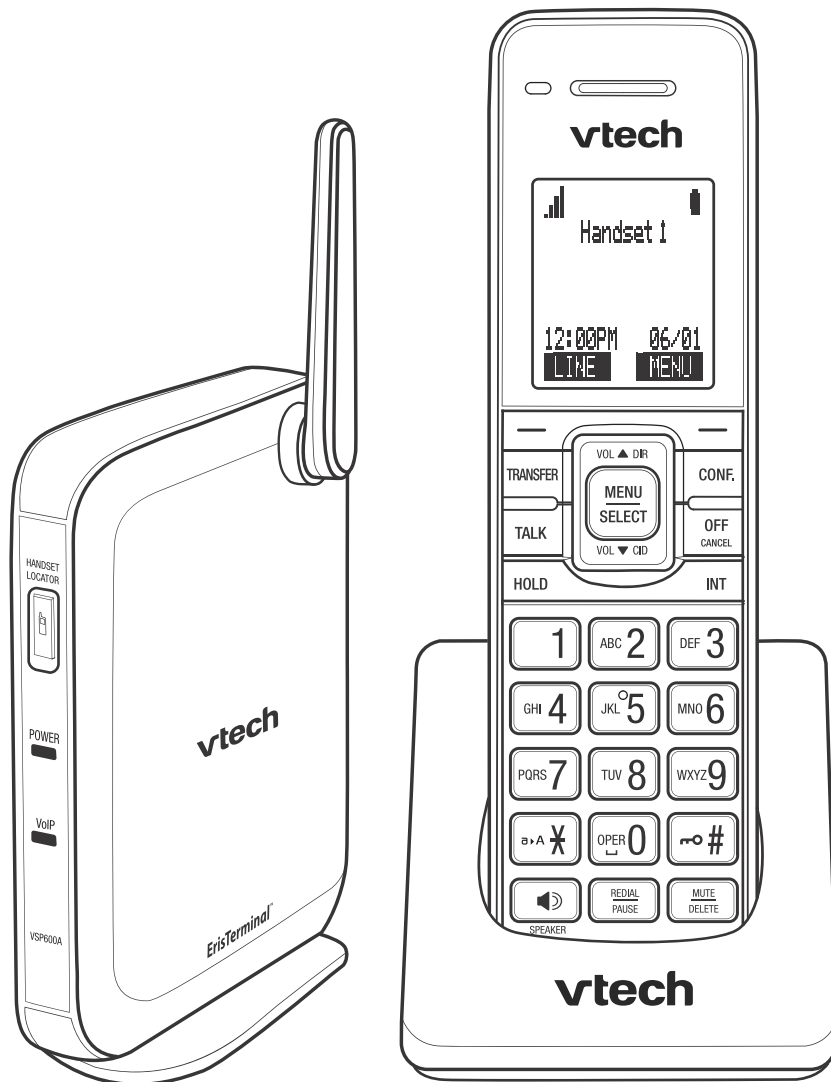




ErisTerminal<sup>®</sup> SIP DECT Base Station  
VSP610A

**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.

This administrator and provisioning manual contains detailed instructions for installing and configuring your VSP610A SIP DECT base station with software version 2.0.4.x. See [“Using the Status menu” on page 14](#) for instructions on checking the software version on the VSP610A. Please read this manual before installing the product.

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

Model number: VSP610A

Type: Small to medium business SIP-endpoint base station

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.
<b>CallFwd</b>	Identifies a soft key.
 <b>NOTE</b>	Notes provide important information about a feature or procedure.
 <b>CAUTION</b>	<p><i>A caution means that loss of data or unintended circumstances may result.</i></p> <p>Example of a Caution.</p>

## 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 VSP610A SIP DECT base station 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 VSP610A-specific configurations for optimal performance with those services.

## Related Documents

The **VSP610A Quick Start Guide** contains a quick reference guide to the VSP610A external features and brief instructions on connecting the VSP610A to a working IP PBX system.

The **VSP610A User Guide** contains a quick reference guide, full installation instructions, instructions for making and receiving calls, and a guide to all user-configurable settings.

## CHAPTER 1

# INTRODUCING THE VSP610A

This administrator and provisioning guide contains detailed instructions for configuring the VSP610A SIP DECT base station. Please read this guide before attempting to configure the VSP610A.

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 VSP610A base station” on page 9](#)
- [“Quick Reference Guide” on page 10](#)
- [“Network Requirements” on page 11](#)
- [“VSP610A Configuration Methods” on page 12](#)



## About the VSP610A base station

The VTech VSP610A SIP DECT base station with VSP601A cordless handset is a cordless business phone system designed to work with popular SIP telephone (IP PBX) equipment and services. Once you have ordered and configured your SIP equipment or service, the VSP610A and cordless accessories enable you to make and receive calls as you would with any other business phone.

The VSP610A base station features include:

- Up to 6 SIP account registrations
- Up to 4 active SIP sessions (across all handsets and cordless desksets)
- Registration of up to 6 DECT cordless handsets
- Power over Ethernet
- Handset locator

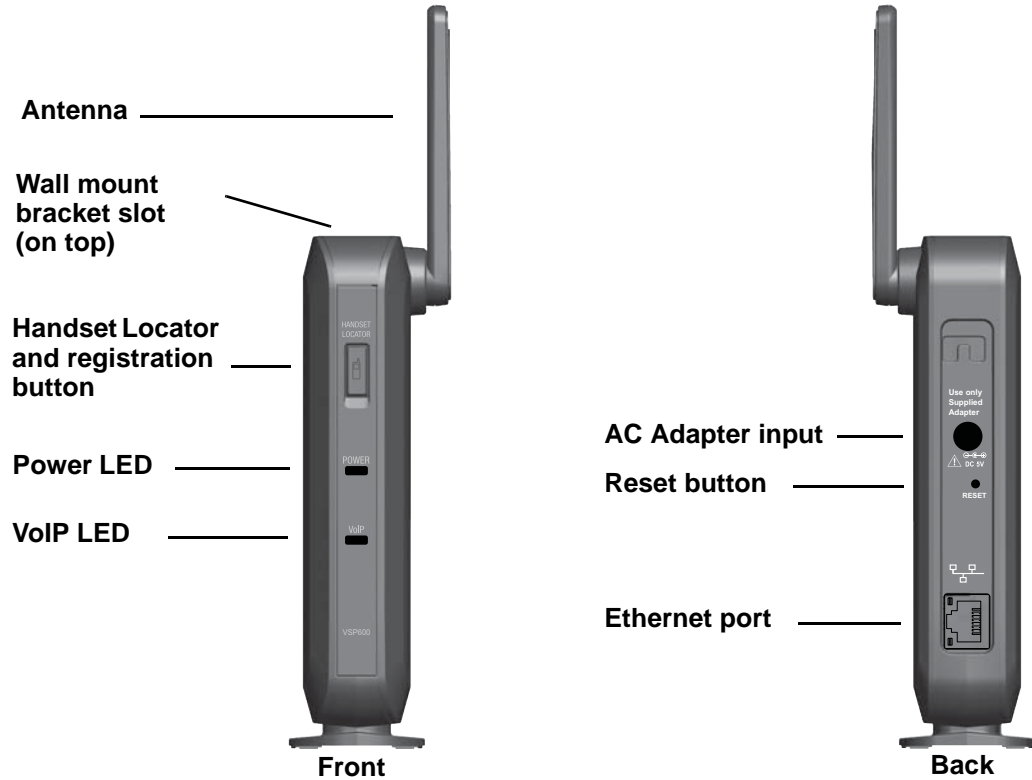
The VSP601A cordless handset features include:

- Orbitlink Wireless Technology™
- Backlit Liquid Crystal Display
- Speakerphone, hold, intercom and mute capability
- Corded headset jack
- 3-way conferencing
- 200-entry call history

You can configure the VSP610A using the menus on the VSP601A handset, a browser-based interface called the WebUI, or an automatic provisioning process (see [“Provisioning Using Configuration Files” on page 92](#)). The WebUI enables you to configure the VSP610A using a computer that is connected to the same Local Area Network. The WebUI resides on the VSP610A, and may get updated with firmware updates.

## Quick Reference Guide

The external features of the VSP610A base station and handset are described below.



## Network Requirements

A switched network topology is recommended for your LAN.

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

The VSP610A 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 VSP610A base stations so that IP addresses can be auto-assigned. In most cases, your network router will have a DHCP server. By default, the VSP610A 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 VSP610A. You can assign a static IP address using the VSP610A handset menu. Go to **Admin settings > Network setting > IPv4 or IPv6 > 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 VSP610A firmware and/or configuration settings manually.

