



ErisStation[®] Conference Phone with Bluetooth VCS752

Administrator and Provisioning Manual



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PREFACE

Congratulations on your purchase of this VTech product. Please thoroughly read this manual for all the feature operations and troubleshooting information necessary to install and operate your new VTech product. You can also visit our website at businessphones.vtech.com or call **1 (888) 370-2006**.

This administrator and provisioning manual contains detailed instructions for installing and configuring your VCS752 SIP Conference Phone with Bluetooth and DECT Accessories with software version 1.1.5.x or newer. See *"Using the Status menu" on page 20* for instructions on checking the software version on the VCS752. Please read this manual before installing the product.

Please print this page and record the following information regarding your product:

Model number: VCS752

Type: Small to medium business SIP-endpoint conference phone

Serial number: _____

Purchase date: _____

Place of purchase: _____

Both the model and serial numbers of your VTech product can be found on the bottom of the console.

Save your sales receipt and original packaging in case it is necessary to return your telephone for warranty service.

Text Conventions

Table 1 lists text formats and describes how they are used in this guide.

Table 1. Description of Text Conventions

Text Format	Description
Screen	Identifies text that appears on a device screen or a WebUI page in a title, menu, or prompt.
HARD KEY or DIAL-PAD KEY	Identifies a hard key, including the dial-pad keys.
CallFwd	Identifies a soft key.
 NOTE	Notes provide important information about a feature or procedure. Example of a Note.
 CAUTION	<i>A caution means that loss of data or unintended circumstances may result.</i> Example of a Caution.

Audience

This guide is written for installers and system administrators. It assumes that you are familiar with networks and VoIP, both in theory and in practice. This guide also assumes that you have ordered your IP PBX equipment or service and selected which PBX features you want to implement. This guide references specific IP PBX equipment or services only for features or settings that have been designed for a specific service. Please consult your equipment supplier or service provider for recommended switches, routers, and firewall and NAT traversal settings, and so on.

As the VCS752 SIP Conference Phone with Bluetooth and DECT Accessories becomes certified for IP PBX equipment or services, VTech may publish interop guides for those specific services. The interop guides will recommend second-party devices and settings, along with VCS752-specific configurations for optimal performance with those services. For the latest updates, visit our website at businessphones.vtech.com.

Related Documents

The **VCS752 Quick Start Guide** contains a quick reference guide to the VCS752 external features and brief instructions on connecting the VCS752 to a working IP PBX system.

The **VCS752** contains a quick reference guide, full installation instructions, instructions for making and receiving calls, and a guide to all user-configurable settings.

The documents are available from our website at businessphones.vtech.com.

CHAPTER 1

INTRODUCING THE VCS752

This administrator and provisioning guide contains detailed instructions for configuring the VCS752 SIP Conference Phone with Bluetooth and DECT Accessories. Please read this guide before attempting to configure the VCS752.

Some of the configuration tasks described in this chapter are duplicated in the Web User Interface (WebUI) described in the next chapter, but if you need to assign static IP addresses, they must be set at each device.

This chapter covers:

- [“About the VCS752 conference phone” on page 9](#)
- [“Quick Reference Guide” on page 10](#)
- [“Network Requirements” on page 12](#)
- [“VCS752 Configuration Methods” on page 13](#)
- [“Adding a Custom Logo” on page 14](#)
- [“Customizing Soft Keys” on page 16.](#)

About the VCS752 conference phone

The VTech VCS752 SIP Conference Phone with Bluetooth and DECT Accessories is a conference phone designed to work with popular SIP telephone (IP PBX) equipment and services. Once you have ordered and configured your SIP equipment or service, the VCS752 enables you to make and receive calls as you would with any other business phone. In addition to its speakerphone and conferencing features, the VCS752 provides calling features like hold, transfer and speed-dial numbers.

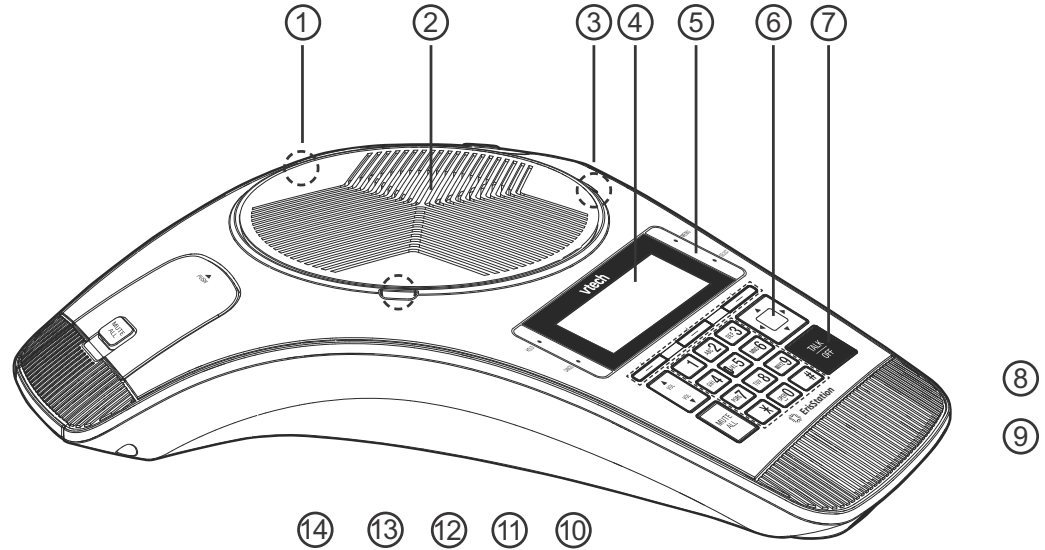
The VCS752 conference phone features include:

- 2.5-inch backlit Liquid Crystal Display
- Bluetooth and DECT connectivity for cell phones and headsets
- Up to 3 SIP account registrations
- Up to 6 active SIP sessions
- 3-way conferencing
- 200-entry Call Log

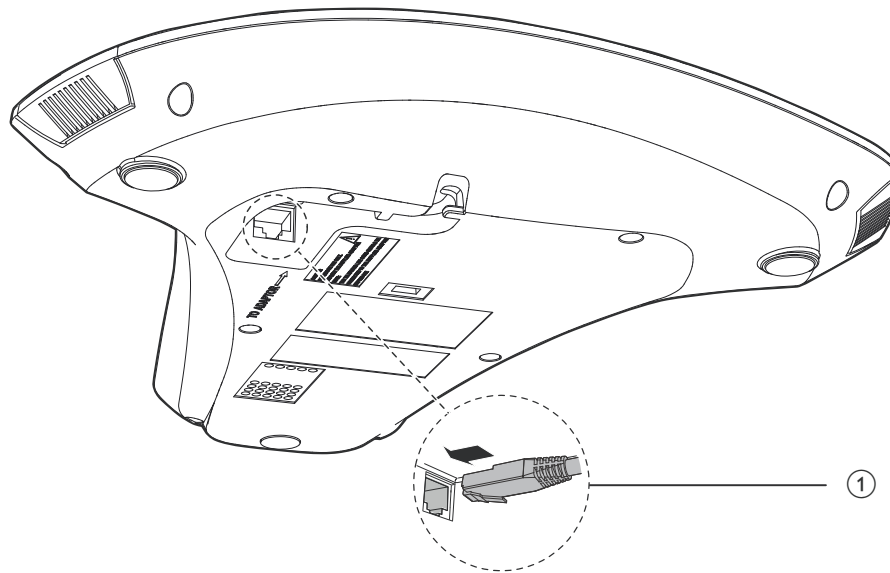
You can configure the VCS752 using the menus on the phone, a browser-based interface called the WebUI, or an automatic provisioning process (see [“Provisioning Using Configuration Files” on page 84](#)). The WebUI enables you to configure the VCS752 using a computer that is connected to the same Local Area Network. The WebUI resides on the VCS752, and may get updated with firmware updates.

Quick Reference Guide

The external features of the VCS752 conference phone are described below.



- | | |
|---|---------------------------------------|
| 1. Status indicator | 2. Speaker |
| 3. Cell 2/Headset status indicator | 4. LCD screen |
| 5. MENU/SELECT | 6. Navigation keys |
| 7. TALK/OFF key | 8. Dial pad keys |
| 9. Front microphone | 10. MUTE ALL |
| 11. VOL key (ringer volume and listening volume) | 12. Soft keys |
| 13. HOLD/CANCEL key | 14. Cell 1 Bluetooth Status indicator |



1. USB port (power and network)

Network Requirements

A simple VCS752 SIP Conference Phone with Bluetooth and DECT Accessories installation example is shown in Figure 1. A switched network topology is recommended for your LAN (using standard 10/100 Ethernet switches that carry traffic at a nominal rate of 100 Mbit/s).

The office LAN infrastructure should use Cat.-5/Cat.-5e cable.

The VCS752 requires a wired connection to the LAN. However, wireless connections from your LAN to other devices (such as laptops) in your office will not impede performance.

A Dynamic Host Configuration Protocol (DHCP) server is recommended and must be on the same subnet as the VCS752 conference phones so that IP addresses can be auto-assigned. In most cases, your network router will have a DHCP server. By default, the VCS752 has DHCP enabled for automatic IP address assignment.



Some DHCP servers have default settings that limit the number of network IP addresses assigned to devices on the network. You should log in to your server to confirm that the IP range is sufficient.

If no DHCP server is present, you can assign a static IP to the VCS752. You can assign a static IP address using the VCS752 menu. To assign a static IP, go to **Admin settings > Network setting > Set static IP**. If you do not have a DHCP server or do not manually assign static IPs, you will not be able to access the WebUI and/or enable automatic time updates from an NTP server.

A DNS server is recommended to resolve the path to the Internet and to a server for firmware and configuration updates. If necessary, the system administrator can also download upgrade files and use the WebUI to update the VCS752 firmware and/or configuration settings manually.

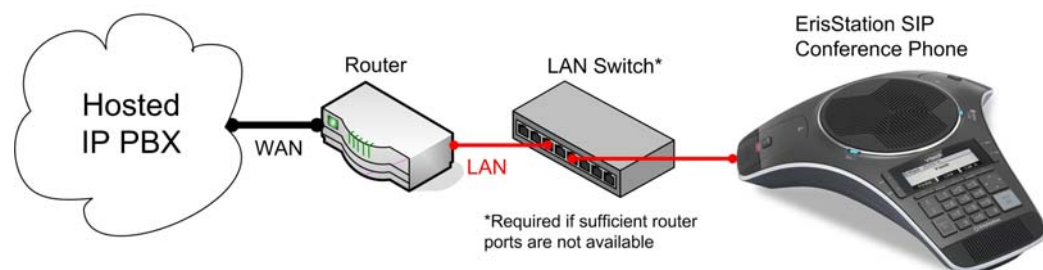


Figure 1. VCS752 Installation Example

VCS752 Configuration Methods

You can configure the VCS752 using one of the following methods:

- From the VCS752 itself, using the menus. The VCS752 menus are best suited to configuring a few settings, perhaps after the initial setup has been done. For administrators, the settings available on the VCS752 menus include network settings, account settings, and provisioning settings. See [“Using the Admin Settings Menu” on page 23](#). Many of the settings accessible on the VCS752 are most useful for end users. Through the menu, they can customize the screen appearance, sounds, and manage calls. For more information, see the VCS752 User Guide.
- The Web User Interface, or WebUI, which you access using your Internet browser. See [“Using the WebUI” on page 29](#). The browser-based interface is easy to navigate and best suited to configuring a large number of VCS752 settings at once. The WebUI gives you access to every setting required for configuring a single device. You can enter service provider account settings on the WebUI, and set up provisioning, which will allow you to automatically and remotely update the VCS752 after initial configuration.
- Provisioning using configuration files. Working with configuration files allows you to configure the device at regular intervals. There are several methods available to enable the VCS752 to locate and upload the configuration file. For example, you can enable the VCS752, when it starts up or reboots, to check for the presence of a configuration file on a provisioning server. If the configuration file is new or has been modified in any way, the VCS752 automatically downloads the file and applies the new settings. For more information, see [“Provisioning Using Configuration Files” on page 84](#).

Adding a Custom Logo

You can upload a custom logo to be displayed on the phone idle screen and during bootup. Uploading a logo is done using the configuration file. The parameters for uploading a custom logo are described in [“Uploading a custom logo” on page 15](#). The default logo for bootup and idle mode is the **vtech** logo.



Idle screen logo behavior

The behavior described below is disabled by default.

You can enable the logo to appear instead of the idle screen after a specified period of inactivity. The parameter for setting the delay before the logo appears is in the General configuration file. See [“user_pref.idle_to_logo_timeout” on page 126](#).

You can enable the phone screen to cycle between the logo and the idle screen when the phone is in idle mode by setting both the `user_pref.idle_to_logo_timeout` and the `user_pref.logo_to_idle_timeout` parameters. See [“user_pref.logo_to_idle_timeout” on page 126](#).

Logo specifications

The file type and dimensions for the logo are listed below.

File type: Monochrome bitmap (.bmp)

Dimensions (w × h): Idle screen and bootup logo: 158 × 57 pixels

Positioning a custom logo on the screen is a matter of creating a logo with the maximum dimensions listed above, including any surrounding white space. Note that the width of the logo specified in the table above is the same as the width of the VCS752 screen (158 pixels). There are no configuration file settings to specify the x-axis or y-axis position of the logo on the screen.

Uploading a custom logo

The `file.bootup_logo` and `file.idle_logo` parameters in the configuration file allow you to upload a custom bootup logo and custom idle logo. Place the logos on your server and enter the URL for each logo for the `file.idle_logo` and `file.bootup_logo` parameters.

If the downloaded logo is found to be invalid, the syslog will record one of the following errors:

- file not found
- invalid file format
- incorrect image size
- image is not in black and white

Custom logo user interactions

For VCS752 users, pressing any hard key will exit the idle logo and perform the key's function. For example, pressing **MENU** will show the Main Menu.

Pressing a soft key when the idle logo is showing will switch to the idle screen.

Customizing Soft Keys

The configuration file allows you to select which soft keys can appear on the Idle screen, the Active Call screen, the Held Call screen and the Live Dial screen. You can also specify the position of each soft key.

Some soft keys appear only under certain conditions. For example, the Line soft key on the Idle screen appears only if there is more than one registered SIP account. When a "conditional" soft key is not visible, the soft key's position is left empty.

Soft key levels with no soft keys will not be shown if there are multiple soft key levels (as indicated by the ◀ and ▶ icons). Any soft key level where all soft keys are invisible will be dynamically skipped when the user navigates through the available levels. On the VCS752, a soft key level consists of three soft keys (populated or blank) in a row.

Table 2 shows the soft key options available for each screen. Each screen can have a maximum of nine soft keys.

For the custom soft key configuration file parameters, see ["softkey" Module: Custom Soft Key Settings](#) on page 142.

Custom soft key configuration file settings



You cannot edit soft key text. The configuration file parameters allow you to only select and position the soft keys for each screen.

Table 2. Custom Soft Keys

Screen	Available Soft Keys	Soft Key Text
Idle	Blank	
	Directory	Directory
	Call Log	Call Log
	Redial	Redial
	Messages	Message
	Do Not Disturb	DND
	Call Forward	CallFwd
	Call Forward All	FwdAll
	Call Forward No Answer	CFNA
	Call Forward Busy	FwdBusy
	Intercom	Intercom
	Retrieve Parked Call	Retrieve
	Call Return	CallBack
	Group Call Pickup	GrpPickup

Table 2. Custom Soft Keys

Screen	Available Soft Keys	Soft Key Text
	Direct Call Pickup	DirPickup
	Line (visible with more than one account assigned)	Line
	Settings	Settings
	Bluetooth connect	Connect
	Bluetooth device 1	Device 1
	Bluetooth device 2	Device 2
	Program Dial (up to three Program Dial keys)	[Custom]
Call Active	Blank	
	New	New
	Park Call	Park
	End	End
	Hold	Hold
	Transfer	Transfer
	Conference	Conf
	XferLine (visible with more than one call)	XferCall
	ConfLine (visible with more than one call)	ConfCall
	Private hold	Priv hold
	Bluetooth connect	Connect
	Bluetooth device 1	Device 1
	Bluetooth device 2	Device 2
	Program Dial (up to three Program Dial keys)	[Custom]
Call Held	Blank	
	End	End
	New	New
	Park Call	Park
	Retrieve Parked Call	Retrieve
	Group Call Pickup	GrpPickup
	Direct Call Pickup	DirPickup
	Resume	Resume

Table 2. Custom Soft Keys

Screen	Available Soft Keys	Soft Key Text
	Transfer	Transfer
	Conference	Conf
	XferLine (visible with more than one call)	XferCall
	ConfLine (visible with more than one call)	ConfCall
	Program Dial (up to three Program Dial keys)	[Custom]
Live Dial	Blank	
	Directory	Directory
	Call Log	Call Log
	Redial	Redial
	Messages	Message
	End	End
	Dial	Dial
	Input (letter/number selection)	123
	Cancel	Cancel
	Backspc	Backspc
	Bluetooth connect	Connect
	Bluetooth device 1	Device 1
	Bluetooth device 2	Device 2
	Program Dial (up to three Program Dial keys)	[Custom]

The custom soft keys parameters are included in the "softkey" module. For more information, see ["softkey" Module: Custom Soft Key Settings on page 142](#). To modify a soft key parameter, enter values separated by commas. Soft keys appear on the phone screen in the same order as the soft key values you enter. For example, the parameter/value combination of `softkey.idle = line,dir,settings` will result in the Idle screen shown below:

11:09am 01/25/14		
Line 1		
Line	Directory	Settings

CHAPTER 2

CONFIGURATION USING THE PHONE MENUS

The VCS752 Main Menu has the following sub-menus:

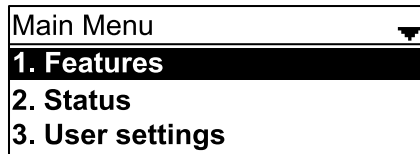
- **Features**—manage calls and Bluetooth devices, view and add directory entries, view call history, access messages, and use the speed dial menu.
- **Status**—view the VCS752 network status, account registration status, and product information.
- **User Settings**—allows the user to set the language for the display, configure the appearance of the display, edit programmable keys, register wireless microphones and DECT speakers, register a DECT headset and customize the audio settings.
- **Admin settings**—configure network settings (enter static IP addresses, for example), account settings and provisioning settings.

This chapter contains instructions for using the Admin Settings menu and for accessing the Status menu. See the VCS752 User Guide for more information about the Features menu and User Settings menu.

Viewing the Main Menu

To use the VCS752 menu:

1. When the VCS752 is idle, press **MENU**.
The **Main Menu** appears.



2. Press ▼ or ▲ to highlight the desired sub-menu, and then press **SELECT**.
 - You can also press a corresponding dial pad key to select a numbered menu item. Press 2 to view the **Status** menu, for example.
 - Press **SELECT** or an appropriate soft key to save changes.
 - Press **CANCEL** to cancel an operation, exit the menu display or return to the idle screen.

Using the Status menu

Use the **Status** menu to verify network settings and begin troubleshooting if network problems or account registration issues affect operation.

You can also find the software version of the VCS752 on the **Product Info** screen, available from the **Status** menu.

To view the Status menu:

1. When the VCS752 is idle, press **MENU**.
2. On the **Main Menu**, press ▲ or ▼ to highlight **Status**, and then press **SELECT**.
The **Status** menu appears.



3. On the **Status** menu, press ▲ or ▼ to highlight the desired menu, and then press **SELECT**.

The available status menus are listed in Table 3.

Table 3. Status menu summary

Menu	Information listed
1. Network	■ IP address ■ DHCP status (Enabled/Disabled) ■ Subnet Mask ■ Gateway IP address ■ DNS server 1 IP address ■ DNS server 2 IP address ■ SNTP server URL ■ MAC address
2. Line	Lines and registration status. On the Line menu, highlight and select the desired line to view detailed line status information: ■ Line status (Registered/Not registered) ■ Account display name ■ Account User ID ■ Registrar Server IP address ■ Registrar Server port number ■ Proxy server IP address ■ Proxy server port number
3. Product Info	■ Model number ■ Serial number ■ MAC address ■ Boot version ■ Firmware version ■ V-Series ■ Hardware version ■ EMC version

Viewing Line status

To view line status, from the **Status** menu, select **Line**. The **Line** menu lists the available lines, along with icons indicating each line's current registration status.

Line	
LINE 1	
LINE 2	
LINE 3	

Table 4. Line status icons

Icon	Description
	Line registered
	Line unregistered
	Line disabled

To view complete status information for a line:

- On the **Line** menu, press ▲ or ▼ to highlight the desired line, and then press **SELECT**. The full line status screen appears.

LINE 1	
Status:	Registered
Display name:	John Smith
User ID:	2325550176

Using the Admin Settings Menu

To access the Admin Settings menu:

1. When the VCS752 is idle, press **MENU**.
The **Main Menu** appears.

Main Menu
1. Features
2. Status
3. User settings

2. Press **▲** or **▼** to highlight **Admin settings**, and then press **SELECT**.

-or-

Press 4 (**Admin settings**) on the dial pad.

3. Use the dial pad to enter the admin password, and then press **Enter**. The default password is **admin** (press the **123** soft key to switch between text input options—lowercase letters, uppercase letters, and numbers).

The Admin settings are listed in Table 5.

Table 5. Admin setting summary

Setting	Options
1. Network setting	1. DHCP (Enabled, Disabled) 2. Set static IP 3. VLAN ID 4. Others
2. Line	1. LINE 1 2. LINE 2 3. LINE 3
3. Provisioning	1. Server 2. Login 3. Password
4. Reset to default	Press SELECT to display a screen that allows you to reset the phone to factory default settings.
5. Restart phone	Press SELECT to display a screen that allows you to restart the phone.

Using the Network Setting menu

Use the Network setting menu to configure network-related settings for the VCS752. For more information about these settings, see [“Basic Network Settings” on page 54](#) and [“Advanced Network Settings” on page 55](#).

To use the Network setting menu:

1. From the **Admin Settings** menu, press ▲ or ▼ to highlight **Network setting**, and then press **SELECT**.
The **Network setting** menu appears.

