Diagnostic error messages</li> </ul>
	<ul> <li>Details about recent configuration changes, if applicable</li> </ul>

To send a product directly to 3Com for repair, you must first obtain a return authorization number (RMA). Products sent to 3Com, without authorization numbers clearly marked on the outside of the package, will be returned to the sender unopened, at the sender's expense. If your product is registered and under warranty, you can obtain an RMA number online at http://esupport.3com.com/. First time users will need to apply for a user name and password.

## **Contact Us** 3Com offers telephone, e-mail and internet access to technical support and repair services. To access these services for your region, use the appropriate telephone number, URL or e-mail address from the list below.

Telephone numbers are correct at the time of publication. Find a current directory of contact information posted on the 3Com web site at http://csoweb4.3com.com/contactus/

Country	Telephone Number	Country	Telephone Number	
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Australia Hong Kong	1 800 678 515 800 933 486	Philippines	1235 61 266 2602 or 1800 1 888 9469	
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Indonesia	000800 650 1111	Si Korea	080 333 3308	
Japan	00531 616 439 or 03 3507 5984	Taiwan Thailand	00801 611 261 001 800 611 2000	
Malaysia	1800 801 777			
New Zealand	0800 446 398			
Pakistan	+61 2 9937 5083			
You can also obtain sunne	ort in this region using the foll	owing o-mail: any toch	nicol current@?com com	

You can also obtain support in this region using the following e-mail: apr\_technical\_support@3com.com

Or request a repair authorization number (RMA) by fax using this number: + 65 543 6348

#### Europe, Middle East, and Africa Telephone Technical Support and Repair

From anywhere in these +44 (0)1442 435529 regions, call:

From the following countries, you may use the numbers shown:

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France	0825 809 622	Portugal	707 200 123
Germany	01805 404 747	South Africa	0800 995 014
Hungary	06800 12813	Spain	9 021 60455
Ireland	1407 3387	Sweden	07711 14453
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## Latin America Telephone Technical Support and Repair

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Bahamas	1 800 998 2112	Jamaica	1 800 998 2112
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Costa Rica	AT&T +800 998 2112	Trinidad and Tobago	1 800 998 2112
Curacao	1 800 998 2112	Uruguay	AT&T +800 998 2112
Ecuador	AT&T +800 998 2112	Venezuela	AT&T +800 998 2112
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Spanish speakers, enter the URL:

http://lat.3com.com/lat/support/form.html

Portuguese speakers, enter the URL:

http://lat.3com.com/br/support/form.html

English speakers in Latin America should send e-mail to: lat support anc@3com.com

#### US and Canada Telephone Technical Support and Repair

1 800 876 3266

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