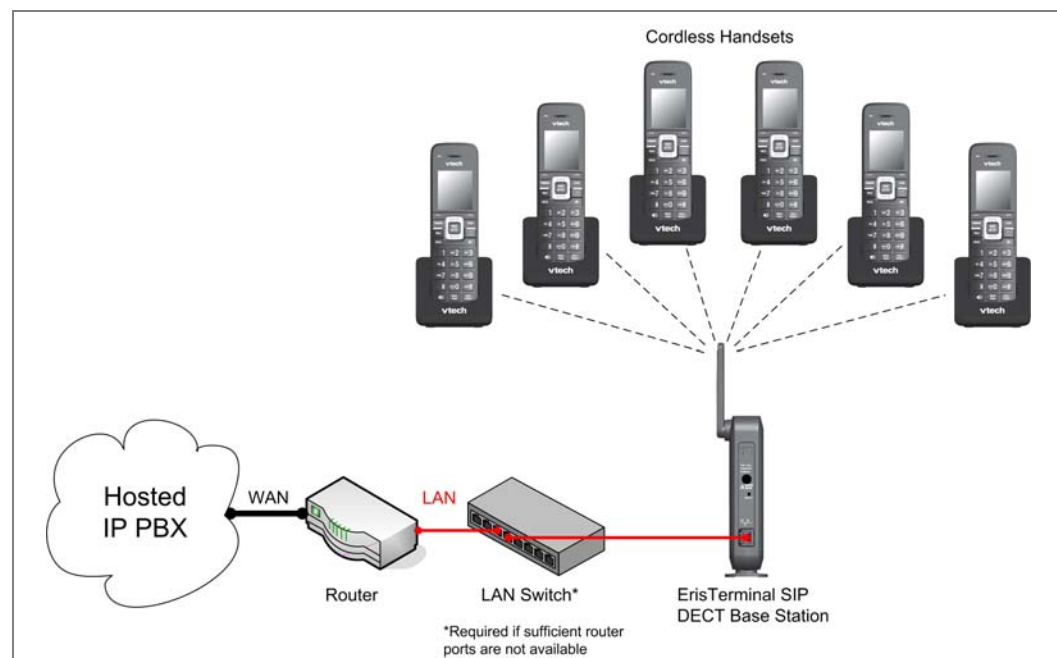


Figure 1. VSP610A Installation Example

## VSP610A Configuration Methods

You can configure the VSP610A using one of the following methods:

- From the VSP601A handset, using the handset menus. The VSP601A menus are best suited to configuring a few settings, perhaps after the initial setup has been done. For administrators, the settings available on the VSP601A menus include network settings, account settings, and provisioning settings. See [“Using the Admin Settings Menu” on page 17](#). Many of the settings accessible on the VSP601A are most useful for end users. Through the menu, they can customize the screen appearance, sounds, and manage calls. For more information, see the VSP610A/VSP601A User Guide.
- The Web User Interface, or WebUI, which you access using your Internet browser. See [“Using the WebUI” on page 26](#). The browser-based interface is easy to navigate and best suited to configuring a large number of VSP610A 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, assign accounts to handsets, and set up provisioning, which will allow you to automatically and remotely update the VSP610A 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 VSP610A to locate and upload the configuration file. For example, you can enable the VSP610A, 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 VSP610A automatically downloads the file and applies the new settings. For more information, see [“Provisioning Using Configuration Files” on page 92](#).

## CHAPTER 2

# CONFIGURATION USING THE PHONE MENUS

The VSP610A Main Menu has the following sub-menus:

- Message—access the voice messages on each account.
- Directory—view and dial directory and blacklist entries.
- Call history—view missed calls, received calls and dialed calls.
- Intercom—call other handsets.
- Speed dial—view and edit speed dial entries.
- Features—set DND, call forward settings and other calling features.
- Status—view the handset and base station 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, set date and time, and customize the audio settings.
- Admin settings—configure network settings (enter static IP addresses, for example), account settings, provisioning, and security.

This chapter contains instructions for using the Admin Settings menu and for accessing the Status menu. See the VSP610A/VSP601A User Guide for more information about the other menus.

## Viewing the Main Menu

### To use the VSP601A menu:

1. When the VSP601A is idle, press **MENU/SELECT**.  
The **Main Menu** appears.



2. Press **▼** or **▲** to highlight the desired sub-menu, and then press **MENU/SELECT**.
  - Press **SELECT** or an appropriate soft key to save changes.
  - Press **OFF/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 VSP610A on the **Product Info** screen, available from the **Status** menu.

### To view the Status menu:

1. When the VSP601A is idle, press **MENU/SELECT**.
2. On the **Main Menu**, press **▲** or **▼** to highlight **Status**, and then press **MENU/SELECT**.  
The **Status** menu appears.



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

The available status menus are listed in Table 2.

Table 2. Status menu summary

Menu	Information listed
1. Network (IPv4 or IPv6)	<ul style="list-style-type: none"><li>■ IP type</li><li>■ IP address</li><li>■ Subnet Mask</li><li>■ Prefix (IPv6 only)</li><li>■ Gateway IP address</li><li>■ DNS server 1 IP address</li><li>■ DNS server 2 IP address</li><li>■ VPN status</li></ul>
2. Line	<p>Lines and registration status. On the <b>Line</b> menu, highlight and select the desired line to view detailed line status information:</p> <ul style="list-style-type: none"><li>■ Line status (Registered/Not registered)</li><li>■ Account display name</li><li>■ Account User ID</li><li>■ Server IP address</li></ul>
3. Product Info	<p>Shows the product info for the handset or base station. Select <b>Handset</b> or <b>Base</b> to view the:</p> <ul style="list-style-type: none"><li>■ Model number (Handset only)</li><li>■ Serial number (Handset only)</li><li>■ Firmware version</li><li>■ V-Series</li><li>■ Hardware version</li></ul>

## 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.

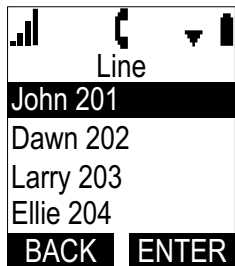



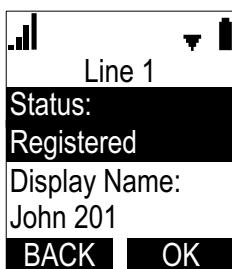


Table 3. Line status icons

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 **MENU/SELECT**. The full line status screen appears.





## Using the Admin Settings Menu

**To access the Admin Settings menu:**

1. When the VSP601A is idle, press **MENU/SELECT**.  
The **Main Menu** appears.



2. Press **▲** or **▼** to highlight **Admin settings**, and then press **MENU/SELECT**.
3. Use the dial pad to enter the admin password, and then press **ENTER**. The default password is **admin** (press the \* key to enable entering lower-case letters).



The Admin settings are listed in Table 4.

**Table 4. Admin setting summary**

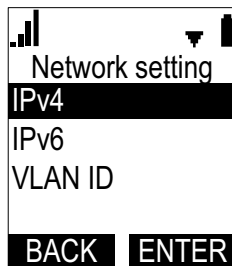
Setting	Options
Network setting	Set static IP VLAN ID
Secure browsing	HTTPs (Enabled, Disabled)
Provisioning	Server string Login ID Login password
Edit PIN code	Edit PIN
Edit Password	Edit passwords for user-level and admin-level WebUI log in.
Firmware update	Select <b>Firmware update</b> to have the handset check whether a firmware update is available. See <a href="#">“Updating a Cordless Handset” on page 75</a> .

## Using the Network Setting menu

Use the Network setting menu to configure network-related settings for the VSP610A. For more information about these settings, see [“Basic Network Settings” on page 54](#) and [“Advanced Network Settings” on page 56](#).

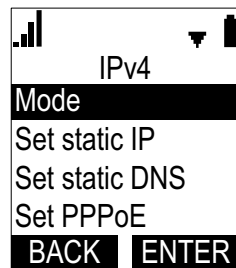
### To use the Network setting menu:

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

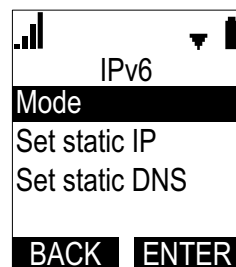


2. Press ▲ or ▼ to highlight the desired option, and then press **MENU/SELECT**:

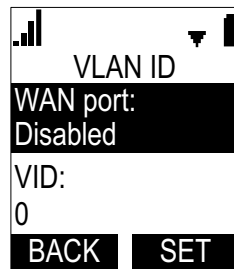
- IPv4
  - Mode (DHCP, Static IP, PPPoE, Disabled)
  - Set static IP
  - Set static DNS
  - Set PPPoE (Point-to-Point Protocol over Ethernet)



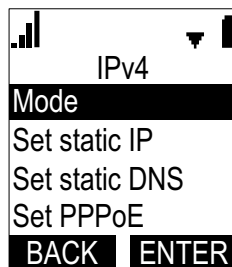
- IPv6
  - Mode (Disabled, Auto, Static IP)
  - Set static IP
  - Set static DNS



## ■ VLAN ID

**To set the network mode:**

1. From the **Network setting** menu, press ▲ or ▼ to highlight your network type (**IPv4** or **IPv6**), and then press **MENU/SELECT**.  
The selected network type screen appears (IPv4 menu shown below).



2. With **Mode** selected, press **ENTER**.  
The **Mode** menu appears.
3. Press **MENU/SELECT** to select the network mode for your network type, and then press **SET**.

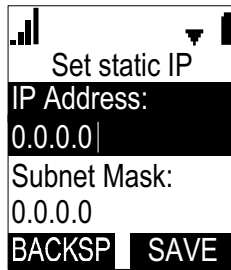
DHCP (IPv4) or Auto (IPv6) is enabled by default, which means the VSP610A will get its IP address from the network. When DHCP and Auto are disabled, you must enter a static IP address for the VSP610A.

**NOTE**

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

### To set static IP for the VSP610A:

1. From the **Mode** menu, press **▼** to select **Static IP**, and then press **MENU/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 to enter characters. To add a period, press the \* key.



3. Press **▼** and enter the Subnet Mask. Use the dial pad to enter characters.
4. Press **▼** and enter the Gateway. Use the dial pad to enter characters.
5. Press **▼** and enter the IP address for the primary DNS server. Use the dial pad to enter characters. To add a period, press the \* key.
6. Press **▼** and enter the IP address for the secondary DNS server. The VSP610A uses this server if the primary server does not respond.
7. Press **SAVE** .