Network Setting ▼
1. DHCP
2. Set static IP
3. VLAN ID

2. Press ▲ or ▼ to highlight the desired option, and then press **SELECT**:
 - DHCP
 - Set static IP
 - VLAN ID
 - Others (DNS and NTP servers).

To enable or disable DHCP:

1. From the **Network setting** menu, press ▲ or ▼ to highlight **DHCP**, and then press **SELECT**.
The **DHCP** screen appears.

DHCP	
DHCP:	Enabled ◀▶
Cancel	Save

2. Press ◀ or ▶ to select **Enabled** or **Disabled**, and then press **Save**.

DHCP is enabled by default, which means the VCS752 will get its IP address from the network. When DHCP is disabled, you must enter a static IP address for the VCS752.



You must be familiar with TCP/IP principles and protocols to configure static IP settings.

To set static IP for the VCS752:

1. From the **Network setting** menu, press ▲ or ▼ to highlight **Set static IP**, and then press **SELECT**.

If DHCP is disabled, the **Set static IP** menu appears. If DHCP is enabled, an error message appears briefly before returning you to the **Network setting** menu.

2. On the **Set static IP** menu, enter the static IP address. Use the dial pad and the **Add dot** soft key to enter characters. Press ◀ or ▶ to advance to the next character.

Set static IP	
IP:	192.168.0.100
Subnet Mask:	255.255.255.0
Backspc	Add dot Save

3. Press ▼ and enter the Subnet Mask. Use the dial pad and the **Add dot** soft key to enter characters. Press ◀ or ▶ to advance to the next character.
4. Press ▼ and enter the Gateway. Use the dial pad and the **Add dot** soft key to enter characters. Press ◀ or ▶ to advance to the next character.
5. Press **Save** .

To set the VLAN ID for the VCS752:

1. From the **Network setting** menu, press ▲ or ▼ to highlight **VLAN ID**, and then press **SELECT**.
2. On the **VLAN ID** menu, press ◀ or ▶ to enable or disable the WAN VLAN.

VLAN ID	
WAN VLAN:	Disabled
WAN port:	0
Cancel	Save

3. Press ▼ and enter the WAN VID. Use the dial pad and the **Backspc** soft key to enter characters. The valid range is 0 to 4095.
4. Press **Save** .

To set other settings (DNS and NTP):

1. From the **Network setting** menu, press ▲ or ▼ to highlight **Others**, and then press **SELECT**.

If DHCP is disabled, the **Others** menu appears. If DHCP is enabled, an error message appears briefly before returning you to the **Network setting** menu.

Others		▼
DNS 1:	0.0.0.0	
DNS 2:	0.0.0.0	
Backspc	Add dot	Save

2. Enter the IP address for the primary DNS server. Use the dial pad and the **Add dot** soft key to enter characters. Press ◀ or ▶ to advance to the next character.
3. Press ▼ and enter the IP address for the secondary DNS server. The VCS752 uses this server if the primary server does not respond.
4. Press ▼ and enter the IP address for the NTP server. If the VCS752 does not use an NTP server, you must manually enter the time and date settings.
5. Press **Save** .

Using the Line menu

Use the **Line** menu to configure line-specific settings for the phone.

To use the Line setting menu:

- From the **Admin Settings** menu, press ▼ to highlight **Line**, and then press **SELECT**. The **Line** menu appears.

Line	▼
LINE 1	1
LINE 2	2
LINE 3	3

- Highlight the desired line, if necessary, by pressing ▼, and then press **SELECT**. The full configuration menu for that line appears.

LINE 1	▼
Account label: Line 1	
Display name: John Smith	
Backspc	123 Save

You can configure:

- Account label
- Display name
- User ID
- Authorization ID
- Authorization Password
- SIP Registrar Server IP
- Registrar Server port
- Proxy server IP
- Proxy server port
- Register (Yes or No)
- Answer page (Manual or Auto)

For more information about these settings, see [“SIP Account Management” on page 33](#).

- Edit the Line settings using the dial pad and the soft keys available for each setting:
 - **Backspc**—deletes a character
 - **123**—enables you to enter numbers, lower case letters, or upper case letters using the dial pad. The soft key does not appear when the setting accepts numbers only.
 - **Save**—saves and applies the new settings
 - **Edit**—enables you to edit the setting (appears for the Password setting)
- Press ◀ or ▶ to advance to the next character.

Using the Provisioning menu

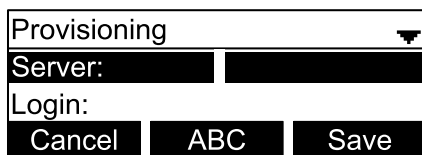
Use the Provisioning menu to configure auto-provisioning settings. For more information about auto-provisioning, see [“Provisioning” on page 73](#) and [“Provisioning Using Configuration Files” on page 84](#).

On the Provisioning menu you can configure:

- Server string—the URL of the provisioning server. The URL can include a complete path to the configuration file.
- Login ID—the username the VCS752 will use to access the provisioning server.
- Login PW—the password the VCS752 will use to access the provisioning server.

To use the Provisioning menu:

1. From the **Admin Settings** menu, press ▼ to highlight **Provisioning**, and then press **SELECT**.
The **Provisioning** menu appears.



2. Enter the server URL using the dial pad keys:
 - **Backspc**—deletes a character
 - **ABC**—enables you to enter numbers, lower case letters, or upper case letters with the dial pad. Does not appear when the setting accepts numbers only.
 - **Save**—prompts you to reboot the phone and apply the new settings
 - **Edit**—enables you to edit the setting (appears for the Password setting)

The format of the URL must be RFC 1738 compliant, as follows:

"<schema>://<user>:<password>@<host>:<port>/<url-path>"

"<user>:<password>@" may be empty.

"<port>" can be omitted if you do not need to specify the port number.

3. Press ▼ to move to the next line and enter the Login ID for access to the provisioning server if it is not part of the server string.
4. Press ▼ to move to the next line and enter the Login password.
5. Press **Save**.

CHAPTER 3

USING THE WEBUI

The WebUI allows you to configure all aspects of VCS752 conference phone operation, including account settings, network settings, contact lists, and provisioning settings. The WebUI is embedded in the VCS752 operating system. When you access the WebUI, you are accessing it on the device, not on the Internet.

This chapter describes how to access the WebUI and configure VCS752 settings. This chapter covers:

- [*"Using the Web User Interface \(WebUI\)" on page 30*](#)
- [*"Status Page" on page 32*](#)
- [*"System Pages" on page 33*](#)
- [*"Network Pages" on page 54*](#)
- [*"Contacts Pages" on page 57*](#)
- [*"Servicing Pages" on page 68.*](#)

Using the Web User Interface (WebUI)

The Web User Interface (WebUI) resides on the VCS752 conference phone. You can access it using an Internet browser. After you log in to the WebUI, you can configure the VCS752 on the following pages:

System

- SIP Account Management (see [page 33](#))
- Call Settings (see [page 44](#))
- User Preferences (see [page 46](#))
- Speed Dial (see [page 49](#))
- Signaling Settings (see [page 51](#))
- Ringer Settings (see [page 52](#))

Contacts

- Local Directory (see [page 57](#))
- Blacklist
- LDAP (see [page 63](#))
- Broadsoft (see [page 66](#))
- Call History (see [page 67](#))

Network

- Basic Network Settings (see [page 54](#))
- Advanced Network Settings (see [page 55](#))

Servicing

- Reboot (see [page 68](#))
- Time and Date (see [page 68](#))
- Firmware Upgrade (see [page 71](#))
- Provisioning (see [page 73](#))
- Security (see [page 79](#))
- Certificates (see [page 80](#))
- System Logs (see [page 82](#))

The WebUI also has a **System Status** page, where you can view network status and general information about the VCS752. The information on the Status page matches the **Status** menu available on the VCS752.

To access the WebUI:

1. Ensure that your computer is connected to the same network as the VCS752.
2. Find the IP address of the VCS752:
 - a. When the VCS752 is idle, press **MENU**.
 - b. Press ▼ to highlight **Status**, and then press **SELECT**.
 - c. With **Network** highlighted, press **SELECT**.
The **Network** status screen appears.
 - d. On the **Network** status screen, note the IP Address.

Network	
IP:	192.168.100.100
DHCP:	Enabled
Subnet Mask:	255.255.255.255

3. On your computer, open an Internet browser. (Depending on your browser, some of the pages presented here may look different and have different controls. Ensure that you are running the latest update of your preferred browser.)
4. Type the VCS752 IP address in the browser address bar and press **ENTER** on your computer keyboard.
The browser displays a window asking for your user name and password.
5. For the user name, enter **admin**. For the password, enter the default password, **admin**. You can change the password later on the WebUI **Security** page, available under **Servicing**.
6. Click **OK**.
The WebUI appears.

Click topics from the navigation bar along the top of the WebUI, and then click the links along the left to view individual pages. For your security, the WebUI times out after 10 minutes, so if it is idle for that time, you must log in again.

Most WebUI configuration pages have a  button. Click  to save changes you have made on the page. During a configuration session, click  before you move on to the next WebUI page.

The remaining procedures in this section assume that you are already logged into the WebUI.

**NOTE**

The settings tables in this section contain settings that appear in the WebUI and their equivalent settings in the configuration file template. You can use the configuration file template to create custom configuration files. Configuration files can be hosted on a provisioning server and used for automatically configuring phones. For more information, see [“Provisioning Using Configuration Files” on page 84](#).

Status Page

The WebUI System Status page is equivalent to the **Status** menu on the VCS752.

System Status

The System Status page shows:

- **General** information about your device, including model, MAC address, and firmware version
- **Account Status** information about your SIP account registration
- **Network** information regarding your device's network address and network connection

STATUS

System Status

STATUS

SYSTEM

NETWORK

CONTACTS

SERVICING

General

Model:

VCS752

Serial Number:

A5700002007

MAC Address:

14:AE:DB:19:E3:A4

Boot Version:

1.05

Software Version:

1.1.5.D

V-Series:

1.39.19-0-ENG

Hardware Version:

HW1.0

EMC Version:

Account Status

Account 1:

Registered

Account 2:

Registered

Account 3:

Not Registered

Network

LAN Port IP Address:

10.88.50.124

IP Type:

DHCP

Subnet Mask:

255.255.0.0

Link Status:

Connected

Gateway:

10.88.3.149

Primary DNS:

10.88.162.10

Secondary DNS:

10.88.162.6

Network Time Settings:

us.pool.ntp.org

System Pages

SIP Account Management

On the SIP Account Management pages, you can configure each account you have ordered from your service provider.

The SIP Account settings are also available as parameters in the configuration file. See [“sip_account” Module: SIP Account Settings](#) on page 93.

General Account Settings

SYSTEM	STATUS	SYSTEM	NETWORK	CONTACTS	SERVICING
SIP Account Management					
Account 1	SYSTEM ACCOUNT MANAGEMENT ACCOUNT 1				
Account 2					
Account 3					
Call Settings					
Account 1					
Account 2					
Account 3					
User Preferences					
Programmable Keys					
Program Dial 1					
Program Dial 2					
Program Dial 3					
Speed Dial					
Signaling					
Ringer					
Paging Zones					

General Account Settings	
☒ Enable Account	
Account Label:	Line 1
Display Name:	John Smith
User Identifier:	203
Authentication Name:	203
Authentication Password:	*****
Dial Plan:	x+P
Inter-Digit Timeout (secs):	3
Maximum Number of Calls:	6
Page Auto Answer:	Manual
Feature Synchronization:	Disable
DTMF Method:	Auto
Unregister After Reboot:	Disable

Click the link for each setting to see the matching configuration file parameter in [“Configuration File Parameter Guide”](#) on page 92. Default values and ranges are listed there.

Setting	Description
Enable Account	Enable or disable the SIP account. Select to enable.
Account Label	Enter the name that will appear on the VCS752 display when account x is selected.
Display Name	Enter the Display Name. The Display Name is the text portion of the caller ID that is displayed for outgoing calls using account x.
User identifier	Enter the User identifier supplied by your service provider. The User ID, also known as the Account ID, is a SIP URI field used for SIP registration. Note: Do not enter the host name (e.g. "@sipservice.com"). The WebUI automatically adds the default host name.

Setting	Description
Authentication name	If authentication is enabled on the server, enter the authentication name (or authentication ID) for authentication with the server.
Authentication password	If authentication is enabled on the server, enter the authentication password for authentication with the server.
Dial Plan	Enter the dial plan, with dialing strings separated by a symbol. See “Dial Plan” on page 35 .
Inter Digit Timeout (secs)	Sets how long the VCS752 waits after any "P" (pause) in the dial string or in the dial plan.
Maximum Number of Calls	Select the maximum number of concurrent active calls allowed for that account.
Page Auto Answer	When set to Auto, enables the VCS752 to automatically answer when a page is received. This is usually the desired behavior for paging.
Feature Synchronization	Enables the VCS752 to synchronize with Broadworks Application Server. Changes to features such as DND, Call Forward All, Call Forward No Answer, and Call Forward Busy on the server side will also update the settings on the VCS752 menu and WebUI. Similarly, changes made using the VCS752 or WebUI will update the settings on the server.
DTMF method	Select the default DTMF transmission method. You may need to adjust this if call quality problems are triggering unwanted DTMF tones or you have problems sending DTMF tones in general.
Unregister after reboot	Enables the phone to unregister the account(s) after rebooting-before the account(s) register again as the phone starts up. If other phones that share the same account(s) unregister unexpectedly in tandem with the rebooting VCS752, disable this setting.

Dial Plan

The dial plan consists of a series of dialing rules, or strings, that determine whether what the user has dialed is valid and when the VCS752 should dial the number.

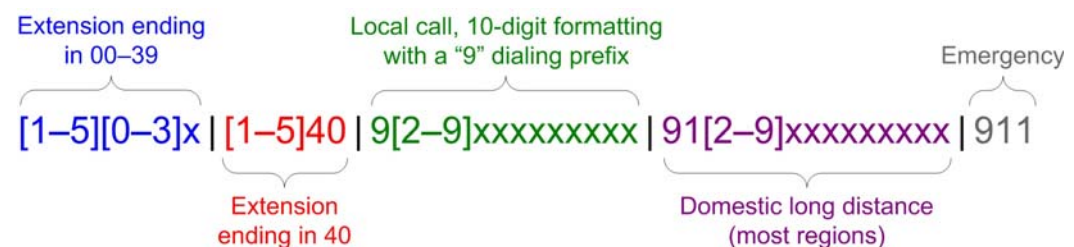


Numbers that are dialed when forwarding a call—when the user manually forwards a call, or a pre-configured number is dialed for Call Forward All, Call Forward–No Answer, or Call Forward Busy—always bypass the dial plan.

Dialing rules must consist of the elements defined in the table below.

Element	Description
x	Any dial pad key from 0 to 9, including # and *.
[0-9]	Any two numbers separated by a hyphen, where the second number is greater than the first. All numbers within the range are valid, excluding # and *.
x+	An unlimited series of digits.
,	This represents the playing of a secondary dial tone after the user enters the digit(s) specified or dials an external call prefix before the comma. For instance, "9,xxxxxxx" means the secondary dial tone is played after the user dials 9 until any new digit is entered. "9,3xxxxxx" means only when the digit 3 is hit would the secondary dial tone stop playing.
PX	This represents a pause of a defined time; X is the pause duration in seconds. For instance, "P3" would represent pause duration of 3 seconds. When "P" only is used, the pause time is the same as the Inter Digit Timeout (see "SIP Account Management" on page 33).
(0:9)	This is a substitution rule where the first number is replaced by the second. For example, "(4:723)xxxx" would replace "46789" with "723-6789". If the substituted number (the first number) is empty, the second number is added to the number dialed. For example, in "(:1)xxxxxxxxxx", the digit 1 is appended to any 10-digit number dialed.
	This separator is used to indicate the start of a new pattern. Can be used to add multiple dialing rules to one pattern edit box.

A sample dial plan appears below.



SIP Server Settings

	SIP Server
	Server Address: 10.88.25.60
	Port: 5060

Setting	Description
Server address	Enter the IP address or domain name for the SIP server.
Server port	Enter the port number that the SIP server will use.

Registration Settings

	Registration
	Server Address: 10.88.25.60
	Port: 5060
	Expiration (secs): 3600
	Registration Freq (secs): 10

Setting	Description
Server address	Enter the IP address or domain name for the registrar server.
Server port	Enter the port number that the registrar server will use.
Expiration	Enter the desired registration expiry time in seconds.
Registration Freq (secs)	Enter the desired registration retry frequency in seconds. If registration using the Primary Outbound Proxy fails, the Registration Freq setting determines the number of seconds before a registration attempt is made using the Backup Outbound Proxy.

Outbound Proxy Settings

	Outbound Proxy
	Server Address: Port: 5060

Setting	Description
Server address	Enter the IP address or domain name for the proxy server.
Server port	Enter the port number that the proxy server will use.

Backup Outbound Proxy Settings

Backup Outbound Proxy	
Server Address:	
Port:	5060

Setting	Description
Server address	Enter the IP address or domain name for the backup proxy server.
Server port	Enter the port number that the backup proxy server will use.

Audio Settings

Audio	
Ringer Tone:	1
Codec Priority 1:	G.711u
Codec Priority 2:	G.711a
Codec Priority 3:	G.729a/b
Codec Priority 4:	G.726
Codec Priority 5:	G.722
☐ Enable Voice Encryption (SRTP)	
☐ Enable G.729 Annex B	
Preferred Packetization Time (ms):	20

Setting	Description
Ringer Tone	Sets the ringer tone for incoming calls on the account.
Codec priority 1	Select the codec to be used first during a call.
Codec priority 2	Select the codec to be used second during a call if the previous codec fails.
Codec priority 3	Select the codec to be used third during a call if the previous codec fails.
Codec priority 4	Select the codec to be used fourth during a call if the previous codec fails.
Codec priority 5	Select the codec to be used fifth during a call if the previous codec fails.
Enable voice encryption (SRTP)	Select to enable secure RTP for voice packets.
Enable G.729 Annex B	When G.729a/b is enabled, select to enable G.729 Annex B, with voice activity detection (VAD) and bandwidth-conserving silence suppression.
Preferred Packetization Time (ms)	Select the packetization interval time.

Quality of Service

	Quality of Service	
	DSCP (voice):	46
	DSCP (signaling):	26

Setting	Description
DSCP (voice)	Enter the Differentiated Services Code Point (DSCP) value from the Quality of Service setting on your router or switch.
DSCP (signalling)	Enter the Differentiated Services Code Point (DSCP) value from the Quality of Service setting on your router or switch.

Signaling Settings

	Signaling Settings	
	Local SIP Port:	5060
	Transport:	UDP

Setting	Description
Local SIP port	Enter the local SIP port.
Transport	Select the SIP transport protocol: ■ TCP (Transmission Control Protocol) is the most reliable protocol and includes error checking and delivery validation. ■ UDP (User Datagram Protocol) is generally less prone to latency, but SIP data may be subject to network congestion. ■ TLS (Transport Layer Security)—the VCS752 supports secured SIP signalling via TLS. Optional server authentication is supported via user-uploaded certificates. TLS certificates are uploaded using the configuration file. See “file” Module: Imported File Settings on page 133 and consult your service provider.

Feature Access Codes Settings

If your IP PBX service provider uses feature access codes, then enter the applicable codes here.

Feature Access Codes	
Paging:	
Call Park:	
Parked Call Retrieval:	
Voicemail:	
DND ON:	
DND OFF:	
Call Forward All ON:	
Call Forward All OFF:	
Call Forward No Answer ON:	
Call Forward No Answer OFF:	
Call Forward Busy ON:	
Call Forward Busy OFF:	
Anonymous Call Reject ON:	
Anonymous Call Reject OFF:	
Anonymous Call ON:	
Anonymous Call OFF:	
Call Waiting ON:	
Call Waiting OFF:	
Group Call Pickup:	
Direct Call Pick Up:	

Setting	Description
Paging	Enter the paging access code.
Call Park	Enter the call park access code. Broadsoft provides a feature access code for the park feature. Asterisk/Metaswitch provides a parking lot extension number for the park feature. Enter the parking lot extension number here.
Parked Call Retrieval	Enter the call park retrieval access code. Broadsoft and Asterisk/Metaswitch provide a feature access code for park retrieval.
Voicemail	Enter the voicemail access code. The code is dialed when the user selects a line from the phone's Message menu.
DND ON	Enter the Do Not Disturb ON access code.
DND OFF	Enter the Do Not Disturb OFF access code.
Call Forward All ON	Enter the Call Forward All ON access code.
Call Forward All OFF	Enter the Call Forward All OFF access code.
Call Forward No Answer ON	Enter the Call Forward No Answer ON access code.
Call Forward No Answer OFF	Enter the Call Forward No Answer OFF access code.

Setting	Description
Call Forward Busy ON	Enter the Call Forward Busy ON access code.
Call Forward Busy OFF	Enter the Call Forward Busy OFF access code.
Anonymous Call Reject ON	Enter the Anonymous Call Reject ON access code.
Anonymous Call Reject OFF	Enter the Anonymous Call Reject OFF access code.
Anonymous Call ON	Enter the Anonymous Call ON access code.
Anonymous Call OFF	Enter the Anonymous Call OFF access code.
Call Waiting ON	Enter the Call Waiting ON access code.
Call Waiting OFF	Enter the Call Waiting OFF access code.
Group Call Pickup	Enter the Group Call Pickup code. Dialing the code enables the user to answer a call ringing at another VCS752 that is part of the same group.
Direct Call Pickup	Enter the Direct Call Pickup code. Dialing the code enables the user to answer a call ringing at another VCS752.