### To set static DNS:

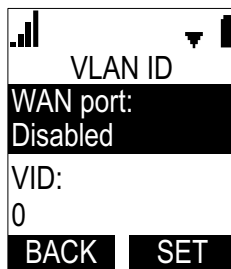
1. From the **Network setting** menu, press **▲** or **▼** to highlight **IPv4** or **IPv6** (whichever is in use in **Static** mode), and then press **MENU/SELECT**.
2. Highlight **Set static DNS** and then press **SELECT**.  
The **Set static DNS** menu appears.
3. On the **Set static DNS** menu, press **▶** to set **Static DNS to Enabled**.
4. Press **▼** and then enter the IP address for the primary DNS server.
5. Press **▼** and then enter the IP address for the secondary DNS server.
6. Press **SAVE** .

**To set PPPoE:**

1. From the **Network setting** menu, press ▲ or ▼ to highlight **IPv4** (which must be in **PPPoE** mode), and then press **MENU/SELECT**.
2. Highlight **Set PPPoE** and then press **SELECT**. The **Set PPPoE** menu appears.
3. On the **Set PPPoE** menu, enter the PPPoE account Username.
4. Press ▼ and then press if you are required to enter a PPPoE account password.
5. Enter a password, if you are required to enter a PPPoE password.
6. Press **SAVE**.

**To set the VLAN ID for the VSP610A:**

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

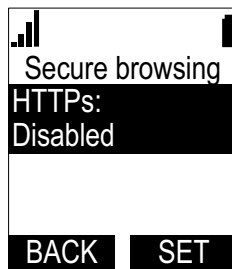


3. Press ▼ and enter the WAN VID. Use the dial pad and the **BACKSP** soft key to enter characters. The valid range is 0 to 4095.
4. Press ▼ and enter the WAN priority. The valid range is 0 to 7.
5. Press **SAVE**.

## Using the Secure browsing menu

### *To turn on secure browsing:*

1. From the **Admin settings** menu, press ▲ or ▼ to highlight **Secure browsing**, and then press **MENU/SELECT**.
2. On the **Secure browsing** menu, press **MENU/SELECT** to enable or disable HTTPS.



3. Press **SET** to save the setting.

## Using the Provisioning menu

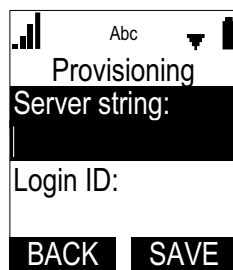
Use the Provisioning menu to configure auto-provisioning settings. For more information about auto-provisioning, see [“Provisioning” on page 76](#) and [“Provisioning Using Configuration Files” on page 92](#).

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 VSP610A will use to access the provisioning server.
- Login PW—the password the VSP610A 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:
  - **BACKSP**—deletes a character
  - Press **1, 0** and **#** to enter symbols. The period and “@” symbols are available under the **0** key.

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**.

## Editing the handset PIN code

The PIN code is a four-digit code that you use to deregister the handset from the base. The default PIN is **0000**. Changing the PIN on the handset will change the PIN for all registered handsets.

### *To edit the PIN code:*

1. From the Admin Settings menu, press ▼ to highlight **Edit PIN code**, and then press **SELECT**.

The **Edit PIN code** screen appears.



2. Enter the current PIN using the dial pad keys.
3. Press **NEXT**.
4. Enter the new PIN and then press **NEXT**.
5. Confirm the new PIN and then press **SAVE**.



## Editing the User and Admin passwords

On the Edit password menu, you can reset the current User and Admin passwords.



By default, after bootup, the phone alerts you if the default passwords (user password and admin password) are still in use.

### To reset User and Admin passwords:

1. From the **Admin Settings** menu, press ▼ to highlight **Edit password**, and then press **SELECT**.

The **Edit password** menu appears.



2. On the **Edit password** menu, select the desired password to change, and then press **SELECT**. The password editing screen appears.



3. Use the dial pad to enter the old password, and then press **OK** .  
The default passwords are **admin** and **user**. (Press the \* key to enable entering lower-case and upper-case letters.)
4. Enter the new password, and then press **NEXT** .
5. Re-enter the new password, and then press **SAVE** .

**C H A P T E R 3**

# USING THE WEBUI

The WebUI allows you to configure account settings, network settings, contact lists, and provisioning settings. The WebUI is embedded in the VSP610A 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 VSP610A settings. This chapter covers:

- [“Using the Web User Interface \(WebUI\)” on page 27](#)
- [“Status Page” on page 30](#)
- [“System Pages” on page 32](#)
- [“Network Pages” on page 53](#)
- [“Contacts Pages” on page 59](#)
- [“Configuration Pages” on page 70.](#)

## Using the Web User Interface (WebUI)

The Web User Interface (WebUI) resides on the VSP610A base station. You can access it using an Internet browser. After you log in to the WebUI, you can configure the VSP610A on the following pages:

### System

- SIP Account Management (see [page 32](#))
- Call Settings (see [page 44](#))
- User Preferences (see [page 46](#))
- Handset Settings (see [page 47](#))
- Server Application (see [page 49](#))

### Network

- Basic Network Settings (see [page 54](#))
- Advanced Network Settings (see [page 56](#))

### Contacts

- Base Directory
- Blacklist (see [page 62](#))
- LDAP (see [page 65](#))
- Remote XML (see [page 68](#))

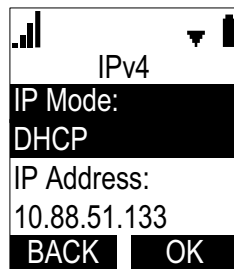
### Configuration

- Reboot (see [page 70](#))
- Time and Date (see [page 71](#))
- Custom Language (see [page 73](#))
- Firmware Upgrade (see [page 74](#))
- Provisioning (see [page 76](#))
- Security (see [page 83](#))
- Trusted Servers (see [page 85](#))
- Trusted IP (see [page 86](#))
- Certificates (see [page 87](#))
- TR-069 (see [page 89](#))
- System Logs (see [page 90](#))

The WebUI also has a **System Status** and a **Handset Status** page, where you can view network status and general information about the VSP610A and handsets. The information on the Status page matches the **Status** menu available on the VSP601A handset.

**To access the WebUI:**

1. Ensure that your computer is connected to the same network as the VSP610A.
2. Find the IP address of the VSP610A:
  - a. On a handset, press **MENU**.
  - b. Press **▼** to highlight **Status**, and then press **ENTER**.
  - c. With **Network** highlighted, press **ENTER**.  
The **Network** screen appears.
  - d. On the **Network** screen, highlight the IP version in use: **IPv4** or **IPv6** and then press **SELECT**.
  - e. On the **IPv4** or **IPv6** status screen, note the IP Address.



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 VSP610A 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 **Configuration**.

**NOTE**

As a security measure, the WebUI prevents you from logging in for five minutes after four (or three, depending on the browser's cache) consecutive failed log-in attempts during a five-minute period.

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 **Save** button. Click **Save** to save changes you have made on the page. During a configuration session, click **Save** 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, along with 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 92](#).

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## Status Page

On the Status pages, you can view network status and general information about the base station and handsets. Some of the information on the Status pages is also available on the Status menu available on the handset.

### 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
- **IPv4** and **IPv6** network information regarding your device's network address and network connection

STATUS		STATUS	SYSTEM	NETWORK	CONTACTS	CONFIGURATION
System Status						
Handset Status						
		<b>General</b>				
		Model: VSP610A				
		Serial Number: YL40000150				
		MAC Address: 14:AE:DB:11:4B:29				
		Link Status: Connected				
		Boot Version: 1.09				
		Software Version: 2.0.2.B				
		V-Series: 2.8.20.ebf6				
		Hardware Version: HW1.0				
		EMC Version: 0				
		Network Time Settings: europe.pool.ntp.org				
		<b>Account Status</b>				
		Account 1: Registered				
		Account 2: Registered				
		Account 3: Registered				
		Account 4: Not Registered				
		Account 5: Not Registered				
		Account 6: Not Registered				
		<b>IPv4</b>				
		IP Mode: dhcp				
		IP Address: 10.88.50.84				
		Subnet Mask: 255.255.0.0				
		Gateway: 10.88.3.149				
		Primary DNS: 10.88.162.10				
		Secondary DNS: 10.88.162.6				
		<b>IPv6</b>				
		IP Mode: disable				
		IP Address: ::				
		Prefix: 0				
		Gateway: fe80::217:c5ff:fe42:1c7c				
		Primary DNS:				
		Secondary DNS:				

## Handset Status

The handset status page shows the name and registration status of cordless handsets. The page lists the maximum of six handsets, even if fewer handsets are registered. If you have not given the handsets unique names, the default name of “HANDSET” appears.

<b>STATUS</b> System Status <b>Handset Status</b>	<b>STATUS      SYSTEM      NETWORK      CONTACTS      CONFIGURATION</b>		
	<b>Handset Status</b>		
		<b>Name</b>	<b>Registration Status</b>
	1:	HANDSET	Registered
	2:	HANDSET	Registered
	3:	HANDSET	Not Registered
	4:	HANDSET	Not Registered
	5:	HANDSET	Not Registered
	6:	HANDSET	Not Registered

## 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 101](#).

SYSTEM	STATUS	SYSTEM	NETWORK	CONTACTS	CONFIGURATION
<b>SYSTEM ACCOUNT MANAGEMENT ACCOUNT 1</b>					
<b>General Account Settings</b>					
<input checked="" type="checkbox"/> Enable Account					
Account Label:		<input type="text" value="Line 1"/>			
Display name:		<input type="text" value="3973"/>			
User identifier:		<input type="text" value="2405553973"/>			
Authentication name:		<input type="text"/>			
Authentication password:		<input type="text"/>			
Dial plan:		<input type="text" value="x+(#:)x+P"/>			
Inter Digit Timeout (secs):		<input type="text" value="3"/>			
Maximum number of calls:		<input type="text" value="2"/>			
Feature synchronization:		<input type="text" value="Enable"/>			
DTMF method:		<input type="text" value="Auto"/>			
Unregister after reboot:		<input type="text" value="Disable"/>			
Call Rejection Response Code:		<input type="text" value="486"/>			

### General Account Settings

Click the link for each setting to see the matching configuration file parameter in [“Configuration File Parameter Guide” on page 100](#). 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 VSP601A display when account x is selected. The Account Label identifies the SIP account throughout the WebUI and on the handset Dialing Line menu.
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. If the Account Label is blank, the Display Name appears on the VSP601A display when account x is selected.