Voicemail Settings

Voicemail Settings

☐ Enable MWI Subscription

Mailbox ID:

Expiration (secs):

☐ Ignore Unsolicited MWI

☒ Enable Stutter Dial Tone

Setting	Description
Enable MWI Subscription	When enabled, the account subscribes to the "message summary" event package. The account may use the User ID or the service provider's "Mailbox ID".
Mailbox ID	Enter the URI for the mailbox ID. The phone uses this URI for the MWI subscription. If left blank, the User ID is used for the MWI subscription.
MWI subscription expiration	Enter the MWI subscription expiry time (in seconds) for account x.
Ignore unsolicited MWI	When selected, unsolicited MWI notifications—notifications in addition to, or instead of SUBSCRIBE and NOTIFY methods—are ignored for account x. If the VCS752 receives unsolicited MWI notifications, the Message Waiting LED will not light to indicate new messages. Disable this setting if: ■ MWI service does not involve a subscription to a voicemail server. That is, the server supports unsolicited MWI notifications. ■ you want the Message Waiting LED to indicate new messages when the VCS752 receives unsolicited MWI notifications.
Enable Stutter Dial Tone	Enables or disables the stutter dial tone for that account (indicating message(s) waiting) when the phone goes off hook.

NAT Traversal

NAT Traversal	
☐ Enable STUN	
Server Address:	
Port:	3478
☒ Enable UDP Keep-Alive	
Keep-Alive Interval (secs):	30

Setting	Description
Enable STUN	Enables or disables STUN (Simple Traversal of UDP through NATs) for account x. The Enable STUN setting allows the VCS752 to identify its publicly addressable information behind a NAT via communicating with a STUN server.
Server address	Enter the STUN server IP address or domain name.
Server port	Enter the STUN server port.
Enable UDP Keep-Alive	Enables or disables UDP keep-alives. Keep-alive packets are used to maintain connections established through NAT.
Keep-alive interval (secs)	Enter the interval (in seconds) for sending UDP keep-alives.

Music on Hold Settings

Music On Hold	
☐ Enable Local MoH	

Setting	Description
Enable Local MoH	Enables or disables a hold-reminder tone that the user hears when a far-end caller puts the call on hold.

Network Conference Settings

Network Conference	
☐ Enable Network Conference	
Conference URI:	

Setting	Description
Enable Network Conference	Enables or disables network conferencing for account x.
Conference URI	Enter the URI for the network bridge for conference handling on account x.

Session Timer

	Session Timer	
	☐ Enable Session Timer	
	Minimum value (secs):	90
	Maximum value (secs):	300
Save		

Setting	Description
Enable Session Timer	Enables or disables the SIP session timer. The session timer allows a periodic refreshing of a SIP session using the RE-INVITE message.
Minimum value (secs)	Sets the session timer minimum value (in seconds) for account x.
Maximum value (secs)	Sets the session timer maximum value (in seconds) for account x.

Call Settings

You can configure call settings for each account. Call Settings include Do Not Disturb and Call Forward settings.

The call settings are also available as parameters in the configuration file. See ["call_settings" Module: Call Settings](#) on page 129.

SYSTEM	STATUS	SYSTEM	NETWORK	CONTACTS	SERVICING
SIP Account Management Account 1 Account 2 Account 3 Call Settings Account 1 Account 2 Account 3 User Preferences Programmable Keys Program Dial 1 Program Dial 2 Program Dial 3 Speed Dial Signaling Ringer Paging Zones	SYSTEM CALL SETTINGS 1 General Call Settings ☐ Anonymous Call Reject ☐ Enable Anonymous Call Do Not Disturb ☐ Enable DND Incoming Calls: Show Call Forward ☐ Enable Call Forward Always Target Number: 249 ☐ Enable Call Forward Busy Target Number: 249 ☐ Enable Call Forward No Answer Target Number: 249 Delay: 6 rings Save				

General Call Settings

Setting	Description
Anonymous Call Reject	Enables or disables rejecting calls indicated as "Anonymous."
Enable Anonymous Call	Enables or disables outgoing anonymous calls. When enabled, the caller name and number are indicated as "Anonymous."

Do Not Disturb

Setting	Description
Enable DND	Turns Do Not Disturb on or off.
Incoming calls	When set to Show, the phone displays incoming call information while Do Not Disturb is on. When set to Reject, the phone rejects incoming calls without alerting the user.

Call Forward

Setting	Description
Enable Call Forward Always	Enables or disables call forwarding for all calls on that line. Select to enable.
Target Number	Enter a number to which all calls will be forwarded.
Enable Call Forward Busy	Enables or disables forwarding incoming calls to the target number if: ■ the number of active calls has reached the maximum number of calls configured for account x ■ Call Waiting Off is selected.
Target Number	Enter a number to which calls will be forwarded when Call Forward Busy is enabled.
Enable Call Forward No Answer	Enables or disables call forwarding for unanswered calls on that line.
Target Number	Enter a number to which unanswered calls will be forwarded.
Delay	Select the number of rings before unanswered calls are forwarded.

Preferences

On the Preferences page, you can configure some basic settings for the phone and set hold reminder and call waiting settings. The Preferences page is also available to phone users when they log on to the WebUI.

The preference settings are also available as parameters in the configuration file. See [“user_pref” Module: User Preference Settings](#) on page 126.

SYSTEM

SIP Account Management

Account 1

Account 2

Account 3

Call Settings

Account 1

Account 2

Account 3

User Preferences

Programmable Keys

Program Dial 1

Program Dial 2

Program Dial 3

Speed Dial

Signaling

Ringer

Paging Zones

STATUS **SYSTEM** **NETWORK** **CONTACTS** **SERVICING**

General User Settings

WebUI Language: English

Phone Language: English

Backlight Timer (secs): 30

Ringer Volume: Off

Call Hold Reminder

☒ Enable Call Hold Reminder Tone

Tone Interval (secs): 30

Call Waiting

☐ Call Waiting Off: Reject Incoming Call if already on a Call

☒ Call Waiting On: View Incoming Call if already on a Call

☒ Enable Call Waiting Tone

Tone Interval (secs): 30

Save

General User Settings

Click the link for each setting to see the matching configuration file parameter in [“Configuration File Parameter Guide”](#) on page 92. Default values and ranges are listed there.

Setting	Description
WebUI Language	Sets the language that appears on the WebUI.
Phone Language	Sets the language that appears on the phone. Other languages may be added in a future release.
Backlight Timer (secs)	Sets how long (in seconds) the screen backlight stays on after the last button press.
Ringer Volume	Sets the ringer volume for incoming calls. You can also use the VOLUME ▼ or ▲ keys on the VCS752.

Call Hold Reminder

Setting	Description
Enable Call Hold Reminder Tone	Enables or disables the call hold reminder tone. Select to enable.
Tone Interval (secs)	Sets the interval for the call hold reminder tone, in seconds.

Call Waiting

Setting	Description
Call Waiting Off	When selected, disables incoming call notifications when the user is already on a call. Incoming calls are rejected. Incoming callers hear a busy signal. When Call Waiting Off is selected, and Call Forward Busy is enabled, incoming calls are handled according to the Call Forward Busy setting.
Call Waiting On	When selected, enables incoming call notifications when the user is already on a call.
Enable Call Waiting Tone	Enables or disables the call waiting tone. Select to enable.
Tone Interval (secs)	Sets the interval for the call waiting tone, in seconds.

Program Dial Keys

The Program Dial feature allows phone users to dial numbers with a single press of a soft key. On the Program Dial pages, you can configure up to three Program Dial keys. Each key requires a label (short enough to fit in the soft key's area), an account and number that the key will dial, a location where the key will fit between the other soft keys, and the call modes during which the key will appear.

To enter program dial soft keys:

1. Enter the Program Dial key label. Labels that exceed the width of the soft key will end with ... when they appear on the phone.
2. Enter a value that the Program Dial key will dial.
3. Select an account that the Program Dial key will use.
4. Select the call modes for which you want the Program Dial key to appear.
5. Select the location for the Program Dial key for the selected call modes. You can place the key before another key, or place it last in the order.
6. Click [Save](#) .
7. Configure any additional Program Dial keys.

Speed Dial

On the Speed Dial page, you can enter up to 10 speed dial numbers. For each speed dial number you enter, you must assign the account on which the number will be dialed out.

To dial a speed dial number, press and hold the dial pad key that matches the speed dial entry number.



This menu duplicates the speed dial menu on the phone (**Main Menu > Features > Speed dial**). Entries that are entered and saved on the WebUI replace entries that were entered using the phone. Similarly, entries that are configured using the phone menu will update entries on the WebUI.

The speed dial key settings are also available as parameters in the configuration file. See [""speed_dial" Module: Speed Dial Settings" on page 131](#).

After entering information on this page, click [Save](#) to save it.

SYSTEM	STATUS	SYSTEM	NETWORK	CONTACTS	SERVICING																																												
Speed Dial																																																	
SYSTEM SIP Account Management Account 1 Account 2 Account 3 Call Settings Account 1 Account 2 Account 3 User Preferences Programmable Keys Program Dial 1 Program Dial 2 Program Dial 3 Speed Dial Signaling Ringer Paging Zones	<table border="1"> <thead> <tr> <th>Key</th> <th>Name</th> <th>Value</th> <th>Account</th> </tr> </thead> <tbody> <tr> <td>Key 1</td> <td>VSP735</td> <td>249</td> <td>Default ▼</td> </tr> <tr> <td>Key 2</td> <td>VSP600</td> <td>275</td> <td>Default ▼</td> </tr> <tr> <td>Key 3</td> <td></td> <td></td> <td>Default ▼</td> </tr> <tr> <td>Key 4</td> <td></td> <td></td> <td>Default ▼</td> </tr> <tr> <td>Key 5</td> <td></td> <td></td> <td>Default ▼</td> </tr> <tr> <td>Key 6</td> <td></td> <td></td> <td>Default ▼</td> </tr> <tr> <td>Key 7</td> <td></td> <td></td> <td>Default ▼</td> </tr> <tr> <td>Key 8</td> <td></td> <td></td> <td>Default ▼</td> </tr> <tr> <td>Key 9</td> <td></td> <td></td> <td>Default ▼</td> </tr> <tr> <td>Key 0</td> <td></td> <td></td> <td>Default ▼</td> </tr> </tbody> </table>					Key	Name	Value	Account	Key 1	VSP735	249	Default ▼	Key 2	VSP600	275	Default ▼	Key 3			Default ▼	Key 4			Default ▼	Key 5			Default ▼	Key 6			Default ▼	Key 7			Default ▼	Key 8			Default ▼	Key 9			Default ▼	Key 0			Default ▼
Key	Name	Value	Account																																														
Key 1	VSP735	249	Default ▼																																														
Key 2	VSP600	275	Default ▼																																														
Key 3			Default ▼																																														
Key 4			Default ▼																																														
Key 5			Default ▼																																														
Key 6			Default ▼																																														
Key 7			Default ▼																																														
Key 8			Default ▼																																														
Key 9			Default ▼																																														
Key 0			Default ▼																																														

To enter speed dial numbers:

1. In the **Name** column, enter the name associated with this speed-dial entry.
2. In the **Value** column, enter a phone number for the desired key.
3. In the **Account** column, select the account that this speed dial number will use.
4. Click [Save](#) .

Speed Dial Keys

Click the link for each setting to see the matching configuration file parameter in [""speed_dial" Module: Speed Dial Settings" on page 131](#).

Setting	Description
Name	The name associated with the speed dial entry.
Value	The phone number that the speed dial key dials when pressed and held.
Account	The SIP account that the phone will use to dial the number.

Signaling Settings

The signaling settings are also available as parameters in the configuration file. See [“network” Module: Network Settings” on page 106](#).

After entering information on this page, click [Save](#) to save it.

SYSTEM
SIP Account Management
Account 1
Account 2
Account 3
Call Settings
Account 1
Account 2
Account 3
User Preferences
Programmable Keys
Program Dial 1
Program Dial 2
Program Dial 3
Speed Dial
Signaling
Ringer
Paging Zones

STATUSSYSTEMNETWORKCONTACTSSERVICING

Voice

Min Local RTP Port:
Max Local RTP Port:

NAT Traversal

☐ Enable IP Masquerading
Public IP Address:
Public SIP Port:
Min Public RTP Port:
Max Public RTP Port:
[Save](#)

Voice

Click the link for each setting to see the matching configuration file parameter in [“network” Module: Network Settings” on page 106](#). Default values and ranges are listed there.

Setting	Description
Min Local RTP port	Enter the lower limit of the Real-time Transport Protocol (RTP) port range. RTP ports specify the minimum and maximum port values that the phone will use for RTP packets.
Max Local RTP port	Enter the upper limit of the RTP port range.

NAT Traversal

The NAT Traversal settings are communicated to the VoIP server so that the VCS752 is reachable when connected to the Internet behind NAT.

Setting	Description
Enable IP Masquerading	Select to enable NAT traversal and IP masquerading.
Public IP address	Enter the external IP address of your router. This setting identifies the router's public address to the VoIP server.
Public SIP port	Enter the router port number being used for SIP. This setting identifies the router's port to the VoIP server.
Min Public RTP port	Enter the lower limit of the public RTP port range.
Max Public RTP port	Enter the upper limit of the RTP port range.

Ringer Settings

The Ringer Settings enable you to provide a distinctive ringing feature via the custom Alert-Info header associated with an incoming call. This setting overrides the ringer tone you have set for the account. For example, you can set a unique ringer tone to alert the VCS752 user upon receiving any incoming calls tagged as "important" in the Alert-Info header.

The SIP Invite message contains an Alert-Info header that the phone checks in order to determine which ringer tone to play. The Alert-Info header format is as follows:

Alert-Info: info=info_text

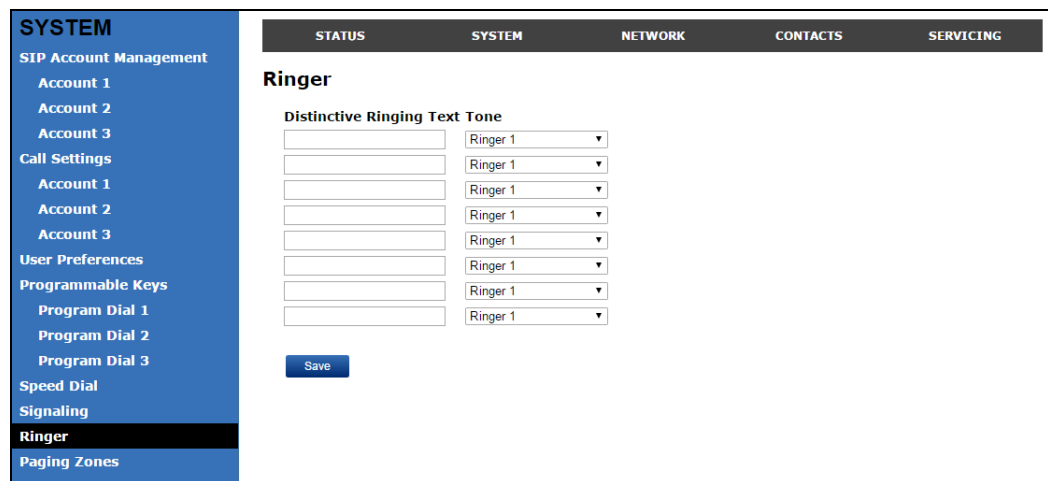
If the header contains the "info" parameter, the phone attempts to match it to the Distinctive Ringing Text. If there is a match, the associated tone will play. If there is no match, the default tone for the account will play.

The matching is done on a "first match" basis. In the case of duplicate text strings, the ringer tone associated with the first matched entry in the Distinctive Ringing Text list will play.

The server-side configuration must be done with your service provider. The SIP Invite text ("Distinctive Ringing Text" on the Ringer WebUI page) must be entered in the format **ringerx**, where x is the ringer number from 1 to 10. For example, to match Ringer 1 enter **ringer1**.

The ringer settings are also available as parameters in the configuration file. See ["ringsetting" Module: Distinctive Ringer Settings" on page 132](#).

After entering information on this page, click  to save it.



Setting	Description
Distinctive Ringing Text	Enter the text that will match the "info" parameter and play the ringer tone. The Distinctive Ringing Text must be in the format ringerx where x is the ringer tone 1 to 10.
Tone	Select the desired ringer from the list.

Setting	Description
Distinctive Ringing Text	Enter the text that will match the "info" parameter and play the ringer tone. The Distinctive Ringing Text must be in the format ringerx where x is the ringer tone 1 to 10.
Tone	Select the desired ringer from the list.

Paging Zones

On the Paging Zones page, you can enter the multicast IP addresses that the phone will monitor. When a page is sent out using this multicast IP address, all phones that are programmed to monitor that IP address will receive the paging RTP stream and play the page on their speakerphone. You can also enable the phone to send out multicast pages using a particular multicast IP address.

You must first set up paging groups (each group consisting of a multicast paging IP address and assigned User IDs) on your SIP PBX. The VCS752 can monitor a maximum of 10 multicast IP addresses.

SYSTEM		STATUS					SYSTEM					NETWORK					CONTACTS					SERVICING				
SIP Account Management Account 1 Account 2 Account 3 Call Settings Account 1 Account 2 Account 3 User Preferences Programmable Keys Program Dial 1 Program Dial 2 Program Dial 3 Speed Dial Signaling Ringing Paging Zones		Paging Zones																								
ID	Name	Multicast IP	Multicast Port	Priority	Enable Incoming Page																					
1				5	☒																					
2				5	☒																					
3				5	☒																					
4				5	☒																					
5				5	☒																					
6				5	☒																					
7				5	☒																					
8				5	☒																					
9				5	☒																					
10				5	☒																					
Save																										

Setting	Description
Name	Enter the name of the paging zone. Names can be a maximum of 15 characters. The paging zone name is displayed on the LCD during incoming and outgoing multicast pages.
Multicast IP	Enter the paging zone multicast IP address. The IP address range for multicast addresses is 224.0.0.0–239.255.255.255.
Multicast Port	Enter the multicast port used by the multicast IP address. The valid port range is 1 to 65535.
Priority	Select the paging zone priority from 1 to 10. Zones with a priority higher than another zone can interrupt the lower-priority zone's active page. In addition, a call priority setting is available in the configuration file (page_zone.call_priority_threshold). This priority setting also ranges from 1 to 10 (2 is the default). If the paging zone priority is higher or equal to the call priority, then a multicast page can interrupt an active, dialing, or incoming call.
Enable Incoming Page	Select to enable the VCS752 to receive incoming pages for that paging zone. If the "Enable Incoming Page" checkbox is not selected, the phone will not listen for the multicast, but will still be able to broadcast an outgoing page.

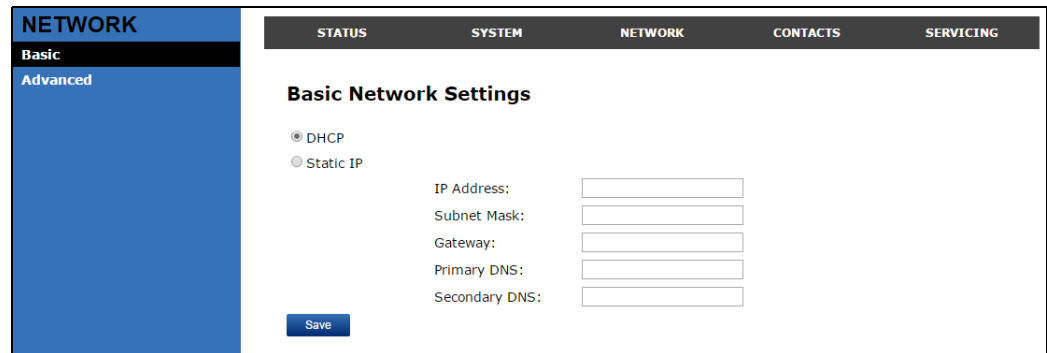
Network Pages

You can set up the VCS752 for your network configuration on the Network pages. Your service provider may require you to configure your network to be compatible with its service, and the VCS752 settings must match the network settings.

The network settings are also available as parameters in the configuration file. See [""network" Module: Network Settings" on page 106](#).

After entering information on this page, click  to save it.

Basic Network Settings




NOTE

If you disable DHCP on this page, you must configure static IP settings for the VCS752. You must be familiar with TCP/IP principles and protocols to configure static IP settings.

Basic Network Settings

Click the link for each setting to see the matching configuration file parameter in [""network" Module: Network Settings" on page 106](#). Default values and ranges are listed there.

Setting	Description
DHCP	DHCP is selected (enabled) by default, which means the VCS752 will get its IP address, Subnet Mask, Gateway, and DNS Server(s) from the network. When DHCP is disabled, you must enter a static IP address for the VCS752, as well as addresses for the Subnet Mask, Gateway, and DNS Server(s).
Static IP	When Static IP is selected, you must enter a static IP address for the VCS752, as well as addresses for the Subnet Mask, Gateway, and DNS Server(s).
IP Address	If DHCP is disabled, enter a static IP address for the VCS752.
Subnet Mask	Enter the subnet mask.
Gateway	Enter the address of the default gateway (in this case, your router).

Setting	Description
Primary DNS	If DHCP is disabled, enter addresses for the primary and secondary DNS servers.
Secondary DNS	

Advanced Network Settings

NETWORK
Basic
Advanced

STATUSSYSTEMNETWORKCONTACTSSERVICING

VLAN
☐ Enable LAN Port VLAN
VID:
Priority:

LLDP-MED
☐ Enable LLDP-MED
Packet interval (secs):

802.1x
☐ Enable 802.1x
Identity:
MD5 Password:

VLAN

You can organize your network and optimize VoIP performance by creating a virtual LAN for phones and related devices.

Click the link for each setting to see the matching configuration file parameter in [“network” Module: Network Settings](#) on page 106. Default values and ranges are listed there.

Setting	Description
Enable LAN Port VLAN	Enable if the phone is part of a VLAN on your network. Select to enable.
VID	Enter the VLAN ID (vlan 5, for example).
Priority	Select the VLAN priority that matches the Quality of Service (QOS) settings that you have set for that VLAN ID. Outbound SIP packets will be marked and sent according to their priority. 7 is the highest priority. Note: Configuring QOS settings for your router or switch is a subject outside the scope of this document.

LLDP-MED

Setting	Description
Enable LLDP-MED	Enables or disables Link Layer Discovery Protocol for Media Endpoint Devices (LLDP-MED). LLDP-MED is a standards-based discovery protocol supported on some network switches. It is required for auto-configuration with VLAN settings.
Packet Interval (secs)	Sets the LLDP-MED packet interval (in seconds).

802.1x

Setting	Description
Enable 802.1x	Enables or disables the 802.1x authentication protocol. This protocol allows the phone to attach itself to network equipment that requires device authentication via 802.1x.
Identity	Enter the 802.1x EAPOL identity.
MD5 Password	Enter the 802.1x EAPOL MD5 password.

Contacts Pages

Local Directory

On the Local Directory page, you can manage your local directory entries. You can sort, edit, delete, and add contact information for up to 200 entries. In order to back up your contacts or import another local directory file, the page also enables you to export and import your phone's local directory.

The Local Directory lists entries on up to 10 pages, with 20 entries per page. Click [Next](#), [Last](#), [First](#), or a page number to view the desired page of entries.

CONTACTS
 Local Directory
 Blacklist
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 Broadsoft
 Call History

STATUS SYSTEM NETWORK **CONTACTS** SERVICING

Local Directory

Select All ☐ [Sort By Last Name](#)

Total: 21	First Name	Last Name	Ring Tone	Home	Work	Mobile	Account	
☐	Angela	Martin	0	7325550118			1	Edit
☐	Bronwyn	McDonald	0	2325550140			1	Edit
☐	Charlie	Johnson	0	5550198			1	Edit
☐	Dale	Appleton	0		6045550135		1	Edit
☐	David	Carter	3	2325550194	2325550177		2	Edit
☐	Davis	Swerdlow	0		2325550172		1	Edit
☐	Elkhart	Taxi	0		6045550156		1	Edit
☐	Graham	Ball	0		2325550176		1	Edit
☐	Kathryn	Dolphy	0		6045550195		1	Edit
☐	Linda	Miller	0		6045550117		2	Edit
☐	Lydia	Braithwaite	0	2325550157			1	Edit
☐	Martin	Meyers	0	2325550122			1	Edit
☐	Mary	Williams	0		6045550145	6045550146	1	Edit
☐	Richard	Serling	0		6045550141	7875550181	2	Edit
☐	Robert	Brown	2		6045550105		2	Edit
☐	Sandro	Voss	0	2325550149			1	Edit
☐	Stefan	Wheeler	0		2325550161		1	Edit
☐	Susan	Ballance	0		6045550170		1	Edit
☐	Terry	Ng	0		2325550187		1	Edit
☐	Ursula	Baldwin	0	6045550166			1	Edit

[First](#) **1** [Next](#) [Last](#)

[Delete Selected Entries](#) [Add New Entry](#) [Clear Directory](#)

Import Local Directory

 [Choose File](#)

Export Local Directory

[Export](#)



You can also use the phone menu to manage local directory entries. For more information, see the VCS752 User Guide.

Table 6 describes the buttons available on the Local Directory page.

Table 6. Local Directory commands

Click	To...
Sort By Last Name	Sort the list by last name.
Edit	Edit information for an entry
Next	View the next page of entries.
Last	View the last page of entries.
First	View the first page of entries.
Delete Selected Entries	Delete selected entries from the directory. Click Select All to select every entry on the page you are viewing.
Add New Entry	Add a new directory entry.
Clear Directory	Delete all Directory entries.
Choose File	Import a directory file.
Export	Export the directory.

To add a new directory entry:

- Click [Add New Entry](#) .
The **Create Local Directory Entry** page appears.

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Create Local Directory Entry

First Name:
Last Name:
Ringer Tone:
Account:
Home Number:
Work Number:
Mobile Number:
[Save](#)

- Enter the required information as described in the following table.

Create Local Directory Entry

Setting	Description	Range	Default
First Name	Enter the appropriate names in these fields. The maximum length of the first name and last name fields is 15 characters.	n/a	Blank
Last Name			
Ringer Tone	Sets a unique ringer tone for calls from this directory entry.	Auto, Tone 1–10	Tone 1
Account	Sets the account used when you dial this directory entry.	Default Account, Account 1–3	Default Account
Work Number	Enter the appropriate names and numbers in these fields.	n/a	Blank
Mobile Number			
Other Number			

Directory Import/Export

The best way to create a directory file for import is to first export the directory from the phone. After exporting the file, open it in an .xml editor and add or modify entries.

Importing a directory file adds the imported directory entries to existing entries. Therefore, it is possible to have duplicate entries after importing a directory file. If you are importing a "complete" directory file with the aim of replacing the entire current directory, use **Select All** and  to clear the directory before importing the file.



NOTE

Using the configuration file, you can set whether an imported directory file adds to existing entries or replaces existing entries. See [""file" Module: Imported File Settings" on page 133](#).

Directory files are .xml files that have the following tags:

Local Directory WebUI field	Directory file XML tag
First Name	<DIR_ENTRY_NAME_FIRST>
Last Name	<DIR_ENTRY_NAME_LAST>
Work Number	<DIR_ENTRY_NUMBER_WORK>
Mobile Number	<DIR_ENTRY_NUMBER_MOBILE>
Other Number	<DIR_ENTRY_NUMBER_OTHER>
Account	<DIR_ENTRY_LINE_NUMBER>
Call Block (not on WebUI)	<DIR_ENTRY_BLOCK>
Ringer Tone	<DIR_ENTRY_RINGER>

Blacklist

On the Blacklist page, you can manage local blacklist entries. The VCS752 rejects calls from numbers that match blacklist entries. You can sort, edit, delete, and add up to 200 blacklist entries. In order to back up your blacklist entries or import another local blacklist file, the page also enables you to export and import the blacklist.

The blacklist lists entries on up to 10 pages, with 20 entries per page. Click [Next](#) , [Last](#) , [First](#) , or a page number to view the desired page of entries.



You can also use the VCS752 menu to manage blacklist entries. For more information, see the VCS752 User Guide.

Table 7 describes the buttons available on the Blacklist page.

Table 7. Blacklist commands

Click	To...
Sort By Last Name	Sort the list by last name.
Edit	Edit information for an entry
Next	View the next page of entries.
Last	View the last page of entries.
First	View the first page of entries.
Delete Selected Entries	Delete selected entries. Click Select All to select every entry on the page you are viewing.

Table 7. Blacklist commands

Click	To...
Add New Entry	Add a new entry.
Clear Directory	Delete all entries.
Choose File	Import a blacklist file.
Export	Export the blacklist.

To add a new blacklist entry:

- Click [Add New Entry](#) .
The **Create Blacklist Entry** page appears.

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Local Directory
Blacklist
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Create Blacklist Entry

First Name:

Last Name:

Account:

Work Number:

Mobile Number:

Other Number:

[Save](#)

- Enter the required information as described in the following table.

Create Blacklist Entry

Setting	Description	Range	Default
First Name	Enter the appropriate names in these fields. The maximum length of the first name and last name fields is 15 characters.	n/a	Blank
Last Name			
Account	Sets the account used when you dial this directory entry.	Default Account, Account 1–3	Account 1
Work Number	Enter the appropriate names and numbers in these fields.	n/a	Blank
Mobile Number			
Other Number			

Blacklist Import/Export

The best way to create a blacklist file for import is to first export the blacklist from the VCS752. After exporting the file, open it in an .xml editor and add or modify entries.

Importing a blacklist file adds the imported blacklist entries to existing entries. Therefore, it is possible to have duplicate entries after importing a blacklist file. If you are importing a "complete" blacklist file with the aim of replacing the entire current blacklist, use **Select All** and  to clear the blacklist before importing the file.

**NOTE**

Using the configuration file, you can set whether an imported blacklist file adds to or replaces existing entries. See ["file" Module: Imported File Settings](#) on [page 133](#).

Blacklist files are .xml files that have the following tags:

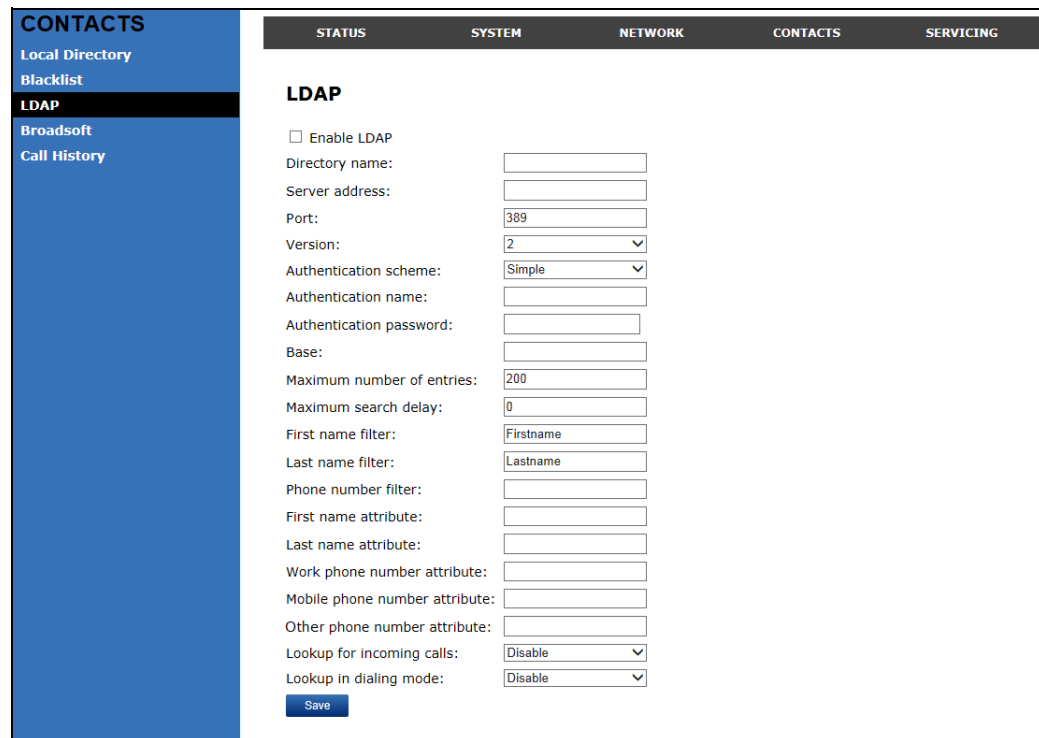
Blacklist WebUI field	Blacklist file XML tag
First Name	<BLACKLIST_ENTRY_NAME_FIRST>
Last Name	<BLACKLIST_ENTRY_NAME_LAST>
Work Number	<BLACKLIST_ENTRY_NUMBER_WORK>
Mobile Number	<BLACKLIST_ENTRY_NUMBER_MOBILE>
Other Number	<BLACKLIST_ENTRY_NUMBER_OTHER>
Account	<BLACKLIST_ENTRY_LINE_NUMBER>

LDAP

The phone supports remote Lightweight Directory Access Protocol (LDAP) directories. An LDAP directory is hosted on a remote server and may be the central directory for a large organization spread across several cities, offices, and departments. You can configure the phone to access the directory and allow users to search the directory for names and telephone numbers.

The LDAP settings are also available as parameters in the configuration file. See [“remoteDir” Module: Remote Directory Settings](#) on page 120.

After entering information on this page, click  to save it.



LDAP Settings

Click the link for each setting to see the matching configuration file parameter in [“remoteDir” Module: Remote Directory Settings](#) on page 120. Default values and ranges are listed there.

Setting	Description
Enable LDAP	Enables or disables the phone's access to the LDAP directory.
Directory name	Enter the LDAP directory name.
Server address	Enter the LDAP server domain name or IP address.
Port	Enter the LDAP server port.

Setting	Description
Version	Select the LDAP protocol version supported on the phone. Ensure the protocol value matches the version assigned on the LDAP server.
Authentication scheme	Select the LDAP server authentication scheme.
Authentication name	Enter the user name or authentication name for LDAP server access.
Authentication password	Enter the authentication password for LDAP server access.
Base	Enter the LDAP search base. This sets where the search begins in the directory tree structure. Enter one of more attribute definitions, separated by commas (no spaces). Your directory may include attributes like "cn" (common name) or "ou" (organizational unit) or "dc" (domain component). For example: ou=accounting,dc=vtech,dc=com
Maximum number of entries	Sets the maximum number of entries returned for an LDAP search. Limiting the number of hits can conserve network bandwidth.
Maximum search delay	Enter the delay (in seconds) before the phone starts returning search results.
First name filter	Enter the first name attributes for LDAP searching. The format of the search filter is compliant to the standard string representations of LDAP search filters (RFC 2254).
Last name filter	Enter the last name attributes for LDAP searching. The format of the search filter is compliant to the standard string representations of LDAP search filters (RFC 2254).
Phone number filter	Enter the number attributes for LDAP searching. The format of the search filter is compliant to the standard string representations of LDAP search filters (RFC 2254).
First name attribute	Sets the attribute for first name. What you enter here should match the first name attribute for entries on the LDAP server (gn for givenName, for example). This helps ensure that the phone displays LDAP entries in the same format as the Local Directory.
Last name attribute	Sets the attribute for last name. What you enter here should match the last name attribute for entries on the LDAP server (sn for surname, for example). This helps ensure that the phone displays LDAP entries in the same format as the Local Directory.

Setting	Description
Work number attribute	Sets the attribute for the work number. What you enter here should match the work number attribute for entries on the LDAP server (telephoneNumber, for example). This helps ensure that the phone displays LDAP entries in the same format as the Local Directory.
Mobile number attribute	Sets the attribute for the mobile number. What you enter here should match the mobile number attribute for entries on the LDAP server (mobile, for example). This helps ensure that the phone displays LDAP entries in the same format as the Local Directory.
Other number attribute	Sets the attribute for the other number. What you enter here should match the other number attribute for entries on the LDAP server (otherPhone, for example). This helps ensure that the phone displays LDAP entries in the same format as the Local Directory.
Lookup for incoming calls	Enables or disables LDAP incoming call lookup. If enabled, the phone searches the LDAP directory for the incoming call number. If the number is found, the phone uses the LDAP entry for CID info.
Lookup in dialing mode	Enables or disables LDAP outgoing call lookup. If enabled, numbers entered in pre-dial or live dial are matched against LDAP entries. If a match is found, the LDAP entry is displayed for dialing.

Broadsoft

The phone supports access to the Broadsoft Phonebook. Users can search for and call contacts that are hosted on the Broadsoft Phonebook. On the Broadsoft Phonebook Settings page, you must enter the path and credentials to enable the phone to access the Broadsoft Phonebook.

Broadsoft Phonebook Settings

Setting	Description
Enable Broadsoft Phonebook	Enables or disables the phone's access to the Broadsoft phonebook.
Display name	Enter the display name for the Broadsoft Phonebook. This name appears on the Directory list on the VCS752 menu.
Server base address	Enter the Broadsoft Phonebook server domain or IP address.
Port	Enter the Broadsoft Phonebook server port.
Authentication name	Enter the user name or authentication name for Broadsoft Phonebook access.
Authentication password	Enter the authentication password for Broadsoft Phonebook access.
Directory type	Select the directory type: Group, Group Common, Enterprise, Enterprise Common, Personal

Call History

The Call History page has no configurable settings. It displays Missed Calls, Received Calls, and Dialed Calls. Users can view their call history and "click to dial" numbers if click to dial is enabled.

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Local Directory
Blacklist
LDAP
Broadsoft
Call History

STATUSSYSTEMNETWORKCONTACTSSERVICING

Call History

Missed calls

Date	Time	Name	Number	Account
2013-01-04	15:30:58	204	204	1
2013-01-04	15:30:46	206	206	1
2013-01-04	15:30:35	204	204	1
2013-01-04	15:30:29	206	206	1

Received calls

Date	Time	Name	Number	Account
2012-12-31	18:40:49	Ron Benoit	242	1

Dialed calls

Date	Time	Name	Number	Account
2012-12-31	20:31:35		6045550149	1
2012-12-31	20:31:28		6045550123	1
2013-01-08	17:08:45	Ron Benoit	242	1
2013-01-01	21:09:02		2325550192	1

Servicing Pages

Reboot

To manually reboot the VCS752 and apply settings that you have updated, click [Reboot](#).

SERVICING	STATUS	SYSTEM	NETWORK	CONTACTS	SERVICING
Reboot Time and Date Firmware Upgrade Auto Upgrade Manual Upgrade Provisioning Security Certificates Device Certificate Server Certificate System Logs	Reboot Reboot Device: Reboot				

Time and Date

On the Time and Date page, you can manually set the time and date, and the time and date formats. You can also set the system time to follow a Network Time Protocol (NTP) Server (recommended) or you can set the time and date manually.

The time and date settings are also available as parameters in the configuration file. See ["time_date" Module: Time and Date Settings](#) on page 115.

SERVICING	STATUS	SYSTEM	NETWORK	CONTACTS	SERVICING
Reboot Time and Date Firmware Upgrade Auto Upgrade Manual Upgrade Provisioning Security Certificates Device Certificate Server Certificate System Logs	Time and Date Format Date Format: DD/MM/YY Time Format: 24 Hour				
	Network Time Settings: ☒ Enable Network Time NTP Server: us.pool.ntp.org ☐ Use DHCP (Option 42)				
	Time Zone and Daylight Savings Settings Time Zone: -5 United States-Eastern ☒ Automatically adjust clock for Daylight Savings ☐ User-defined Daylight Savings Time Daylight Savings Start: March Week 2 Sunday 02:00 Daylight Savings End: November Week 1 Sunday 02:00 Daylight Savings Offset (minutes): 60 ☐ Use DHCP (Option 2/100/101)				
	Manual Time Settings Date: 15/12/2016 Time: 19:23:37 Apply Now Save				

Time and Date Format

Click the link for each setting to see the matching configuration file parameter in [“time_date” Module: Time and Date Settings](#) on page 115. Default values and ranges are listed there.

Setting	Description
Date Format	Sets the date format.
Time Format	Sets the clock to a 24-hour or 12-hour format.

Network Time Settings

Setting	Description
Enable Network Time	Enables or disables getting time and date information for your phone from the Internet.
NTP Server	If Enable Network Time is selected, enter the URL of your preferred time server.
Use DHCP (Option 42)	If Enable Network Time is selected, select to use DHCP to locate the time server. Option 42 specifies the NTP server available to the phone. When enabled, the phone obtains the time in the following priority: 1. Option 42 2. NTP Server 3. Manual time.

Time Zone and Daylight Savings Settings

Setting	Description
Time Zone	Select your time zone from the list.
Automatically adjust clock for Daylight Savings	Select to adjust the clock for daylight savings time according to the NTP server and time zone setting. To disable daylight savings adjustment, disable both this setting and User-defined Daylight Savings Time.
User-defined DST	Select to set your own start and end dates and offset for Daylight Savings Time. To disable daylight savings adjustment, disable both this setting and Automatically adjust clock for Daylight Savings.
DST Start: Month DST Start: Week DST Start: Day DST Start: Hour	If User-defined DST is enabled, set the start date and time for daylight savings: Month, week, day, and hour.

Setting	Description
DST End: Month DST End: Week DST End: Day DST End: Hour	If User-defined DST is enabled, set the end date and time for daylight savings: Month, week, day, and hour.
Daylight Savings Offset	If User-defined DST is enabled, this specifies the daylight savings adjustment (in minutes) to be applied when the current time is between Daylight Savings Start and Daylight Savings End.
Use DHCP (Option 2/100/101)	If Enable Network Time is selected, select to use DHCP to determine the time zone offset. Options 2, 100 and 101 determine time zone information.

Manual Time Settings

If Enable Network Time is disabled or if the time server is not available, use Manual Time Settings to set the current time.

Setting	Description
Date	Select the current year, month, and day. Click the Date field and select the date from the calendar that appears.
Time	Sets the current hour, minute, and second. Click the Time field, and enter the current time. You can also refresh the page to update the manual time settings.

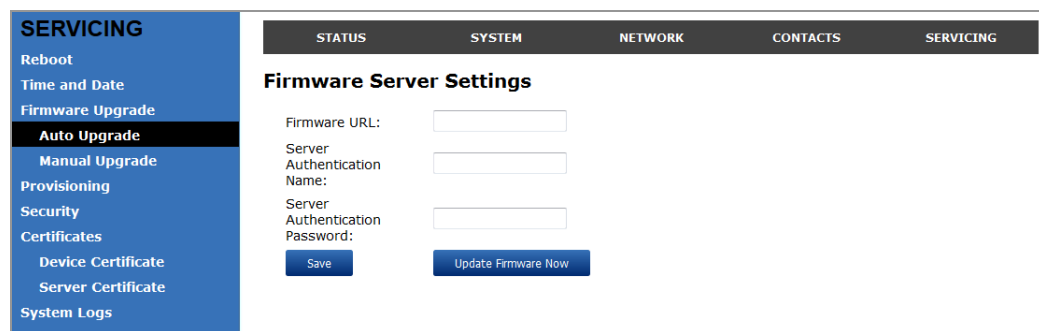
Click  to start the VCS752 using the manual time settings.

Firmware Upgrade

You can update the VCS752 with new firmware using the following methods:

- Retrieving a firmware update file from a remote host computer and accessed via a URL. This central location may be arranged by you, an authorized dealer, or your SIP service provider. Enter the URL under **Firmware Server Settings**.
- Using a file located on your computer or local network. No connection to the Internet is required. Consult your dealer for access to firmware update files. Click **Manual Upgrade** to view the page where you can manually upgrade the VCS752 firmware.

The firmware upgrade settings are also available as parameters in the configuration file. See [“provisioning” Module: Provisioning Settings](#) on page 110.



Firmware Server Settings

Click the link for each setting to see the matching configuration file parameter in [“provisioning” Module: Provisioning Settings](#) on page 110. Default values and ranges are listed there.

Setting	Description
Firmware URL	The URL where the firmware update file resides. This should be a full path, including the filename of the firmware file.
Server authentication name	Authentication username for the firmware server.
Server authentication password	Authentication password for the firmware server.

To update the firmware immediately:

- Click  .

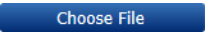


You can also configure the VCS752 to check for firmware updates at regular intervals. See [“Provisioning”](#) on page 73.

Manual Firmware Update and Upload

On the Manual Firmware Update Settings page, you can upgrade the VCS752 firmware using a file located on your computer or local network.

To update the firmware using a file on your computer or local network:

1. On the Manual Firmware Update page, click  to locate and open the firmware update file.
2. Click  .

After clicking  the VCS752 will update its firmware and restart.