Setting	Description
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. <b>Note:</b> Do not enter the host name (e.g. "@sipservice.com"). The WebUI automatically adds the default host name.
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 <a href="#">“Dial Plan” on page 35</a> .
Inter Digit Timeout (secs)	Sets how long the VSP601A 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.
Feature Synchronization	Enables the VSP610A 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 VSP601A menu and WebUI. Similarly, changes made using the VSP601A 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 VSP610A, disable this setting.

Setting	Description
Call Rejection Response Code	<p>Select the response code for call rejection. This code applies to the following call rejection cases:</p> <ul style="list-style-type: none"><li>■ User presses <b>Reject</b> for an incoming call (except when Call Forward Busy is enabled)</li><li>■ DND is enabled</li><li>■ Phone rejects a second incoming call with Call Waiting disabled</li><li>■ Phone rejects an anonymous call with Anonymous Call Rejection enabled</li><li>■ Phone rejects call when the maximum number of calls is reached</li></ul>

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## 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 VSP601A should dial the number.

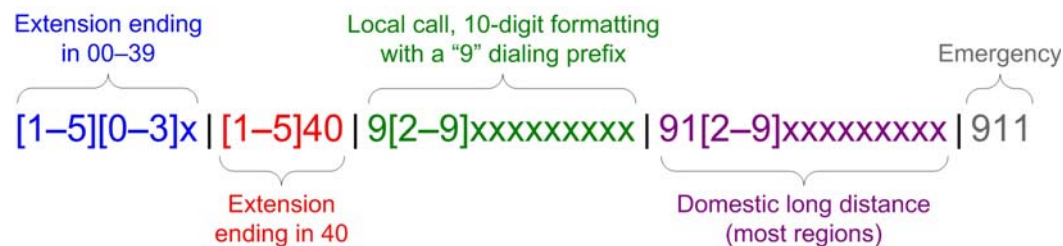


Numbers that are dialed when forwarding a call—when the user manually forwards a call, or a pre-configured number is dialed for Call Forward All, Call Forward–No Answer, or Call Forward Busy—always bypass the dial plan.

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 or 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,xxxxxx" 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 <a href="#">"SIP Account Management" on page 32</a> ).
(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)xxxxxxxxx", 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.



	<b>SIP Server</b>	
	Server address:	<input type="text" value="10.88.25.60"/>
	Port:	<input type="text" value="5060"/>
	<b>Registration</b>	
	Server address:	<input type="text" value="10.88.25.60"/>
	Port:	<input type="text" value="5060"/>
	Expiration (secs):	<input type="text" value="3600"/>
	Registration Freq (secs):	<input type="text" value="10"/>
	<b>Outbound Proxy</b>	
	Server address:	<input type="text" value="0.0.0.0"/>
	Port:	<input type="text" value="0"/>
	<b>Backup Outbound Proxy</b>	
	Server address:	<input type="text"/>
	Port:	<input type="text" value="1"/>

### SIP Server Settings

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

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

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

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.

### Caller Identity

Source Priority 1:

Source Priority 2:

Source Priority 3:

### Audio

Codec Priority 1:

Codec Priority 2:

Codec Priority 3:

Codec Priority 4:

Codec Priority 5:

Codec priority 6:

Codec priority 7:

Enable Voice Encryption (SRTP)

Enable G.729 Annex B

Preferred Packetization Time (ms):

DTMF Payload Type:

### Quality of Service

DSCP (voice):

DSCP (signaling):

### Signaling Settings

Local SIP Port:

Transport:

### Voice

Min Local RTP Port:

Max Local RTP Port:

## Caller Identity Settings

Setting	Description
Source Priority 1	Select the desired caller ID source to be displayed on the incoming call screen: "From" field, RPID (Remote-Party ID) or PAI (P-Asserted Identity) header.
Source Priority 2	Select the lower-priority caller ID source.
Source Priority 3	Select the lowest-priority caller ID source.

## Audio Settings

Setting	Description
Codec priority 1	Select the codec to be used first during a call.

Setting	Description
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.
Codec priority 6	Select the codec to be used sixth during a call if the previous codec fails.
Codec priority 7	Select the codec to be used last 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.
DTMF Payload Type	Set the DTMF payload type for in-call DTMF from 96–127.

### Quality of Service

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

## Signaling Settings

Setting	Description
Local SIP port	Enter the local SIP port.
Transport	<p>Select the SIP transport protocol:</p> <ul style="list-style-type: none"> <li>■ UDP (User Datagram Protocol) is generally less prone to latency, but SIP data may be subject to network congestion.</li> <li>■ TCP (Transmission Control Protocol) is the most reliable protocol and includes error checking and delivery validation.</li> <li>■ TLS (Transport Layer Security)—the VSP610A supports secured SIP signaling via TLS. Optional server authentication is supported via user-uploaded certificates. TLS certificates are uploaded using the configuration file. See <a href="#">“file Module: Imported File Parameters” on page 139</a> and consult your service provider.</li> </ul>

## Voice

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.

Feature Access Codes	
Vicemail	<input type="text"/>
DND ON:	<input type="text"/>
DND OFF:	<input type="text"/>
Call Forward All ON:	<input type="text"/>
Call Forward All OFF:	<input type="text"/>
Call Forward No Answer ON:	<input type="text"/>
Call Forward No Answer OFF:	<input type="text"/>
Call Forward Busy ON:	<input type="text"/>
Call Forward Busy OFF:	<input type="text"/>
Anonymous Call Reject ON:	<input type="text"/>
Anonymous Call Reject OFF:	<input type="text"/>
Anonymous Call ON	<input type="text"/>
Anonymous Call OFF	<input type="text"/>

## Feature Access Codes Settings

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

Setting	Description
Voicemail	Enter the voicemail access code. The code is dialed when the user selects a line from the 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.
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.

**Voicemail Settings**

Enable MWI subscription

Mailbox ID:

Expiration (secs):

Ignore Unsolicited MWI:

**NAT Traversal**

Enable STUN

Server address:

Port:

Enable UDP Keep-Alive

Keep-alive interval (secs):



## Voicemail Settings

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	<p>When selected, unsolicited MWI notifications—notifications in addition to, or instead of SUBSCRIBE and NOTIFY methods—are ignored for account x. If the VSP610A receives unsolicited MWI notifications, the Message Waiting LED will not light to indicate new messages. Disable this setting if:</p> <ul style="list-style-type: none"> <li>■ MWI service does not involve a subscription to a voicemail server. That is, the server supports unsolicited MWI notifications.</li> <li>■ you want the Message Waiting LED to indicate new messages when the VSP610A receives unsolicited MWI notifications.</li> </ul>

## NAT Traversal

Setting	Description
Enable STUN	Enables or disables STUN (Simple Traversal of UDP through NATs) for account x. The Enable STUN setting allows the VSP610A 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 STUN Keep-Alive	Enables or disables STUN keep-alives. Keep-alive packets are used to maintain connections established through NAT.
Keep-alive interval (secs)	Enter the interval (in seconds) for sending keep-alives.

**Music On Hold**

Enable Local MoH

**Network Conference**

Enable Network Conference

Conference URI:

**Session Timer**

Enable Session Timer

Minimum Value (secs):

Maximum Value (secs):

**Jitter Buffer**

Fixed

Fixed Delay (ms):

Adaptive

Normal Delay (ms):

Minimum Delay (ms):

Maximum Delay (ms):

**Keep Alive**

Enable Keep Alive

Keep Alive interval (secs):

Ignore Keep Alive Failure

### Music on Hold Settings

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

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

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.

**Jitter Buffer**

Setting	Description
Fixed	Enable fixed jitter buffer mode.
Fixed Delay (ms)	If Fixed is selected, enter the fixed jitter delay.
Adaptive	Enable adaptive jitter buffer mode.
Normal Delay (ms)	If Adaptive is selected, enter the normal or “target” delay.
Minimum Delay (ms)	Enter the minimum delay.
Maximum Delay (ms)	Enter the maximum delay. This time, in milliseconds, must be at least twice the minimum delay.

**Keep Alive**

Setting	Description
Enable Keep Alive	Enable SIP keep alive in service of NAT traversal and as a heartbeat mechanism to audit the SIP server health status. Once enabled, OPTIONS traffic should be sent whenever the account is registered. OPTIONS traffic will occur periodically according to the keep-alive interval.
Keep Alive Interval (secs)	Set the interval at which the OPTIONS for the keep-alive mechanism are sent.
Ignore Keep Alive Failure	Enable the phone to ignore keep-alive failure, if the failure can trigger account re-registration and re-subscription (and active calls are dropped).

## 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 135](#).

### 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.

### 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.

Setting	Description
Enable Call Forward Busy	Enables or disables forwarding incoming calls to the target number if: <ul style="list-style-type: none"><li>■ the number of active calls has reached the maximum number of calls configured for account x</li><li>■ Call Waiting Off is selected.</li></ul>
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.

## User Preferences

On the User Preferences page, you can set the language that appears on the WebUI. The User Preferences page is also available to phone users when they log on to the WebUI.

The user preference settings are also available as parameters in the configuration file. See [“user\\_pref Module: User Preference Settings” on page 134](#).

The screenshot shows the 'User Preferences' page. On the left is a blue sidebar menu with 'SYSTEM' at the top, followed by 'SIP Account Management' (Account 1-6), 'Call Settings' (Account 1-6), and 'User Preferences' (highlighted). The main content area has a dark header with tabs: STATUS, SYSTEM, NETWORK, CONTACTS, and CONFIGURATION. Below the header is the 'General User Settings' section, which includes a 'WebUI Language' dropdown menu currently set to 'English' and a blue 'Save' button.

### General User Settings

Click the link for each setting to see the matching configuration file parameter in [“Configuration File Parameter Guide” on page 100](#). Default values and ranges are listed there.

Setting	Description
WebUI Language	Sets the language that appears on the WebUI.

## Handset Settings

The Handset Settings allow you to configure account assignments and names for the cordless handsets that are registered to the base station. For more information on registering cordless handsets, see the VSP600/VSP601 User Guide.

The network settings are also available as parameters in the configuration file. See [“hs\\_settings Module: Handset Settings” on page 112.](#)

## Account Assignments

The **Account Assignments** table lists the maximum number of possible handsets, even if there are fewer handsets registered. The table always displays the maximum number of accounts, even if there are fewer SIP accounts enabled.

If you have not entered any unique handset names yet, then the default name of "HANDSET" appears.

On the Account Assignments table, you can select which accounts will be available for both incoming and outgoing calls on each handset.

The handset will first attempt to use the account you select under Default when going off-hook.

	Handset Name	Account 1	Account 2	Account 3	Account 4	Account 5	Account 6	Default
1	HANDSET A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Account 1 ▼
2	HANDSET B	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Account 2 ▼
3	HANDSET C	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Account 3 ▼
4	HANDSET D	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Account 4 ▼
5	HANDSET E	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Account 5 ▼
6	HANDSET F	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Account 6 ▼

Save

## Repeater Mode

On the **Repeater Mode** page, you can enable repeater mode. Enabling repeater mode allows the VSP610A base station to link with VTech VSP605A Range Extenders. With the VSP610A base station in repeater mode, you can extend the range of the registered cordless handsets.



The maximum number of concurrent active calls for all accounts is limited to two in repeater mode.

<b>SYSTEM</b> SIP Account Management Account 1 Account 2 Account 3 Account 4 Account 5 Account 6	STATUS    SYSTEM    NETWORK    CONTACTS    CONFIGURATION
	<b>Repeater Mode</b> <input type="checkbox"/> Enable Repeater Mode Warning: Changing the repeater mode will reboot your device. <input type="button" value="Save"/>

## Handset Name

On the **Handset Name** page, you can enter a name for each Handset. The Handset Name will be used throughout the WebUI and will appear on the handset Idle screen.

The Handset Name is limited to a maximum of 11 characters.

The default name is "HANDSET". Blank name fields are not allowed. If you click  when any fields are empty, an error message appears.

<b>SYSTEM</b> SIP Account Management Account 1 Account 2 Account 3 Account 4 Account 5 Account 6 Call Settings Account 1 Account 2 Account 3 Account 4 Account 5 Account 6 User Preferences Handset Settings Account Assignments Repeater Mode <b>Handset Name</b>	STATUS    SYSTEM    NETWORK    CONTACTS    CONFIGURATION
	<b>Handset Name</b> Handset 1: <input type="text" value="HANDSET A"/> Handset 2: <input type="text" value="HANDSET B"/> Handset 3: <input type="text" value="HANDSET C"/> Handset 4: <input type="text" value="HANDSET D"/> Handset 5: <input type="text" value="HANDSET E"/> Handset 6: <input type="text" value="HANDSET F"/> <input type="button" value="Save"/>



## Server Application

On the Server Application page, you can enter Action URIs to allow the VSP610A to interact with a server application by using an HTTP GET request. The action URI triggers a GET request when a specified event occurs. Action URIs allow an external application to take control of the display when an event occurs. These pre-defined events are listed under “Action URI” on the Server Application page.

Action URIs are typically used in conjunction with the XML Browser, which can be customized to deliver an appropriate user experience.

The VSP610A supports both push and pull server applications. Note that Action URI events are not “push” events as it is the phone that requests a URI when triggered by certain states. You can enable push server applications under “XML Push Settings”.

### Action URI Syntax

To access an XML application, the phone performs an HTTP GET on a URL.

An HTTP GET request may contain a variable name and variable value, which are separated by “=”. Each variable value starts and ends with “\$\$” in the query part of the URL.

Action URI variables pass dynamic data to the server. The valid URL format is:  
`http://host[:port]/dir/file name?variable name=$$variable value$$`

where:

- host is the hostname or IP address of the server supporting the XML application
- port is the port number the phones are using for the HTTP request

At the time of the HTTP call, the variable value field is populated with the appropriate data. For example, the following URL passes the SIP Account User Identifier to the server:

```
http://10.50.10.140/script.pl?name=$$SIPUSERNAME$$
```

A GET request then passes along the following information:

```
http://10.50.10.140/script.pl?name=42512
```

Assuming that the User Identifier is 42512.

Variable names are defined by the particular XML application being called.

Variable values are predefined and depend on the status of the phone. If the variable has no meaning in the current status, then the phone sends an empty string.

The table below lists all possible variable values. Note that variables applicable during an Incoming or Active Call (such as INCOMINGNAME and REMOTENUMBER) are initialized at the beginning and at the end of the call.

Variable value	Description
SIPUSERNAME	SIP Account User Identifier
DISPLAYNAME	SIP Account Display Name

Variable value	Description
LOCALIP	Phone's local IP Address
INCOMINGNAME	Caller ID name of the current Incoming Call
REMOTENUMBER	Remote party phone number (Incoming or Outgoing)
REGISTRATIONSTATE	Registration state available from the Registration event. Values are: <ul style="list-style-type: none"> <li>■ REGISTERED</li> <li>■ DEREGISTERED</li> <li>■ FAIL</li> </ul>
MAC	The phone's MAC Address
MODEL	The phone's model number: VSP610A.

STATUS
SYSTEM
NETWORK
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CONFIGURATION

**SYSTEM**

SIP Account Management

Account 1

Account 2

Account 3

Account 4

Account 5

Account 6

Call Settings

Account 1

Account 2

Account 3

Account 4

Account 5

Account 6

User Preferences

Handset Settings

Account Assignments

Repeater Mode

Handset Name

**Server Application**

**Server Application**

**Action URI**

End of boot sequence:

Successful Registration:

On Hook:

Off Hook:

Incoming Call:

Outgoing Call:

Timer Based:

Timer Based Interval:

Connected:

Registration Event:

**XML Push Settings**

Enable HTTP Push:

Enable Push during call

## Action URI

Setting	Description
End of boot sequence	The End of boot sequence URI is triggered at the end of the phone boot sequence. Using the End of boot sequence URI, it is possible to develop self-provisioning on the phone. For example, an XML application can identify the phone and generate a MAC-specific file on the fly.
Successful Registration	The Successful Registration URI is triggered the first time the phone registers successfully to a SIP Account. If the phone registers to multiple SIP Accounts, then the Successful Registration URI is triggered for each line.

Setting	Description
On Hook	<p>The On Hook URI is triggered when the phone transitions from Active to Idle (or from Paging to Idle). For example, when:</p> <ul style="list-style-type: none"> <li>■ The user presses the <b>End</b> soft key</li> <li>■ The user hangs up the handset during a call</li> <li>■ A transfer is completed and the user returns to idle</li> <li>■ The far end hangs up</li> <li>■ The call was not answered</li> <li>■ The call fails.</li> </ul>
Off Hook	<p>The Off Hook URI is triggered when the user goes to Dial mode by:</p> <ul style="list-style-type: none"> <li>■ Lifting the handset</li> <li>■ Pressing the SPEAKER hard key</li> <li>■ Pressing the [New] soft key during a held call.</li> </ul> <p>Note that the Off Hook URI will NOT be triggered when calling a pre-defined number and going immediately to Dialing mode—this event triggers the Outgoing Call URI instead.</p>
Incoming Call	<p>The Incoming Call URI is triggered for each Incoming Ring event or Call Waiting event. Using the Incoming Call URI, it is possible to display extra information on the phone for an Incoming Call. For example, the XML application that is called when there is an Incoming Call can do a database lookup and display information on the caller.</p> <p>Note that this Action URI will not be triggered if DND or Call Forward All is enabled or if Call Waiting is disabled (i.e., the call is rejected).</p>
Outgoing Call	<p>The Outgoing Call URI is triggered each time a SIP INVITE message is sent (Dialing mode). For example, after:</p> <ul style="list-style-type: none"> <li>■ Pressing the <b>Dial</b> key in Pre-Dial with populated number</li> <li>■ Using the dial pad to speed dial a call</li> <li>■ Dialing a Directory number by going off-hook.</li> </ul>
Timer Based	<p>The Timer Based URI will be triggered when the configured timeout expires. The timer starts at the end of the phone boot sequence.</p>
Timer Based Interval	<p>Enter the interval before the Timer Based URI is triggered.</p>
Connected	<p>The Connected URI is triggered each time the phone is in an Active Call or is Paging.</p>

Setting	Description
Registration Event	<p>The Registration Event URI is triggered every time there is a registration state change. For example:</p> <ul style="list-style-type: none"><li>■ Registered</li><li>■ Deregistered</li><li>■ Fail (Registration timed out, refused, or expired)</li></ul> <p>The Registration Event URI is not triggered when the same event is repeated.</p>

### XML Push Settings

Setting	Description
Enable HTTP Push	Select to enable HTTP push, which enables the phone to display XML objects that are “pushed” to the phone from the server via http/https POST or SIP NOTIFY.
Enable Push during call	Select to enable the phone to display pushed XML objects during a call. Otherwise, the XML application is displayed after the call is over.