Provisioning

Provisioning refers to the process of acquiring and applying new settings for the VCS752 using configuration files retrieved from a remote computer. After a VCS752 is deployed, subsequent provisioning can update the VCS752 with new settings; for example, if your service provider releases new features. See also [“Provisioning Using Configuration Files” on page 84](#).

With automatic provisioning, you enable the VCS752 to get its settings automatically—the process occurs in the background as part of routine system operation. Automatic provisioning can apply to multiple devices simultaneously.

With manual provisioning on the WebUI, you update the VCS752 settings (configuration and/or firmware) yourself via **Provisioning > Import Configuration** and/or **Firmware Upgrade > Manual Upgrade**. Manual provisioning can only be performed on one VCS752 at a time.

On the Provisioning page, you can enter settings that will enable the VCS752 to receive automatic configuration and firmware updates. The Provisioning page also allows you to manually update VCS752 configuration from a locally stored configuration file using an Import function. You can also export the VCS752 configuration—either to back it up or apply the configuration to another VCS752 in the future—to a file on your computer.

The provisioning process functions according to the Resynchronization settings and Provisioning Server Settings. The VCS752 checks for the provisioning URL from the following sources in the order listed below:

1. PnP—Plug and Play Subscribe and Notify protocol
2. DHCP Options
3. Preconfigured URL—Any VCS752 updated to the latest firmware release will have the Redirection Server URL available as the default Provisioning Server URL (see [“provisioning.server_address” on page 110](#)).

**NOTE**

Using the Redirection Service requires contacting the VTech support team for an account.

If one of these sources is disabled, not available, or has not been configured, the VCS752 proceeds to the next source until reaching the end of the list.

The provisioning settings are also available as parameters in the configuration file. See [“provisioning” Module: Provisioning Settings” on page 110](#).

SERVICING
Reboot
Time and Date
Firmware Upgrade
Auto Upgrade
Manual Upgrade
Provisioning
Security
Certificates
Device Certificate
Server Certificate
System Logs

STATUSSYSTEMNETWORKCONTACTSSERVICING

Provisioning Server

Server URL:

Server Authentication Name:

Server Authentication Password:

Plug-and-Play Settings

☒ Enable PnP Subscribe

DHCP Settings

☒ Use DHCP Options

DHCP Option Priority 1:

DHCP Option Priority 2:

DHCP Option Priority 3:

Vendor Class ID (DHCP 60):

User Class Info (DHCP 77):

Provisioning Server

Setting	Description
Server URL	URL of the provisioning file(s). The format of the URL must be RFC 1738 compliant, as follows: "<schema>://<user>:<password>@<host>:<port>/<url-path>" "<user>:<password>@" may be empty. "<port>" can be omitted if you do not need to specify the port number.
Server authentication name	User name for access to the provisioning server
Server authentication password	Password for access to the provisioning server

Plug-and-Play Settings

Setting	Description
Enable PnP Subscribe	Select to enable the VCS752 to search for the provisioning URL via a SUBSCRIBE message to a multicast address (224.0.1.75). The VCS752 expects the server to reply with a NOTIFY that includes the provisioning URL. The process times out after five attempts.

DHCP Settings

Setting	Description
Use DHCP Options	Enables the VCS752 to use DHCP options to locate and retrieve the configuration file. When selected, the VCS752 automatically attempts to get a provisioning server address, and then the configuration file. If DHCP options do not locate a configuration file, then the server provisioning string is checked. Note: Ensure that DHCP is also enabled on the “Basic Network Settings” page.
DHCP Option Priority 1	If DHCP is enabled, sets the DHCP Option priority. Select the highest priority option.
DHCP Option Priority 2	If DHCP is enabled, sets the DHCP Option priority. Select the second highest priority option.
DHCP Option Priority 3	If DHCP is enabled, sets the DHCP Option priority. Select the third highest priority option.
Vendor Class ID (DHCP 60)	DHCP Option 60 is available to send vendor-specific information to the DHCP Server.
User Class Info (DHCP 77)	DHCP Option 77 is available to send vendor-specific information to the DHCP Server.

Resynchronization

On the Resynchronization page, you can select how and when the phone checks for updated firmware and/or configuration files.

Resynchronization

Mode:

Bootup Check:

Schedule Check:

☒ Disable

☐ Interval(minutes)

☐ Days of the Week

☐ Monday

☐ Tuesday

☐ Wednesday

☐ Thursday

☐ Friday

☐ Saturday

☐ Sunday

Start Hour:

End Hour:

☐ Use encryption for configuration file

Passphrase:

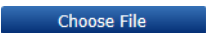
Setting	Description
Mode	Sets which files for which the VCS752 checks. It can check for configuration files, firmware update files (from the URL entered on the Firmware Server Settings page), or both. Note: When checking for both configuration and firmware files, the firmware URL can be within the config file. This firmware URL takes precedence over the URL on the Firmware Server Settings page. It will also update the URL on the Firmware Server Settings page. This allows you to change the firmware URL automatically.
Bootup Check	Sets the VCS752 to check the provisioning URL for new configuration and/or firmware files upon bootup. The update is applied as part of the reboot process.
Schedule Check: Disable	When selected, disables regularly scheduled file checking.
Schedule Check: Interval	Sets an interval for checking for updates. After selecting Interval, enter the interval in minutes between update checks.
Schedule Check: Days of the Week	Select to enable weekly checking for updates on one or more days. After selecting Days of the Week, select the day(s) on which the VCS752 checks for updates.
Start Hour	Select the hour of the day on which the VCS752 checks for updates.
End Hour	Select the hour of the day on which the VCS752 stops checking for updates.
Use encryption	Enables an AES-encrypted configuration file to be decrypted before being applied to the VCS752. Select if the configuration file has been secured using AES encryption. See “Securing configuration files with AES encryption” on page 90 .
Passphrase	If the configuration file has been secured using AES encryption, enter the 16-bit key. See “Securing configuration files with AES encryption” on page 90 .

Import Configuration

You can configure the VCS752 by importing a configuration file from your computer or your local network. For more information about configuration file types and configuration file formatting, see [“Provisioning Using Configuration Files” on page 84](#).



To import a configuration file:

1. Click  to locate and open the configuration file.
2. Click  .

The VCS752 will update its configuration.

Manually importing a configuration file differs from the auto-provisioning process in that:

- The VCS752 does not check whether the file has been loaded before. The configuration file is processed whether or not it is different from the current version.
- The VCS752 will restart immediately after importing the configuration file, without waiting for one minute of inactivity.

Export Configuration

You can export all the settings you have configured on the WebUI and save them as a configuration file on your computer. You can then use this configuration file as a backup, or use it to update other phones.

Under **Export Configuration**, you can also reset the phone to its default configuration.



The exported configuration file will contain the following passwords in plain text:

- SIP account authentication password
- EAPOL password
- Firmware server password
- Provisioning server password
- Encryption passphrase
- LDAP server password
- Broadsoft directory server password.

Please ensure that you save the exported configuration file in a secure location. You can also disable passwords from being exported as plain text. See [“provisioning.pwd_export_enable” on page 114](#)

To export the configuration file:

- Click  .

The format of the exported file is **<model name>_<mac address>.cfg**. For example, **VCS752_0011A0OCF489.cfg**.

Exporting a configuration file generates two header lines in the configuration file. These header lines provide the model number and software version in the following format:

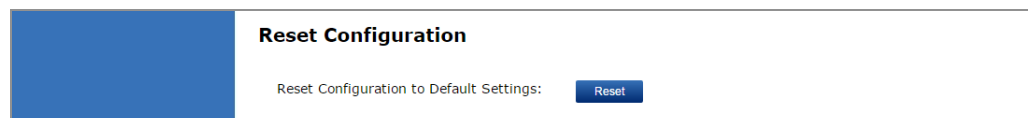
#Model Number = xxxxxxxx

#SW Version = xxxxxxxx

You can use the exported file as a general configuration file, and duplicate the settings across multiple units. However, ensure that you edit the file to remove any MAC-specific SIP account settings before applying the general configuration file to other units.

Reset Configuration

You can reset the phone to its default settings.

**To reset the VCS752 to its default configuration:**

1. Under **Reset Configuration**, click  .
2. When the confirmation box appears, click **OK**.

Security

On the **Security** page you can reset the admin password, reset the user password, and enter web server settings.

The security settings are also available as parameters in the configuration file. See [“web” Module: Web Settings](#) on page 125.

Passwords

You can set the administrator password and user password on the WebUI or by using provisioning. For more information on using provisioning to set passwords, see [“profile” Module: Password Settings](#) on page 139.

The screenshot shows the VCS752 WebUI interface. On the left, a blue sidebar contains a 'SERVICING' section with options: Reboot, Time and Date, Firmware Upgrade (Auto Upgrade, Manual Upgrade), Provisioning, Security (highlighted), Certificates (Device Certificate, Server Certificate), and System Logs. The main content area has a dark header with tabs: STATUS, SYSTEM, NETWORK, CONTACTS, and SERVICING. Below the tabs, the 'Passwords' section is active. It contains two sub-sections: 'Administrator Password' and 'User Password'. Each sub-section has three input fields: 'Enter Old Password:', 'Enter New Password:', and 'Re-enter New Password:'. A 'Save' button is located at the bottom right of the form.

To change the admin password:

1. Enter the old password (for a new VCS752, the default password is **admin**).
2. Enter and re-enter a new password. The password is case sensitive and can consist of both numbers and letters (to a maximum of 15 characters).
3. Click  .

To change the User password:

1. Enter the old password (for a new VCS752, the default password is **user**).
2. Enter and re-enter a new password. The password is case sensitive and can consist of both numbers and letters (to a maximum of 15 characters).
3. Click  .

Web Server

Web Server
WARNING: Changing the Web Server settings will reboot your phone.
HTTP Server Port:
☐ Enable Secure Browsing
HTTPS Server Port:

Setting	Description
HTTP Server port	Port used by the HTTP server.
Enable Secure Browsing	Sets the server to use the HTTPS protocol.
HTTPS Server port	Port used by the HTTPS server.

To configure Web Server Settings:

1. Enter the HTTP Server port number. The default setting is 80.
2. Enable or Disable Secure Browsing. When enabled, the HTTPS protocol is used, and you must select the HTTPS server port in the next step.
3. Enter the HTTPS server port number. The default setting is 443.

**NOTE**

Changing the Web Server settings will reboot the VCS752.

Certificates

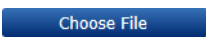
You can add two types of certificates using the WebUI or the provisioning file (see [“file” Module: Imported File Settings](#) on page 133). The two types of certificates are:

- **Device**—A single Device Certificate can be uploaded so that other parties can authenticate the phone in the following cases:
 - When the phone acts as a web server for the user to manage configurations.
 - When the phone acts as a client for applications where HTTP is supported.
- **Server**—A web server certificate can also be uploaded using provisioning. This certificate (also called a trusted certificate) is for server authentication with secured HTTP transaction in the following applications: SIP signaling, Provisioning, Firmware, LDAP directory service, and Broadsoft directory service.

Device Certificate

The screenshot shows the 'Device Certificate' page. On the left is a blue sidebar with a 'SERVICING' menu containing: Reboot, Time and Date, Firmware Upgrade (with sub-items Auto Upgrade and Manual Upgrade), Provisioning, Security, Certificates (with sub-items Device Certificate, Server Certificate, and System Logs). The 'Device Certificate' item is highlighted. The main content area has a top navigation bar with tabs: STATUS, SYSTEM, NETWORK, CONTACTS, and SERVICING. Below the tabs, the title 'Device Certificate' is displayed. The page contains a 'Custom Certificate:' section with a text input field showing 'No file chosen', a blue 'Choose File' button, and a grey 'Import' button. At the bottom of this section is a blue 'Remove Custom Certificate' button.

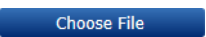
To upload a Device certificate:

1. On the Device Certificate page, click  .
2. Locate the certificate file and click **Open**.
3. On the Device Certificate page, click  .

Server Certificate

The screenshot shows the 'Server Certificate' page. The left sidebar is identical to the previous page, with 'Server Certificate' highlighted under the 'Certificates' menu. The main content area has the same top navigation bar. Below the tabs, the title 'Server Certificate' is displayed. The page contains a 'Web Server Certificate:' section with a text input field showing 'No file chosen', a blue 'Choose File' button, and a grey 'Import' button.

To upload a web server certificate:

1. On the Server Certificate page, click  .
2. Locate the certificate file and click **Open**.
3. On the Server Certificate page, click  .

System Logs

On the **Syslog Settings** page, you can enter settings related to system logging activities. It supports the following logging modes:

- Syslog server
- Volatile file

Under **Network Trace**, you can capture network traffic related to the phone's activity and save the capture as a .pcap file. The file can be used for diagnostic and troubleshooting purposes.

Under **Download Log**, you can save the system log to a file.

The Syslog settings are also available as parameters in the configuration file. See [“log” Module: Log Settings” on page 119](#).

Syslog Settings

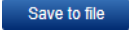
Setting	Description
Enable Syslog	Enable log output to syslog server.
Server address	Syslog server IP address.
Server port	Syslog server port.
Log Level	Sets the log level. The higher the level, the larger the debug output. ■ 5—ALL ■ 4—DEBUG ■ 3—INFO ■ 2—WARNING ■ 1—ERROR ■ 0—CRITICAL

The logging levels are:

- **CRITICAL:** Operating conditions to be reported or corrected immediately (for example, an internal component failure or file system error).
- **ERROR:** Non-urgent failures—unexpected conditions that won't cause the device to malfunction.
- **WARNING:** An indication that an error or critical condition can occur if action is not taken.
- **INFO:** Normal operational messages.
- **DEBUG:** Developer messages for troubleshooting/debugging purposes.

Network Trace

To perform a network trace:

1. Start a network trace by clicking . The button changes to .
2. Stop the network trace by clicking .
3. Save the trace by clicking . Your browser should prompt you to save the **capture.pcap** file.

Download Log

To download the system log:

1. Click .
2. After your browser prompts you to save the **system.log** file, save the file in the desired location.

CHAPTER 4

PROVISIONING USING CONFIGURATION FILES

Provisioning using configuration files is the quickest way to configure multiple VCS752 conference phones. You can place configuration files on a provisioning server, where the VCS752 conference phones retrieve the files and update their configuration automatically.

Configuration files have the extension **.cfg** and contain settings that will apply to VCS752 conference phones. To edit a configuration file, open it with a text editor such as Notepad.

The settings within a configuration file are grouped into modules. Most of the modules group their settings in the same way that settings are grouped on the VCS752 WebUI. For example, the "time_date" module in the configuration file contains the same settings that are on the **Time and Date** WebUI page. For a complete list of VCS752 configuration file modules and their associated parameters, see ["Configuration File Parameter Guide" on page 92](#).

Using the WebUI, you can also import a configuration file and apply the configuration file settings to the VCS752. For more information, see ["Import Configuration" on page 77](#).

This chapter covers:

- ["The Provisioning Process" on page 85](#)
- ["Configuration File Types" on page 87](#)
- ["Data Files" on page 88](#)
- ["Configuration File Tips and Security" on page 89](#).

The Provisioning Process

The automatic provisioning process is as follows:

1. Check for new or updated configuration files. For file-checking options, see [“Provisioning” on page 73](#) and [“Resynchronization: configuration file checking” on page 86](#). The VCS752 maintains a list of the last loaded provisioning files. The VCS752 compares its current configuration against the files it finds on the provisioning server. **Checking for update...** appears on the VCS752 screen.

If provisioning has been triggered by the resync timer expiring or by remote check-sync, the VCS752 checks for updated files after one minute of inactivity.

2. Download the configuration files.

If any file on the provisioning server has changed, the VCS752 treats it as a new file and downloads it.

If the provisioning URL specifies a path only with no filename, then by default the VCS752 looks for and retrieves the following two files:

- General file: **<model>.cfg**.
- MAC-specific file: **<model>_<MAC Address>.cfg**.

The <model> variable is the VTech product model: VCS752, for example.

If the provisioning URL specifies both a path and filename, then the VCS752 retrieves only the configuration file specified.

3. The VCS752 restarts after one minute of inactivity.

During provisioning, the VCS752 reads the configuration file and validates each module and setting. The VCS752 considers a setting valid if it is:

- a valid data type
- formatted as a valid setting
- within a valid data range
- part of a module that passes an integrity check. That is, the module's settings are consistent and logical. For example, in the "network" module, if DHCP is disabled, but no static IP address is specified, the module will fail the integrity check and none of the settings will apply.

Invalid modules or invalid settings are skipped and logged as ERROR messages in the system log, but will not interrupt the provisioning process. The system log will include the module parameters that have not been applied. A recognized module with unrecognized settings will cause all other settings in that module to be skipped.

A successful configuration or firmware update is reported as an INFO message in the system log.

See [“Configuration File Parameter Guide” on page 92](#) for the options and value ranges available for each configuration file setting.

Resynchronization: configuration file checking

You can select a number of options that determine when the VCS752 checks for new configuration files. This process of checking for configuration files is called Resynchronization. Resynchronization options are available on the WebUI **Provisioning** page, but you can also include them in a configuration file.

The resynchronization options are:

- **Mode**—sets the VCS752 to check for a configuration file only, a firmware update file only, or both types of file.
- **Never**—configuration file checking is disabled
- **Bootup**—the VCS752 checks for new configuration files when it boots up. Any updates are applied during the boot-up process.
- **Remote check-sync**—enables you to start a resynchronization remotely using your hosted server's web portal. The Remote check-sync settings are available only in the configuration file, not the WebUI.
- **Repeatedly**, at a defined interval from 60 to 65535 minutes (45 days).

VCS752 restart

If the VCS752 needs to restart after an auto-update, the restart happens only after the device has been idle for one minute.

To prevent users from delaying the update process (auto-updates cannot begin until the VCS752 has been idle for one minute), or to avoid device restarts that might interfere with incoming calls:

- set the resynchronization interval to a suitable period
- upload any new configuration file(s) to your provisioning server after work hours so that the VCS752 will download the file(s) when there is no call activity.

When you update the VCS752 by importing a configuration file using the WebUI, the device restarts immediately after applying the new settings, regardless of whether the VCS752 is idle.

Configuration File Types

The VCS752 is able to retrieve and download two types of configuration file. Depending on your requirements, you may want to make both types of configuration file available on your provisioning server.

The two configuration file types are a general configuration file and a MAC-specific configuration file. The types differ in name only. The formatting of the files' content is the same.

The general configuration file contains settings that are required by every VCS752 in the system.

The MAC-specific configuration file is a file that only a single VCS752 can retrieve. The MAC-specific configuration file name contains a VCS752 MAC address and can only be retrieved by the device with a matching MAC address.

The filename formats for both files are:

- General file: **<model>.cfg**
- MAC-specific file: **<model>_<MAC Address>.cfg**

The <model> variable is the VTech product model; for example, **VCS752**. For more information about the MAC-specific configuration file, see ["Guidelines for the MAC-Specific configuration file" on page 89](#).

If the provisioning URL specifies a path only with no filename, then by default the VCS752 will fetch both files.

However, if the provisioning URL specifies both a path and filename, then the VCS752 will only fetch the single configuration file specified.

Both the general and MAC-specific files can contain any of the available configuration settings. A setting can appear in the general configuration file or the MAC-specific configuration file, or both files, or neither file. If a setting appears in both files, the setting that is read last is the one that applies.

When the VCS752 fetches both a general and a MAC-specific configuration file, the general file is processed first. You can configure a setting for most of your VCS752 conference phones in the general file, and then overwrite that setting for just a few VCS752 conference phones using the MAC-specific file.

Data Files

The configuration file can also include links to data files for product customization. Allowed data types include the following:

- Directory (contacts, blacklist) in .xml format
- Certificates (server, provisioning, LDAP, Broadsoft) in pem format
- Logos (a bootup logo and an idle screen logo) in .bmp format

Links to data files are in the configuration file's "file" module. This is where you enter any URLs to the data files that the VCS752 conference phone may require.

None of the data files are exported when you export a configuration file from the VCS752. However, you can export a Directory or Blacklist .xml file using the WebUI. After modifying the .xml file, you can use the configuration file "file" module to have the VCS752 import the new file. For a complete list of data file parameters, see ["file" Module: Imported File Settings" on page 133](#).

Configuration File Tips and Security

All configuration settings are initially stored in a configuration template file. Copy, rename, and edit the template file to create a general configuration file and the MAC-specific configuration files you will need. You can store the general configuration file and the MAC-specific files on your provisioning server.

Do not modify the configuration file header line that includes the model and firmware version.

To save yourself time and effort, consider which settings will be common to all (or the majority of) VCS752 conference phones. Such settings might include call settings, language, and NAT settings. You can then edit those settings in the configuration template and save it as the general configuration file. The remaining settings will make up the MAC-specific configuration file, which you will have to copy and edit for each VCS752.

Guidelines for the MAC-Specific configuration file

The VCS752 downloads the MAC-specific configuration file after the general configuration file. You must create a MAC-specific configuration file for each VCS752 in your system. The file name must contain the VCS752 MAC address, which is printed on a label on the of the device, or available on the **MENU > Status > Product Info** screen. For example, a VTech VCS752 conference phone with the MAC address of 00:11:A0:10:6F:2D would download the **VCS752_0011A0106F2D.cfg** file.

**NOTE**

When renaming a MAC-specific configuration file, ensure the filename is all upper case.

The MAC-specific configuration file contains settings intended exclusively for that VCS752 conference phone. Such settings will include SIP account settings such as display name, user ID, and authentication ID.

Securing configuration files with AES encryption

You can encrypt your configuration files to prevent unauthorized users modifying the configuration files. The VCS752 firmware decrypts files using the AES 256 algorithm. After encrypting a file and placing it on your provisioning server, you can enable the VCS752 to decrypt the file after fetching it from the server.

The procedures in this section use OpenSSL for Windows for file encryption, as shown in Figure 2.

To decrypt a configuration file, you will need a 16-character AES key that you specified when you encrypted the file. The key (or passphrase) is limited to 16 characters in length and supports special characters ~ ^ ` % ! & - _ + = | . @ * : ; , ? () [] { } < > / \ # as well as spaces.