## Network Pages

You can set up the VSP610A 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 VSP610A settings must match the network settings.

The network settings are grouped into Basic and Advanced Settings. IPv4 and IPv6 protocols are supported.

When both IPv4 and IPv6 are enabled and available, the following guidelines apply when determining which stack to use:


- For outgoing traffic, the IP address (or resolved IP) in the server field—either IPv4 or IPv6—will determine which stack to be used.
- In general, most operations can be associated with one of the servers listed on the “Basic Network Settings” page. However, for operations triggered by/dependent upon network status, the phone must determine which server to use. For example, a special case like the “Network down” LED indication on the base station can be ambiguous for server association. Because its primary purpose is to aid in troubleshooting SIP registration issues, this case will be associated with the SIP registration server.
- DNS entries with both IPv4 and IPv6 settings can be used to resolve FQDN entries. There are no preferences with the order of the DNS queries.
- Pcap should include traffic for both stacks.
- Dual stack operations should be transparent to PC port traffic.



**NOTE**

- PnP is not supported on IPv6.
  - VPN is not supported in IPv6 or PPPoE.
- 

The network settings are also available as parameters in the configuration file. See [“network Module: Network Settings” on page 113](#).

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

## Basic Network Settings

STATUS
SYSTEM
NETWORK
CONTACTS
CONFIGURATION

**NETWORK**

Basic

Advanced

### Basic Network Settings

**IPv4**

Disable  
 DHCP  
 Static IP

IP Address:   
 Subnet Mask:   
 Gateway:

PPPoE

Username:   
 Password:

Manually Configure DNS

Primary DNS:   
 Secondary DNS:

**IPv6**

Disable  
 Auto Configuration  
 Static IP

IP Address:   
 Prefix (0-128):   
 Gateway:

Manually Configure DNS

Primary DNS:   
 Secondary DNS:



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 113](#). Default values and ranges are listed there.

#### IPv4

Setting	Description
Disable	Disables all related IPv4 settings.
DHCP	DHCP is selected (enabled) by default, which means the VSP610A 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 VSP610A, as well as addresses for the Subnet Mask, Gateway, and DNS Server(s).

Setting	Description
Static IP	When Static IP is selected, you must enter a static IP address for the VSP610A, 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 VSP610A.
Subnet Mask	Enter the subnet mask.
Gateway	Enter the address of the default gateway (in this case, your router).
PPPoE	Select to enable PPPoE (Point-to-Point Protocol over Ethernet) mode.
PPPoE Username	Enter your PPPoE account username.
PPPoE password	Enter your PPPoE account password.
Manually Configure DNS	Select to enable manual DNS configuration.
Primary DNS	If DHCP is disabled, enter addresses for the primary and secondary DNS servers.
Secondary DNS	

## IPv6

Setting	Description
Disable	Disables all related IPv6 settings.
Auto Configuration	Auto configuration is selected (enabled) by default, which means the VSP610A will get its IP address, Gateway, and DNS Server(s) from the network. When Auto Configuration is disabled, you must enter a static IP address for the VSP610A, as well as addresses for the Gateway and DNS Server(s).
Static IP	When Static IP is selected, you must enter a static IP address for the VSP610A, as well as an IPv6 address prefix, Gateway, and DNS Server(s).
IP Address	If Auto Configuration is disabled, enter a static IP address for the VSP610A.
Prefix (0–128)	Enter the IPv6 address prefix length (0 to 128 bits).
Gateway	Enter the address of the default gateway (in this case, your router).
Manually Configure DNS	Select to enable manual DNS configuration.
Primary DNS	If Auto Configuration is disabled, enter addresses for the primary and secondary DNS servers.
Secondary DNS	

## Advanced Network Settings

### VLAN

You can organise your network and optimise 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 113](#). 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. <b>Note:</b> 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.

## VPN

You can operate the VSP610A SIP DECT base station over a Virtual Private Network (VPN). VPN enables remote users and remote sites to connect to a main corporate network and SIP server with a high level of performance and security.

Configuring VPN using the WebUI consists of enabling VPN and uploading a VPN configuration file. The VPN configuration file (**openvpn\_client.tar**) must contain the following files:

- **client.conf**
- a **keys** folder containing
  - **ca.crt**
  - **client.crt**
  - **client.key**

The filename of the VPN client configuration file and certificates must match the names provided above. For more information about configuring VPN, please contact your dealer.



**NOTE**

Ensure that NTP or manual time is configured correctly so that the VSP610A is using the correct date and time before VPN setup. Mismatched time between sites and servers may invalidate the initial TLS handshake.

Setting	Description
VPN Enable	Enables or disables the phone to connect using the OpenVPN client. If VPN is enabled, but not connected, all SIP traffic will continue to route via the LAN IP. If VPN is enabled and connected, all SIP traffic will route via the VPN tunnel. The exception is the web server, which will still be accessible via the LAN IP.
VPN Config (file upload)	Browse to and upload the VPN configuration file <b>openvpn_client.tar</b> .

## Contacts Pages

### Base Directory

On the Base Directory page, you can manage directory entries that will be available on all handsets. You can sort, edit, delete, and add contact information for up to 1000 entries. In order to back up your contacts or import another local directory file, the page also enables you to export and import the base directory.

The Base Directory lists entries across multiple pages. Click [Next](#), [Last](#), [First](#), or a page number to view the desired page of entries.



Each handset also has its own directory. You can add entries to the handset directory using the handset. For more information, see the VSP610A/VSP601A User Guide.

STATUS
SYSTEM
CONTACTS
CONFIGURATION

**CONTACTS**

Base Directory

Blacklist

LDAP

Remote XML

#### Base Directory

Select All  [Sort By Last Name](#)

Total: 21	First Name	Last Name	Ringer Tone	Home	Work	Mobile	Account	
<input type="checkbox"/>	Angela	Martin	0	7325550118			1	<a href="#">Edit</a>
<input type="checkbox"/>	Bronwyn	McDonald	0	2325550140			1	<a href="#">Edit</a>
<input type="checkbox"/>	Charlie	Johnson	0	5550198			1	<a href="#">Edit</a>
<input type="checkbox"/>	Dale	Appleton	0		6045550135		1	<a href="#">Edit</a>
<input type="checkbox"/>	David	Carter	3	2325550194	2325550177		2	<a href="#">Edit</a>
<input type="checkbox"/>	Davis	Swerdlow	0		2325550172		1	<a href="#">Edit</a>
<input type="checkbox"/>	Elkhart	Taxi	0		6045550155		1	<a href="#">Edit</a>
<input type="checkbox"/>	Graham	Ball	0		2325550176		1	<a href="#">Edit</a>
<input type="checkbox"/>	Kathryn	Dolphy	0		6045550195		1	<a href="#">Edit</a>
<input type="checkbox"/>	Linda	Miller	0		6045550117		2	<a href="#">Edit</a>
<input type="checkbox"/>	Lydia	Braithwaite	0	2325550157			1	<a href="#">Edit</a>
<input type="checkbox"/>	Martin	Meyers	0	2325550122			1	<a href="#">Edit</a>
<input type="checkbox"/>	Mary	Williams	0		6045550145	6045550146	1	<a href="#">Edit</a>
<input type="checkbox"/>	Richard	Serling	0		6045550141	7875550181	2	<a href="#">Edit</a>
<input type="checkbox"/>	Robert	Brown	2		6045550105		2	<a href="#">Edit</a>
<input type="checkbox"/>	Sandro	Voss	0	2325550149			1	<a href="#">Edit</a>
<input type="checkbox"/>	Stefan	Wheeler	0		2325550161		1	<a href="#">Edit</a>
<input type="checkbox"/>	Susan	Ballance	0		6045550170		1	<a href="#">Edit</a>
<input type="checkbox"/>	Terry	Ng	0		2325550187		1	<a href="#">Edit</a>
<input type="checkbox"/>	Ursula	Baldwin	0	6045550166			1	<a href="#">Edit</a>

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

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

#### Import Base Directory

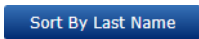







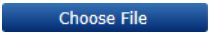


No File Chosen [Choose File](#)

First line is header, skip

#### Export Base Directory

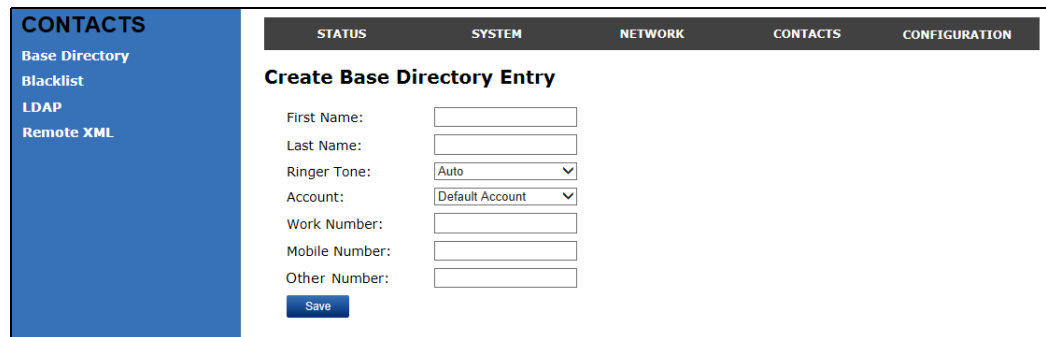
Table 5 describes the buttons available on the Base Directory page.

**Table 5. Base Directory commands**

Click	To...
	Sort the list by last name.
	Edit information for an entry
	View the next page of entries.
	View the last page of entries.
	View the first page of entries.
	Delete selected entries from the directory. Click <b>Select All</b> to select every entry on the page you are viewing.
	Add a new directory entry.
	Delete all Directory entries.
	Import a directory file.
 	Export the directory.

**To add a new directory entry:**

1. Click  .  
The **Create Base Directory Entry** page appears.



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

## Create Base 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 1–6	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. The directory can be exported as an .xml or .csv file. After exporting the file, open it in an .xml or .csv editor and add or modify entries.



When importing a .csv file, you can select whether the first line should be treated as a header and ignored for the import.

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.



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 Parameters” on page 139](#).




Directory files in .xml format 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>

Local Directory WebUI field	Directory file XML tag
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 VSP610A rejects calls from numbers that match blacklist entries. You can sort, edit, delete, and add up to 1000 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 across multiple pages. Click , , , or a page number to view the desired page of entries.



You can also use the VSP601A menu to manage blacklist entries. For more information, see the VSP610A/VSP601A User Guide.

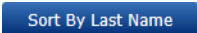



The screenshot shows the 'Blacklist' page in the VSP610A WebUI. The page has a blue sidebar with navigation options: 'CONTACTS', 'Base Directory', 'Blacklist', 'LDAP', and 'Remote XML'. The main content area is titled 'Blacklist' and includes a 'Select All' checkbox and a 'Sort By Last Name' button. Below this is a table with the following data:

Total: 3	First Name	Last Name	Home	Work	Mobile	Account	
<input type="checkbox"/>	Aa-Won	Marketing		2325550108		1	Edit
<input type="checkbox"/>	Jordan	Tyler	2325551011			1	Edit
<input type="checkbox"/>	Roger	Fredericks		3215550109		1	Edit

Below the table are buttons for 'Delete Selected Entries', 'Add New Entry', and 'Clear Blacklist'. There is also an 'Import Blacklist' section with a 'Choose File' button, 'Import XML', and 'Import CSV' buttons. An 'Export Blacklist' section has 'Export XML' and 'Export CSV' buttons.

Table 6 describes the buttons available on the Blacklist page.

**Table 6. Blacklist commands**

Click	To...
	Sort the list by last name.
	Edit information for an entry
	View the next page of entries.
	View the last page of entries.

**Table 6. Blacklist commands**

Click	To...
<input type="button" value="First"/>	View the first page of entries.
<input type="button" value="Delete Selected Entries"/>	Delete selected entries. Click <b>Select All</b> to select every entry on the page you are viewing.
<input type="button" value="Add New Entry"/>	Add a new entry.
<input type="button" value="Clear Directory"/>	Delete all entries.
<input type="button" value="Choose File"/>	Import a blacklist file.
<input type="button" value="Export XML"/> <input type="button" value="Export CSV"/>	Export the blacklist.

**To add a new blacklist entry:**

1. Click  .  
The **Create Blacklist Entry** page appears.

2. 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 1–6	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 VSP610A. The blacklist can be exported as an .xml or .csv file. After exporting the file, open it in an .xml or .csv editor and add or modify entries.



When importing a .csv file, you can select whether the first line should be treated as a header and ignored for the import.

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.



Using the configuration file, you can set whether an imported blacklist file adds to or replaces existing entries. See [“file Module: Imported File Parameters” on page 139](#).

Blacklist files in .xml format 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 127](#).

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

CONTACTS	STATUS	SYSTEM	NETWORK	CONTACTS	CONFIGURATION
Local Directory					
Blacklist					
<b>LDAP</b>					
Remote XML					

LDAP	
<input type="checkbox"/> Enable LDAP	
Directory name:	<input type="text"/>
Server address:	<input type="text"/>
Port:	<input type="text" value="389"/>
Version:	<input type="text" value="2"/>
Authentication scheme:	<input type="text" value="Simple"/>
Authentication name:	<input type="text"/>
Authentication password:	<input type="text"/>
Base:	<input type="text"/>
Maximum number of entries:	<input type="text" value="200"/>
Maximum search delay:	<input type="text" value="0"/>
First name filter:	<input type="text" value="Firstname"/>
Last name filter:	<input type="text" value="Lastname"/>
Phone number filter:	<input type="text"/>
First name attribute:	<input type="text"/>
Last name attribute:	<input type="text"/>
Work phone number attribute:	<input type="text"/>
Mobile phone number attribute:	<input type="text"/>
Other phone number attribute:	<input type="text"/>
Lookup for incoming calls:	<input type="text" value="Disable"/>
Lookup in dialing mode:	<input type="text" value="Disable"/>
<input type="button" value="Save"/>	

### LDAP Settings

Click the link for each setting to see the matching configuration file parameter in [“remoteDir Module: Remote Directory Settings” on page 127](#). Default values and ranges are listed there.

### About LDAP attribute filters

The LDAP filters on this page give you control over how directory entry search results are determined. For example, consider if **gn** is the firstname attribute and **sn** is the lastname attribute in the LDAP search base. The filter `<attribute>=%` returns records based on the beginning of the user-entered string. If `gn=%` is used for a firstname filter, entering “da” returns records such as Daisy, Dale, David, etc.

The filter <attribute>=\* returns records containing the user-entered string anywhere in that attribute. If gn=\* is used for a firstname filter, entering “ar” returns records such as Karen, Arnold, Gary, etc.

The filter ((gn=%)(sn=%)) returns firstname and lastname records that start with the user-entered string.

LDAP number filters give you the same control over number searches and matches. If for example, you have defined the number attributes **telephoneNumber**, **mobile** and **otherPhone** for Work, Mobile and Other numbers respectively, then the filter ((telephoneNumber=\*)(mobile=\*)(otherPhone=\*)) will display the correct directory information if the number (from an incoming call, or a dialed number) matches a number in any three of those fields.

The filter telephoneNumber=\* will display the correct directory information if the incoming call number matches a number in the “Work” field only.

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.
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 or LDAP field names, 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.

Setting	Description
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.
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.

## Remote XML

The VSP610A supports three server-hosted Remote XML directories. A total of 5000 Remote XML directory entries are supported. The 5000 entries can be shared across the three remote XML directories.

When the user selects a remote directory to view, the VSP610A will sync with the directory server. The handset will display **Sync failed**. if any of the following failing conditions is encountered:

- Server not reachable
- Remote XML directory file is not available
- Invalid XML directory file

## Remote XML Directory Format

The following shows a sample single-entry file which can be used in a remote XML directory. Note that the default tags are the same as those defined for the Local Directory.

```
<?xml version="1.0" encoding="utf-8"?>
<DIR_ENTRY>
<DIR_ENTRY_NAME_FIRST>John</DIR_ENTRY_NAME_FIRST>
<DIR_ENTRY_NAME_LAST>Smith</DIR_ENTRY_NAME_LAST>
<DIR_ENTRY_NUMBER_OTHER>3333</DIR_ENTRY_NUMBER_OTHER>
<DIR_ENTRY_NUMBER_WORK>1111</DIR_ENTRY_NUMBER_WORK>
<DIR_ENTRY_NUMBER_MOBILE>2222</DIR_ENTRY_NUMBER_MOBILE>
</DIR_ENTRY>
```

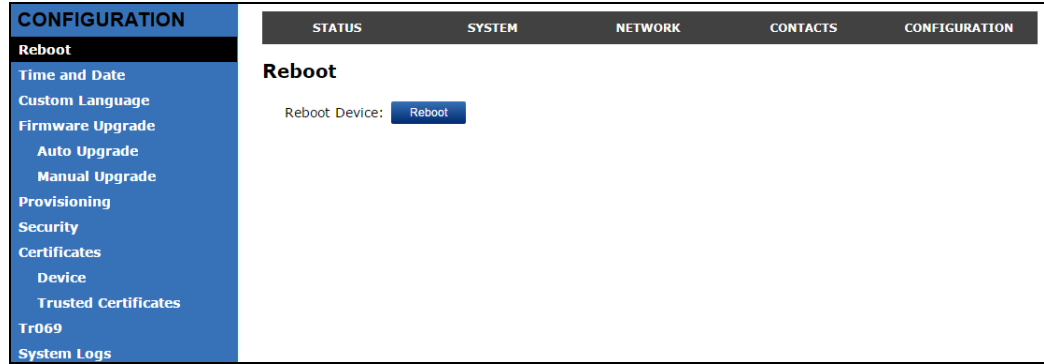
CONTACTS		STATUS	SYSTEM	NETWORK	CONTACTS	CONFIGURATION																
Local Directory		<h3>Remote XML Directories</h3> <table border="1"> <thead> <tr> <th>ID</th> <th>Name</th> <th>Remote XML URI</th> <th>Enable Incoming/Outgoing Call Lookup</th> </tr> </thead> <tbody> <tr> <td>1</td> <td><input type="text"/></td> <td><input type="text"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>2</td> <td><input type="text"/></td> <td><input type="text"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>3</td> <td><input type="text"/></td> <td><input type="text"/></td> <td><input type="checkbox"/></td> </tr> </tbody> </table>					ID	Name	Remote XML URI	Enable Incoming/Outgoing Call Lookup	1	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	2	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	3	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
ID	Name						Remote XML URI	Enable Incoming/Outgoing Call Lookup														
1	<input type="text"/>						<input type="text"/>	<input type="checkbox"/>														
2	<input type="text"/>						<input type="text"/>	<input type="checkbox"/>														
3	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>																			
Blacklist																						
LDAP																						
Remote XML																						
<input type="button" value="Save"/>																						

Setting	Description
Name	Sets the name of the directory as it will appear on the VSP610A Directory list. The following order applies to the Directory list when multiple server-based directories are enabled: <ol style="list-style-type: none"><li>1. Local</li><li>2. Blacklist</li><li>3. LDAP</li><li>4. Broadsoft</li><li>5. Remote XML directory 1</li><li>6. Remote XML directory 2</li><li>7. Remote XML directory 3</li></ol> Any Remote XML directories will move up the list if LDAP and/or Broadsoft directories are not enabled.
Remote XML URI	Enter the location of the XML directory file, from which the phone will sync and retrieve directory entries.
Enable Incoming/ Outgoing Call Lookup	Enables/disables the call lookup feature for incoming and outgoing calls.