NOTE

The encryption of configuration files is supported only for the auto provisioning process. Encrypt files only if you intend to store them on a provisioning server. Do not encrypt files that you intend to manually import to the VCS752. You cannot enable decryption for manually imported configuration files.

To encrypt a configuration file:

1. (Optional) Place your configuration file in the same folder as the openssl executable file. If the configuration file is not in the same folder as the openssl executable file, you can enter a relative pathname for the [infile] in the next step.
2. Double-click the **openssl.exe** file.
3. On the openssl command line, type:

```
enc -aes-256-cbc -pass pass:[passphrase123456] -in [infile] -out [outfile]  
-nosalt -p
```

Elements in brackets are examples—do not enter the brackets. Enter a 16-character passphrase and the unencrypted configuration file filename (the "infile") and a name for the encrypted file ("outfile") that will result.

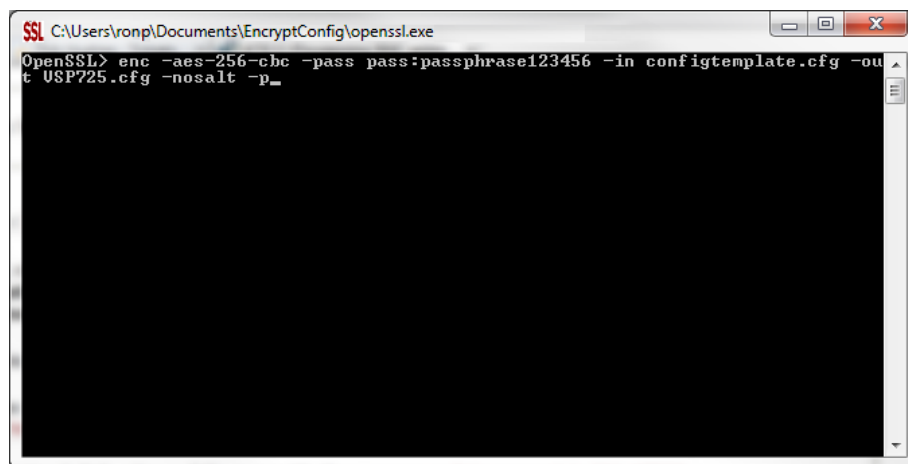


Figure 2. OpenSSL command line

To enable configuration file decryption:

1. On the WebUI, click **Servicing > Provisioning**.
2. On the Provisioning page under **Resynchronization**, select **Use Encryption for configuration file**.

Resynchronization

Mode:	Both
Bootup Check:	Off
Interval:	0
☒ Use encryption for configuration file	
Passphrase	

3. Enter the 16-character passphrase that you created when you encrypted the configuration file.
4. Click .



You must ensure that configuration files are encrypted when enabling AES Encryption. Decrypting an unencrypted file will result in a garbage file that is not processed. This will also be logged as an error in the system log.

CHAPTER 5

CONFIGURATION FILE PARAMETER GUIDE

This chapter lists the available options for all the settings within the VCS752 configuration file. Most settings in the configuration file have an equivalent in the WebUI (see the settings tables in [“Using the WebUI” on page 29](#)). However, the options you must enter when editing the configuration file have a different syntax and format.

The settings are divided into modules. Most modules correspond to a page on the VCS752 WebUI. You may wish to reorganize the modules within the configuration file itself. The configuration file settings can be listed in any order, and the configuration file will still be valid.

The modules included in the configuration file are:

- [“sip_account” Module: SIP Account Settings” on page 93](#)
- [“network” Module: Network Settings” on page 106](#)
- [“provisioning” Module: Provisioning Settings” on page 110](#)
- [“time_date” Module: Time and Date Settings” on page 115](#)
- [“log” Module: Log Settings” on page 119](#)
- [“remoteDir” Module: Remote Directory Settings” on page 120](#)
- [“web” Module: Web Settings” on page 125](#)
- [“user_pref” Module: User Preference Settings” on page 126](#)
- [“call_settings” Module: Call Settings” on page 129](#)
- [“speed_dial” Module: Speed Dial Settings” on page 131](#)
- [“ringersetting” Module: Distinctive Ringer Settings” on page 132](#)
- [“file” Module: Imported File Settings” on page 133](#)

- [""tone" Module: Tone Definition Settings" on page 136](#)
- [""profile" Module: Password Settings" on page 139](#)
- [""page_zone" Module: Paging Zone Settings" on page 140](#)
- [""softkey" Module: Custom Soft Key Settings" on page 142](#)
- [""bt_settings" Module: Bluetooth Settings" on page 144.](#)

"sip_account" Module: SIP Account Settings

The SIP Account settings enable you to set up individual accounts for each user. You can add up to three accounts for each VCS752. Each account requires you to configure the same group of SIP account settings. The SIP account settings for each account are identified by the account number, from 1 to 3 for the VCS752.

For example, for account 1 you would set:

```
sip_account.1.sip_account_enable = 1
```

```
sip_account.1.label = Line 1
```

```
sip_account.1.display_name = 1001
```

```
sip_account.1.user_id = 2325551001
```

and so on.

For account 2, you would set:

```
sip_account.2.sip_account_enable = 1
```

```
sip_account.2.label = Line 2
```

```
sip_account.2.display_name = 1002
```

```
sip_account.2.user_id = 2325551002
```

and so on, if you have additional accounts to configure.

The SIP account settings follow the format: sip_account.x.[element], where x is an account number ranging from 1 to 3 for the VCS752.

All these settings are exported when you manually export the configuration from the VCS752.

General configuration file settings

Setting: sip_account.x.dial_plan

Description: Sets the dial plan for account x. See ["Dial Plan" on page 35](#).

Values: Text string **Default:** x+P

Setting:	sip_account.x.inter_digit_timeout		
Description:	Sets the inter-digit timeout (in seconds) for account x. The inter-digit timeout sets how long the VCS752 waits after the last digit is entered before dialing the number.		
Values:	1–10	Default:	3
Setting:	sip_account.x.maximum_call_number		
Description:	Sets the maximum number of concurrent active calls allowed for that account.		
Values:	1–6	Default:	6
Setting:	sip_account.x.auto_answer_enable		
Description:	Enables or disables automatic answering of pages for account x.		
Values:	0 (disabled), 1 (enabled)	Default:	0
Setting:	sip_account.x.auto_answer_during_active_call		
Description:	Enables or disables automatic answering of pages for account x when account x has an active call.		
Values:	0 (disabled), 1 (enabled)	Default:	0
Setting:	sip_account.x.dtmf_transport_method		
Description:	Sets the transport method for DTMF signalling for account x.		
Values:	auto, rfc2833, inband, info	Default:	auto
Setting:	sip_account.x.unregister_after_reboot_enable		
Description:	Enables or disables the VCS752 to unregister account x after rebooting.		
Values:	0 (disabled), 1 (enabled)	Default:	0
Setting:	sip_account.x.primary_sip_server_address		
Description:	Sets the SIP server IP address for account x.		
Values:	Text string	Default:	Blank

Setting:	sip_account.x.primary_sip_server_port		
Description:	Sets the SIP server port for account x.		
Values:	1–65535	Default:	5060
Setting:	sip_account.x.primary_registration_server_address		
Description:	Sets the registration server IP address for account x.		
Values:	Text string	Default:	Blank
Setting:	sip_account.x.primary_registration_server_port		
Description:	Sets the registration server port for account x.		
Values:	1–65535	Default:	5060
Setting:	sip_account.x.primary_registration_expires		
Description:	Sets the expiration time (in seconds) of the current registration for account x.		
Values:	30–7200	Default:	3600
Setting:	sip_account.x.registration_retry_time		
Description:	Sets the retry frequency of the current registration for account x.		
Values:	1–1800	Default:	10
Setting:	sip_account.x.primary_outbound_proxy_server_address		
Description:	Sets the outbound proxy server IP address for account x.		
Values:	Text string	Default:	Blank
Setting:	sip_account.x.primary_outbound_proxy_server_port		
Description:	Sets the outbound proxy server port for account x.		
Values:	1–65535	Default:	5060
Setting:	sip_account.x.backup_outbound_proxy_server_address		
Description:	Sets the backup outbound proxy server IP address for account x.		
Values:	Text string	Default:	Blank

Setting: `sip_account.x.backup_outbound_proxy_server_port`

Description: Sets the backup outbound proxy server port for account x.

Values: 1–65535 **Default:** 5060

Setting: `sip_account.x.codec_priority.1`

Description: Sets the highest-priority codec for account x.

Values: g711u, g711a, g729, g726, **Default:** g711u
g722

Setting: `sip_account.x.codec_priority.2`

Description: Sets the second highest-priority codec for account x.

Values: none, g711u, g711a, g729, **Default:** g711a
g726, g722

Setting: `sip_account.x.codec_priority.3`

Description: Sets the third highest-priority codec for account x.

Values: none, g711u, g711a, g729, **Default:** g726
g726, g722

Setting: `sip_account.x.codec_priority.4`

Description: Sets the fourth highest-priority codec for account x.

Values: none, g711u, g711a, g729, **Default:** g722
g726, g722

Setting: `sip_account.x.codec_priority.5`

Description: Sets the fifth highest-priority codec for account x.

Values: none, g711u, g711a, g729, **Default:** g729
g726, g722

Setting: `sip_account.x.voice_encryption_enable`

Description: Enables or disables SRTP voice encryption for account x.

Values: 0 (disabled), 1 (enabled) **Default:** 0

Setting:	sip_account.x.g729_annexb_enable		
Description:	Enables G.729 Annex B, with voice activity detection (VAD) and bandwidth-conserving silence suppression. This setting applies only when G.729a/b is selected in a sip_account.x.codec_priority parameter.		
Values:	0 (disabled), 1 (enabled)	Default:	0
Setting:	sip_account.x.dscp		
Description:	Sets the Voice Quality of Service Layer 3 - DSCP for account x.		
Values:	0–63	Default:	46
Setting:	sip_account.x.sip_dscp		
Description:	Sets the Signalling Quality of Service Layer 3 - DSCP for account x.		
Values:	0–63	Default:	26
Setting:	sip_account.x.normal_jitter		
Description:	Sets the oRTP jitter buffer in milliseconds.		
Values:	30–500	Default:	80
Setting:	sip_account.x.local_sip_port		
Description:	Sets the Local SIP port for account x.		
Values:	1–65535	Default:	Account 1: 5060 Account 2: 5070 Account 3: 5080
Setting:	sip_account.x.transport_mode		
Description:	Sets the Signalling Transport Mode for account x.		
Values:	udp, tcp, tls	Default:	udp
Setting:	sip_account.x.access_code_page		
Description:	Sets the paging feature access code for account x.		
Values:	Text string	Default:	Blank

Setting:	sip_account.x.access_code_park_call		
Description:	Sets the Call Park feature access code for account x.		
Values:	Text string	Default:	Blank
Setting:	sip_account.x.access_code_retrieve_parked_call		
Description:	Sets the retrieve parked call feature access code for account x.		
Values:	Text string	Default:	Blank
Setting:	sip_account.x.access_code_retrieve_voicemail		
Description:	Sets the voicemail retrieval feature access code for account x.		
Values:	Text string	Default:	Blank
Setting:	sip_account.x.access_code_dnd_on		
Description:	Sets the do not disturb (DND) ON feature access code for account x.		
Values:	Text string	Default:	Blank
Setting:	sip_account.x.access_code_dnd_off		
Description:	Sets the do not disturb (DND) OFF feature access code for account x.		
Values:	Text string	Default:	Blank
Setting:	sip_account.x.access_code_cfa_on		
Description:	Sets the Call Forward All ON feature access code for account x.		
Values:	Text string	Default:	Blank
Setting:	sip_account.x.access_code_cfa_off		
Description:	Sets the Call Forward All OFF feature access code for account x.		
Values:	Text string	Default:	Blank
Setting:	sip_account.x.access_code_cfna_on		
Description:	Sets the Call Forward No Answer ON feature access code for account x.		
Values:	Text string	Default:	Blank

Setting:	sip_account.x.access_code_cfna_off		
Description:	Sets the Call Forward No Answer OFF feature access code for account x.		
Values:	Text string	Default:	Blank

Setting:	sip_account.x.access_code_cfb_on		
Description:	Sets the Call Forward Busy ON feature access code for account x.		
Values:	Text string	Default:	Blank

Setting:	sip_account.x.access_code_cfb_off		
Description:	Sets the Call Forward Busy OFF feature access code for account x.		
Values:	Text string	Default:	Blank

Setting:	sip_account.x.access_code_anonymous_call_block_on		
Description:	Sets the Anonymous Call Block ON feature access code for account x.		
Values:	Text string	Default:	Blank

Setting:	sip_account.x.access_code_anonymous_call_block_off		
Description:	Sets the Anonymous Call Block OFF feature access code for account x.		
Values:	Text string	Default:	Blank

Setting:	sip_account.x.access_code_outgoing_call_anonymous_on		
Description:	Sets the Anonymous Outgoing Call ON feature access code for account x.		
Values:	Text string	Default:	Blank

Setting:	sip_account.x.access_code_outgoing_call_anonymous_off		
Description:	Sets the Anonymous Outgoing Call OFF feature access code for account x.		
Values:	Text string	Default:	Blank

Setting:	sip_account.x.access_code_call_waiting_on		
Description:	Sets the Call Waiting ON feature access code for account x.		
Values:	Text string	Default:	Blank

Setting:	sip_account.x.access_code_call_waiting_off		
Description:	Sets the Call Waiting OFF feature access code for account x.		
Values:	Text string	Default:	Blank
Setting:	sip_account.x.access_code_group_call_pickup		
Description:	Sets the Group Call Pickup feature access code for account x.		
Values:	Text string	Default:	Blank
Setting:	sip_account.x.access_code_direct_call_pickup		
Description:	Sets the Direct Call Pickup feature access code for account x.		
Values:	Text string	Default:	Blank
Setting:	sip_account.x.mwi_enable		
Description:	Enables or disables message waiting indicator subscription for account x. Enable if SUBSCRIBE and NOTIFY methods are used for MWI.		
Values:	0 (disabled), 1 (enabled)	Default:	0
Setting:	sip_account.x.mwi_subscription_expires		
Description:	Sets the MWI subscription expiry time (in seconds) for account x.		
Values:	0–65535	Default:	3600
Setting:	sip_account.x.mwi_ignore_unsolicited		
Description:	Enables or disables ignoring of unsolicited MWI notifications—notifications in addition to, or instead of, SUBSCRIBE and NOTIFY methods—for account x. Disable if MWI service is configured on the voicemail server and does not involve a subscription to a voicemail server.		
Values:	0 (disabled), 1 (enabled)	Default:	
Setting:	sip_account.x.stutter_dial_tone_enable		
Description:	Enables or disables MWI stutter dial tone for account x.		
Values:	0 (disabled), 1 (enabled)	Default:	1

Setting:	sip_account.x.nat_traversal_stun_enable		
Description:	Enables or disables STUN (Simple Traversal of UDP through NATs) for account x. STUN enables clients, each behind a firewall, to establish calls via a service provider hosted outside of either local network.		
Values:	0 (disabled), 1 (enabled)	Default:	0

Setting:	sip_account.x.nat_traversal_stun_server_address		
Description:	Sets the STUN server IP address.		
Values:	Text string	Default:	Blank

Setting:	sip_account.x.nat_traversal_stun_server_port		
Description:	Sets the STUN server port.		
Values:	1–65535	Default:	3478

Setting:	sip_account.x.nat_traversal_udp_keep_alive_enable		
Description:	Enables or disables UDP keep-alives. Keep-alive packets are used to maintain connections established through NAT.		
Values:	0 (disabled), 1 (enabled)	Default:	1

Setting:	sip_account.x.nat_traversal_udp_keep_alive_interval		
Description:	Sets the interval (in seconds) for sending UDP keep-alives.		
Values:	0–65535	Default:	30

Setting:	sip_account.x.music_on_hold_enable		
Description:	Enables or disables a hold-reminder tone that a far-end caller hears when put on hold during a call on account x.		
Values:	0 (disabled), 1 (enabled)	Default:	1

Setting:	sip_account.x.network_conference_enable		
Description:	Enables or disables network conferencing for account x.		
Values:	0 (disabled), 1 (enabled)	Default:	0

Setting:	sip_account.x.network_bridge_uri		
Description:	Sets the URI for the network conferencing bridge on account x.		
Values:	Text string (SIP URI)	Default:	Blank
Setting:	sip_account.x.sip_session_timer_enable		
Description:	Enables or disables the SIP session timer.		
Values:	0 (disabled), 1 (enabled)	Default:	0
Setting:	sip_account.x.sip_session_timer_min		
Description:	Sets the session timer minimum value (in seconds) for account x.		
Values:	90–65535	Default:	90
Setting:	sip_account.x.sip_session_timer_max		
Description:	Sets the session timer maximum value (in seconds) for account x.		
Values:	0–65535	Default:	1800
Setting:	sip_account.x.check_trusted_certificate		
Description:	Enables or disables accepting only a trusted TLS certificate for account x.		
Values:	0 (disabled), 1 (enabled)	Default:	0
Setting:	sip_account.use_first_trusted_certificate_for_all		
Description:	Enables or disables accepting the first TLS certificate for all accounts.		
Values:	0 (disabled), 1 (enabled)	Default:	0

Setting:	sip_account.x.park_variant		
Description:	Selects how the VCS752 handles call parking, depending on the service provider. When the default "broadsoft" variant is selected, calls are parked via a PFK and a feature access code. The target number for the "park" request is formed by concatenating "Call Park FAC" of the call-to-be-parked account and the value entered for the Park PFK. When the "asterisk" variant is selected, calls are parked through a blind transfer to a parking lot extension. The target parking lot extension will be taken from the following order of priority (if both values exist): ■ Park PFK Value ■ Call Park FAC Value		
Values:	broadsoft, asterisk	Default:	broadsoft
Setting:	sip_account.x.preferred_ptime		
Description:	Enter the packetization interval time in milliseconds.		
Values:	10, 20, 30, 40, 50, 60	Default:	20
Setting:	sip_account.x.call_rejection_response_code		
Description:	Select the response code for call rejection. This code applies to the following call rejection cases: ■ User presses Reject for an incoming call ■ DND is enabled ■ Phone rejects a second incoming call with Call Waiting disabled ■ Phone rejects an anonymous call with Anonymous Call Rejection enabled ■ Phone rejects call when the maximum number of calls is reached		
Values:	480, 486, 603	Default:	486

MAC-specific configuration file settings

Setting: `sip_account.x.sip_account_enable`

Description: Enables account x to be used by the device.

Values: 0 (disabled), 1 (enabled) **Default:** 0

Setting: `sip_account.x.label`

Description: Sets the text that identifies the account on the device LCD. The account label appears on the idle screen, dialing screen, and other call appearance screens.

Values: Text string **Default:** Blank

Setting: `sip_account.x.display_name`

Description: Sets the text portion of the caller ID that is displayed for outgoing calls using account x.

Values: Text string **Default:** Blank

Setting: `sip_account.x.user_id`

Description: Sets the account ID for account x. Depending on your service provider's specifications, this could be an extension number.

Note: Do not enter the host name (e.g. "@sipservice.com"). The configuration file automatically adds the default host name.

Values: Text string **Default:** Blank

Setting: `sip_account.x.authentication_name`

Description: Sets the authentication name for account x. Depending on your service provider's specifications, this could be identical to the user ID.

Values: Text string **Default:** Blank

Setting: `sip_account.x.authentication_access_password`

Description: Sets the authentication password for account x.

Values: Text string **Default:** Blank

Setting:	sip_account.x.feature_sync_enable		
Description:	Enables or disables feature synchronization for account x. When enabled, features configured on the service provider's web portal will automatically be updated on the device's WebUI.		
Values:	0 (disabled), 1 (enabled)	Default:	0

Setting:	sip_account.x.mwi_uri		
Description:	Sets the MWI URI that will be used for MWI subscription. If this setting is left blank, the VCS752 uses the account x user ID for MWI subscription.		
Values:	SIP URI text string	Default:	Blank

"network" Module: Network Settings

The network settings follow the format: network.[element].

General configuration file settings

Setting:	<code>network.rtp.port_start</code>		
Description:	Sets the Local RTP port range start.		
Values:	1–65535	Default:	18000

Setting:	<code>network.rtp.port_end</code>		
Description:	Sets the Local RTP port range end.		
Values:	1–65535	Default:	19000

Setting:	<code>network.vlan.wan.enable</code>		
Description:	Enables or disables the WAN VLAN.		
Values:	0 (disabled), 1 (enabled)	Default:	0

Setting:	<code>network.vlan.wan.id</code>		
Description:	Sets the WAN VLAN ID.		
Values:	0–4095	Default:	0

Setting:	<code>network.vlan.wan.priority</code>		
Description:	Sets the WAN port priority.		
Values:	0–7	Default:	0

Setting:	<code>network.lldp_med.enable</code>		
Description:	Enables or disables LLDP-MED.		
Values:	0 (disabled), 1 (enabled)	Default:	1

Setting:	<code>network.lldp_med.interval</code>		
Description:	Sets the LLDP-MED packet interval (in seconds).		
Values:	1–30	Default:	10

Setting:	network.eapol.enable		
Description:	Enables or disables 802.1x EAPOL.		
Values:	0 (disabled), 1 (enabled)	Default:	0
Setting:	network.eapol.identity		
Description:	Sets the 802.1x EAPOL identity.		
Values:	Text string	Default:	Blank
Setting:	network.eapol.access_password		
Description:	Sets the 802.1x EAPOL MD5 password.		
Values:	Text string	Default:	Blank
Setting:	network.vendor_class_id		
Description:	Sets the vendor ID for DHCP option 60.		
Values:	Text string	Default:	Vtech Vesa VCS752
Setting:	network.user_class		
Description:	Sets the user class for DHCP option 77.		
Values:	Text string	Default:	Vtech Vesa VCS752
Setting:	network.ip_dns_cache_clear_timeout		
Description:	Sets the interval (in minutes) between removing all caching and performing a new DNS lookup. Set to 0 to remove all caching and perform a DNS lookup for every outgoing request and response (TTL=0 emulation).		
Values:	0–1440	Default:	60

MAC-specific configuration file settings

Setting: `network.nat.masquerading_enable`

Description: Enables or disables IP masquerading.

Values: 0 (disabled), 1 (enabled) **Default:** 0

Setting: `network.nat.public_ip_addr`

Description: Sets the public IP address.

Values: Text string (IPv4) **Default:** 0

Setting: `network.nat.public_sip_port`

Description: Sets the public SIP port.

Values: 1–65535 **Default:** 5060

Setting: `network.nat.public_rtp_port_start`

Description: Sets the public RTP port range start.

Values: 1–65535 **Default:** 18000

Setting: `network.nat.public_rtp_port_end`

Description: Sets the public RTP port range end.

Values: 1–65535 **Default:** 19000

Setting: `network.ip.dhcp_enable`

Description: Indicates whether DHCP is enabled.

Values: 0 (disabled), 1 (enabled) **Default:** 1

Setting: `network.ip.static_ip_addr`

Description: Sets a static IP address for the network.

Values: Text string (IPv4) **Default:** Blank

Setting:	network.ip.subnet_mask		
Description:	Sets the subnet mask for the network.		
Values:	Text string (IPv4)	Default:	Blank
Setting:	network.ip.gateway_addr		
Description:	Sets the Gateway IP address.		
Values:	Text string (IPv4)	Default:	Blank
Setting:	network.ip.dns1		
Description:	Sets the primary DNS server IP address.		
Values:	Text string (IPv4)	Default:	Blank
Setting:	network.ip.dns2		
Description:	Sets the secondary DNS server IP address.		
Values:	Text string (IPv4)	Default:	Blank

"provisioning" Module: Provisioning Settings

The provisioning settings follow the format: provisioning.[element].

All these settings are exported when you manually export the configuration from the VCS752.

All the provisioning settings are included in the general configuration file.

Setting:	provisioning.click_to_dial		
Description:	Enables or disables "click to dial" functionality for directory entries.		
Values:	0 (disabled), 1 (enabled)	Default:	1

Setting:	provisioning.firmware_url		
Description:	Sets the URL for the server hosting the firmware file.		
Values:	Text string	Default:	Blank

Setting:	provisioning.fw_server_username		
Description:	Sets the authentication name for the server hosting the firmware file.		
Values:	Text string	Default:	Blank

Setting:	provisioning.fw_server_access_password		
Description:	Sets the authentication password for the server hosting the firmware file.		
Values:	Text string	Default:	Blank

Setting:	provisioning.server_address		
Description:	Sets the provisioning server IP address.		
Values:	Text string	Default:	http://et.vtechphones.com/ redirectserver

Setting:	provisioning.server_username		
Description:	Sets the authentication name for the provisioning server.		
Values:	Text string	Default:	Blank

Setting:	provisioning.server_access_password		
Description:	Sets the authentication password for the provisioning server.		
Values:	Text string	Default:	Blank
Setting:	provisioning.dhcp_option_enable		
Description:	Enables or disables using DHCP options for locating the configuration and firmware files.		
Values:	0 (disabled), 1 (enabled)	Default:	1
Setting:	provisioning.dhcp_option_priority_1		
Description:	Sets the first priority DHCP option for the provisioning/firmware file check.		
Values:	66, 159, 160	Default:	66
Setting:	provisioning.dhcp_option_priority_2		
Description:	Sets the second priority DHCP option for the provisioning/firmware file check.		
Values:	66, 159, 160	Default:	159
Setting:	provisioning.dhcp_option_priority_3		
Description:	Sets the third priority DHCP option for the provisioning/firmware file check.		
Values:	66, 159, 160	Default:	160
Setting:	provisioning.resync_mode		
Description:	Sets the mode of the device's provisioning/firmware file check. This determines which files the device retrieves when the resync process begins.		
Values:	config_only, firmware_only, config_and_firmware	Default:	config_and_firmware
Setting:	provisioning.bootup_check_enable		
Description:	Enables or disables bootup check for configuration and firmware files.		
Values:	0 (disabled), 1 (enabled)	Default:	1

Setting:	provisioning.schedule_mode		
Description:	Sets the type of schedule check for configuration and firmware files.		
Values:	disable, interval, weekday	Default:	disable
Setting:	provisioning.resync_time		
Description:	Sets the interval (in minutes) between checks for new firmware and/or configuration files.		
Values:	0–65535	Default:	0 (OFF)
Setting:	provisioning.weekdays		
Description:	Sets the day(s) when the device checks for new firmware and/or configuration files. Enter a comma-delimited list of weekdays from 0 (Sunday) to 6 (Saturday). For example, 5,6,0 means the provisioning check will be performed on Friday, Saturday and Sunday.		
Values:	0–6	Default:	Blank
Setting:	provisioning.weekdays_start_hr		
Description:	Sets the hour when the device checks for new firmware and/or configuration files.		
Values:	0–23	Default:	0
Setting:	provisioning.weekdays_end_hr		
Description:	Sets the hour when the device stops checking for new firmware and/or configuration files.		
Values:	0–23	Default:	0
Setting:	provisioning.remote_check_sync_enable		
Description:	Enables or disables remotely triggering the device to check for new firmware and/or configuration files. The file checking is triggered remotely via a SIP Notify message from the server containing the check-sync event.		
Values:	0 (disabled), 1 (enabled)	Default:	1

Setting:	provisioning.crypto_enable		
Description:	Enables or disables encryption check for the configuration file(s). Enable if you have encrypted the configuration file(s) using AES encryption.		
Values:	0 (disabled), 1 (enabled)	Default:	0

Setting:	provisioning.crypto_passphrase		
Description:	Sets the AES encryption passphrase for decrypting the configuration file(s). Enter the key that was generated when you encrypted the file.		
Values:	Text string	Default:	Blank

Setting:	provisioning.check_trusted_certificate		
Description:	Enables or disables accepting only a trusted TLS certificate for access to the provisioning server.		
Values:	0 (disabled), 1 (enabled)	Default:	0

Setting:	provisioning.pnp_enable		
Description:	Enables or disables the VCS752 checking for the provisioning URL using the Plug-and-Play Subscribe and Notify protocol.		
Values:	0 (disabled), 1 (enabled)	Default:	1

Setting:	provisioning.pnp_response_timeout		
Description:	Sets how long the VCS752 repeats the SUBSCRIBE request if there is no reply from the PnP server.		
Values:	1–60	Default:	10

Setting:	provisioning.pwd_export_enable
Description:	Enables or disables passwords from being exported in plain text. This parameter is not available on the WebUI. The passwords affected are: ■ network.eapol.access_password ■ provisioning.fw_server_access_password ■ provisioning.server_access_password ■ profile.admin.access_password ■ profile.user.access_password ■ sip_account.x.authentication_access_password ■ remoteDir.ldap_access_password ■ remoteDir.broadsoft_access_password
Values:	0 (disabled), 1 (enabled) Default: 0

"time_date" Module: Time and Date Settings

The time and date settings follow the format: time_date.[element].

All these settings are exported when you manually export the configuration from the VCS752.

All the time and date settings are included in the general configuration file.

Setting: time_date.date_format

Description: Sets the format for displaying the date.

Values: DD/MM/YY, MM/DD/YY, YY/MM/DD **Default:** DD/MM/YY

Setting: time_date.24hr_clock

Description: Enables or disables 24-hour clock.

Values: 0 (disabled), 1 (enabled) **Default:** 1

Setting: time_date.ntp_server

Description: Enables or disables NTP server to set time and date.

Values: 0 (disabled), 1 (enabled) **Default:** 1

Setting: time_date.ntp_server_addr

Description: Sets the URL for the NTP server.

Values: Text string **Default:** us.pool.ntp.org

Setting: time_date.ntp_dhcp_option

Description: Enables or disables DHCP option 42 to find the NTP server.

Values: 0 (disabled), 1 (enabled) **Default:** 0

Setting: time_date.selected_timezone

Description: Sets the local timezone.

Values:	Pacific/Pago_Pago, Pacific/Honolulu, America/Adak, America/Anchorage, America/Vancouver, America/Tijuana, America/Los_Angeles, America/Edmonton, America/Chihuahua, America/Denver, America/Phoenix, America/Winnipeg, Pacific/Easter, America/Mexico_City, America/Chicago, America/Nassau, America/Montreal, America/Grand_Turk, America/Havana, America/New_York, America/Caracas, America/Halifax, America/Santiago, America/Asuncion, Atlantic/Bermuda, Atlantic/Stanley, America/Port_of_Spain, America/St_Johns, America/Godthab, America/Argentina/Buenos_Aires, America/Fortaleza, America/Sao_Paulo, America/Noronha, Atlantic/Azores, GMT, America/Danmarkshavn, Atlantic/Faroe, Europe/Dublin, Europe/Lisbon, Atlantic/Canary, Europe/London, Africa/Casablanca, Europe/Tirane, Europe/Vienna, Europe/Brussels, Europe/Zagreb, Europe/Prague, Europe/Copenhagen, Europe/Paris, Europe/Berlin, Europe/Budapest, Europe/Rome, Europe/Luxembourg, Europe/Skopje, Europe/Amsterdam, Africa/Windhoek, Europe/Tallinn, Europe/Helsinki, Asia/Gaza, Europe/Athens, Asia/Jerusalem, Asia/Amman, Europe/Riga, Asia/Beirut, Europe/Chisinau, Europe/Kaliningrad, Europe/Bucharest, Asia/Damascus, Europe/Istanbul, Europe/Kiev, Africa/Djibouti, Asia/Baghdad, Europe/Moscow, Asia/Tehran, Asia/Yerevan, Asia/Baku, Asia/Tbilisi, Asia/Aqtau, Europe/Samara, Asia/Aqtobe, Asia/Bishkek, Asia/Karachi, Asia/Yekaterinburg, Asia/Kolkata, Asia/Almaty, Asia/Novosibirsk, Asia/Krasnoyarsk, Asia/Bangkok, Asia/Shanghai, Asia/Singapore, Australia/Perth, Asia/Seoul, Asia/Tokyo, Australia/Adelaide, Australia/Darwin, Australia/Sydney, Australia/Brisbane, Australia/Hobart, Asia/Vladivostok, Australia/Lord_Howe, Pacific/Noumea, Pacific/Auckland, Pacific/Chatham, Pacific/Tongatapu	Default: America/New_York
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Setting:	<code>time_date.daylight_saving_auto_adjust</code>		
Description:	Sets the device to automatically adjust clock for daylight savings.		
Values:	0 (disabled), 1 (enabled)	Default:	1
Setting:	<code>time_date.daylight_saving_user_defined</code>		
Description:	Enables or disables manual daylight savings configuration.		
Values:	0 (disabled), 1 (enabled)	Default:	0
Setting:	<code>time_date.daylight_saving_start_month</code>		
Description:	Sets the month that daylight savings time starts.		
Values:	January–December	Default:	March
Setting:	<code>time_date.daylight_saving_start_week</code>		
Description:	Sets the week that daylight savings time starts.		
Values:	1–5	Default:	2
Setting:	<code>time_date.daylight_saving_start_day</code>		
Description:	Sets the day that daylight savings time starts.		
Values:	Sunday, Monday, Tuesday, Wednesday, Thursday, Friday, Saturday	Default:	Sunday
Setting:	<code>time_date.daylight_saving_start_hour</code>		
Description:	Sets the hour that daylight savings time starts.		
Values:	00:00–23:00	Default:	02:00
Setting:	<code>time_date.daylight_saving_end_month</code>		
Description:	Sets the month that daylight savings time ends.		
Values:	January–December	Default:	November

Setting:	time_date.daylight_saving_end_week		
Description:	Sets the week that daylight savings time ends.		
Values:	1–5	Default:	1
Setting:	time_date.daylight_saving_end_day		
Description:	Sets the day that daylight savings time ends.		
Values:	Sunday, Monday, Tuesday, Wednesday, Thursday, Friday, Saturday	Default:	Sunday
Setting:	time_date.daylight_saving_end_hour		
Description:	Sets the hour that daylight savings time ends.		
Values:	00:00–23:00	Default:	02:00
Setting:	time_date.daylight_saving_amount		
Description:	Sets the daylight savings time offset in minutes.		
Values:	0–255	Default:	60
Setting:	time_date.timezone_dhcp_option		
Description:	Enables or disables DHCP option 2/100/101 for determining time zone information.		
Values:	0 (disabled), 1 (enabled)	Default:	0
Setting:	time_date.ntp_server_update_interval		
Description:	Sets the delay between NTP server updates, in seconds.		
Values:	0–4294967295	Default:	1000
Setting:	time_date.time_and_date		
Description:	Manually sets the date and time. Use the format <year>-<month>-<day>T<hour>:<minute>:<second>		
Values:	<year>-<month>-<day>T<hour>:<minute>:<second>	Default:	2015-01-01T12:00:00

"log" Module: Log Settings

The log settings control system logging activities. System logging may be required for troubleshooting purposes. The following logging modes are supported:

- Serial/Console—system log output to an external console using a serial/RS-232 cable
- Syslog server—output to a log file on a separate server
- Volatile file

The log settings follow the format: log.[element].

All the log settings are included in the general configuration file.

Setting:	log.syslog_enable
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Description:	Enables or disables log output to syslog server.
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Values:	0 (disabled), 1 (enabled)	Default:	0
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Setting:	log.syslog_server_address
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Description:	Sets the syslog server IP address.
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Values:	Text string (IPv4)	Default:	Blank
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Setting:	log.syslog_server_port
-----------------	-------------------------------

Description:	Sets the syslog server port.
---------------------	------------------------------

Values:	1–65535	Default:	514
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Setting:	log.syslog_level
-----------------	-------------------------

Description:	Sets the log level. The higher the level, the larger the debug output.
---------------------	--

5—all
4—debug
3—info
2—warning
1—error
0—critical

Values:	0–5	Default:	2
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"remoteDir" Module: Remote Directory Settings

The remote directory settings follow the format: remoteDir.[element].

All these settings are exported when you manually export the configuration from the VCS752.

All the remote directory settings are included in the general configuration file.

Setting:	remoteDir.ldap_enable		
Description:	Enables or disables the VCS752 conference phone's access to the LDAP directory.		
Values:	0 (disabled), 1 (enabled)	Default:	0
Setting:	remoteDir.ldap_directory_name		
Description:	Sets the LDAP directory name.		
Values:	Text string	Default:	Blank
Setting:	remoteDir.ldap_server_address		
Description:	Sets the LDAP server IP address.		
Values:	Text string	Default:	Blank
Setting:	remoteDir.ldap_port		
Description:	Sets the LDAP server port.		
Values:	1–65535	Default:	389
Setting:	remoteDir.ldap_protocol_version		
Description:	Sets the LDAP protocol version.		
Values:	version_2, version_3	Default:	version_3
Setting:	remoteDir.ldap_authentication_type		
Description:	Sets the LDAP authentication type.		
Values:	simple, ssl	Default:	simple

Setting:	remoteDir.ldap_user_name		
Description:	Sets the LDAP authentication user name.		
Values:	Text string	Default:	Blank
Setting:	remoteDir.ldap_access_password		
Description:	Sets the LDAP authentication password.		
Values:	Text string	Default:	Blank
Setting:	remoteDir.ldap_base		
Description:	Sets the LDAP search base. This sets where the search begins in the directory tree structure. Enter one or more attribute definitions, separated by commas (no spaces). Your directory may include attributes like "cn" (common name) or "ou" (organizational unit) or "dc" (domain component). For example, ou=accounting,dc=vtech,dc=com		
Values:	Text string	Default:	Blank
Setting:	remoteDir.ldap_max_hits		
Description:	Sets the maximum number of entries returned for an LDAP search. Limiting the number of hits can conserve network bandwidth.		
Values:	0–32000	Default:	200
Setting:	remoteDir.ldap_search_delay		
Description:	Sets the LDAP maximum search delay in seconds.		
Values:	0–500	Default:	0
Setting:	remoteDir.ldap_firstname_filter		
Description:	Sets the LDAP first name attribute filter.		
Values:	Text string	Default:	Firstname
Setting:	remoteDir.ldap_lastname_filter		
Description:	Sets the LDAP last name attribute filter.		
Values:	Text string	Default:	Lastname

Setting:	remoteDir.ldap_number_filter		
Description:	Sets the LDAP number filter.		
Values:	Text string	Default:	Blank

Setting:	remoteDir.ldap_firstname_attribute		
Description:	Sets the name attributes. Enter the name attributes that you want the VCS752 to display for each entry returned after an LDAP search. Separate each attribute with a space. For example, givenName sn will display the first name and surname for each entry.		
Values:	Text string	Default:	Blank

Setting:	remoteDir.ldap_lastname_attribute		
Description:	Sets the last name attributes.		
Values:	Text string	Default:	Blank

Setting:	remoteDir.ldap_work_number_attributes		
Description:	Sets the number attributes. Enter the number attributes that you want the VCS752 to display for each entry returned after an LDAP search. Separate each attribute with a space. For example, telephoneNumber mobile will display the work phone number and mobile phone number for each entry.		
Values:	Text string	Default:	Blank

Setting:	remoteDir.ldap_mobile_number_attributes		
Description:	Sets the mobile number attributes.		
Values:	Text string	Default:	Blank

Setting:	remoteDir.ldap_other_number_attributes		
Description:	Sets the “other” number attributes.		
Values:	Text string	Default:	Blank

Setting:	remoteDir.ldap_incall_lookup_enable		
Description:	Enables or disables LDAP incoming call lookup. If enabled, the VCS752 searches the LDAP directory for the incoming call number. If the number is found, the VCS752 uses the LDAP entry for CID info.		
Values:	0 (disabled), 1 (enabled)	Default:	0
Setting:	remoteDir.ldap_outcall_lookup_enable		
Description:	Enables or disables LDAP outgoing call lookup. If enabled, numbers entered in pre-dial or live dial are matched against LDAP entries. If a match is found, the LDAP entry is displayed for dialing.		
Values:	0 (disabled), 1 (enabled)	Default:	0
Setting:	remoteDir.broadsoft_enable		
Description:	Enables or disables the Broadsoft phonebook.		
Values:	0 (disabled), 1 (enabled)	Default:	0
Setting:	remoteDir.broadsoft_display_name		
Description:	Sets the Broadsoft Phonebook display name.		
Values:	Text string	Default:	Blank
Setting:	remoteDir.broadsoft_server		
Description:	Sets the Broadsoft Phonebook IP address.		
Values:	Text string	Default:	Blank
Setting:	remoteDir.broadsoft_port		
Description:	Sets the Broadsoft Phonebook port.		
Values:	1–65535	Default:	0
Setting:	remoteDir.broadsoft_user_name		
Description:	Sets the Broadsoft Phonebook authentication user name.		
Values:	Text string	Default:	Blank

Setting:	remoteDir.broadsoft_access_password		
Description:	Sets the Broadsoft Phonebook authentication password.		
Values:	Text string	Default:	Blank
Setting:	remoteDir.broadsoft_dir_type		
Description:	Sets the Broadsoft Phonebook directory type.		
Values:	Group, GroupCommon, Enterprise, EnterpriseCommon, Personal	Default:	Group
Setting:	remoteDir.ldap_check_certificate		
Description:	Enables or disables accepting only a trusted LDAP certificate.		
Values:	0 (disabled), 1 (enabled)	Default:	0
Setting:	remoteDir.broadsoft_check_certificate		
Description:	Enables or disables accepting only a trusted Broadsoft certificate.		
Values:	0 (disabled), 1 (enabled)	Default:	0

"web" Module: Web Settings

The web settings control the web server IP, port, and security settings.

The web settings follow the format: web.[element].

All the web settings are included in the general configuration file.

Setting:	web.http_port
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Description:	Sets the http port when http is enabled.
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Values:	1–65535	Default:	80
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Setting:	web.https_enable
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Description:	Sets server to use the https protocol.
---------------------	--

Values:	0 (disabled), 1 (enabled)	Default:	0
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Setting:	web.https_port
-----------------	-----------------------

Description:	Sets the https port when https is enabled.
---------------------	--

Values:	1–65535	Default:	443
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"user_pref" Module: User Preference Settings

The user settings are accessible to the VCS752 user. These settings are useful for initial setup. You may wish to remove these settings from auto-provisioning update files so that users do not have their own settings overwritten.

The user preference settings follow the format: `user_pref.[element]`.

The user preference settings are exported when you manually export the configuration from the VCS752.

General configuration file settings

Setting:	<code>user_pref.account.x.ringer</code>
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Description:	Sets the ring tone for account x.
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Values:	1–10	Default:	1
----------------	------	-----------------	---

Setting:	<code>user_pref.web_language</code>
-----------------	-------------------------------------

Description:	Sets the language that appears on the WebUI.
---------------------	--

Values:	en, fr, es	Default:	en
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Setting:	<code>user_pref.language</code>
-----------------	---------------------------------

Description:	Sets the language that appears on the device screen.
---------------------	--

Values:	en, fr, es	Default:	en
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Setting:	<code>user_pref.idle_to_logo_timeout</code>
-----------------	---

Description:	Sets the delay (in seconds) before the logo replaces the idle screen.
---------------------	---

Values:	0 (disabled)–300	Default:	0
----------------	------------------	-----------------	---

Setting:	<code>user_pref.logo_to_idle_timeout</code>
-----------------	---

Description:	Sets the delay (in seconds) before the idle screen replaces the logo. This parameter enables the LCD to cycle between the idle screen and the logo.
---------------------	---

Values:	1–300	Default:	60
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Setting:	user_pref.notify.led.missed_call.enable		
Description:	Sets how the Message Waiting LED operates. When enabled, the LED turns on for missed calls and new messages. When disabled, the LED turns on for new messages only. Note: This setting is not available on the phone menu or WebUI.		
Values:	0 (disabled), 1 (enabled)	Default:	0

Setting:	user_pref.text_input_option		
Description:	Sets the order and available language input options available when users edit or enter text on the LCD. Note: This setting is not available on the phone menu or WebUI, and applies to models sold and installed outside North America only.		
Values:	number,uc_western, lc_western,uc_ru,lc_ru, uc_el,lc_el	Default:	uc_western,lc_western, number

MAC-specific configuration file settings

Setting:	user_pref.backlight_timeout		
Description:	Sets the backlight timeout in seconds.		
Values:	10–60	Default:	30

Setting:	user_pref.hold_reminder.enable		
Description:	Enables or disables audible hold reminder.		
Values:	0 (disabled), 1 (enabled)	Default:	1

Setting:	user_pref.hold_reminder.interval		
Description:	Sets the interval for the audible hold reminder in seconds.		
Values:	10–300	Default:	30

Setting:	user_pref.call_waiting.tone_enable		
Description:	Enables or disables the call waiting tone.		
Values:	0 (disabled), 1 (enabled)	Default:	1

Setting:	user_pref.call_waiting.tone_interval		
Description:	Sets the interval for the call waiting tone in seconds.		
Values:	10–60	Default:	30
Setting:	user_pref.call_waiting.mode		
Description:	Enables or disables rejecting calls if already on a call.		
Values:	0 (disabled), 1 (enabled)	Default:	1
Setting:	user_pref.lcd_contrast		
Description:	Sets the LCD contrast on the VCS752.		
Values:	1–7	Default:	4
Setting:	user_pref.backlight		
Description:	Sets the backlight brightness level.		
Values:	off, low, medium, high	Default:	high
Setting:	user_pref.idle_backlight		
Description:	Sets the backlight brightness level when the VCS752 is idle.		
Values:	off, low, medium, high	Default:	off
Setting:	user_pref.absent_timeout		
Description:	Sets the absent timeout (the interval after going off hook with no action taken) in seconds. After the absent timeout, the phone returns to idle mode.		
Values:	10–60	Default:	30
Setting:	user_pref.speaker_volume		
Description:	Sets the speakerphone volume.		
Values:	1–9	Default:	5
Setting:	user_pref.key_beep_enable		
Description:	Enables or disables key beeps on the VCS752.		
Values:	0 (disabled), 1 (enabled)	Default:	1

"call_settings" Module: Call Settings

The call settings configure data related to a user's call preferences. The data is stored internally at /mnt/flash/CallSettings.xml.

All the call settings (except one) follow the format: `call_settings.account.x.[element]` where `x` is an account number ranging from 1 to 3.

All the call settings are included in the MAC-specific configuration file.

Setting:	<code>call_settings.account.x.block_anonymous_enable</code>
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Description:	Enables or disables anonymous call blocking.
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Values:	0 (disabled), 1 (enabled)	Default:	0
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Setting:	<code>call_settings.account.x.outgoing_anonymous_enable</code>
-----------------	--

Description:	Enables or disables outgoing anonymous calls.
---------------------	---

Values:	0 (disabled), 1 (enabled)	Default:	0
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Setting:	<code>call_settings.account.x.dnd_enable</code>
-----------------	---

Description:	Enables or disables Do Not Disturb for account <code>x</code> .
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Values:	0 (disabled), 1 (enabled)	Default:	0
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Setting:	<code>call_settings.account.x.dnd_incoming_calls</code>
-----------------	---

Description:	Sets whether incoming calls are shown or rejected when DND is on for account <code>x</code> .
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Values:	show, reject	Default:	reject
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Setting:	<code>call_settings.account.x.call_fwd_always_enable</code>
-----------------	---

Description:	Enables or disables Call Forward Always for account <code>x</code> .
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Values:	0 (disabled), 1 (enabled)	Default:	0
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Setting:	<code>call_settings.account.x.call_fwd_always_target</code>
-----------------	---

Description:	Sets the Call Forward Always target number for account <code>x</code> .
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Values:	Text string	Default:	Blank
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Setting:	call_settings.account.x.call_fwd_busy_enable		
Description:	Enables or disables Call Forward Busy for account x.		
Values:	0 (disabled), 1 (enabled)	Default:	0
Setting:	call_settings.account.x.call_fwd_busy_target		
Description:	Sets the Call Forward Busy target number for account x.		
Values:	Text string	Default:	Blank
Setting:	call_settings.account.x.cfna_enable		
Description:	Enables or disables Call Forward No Answer for account x.		
Values:	0 (disabled), 1 (enabled)	Default:	0
Setting:	call_settings.account.x.cfna_target		
Description:	Sets the Call Forward No Answer target number for account x.		
Values:	Text string	Default:	Blank
Setting:	call_settings.account.x.cfna_delay		
Description:	Sets the Call Forward No Answer delay (in number of rings) for account x.		
Values:	1–10	Default:	6
Setting:	call_settings.missed_call_alert_enable		
Description:	Enables or disables missed call alerts.		
Values:	0 (disabled), 1 (enabled)	Default:	1

"speed_dial" Module: Speed Dial Settings

The speed dial key settings configure the dial pad keys for speed dialing pre-programmed phone numbers. When configured, the VCS752 user can press and hold a dial pad key to dial a programmed phone number.

The speed dial key settings follow the format `speed_dial.x.[element]`, where x is the dial pad key, ranging from 1 to 0 (with 0 being the "0" OPER key).

All the speed dial settings are included in the MAC-specific configuration file.

Setting:	speed_dial.x.name		
Description:	Sets the name associated with the phone number for dial pad key x. The name is visible on the VCS752 LCD.		
Values:	Text string	Default:	Blank

Setting:	speed_dial.x.number		
Description:	Sets the phone number that dial pad key x dials when pressed and held.		
Values:	Text string (SIP URI)	Default:	Blank

Setting:	speed_dial.x.account		
Description:	Sets the SIP account used for dialing when dial pad key x is pressed and held.		
Values:	0–3 (0 is the default account)	Default:	0

"ringsetting" Module: Distinctive Ringer Settings

The distinctive ringer settings configure the distinctive ringer feature. For more information, see ["Ringer Settings" on page 52](#). You can configure up to 8 instances of the distinctive ringer feature.

The ringer setting parameters follow the format `ringsetting.x.[element]`, where x is the instance of the setting, ranging from 1 to 8.

All the ringer settings are included in the general configuration file.

Setting:	ringsetting.x.ringer_text		
Description:	Enter the text that will match the "info" parameter and play the ringer tone. The matching of the "info" parameter and ringer_text setting is case sensitive.		
Values:	Text string in the format ringerx (e.g., ringer1)	Default:	Blank

Setting:	ringsetting.x.ringer_type		
Description:	Select the desired ring tone for ringer setting x.		
Values:	1–10	Default:	1

"file" Module: Imported File Settings

The "file" parameters enable the provisioning file to import additional configuration files of various types, including:

- Contact lists
- Custom logos
- Security certificates

The following certificates are supported:

- Per-account TLS certificate (you can choose to use the Account 1 certificate for all accounts)
- Broadsoft directory
- LDAP
- Web server (the VCS752 has a default self-signed web server certificate)
- Provisioning
- Languages

File parameter values are URLs that direct the VCS752 to the location of the file to be imported.

None of these settings are exported when you manually export the configuration from the VCS752.

General configuration file settings

Setting:	file.https_user.certificate
Description:	URI of HTTPS server certificate to be imported; for example, <protocol>://<user>:<password>@<host>:<port>/<url-path>

Values:	Text string	Default:	Blank
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Setting:	file.provisioning.trusted.certificate
Description:	URI of provisioning certificate to be imported; for example, <protocol>://<user>:<password>@<host>:<port>/<url-path>

Values:	Text string	Default:	Blank
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Setting:	file.sips.trusted.certificate.x		
Description:	URI of SIPS (TLS transport) certificate to be imported for account x; for example, <protocol>://<user>:<password>@<host>:<port>/<url-path>		
Values:	Text string	Default:	Blank

Setting:	file.ldap.trusted.certificate		
Description:	URI of LDAP certificate to be imported; for example, <protocol>://<user>:<password>@<host>:<port>/<url-path>		
Values:	Text string	Default:	Blank

MAC-specific configuration file settings

Setting:	file.broadsoft.trusted.certificate		
Description:	URI of Broadsoft certificate to be imported; for example, <protocol>://<user>:<password>@<host>:<port>/<url-path>		
Values:	Text string	Default:	Blank

Setting:	file.contact.directory.append		
Description:	URL of contact directory to be imported. Entries in the imported file will be added to existing directory entries.		
Values:	Text string	Default:	Blank

Setting:	file.contact.directory.overwrite		
Description:	URL of contact directory to be imported. Entries in the imported file will replace all existing directory entries.		
Values:	Text string	Default:	Blank

Setting:	file.contact.blacklist.append		
Description:	URL of contact blacklist to be imported. Entries in the imported file will be added to existing blacklist entries.		
Values:	Text string	Default:	Blank

Setting:	file.contact.blacklist.overwrite		
Description:	URL of contact blacklist to be imported. Entries in the imported file will replace all existing directory entries.		
Values:	Text string	Default:	Blank

Setting:	file.bootup_logo		
Description:	URL of custom logo shown during bootup. For logo specifications, see “Logo specifications” on page 14 .		
Values:	Text string	Default:	Blank

Setting:	file.idle_logo		
Description:	URL of custom logo shown on the idle screen. For logo specifications, see “Logo specifications” on page 14 .		
Values:	Text string	Default:	Blank

"tone" Module: Tone Definition Settings

The Tone Definition settings configure data for various tones for the purpose of localization. The Audio Manager component uses the data from this model to populate the mcu on bootup.

Each tone definition must be a string of 12 elements separated by a space:

```
"<num of freq> <freq1> <amp1> <freq2> <amp2> <freq3> <amp3> <freq4> <amp4>  
<on duration> <off duration> <repeat count>"
```

Where:

<num of freq>: 0-4

<freq1>: 0-65535

<amp;1>: -32768-32767

<freq2>: 0-65535

<amp;2>: -32768-32767

<freq3>: 0-65535

<amp;3>: -32768-32767

<freq4>: 0-65535

<amp;4>: -32768-32767

<on duration>: 0-2³²

<off duration>: 0-2³²

```
<repeat count>: 0-65535
```

All the tone definition settings are included in the general configuration file.

Setting:	<code>tone.call_waiting_tone.num_of_elements</code>		
Description:	Sets the number of elements for the call waiting tone.		
Values:	1–5	Default:	1
Setting:	<code>tone.call_waiting_tone.element.1</code>		
Description:	Defines the call waiting tone element 1.		
Values:	Tone element string	Default:	1 440 -150 0 0 0 0 0 0 500 0 1

Setting:	tone.call_waiting_tone.element.x		
Description:	Defines the call waiting tone element x.		
Values:	Tone element string	Default:	Blank
Setting:	tone.hold_reminder_tone.num_of_elements		
Description:	Sets the number of tone elements for the hold reminder tone.		
Values:	1–5	Default:	1
Setting:	tone.hold_reminder_tone.element.1		
Description:	Defines the hold reminder tone element 1.		
Values:	Tone element string	Default:	1 770 -120 0 0 0 0 0 0 300 0 1
Setting:	tone.hold_reminder_tone.element.x		
Description:	Defines the hold reminder tone element x.		
Values:	Tone element string	Default:	Blank
Setting:	tone.inside_dial_tone.num_of_elements		
Description:	Sets the number of tone elements for the dial tone.		
Values:	1–5	Default:	1
Setting:	tone.inside_dial_tone.element.1		
Description:	Defines the inside dial tone element 1.		
Values:	Tone element string	Default:	2 440 -180 350 -180 0 0 0 0 4294967295 0 65535
Setting:	tone.inside_dial_tone.element.x		
Description:	Defines the inside dial tone element x.		
Values:	Tone element string	Default:	Blank
Setting:	tone.stutter_dial_tone.num_of_elements		
Description:	Sets the number of tone elements for the stutter dial tone.		
Values:	1–5	Default:	2

Setting:	tone.stutter_dial_dial_tone.element.1		
Description:	Defines the stutter dial tone element 1.		
Values:	Tone element string	Default:	2 440 -180 350 -180 0 0 0 0 100 100 10
Setting:	tone.stutter_dial_dial_tone.element.2		
Description:	Defines the stutter dial tone element 2.		
Values:	Tone element string	Default:	2 440 -180 350 -180 0 0 0 0 4294967295 0 65535
Setting:	tone.stutter_dial_tone.element.x		
Description:	Defines the stutter dial tone element x.		
Values:	Tone element string	Default:	Blank
Setting:	tone.busy_tone.num_of_elements		
Description:	Sets the number of tone elements for the busy tone.		
Values:	1–5	Default:	2
Setting:	tone.busy_tone.element.1		
Description:	Defines the busy tone element 1.		
Values:	Tone element string	Default:	2 480 -180 620 -180 0 0 0 0 500 500 65535
Setting:	tone.busy_tone.element.x		
Description:	Defines the busy tone element x.		
Values:	Tone element string	Default:	Blank
Setting:	tone.ring_back_tone.num_of_elements		
Description:	Sets the number of tone elements for the ringback tone.		
Values:	1–5	Default:	1

Setting:	<code>tone.ring_back_tone.element.1</code>		
Description:	Defines the ringback tone element 1.		
Values:	Tone element string	Default:	2 440 -180 480 -180 0 0 0 0 2000 4000 65535

Setting:	<code>tone.ring_back_tone.element.x</code>		
Description:	Defines the ringback tone element x.		
Values:	Tone element string	Default:	Blank

"profile" Module: Password Settings

The password settings allow you to set the default administrator and user passwords in the configuration file. The administrator password is usually included in the general configuration file, while the user password is usually included in the MAC-specific configuration file. The passwords can also be set using the WebUI. Be aware that scheduled provisioning configuration file updates may reset these passwords.

General configuration file settings

Setting:	<code>profile.admin.access_password</code>		
Description:	Sets the administrator password for accessing the admin menus on the VCS752 and the WebUI.		
Values:	Text string (15 characters maximum)	Default:	admin

MAC-specific configuration file settings

Setting:	<code>profile.user.access_password</code>		
Description:	Sets the user password for logging on to the WebUI and editing user-accessible settings.		
Values:	Text string (15 characters maximum)	Default:	user

"page_zone" Module: Paging Zone Settings

The paging zone settings allow you to define a maximum of 10 paging zones that the VCS752 can use for multicast paging.

The paging zone parameters (except for `page_zone.call_priority_threshold`) follow the format `page_zone.x.[element]`, where x is the paging zone ID number, ranging from 1 to 10.

All the paging zone settings are included in the general configuration file.

Setting:	page_zone.x.name		
Description:	Sets the paging zone name, which appears on VCS752 LCD for outgoing and incoming multicast pages. A maximum of 15 characters is allowed.		
Values:	Text string	Default:	Blank

Setting:	page_zone.x.multicast_address		
Description:	Enter the multicast IP address that the VCS752 will monitor. The range of valid IP addresses is 224.0.0.0 to 239.255.255.255.		
Values:	IPv4 IP address	Default:	Blank

Setting:	page_zone.x.multicast_port		
Description:	Enter the multicast port associated with the multicast IP. The range of valid ports is 1 to 65535.		
Values:	1–65535	Default:	Blank

Setting:	page_zone.x.accept_incoming_page		
Description:	Enables or disables the VCS752 from receiving incoming multicast pages for that paging zone. If disabled, the VCS752 can make outgoing multicast pages only.		
Values:	0 (disabled), 1 (enabled)	Default:	1

Setting:	page_zone.x.priority		
Description:	Set the paging zone priority from 1 to 10. Zones with a priority higher than another zone can interrupt the lower-priority zone's active page.		
Values:	1–10	Default:	5

Setting:	page_zone.call_priority_threshold		
Description:	Set the call_priority_threshold. If the paging zone priority (page_zone.x.priority) is higher or equal to the call priority, then a multicast page can interrupt an active, dialing, or incoming call.		
Values:	1–10	Default:	2

"softkey" Module: Custom Soft Key Settings

The custom soft key settings allow you to select which soft keys can appear on the Idle screen, the Call Active screen, the Call Held screen and the Live Dial screen. You can also specify the position of each soft key. Softkeys appear on the VCS752 screen in the same order as the softkey values you enter. Enter soft key values separated by commas. For more information, see [“Customizing Soft Keys” on page 16](#). You can specify a maximum of nine soft keys (three levels) for each parameter.

The soft key settings follow the format `softkey.[element]`.

All the soft key settings are included in the general configuration file.

Setting:	softkey.idle		
Description:	Specifies the soft keys visible on the idle screen.		
Values:	blank, dir, call_log, redial, message, dnd, cfwd, cfna, cfwd_all, cfwd_busy, intercom, retrieve, callback, grp_pickup, dir_pickup, line, settings, pgm_dial_1, pgm_dial_2, pgm_dial_3, bt_connect, bt_device1, bt_device2	Default:	redial, line, bt_device1, bt_device2, bt_connect, blank, call_log, blank, dir
Setting:	softkey.call_active		
Description:	Specifies the soft keys visible on the active call screen.		
Values:	blank, new, park_call, end, hold, transfer, conf, xferline, confine, pri_hold, pgm_dial_1, pgm_dial_2, pgm_dial_3, bt_device1, bt_device2, speaker_audio	Default:	end, transfer, conf, bt_device1, bt_device2, speaker_audio, xferline, confine
Setting:	softkey.call_held		
Description:	Specifies the soft keys visible on the held call screen.		
Values:	blank, new, park_call, retrieve, grp_pickup, dir_pickup, end, resume, transfer, conf, xferline, confine, pgm_dial_1, pgm_dial_2, pgm_dial_3	Default:	end, new, resume, transfer, conf, xferline, confine

Setting:	softkey.live_dial		
Description:	Specifies the soft keys visible on the live dial screen.		
Values:	blank, dir, call_log, redial, message, end, dial, input, cancel, backspc, pgm_dial_1, pgm_dial_2, pgm_dial_3, bt_device1, bt_device2	Default:	backspc,input,dial, bt_device1, bt_device2, redial

Setting:	softkey.program_dial.x.label		
Description:	Sets the label for the program dial soft key. Program dial soft keys are like PFK quick dial keys, and will dial a programmed number using a specified account. You can enable up to three program dial soft keys. x is the program soft key index number: 1, 2 or 3.		
Values:	text string	Default:	blank

Setting:	softkey.program_dial.x.number		
Description:	Sets the number that the program dial soft key will dial. Use ^ in the string to indicate a one-second pause; for example, 3456^789#. x is the program soft key index number: 1, 2 or 3.		
Values:	text string	Default:	blank

Setting:	softkey.program_dial.x.account		
Description:	Sets the account that the program dial soft key uses to dial the number. x is the program soft key index number: 1, 2 or 3.		
Values:	1–3	Default:	1

"bt_settings" Module: Bluetooth Settings

The Bluetooth setting allows you to change the PIN that a cell phone must enter before connecting to the VCS752 via Bluetooth. This PIN also must be entered at the VCS752 when connecting a Bluetooth headset.

Setting:	bt_settings.pincode
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Description:	Sets the PIN used for connecting Bluetooth devices to the VCS752.
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Values:	Four-digit code.	Default:	0000
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CHAPTER 6

TROUBLESHOOTING

If you have difficulty with your VCS752 conference phone, please try the suggestions below.



For customer service or product information, contact the person who installed your system. If your installer is unavailable, visit our website at businessphones.vtech.com or call 1 (888) 370-2006.

Common Troubleshooting Procedures

Follow these procedures to resolve common issues. For more troubleshooting information, see the user's manual for your product.

Screen is blank.

- Make sure the DC power cable is securely plugged into base unit and the power adapter. Make sure the AC power cord is securely plugged into the power adapter and a wall outlet not controlled by a wall switch.

Pages are not received.

- The Page auto answer setting is set to Manual. Check the General Account Settings.

The firmware upgrade or configuration update isn't working.

- Before using the WebUI, ensure you have the latest version of your web browser installed. Some menus and controls in older browsers may operate differently than described in this manual.

- Ensure you have specified the correct path to the firmware and configuration files on the **SERVICING > Firmware Upgrade > Auto Upgrade** page and the **SERVICING > Provisioning** page.
- If the phone is not downloading a MAC-specific configuration file, ensure the filename is all upper case.

Provisioning: "Use DHCP Option" is enabled, but the VCS752 is not getting a provisioning URL from the DHCP Server.

- Ensure that DHCP is enabled in Network settings.

APPENDIXES

Appendix A: Maintenance

Taking care of your telephone

- Your VCS752 conference phone contains sophisticated electronic parts, so you must treat it with care.
- Avoid rough treatment.
- Save the original packing materials to protect your VCS752 conference phone if you ever need to ship it.

Avoid water

- You can damage your VCS752 conference phone if it gets wet. Do not install the VCS752 conference phone near a sink, bathtub or shower.

Electrical storms

- Electrical storms can sometimes cause power surges harmful to electronic equipment. For your own safety, take caution when using electric appliances during storms.

Cleaning your telephone

- Your VCS752 conference phone has a durable plastic casing that should retain its luster for many years. Clean it only with a soft cloth slightly dampened with water or a mild soap.
- Do not use excess water or cleaning solvents of any kind.

Remember that electrical appliances can cause serious injury if used when you are wet or standing in water. If the VCS752 conference phone should fall into water, DO NOT RETRIEVE IT UNTIL YOU UNPLUG THE POWER CORD AND NETWORK CABLE FROM THE WALL, then pull the unit out by the unplugged cords.

Appendix B: GPL License Information

Portions of the software associated with this product are open source, and fall within the scope of the GNU General Public License (GPL). Accordingly, those portions of code are available to the public, consistent with the requirements of the GPL, in either source code format or object code format, depending upon the nature of the code at issue. If you would like to exercise your right to receive the available code, please send a written request for the available code, along with a cashier's check, payable to VTech Communications, Inc., in the amount of \$15.00 (U.S.\$) to:

VTech Communications, Inc.,
9590 SW Gemini Drive, Suite 120
Beaverton OR 97008
ATTN: Information Technology Group—VCS752 GPL code request

If your request does not fully comply with the foregoing requirements, VTech reserves the right to reject your request. Further, by requesting and receiving the available code, you release VTech, its affiliates, and its and their officers, directors, employees, and representatives ("VTech Parties") from any liability or responsibility relating to such code, and you acknowledge that the VTech Parties make no representations with respect to the origin, accuracy, usability, or usefulness of such code, and the VTech Parties have no responsibility to you whatsoever concerning the code, including without limitation any responsibility to provide explanation, support, upgrade, or any communication whatsoever. Your review or use of the available code is at your sole risk and responsibility.