## Configuration Pages

### Reboot

To manually reboot the VSP610A and apply settings that you have updated, click [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 122](#).

The screenshot shows the 'CONFIGURATION' page with a sidebar on the left containing options like Reboot, Time and Date, Custom Language, Firmware Upgrade, Auto Upgrade, Manual Upgrade, Provisioning, Security, Certificates, Device, Trusted Certificates, Tr069, and System Logs. The main content area is titled 'Time and Date Format' and includes sections for 'Network Time Settings' and 'Time Zone and Daylight Savings Settings'. The 'Network Time Settings' section has a checked 'Enable Network Time' checkbox, an NTP Server field with 'europe.pool.ntp.org', and an unchecked 'Use DHCP (Option 42)' checkbox. The 'Time Zone and Daylight Savings Settings' section includes a 'Time Zone' dropdown set to '-5 United States-East', a checked 'Automatically adjust clock for Daylight Savings' checkbox, and an unchecked 'User-defined Daylight Savings Time' checkbox. Below this are fields for 'Daylight Savings Start' (March, Week 2, Sunday, 02:00) and 'Daylight Savings End' (November, Week 1, Sunday, 02:00), a 'Daylight Savings Offset (minutes)' field set to 60, and an unchecked 'Use DHCP (Option 2/100/101)' checkbox. The 'Manual Time Settings' section has 'Date' (21/12/2015) and 'Time' (18:20:10) fields, an 'Apply Now' button, and a 'Save' button at the bottom.

## 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: <ol style="list-style-type: none"> <li>1. Option 42</li> <li>2. NTP Server</li> <li>3. Manual time.</li> </ol>

## 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 Daylight Savings Time	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.
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 <b>Date</b> 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 [Apply Now](#) to start the VSP610A using the manual time settings.



## Custom Language

On the Export Translation page, you can export WebUI language strings. After exporting language strings, you can use the resulting file as the basis for a custom language translation file (.tpk file).



For the VSP610A, custom language does not apply to the handset user interface. You can export and import only the WebUI language strings.

You can import one custom language for use on the WebUI. The custom language adds to the existing languages available with the firmware.

Importing a custom language can only be done using the configuration file. See [“file Module: Imported File Parameters” on page 139](#). For details on creating and formatting a translation file, see the Custom Language document at [businessphones.vtech.com](http://businessphones.vtech.com).



The available languages for export are identical to the WebUI Language list described in [“User Preferences” on page 46](#).

The filenames of the exported language file will be:

- WebUI: <Model Number>-<Display Name>-webui.tpk

## Firmware Upgrade

You can update the VSP610A 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 VSP610A firmware.



The firmware upgrade settings are also available as parameters in the configuration file. See [“provisioning Module: Provisioning Settings” on page 117](#).

## Firmware Server Settings

Click the link for each setting to see the matching configuration file parameter in [“provisioning Module: Provisioning Settings” on page 117](#). Default values and ranges are listed there.

Setting	Description
Base Firmware URL	The URL where the VSP610A base station firmware update file resides. This should be a full path, including the filename of the firmware file.
Handset Firmware URL	The URL where the VSP601A Cordless Handset 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  or  .



You can also configure the VSP610A to check for firmware updates at regular intervals. See [“Provisioning” on page 76](#).

## Manual Firmware Update and Upload

On the Manual Firmware Update Settings page, you can upgrade the VSP610A and handset 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 [Choose File](#) to locate and open the firmware update file.
2. Click [Update from File](#) or [Install Handset File](#).

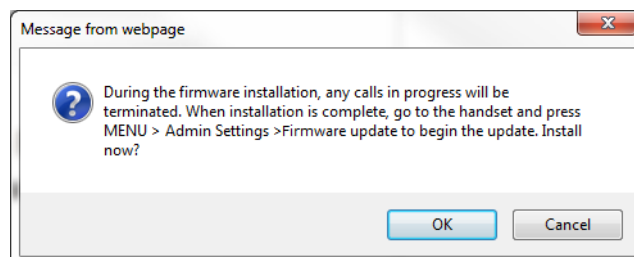
After clicking [Update from File](#) the VSP610A will update its firmware and restart. If you are updating handset firmware, you must perform one more step after clicking [Install Handset File](#).

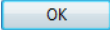

## Updating a Cordless Handset

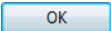
Updating DECT cordless handset firmware using the WebUI is a two-step process. First you must download the handset firmware and install it on the base station. Second, you must install the handset firmware on the handset. The handset downloads the firmware over the air from the base station.

### To install the handset firmware on the basestation:

1. Click [Install Handset Firmware Now](#) for the Firmware Server update or [Install Handset File](#) for the Manual Firmware update.  
The confirmation dialog box shown below appears.



2. To install the handset firmware, click  . The message **Installing handset firmware. Please wait...** appears. To cancel the download, click  .

After clicking  , the message **System update in progress. Please wait...** appears on the handset.

After a successful update, the message **Firmware installation successful** appears on the WebUI.

An error message appears if:

- the handset firmware is already up to date.
- the handset firmware URL is incorrect, or the file cannot be retrieved for any other reason.
- the handset firmware file is corrupted.
- the handset doesn't recognize the firmware file. For example, the firmware file may belong to a different ErisTerminal product.

#### ***To install the firmware on the cordless handset:***

1. On the handset, press **MENU**, and then select **Admin settings**.
2. Enter the admin password. The default is **admin**. To switch between entering upper or lower-case letters, press the \* key.
3. On the Admin settings menu, select **Firmware update**.  
The handset checks for new firmware. If new firmware is found, the handset screen asks you to proceed with the update.



**NOTE**

Only one handset at a time can perform a firmware update. The base LEDs flash to indicate the base is busy and all incoming calls are rejected while the update is in progress.

## Provisioning

Provisioning refers to the process of acquiring and applying new settings for the VSP610A using configuration files retrieved from a remote computer. After a VSP610A is deployed, subsequent provisioning can update the VSP610A with new settings; for example, if your service provider releases new features. See also [“Provisioning Using Configuration Files” on page 92](#).

With automatic provisioning, you enable the VSP610A 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 VSP610A settings (configuration and/or firmware) yourself via **Provisioning > Import Configuration** and/or **Firmware Upgrade > Manual Upgrade**. Manual provisioning can only be performed on one VSP610A at a time.

On the Provisioning page, you can enter settings that will enable the VSP610A to receive automatic configuration and firmware updates. The Provisioning page also allows you to manually update VSP610A configuration from a locally stored configuration file using an Import function. You can also export the VSP610A configuration—either to back it up or apply the configuration to another VSP610A in the future—to a file on your computer.

The provisioning process functions according to the Resynchronization settings and Provisioning Server Settings. The VSP610A 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 VSP610A 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 117](#)).



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 VSP610A 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 117](#).

CONFIGURATION	STATUS	SYSTEM	NETWORK	CONTACTS	CONFIGURATION
<ul style="list-style-type: none"> <li>Reboot</li> <li>Time and Date</li> <li>Custom Language</li> <li>Firmware Upgrade                             <ul style="list-style-type: none"> <li>Auto Upgrade</li> <li>Manual Upgrade</li> </ul> </li> <li style="background-color: #0056b3; color: white;">Provisioning</li> <li>Security                             <ul style="list-style-type: none"> <li>Certificates                                     <ul style="list-style-type: none"> <li>Device</li> <li>Trusted Certificates</li> </ul> </li> </ul> </li> <li>Tr069</li> <li>System Logs</li> </ul>	<div style="border: 1px solid #ccc; padding: 10px;"> <h3 style="margin: 0;">Provisioning Server</h3> <p>Server URL: <input type="text" value="http://et.vtechphones.com/re/"/></p> <p>Server Authentication Name: <input type="text"/></p> <p>Server Authentication Password: <input type="password"/></p> <h3 style="margin: 10px 0 0 0;">Plug-and-Play Settings</h3> <p><input checked="" type="checkbox"/> Enable PnP Subscribe</p> <h3 style="margin: 10px 0 0 0;">DHCP Settings</h3> <p><input checked="" type="checkbox"/> Use DHCP Options</p> <p>DHCP Option Priority 1: <input type="text" value="66"/></p> <p>DHCP Option Priority 2: <input type="text" value="159"/></p> <p>DHCP Option Priority 3: <input type="text" value="160"/></p> <p>Vendor Class ID (DHCP 60): <input type="text" value="Vtech Vesa VXXxxx"/></p> <p>User Class Info (DHCP 77): <input type="text" value="Vtech Vesa VXXxxx"/></p> </div>				

## Provisioning Settings

Setting	Description
Server URL	<p>URL of the provisioning file(s). The format of the URL must be RFC 1738 compliant, as follows:</p> <pre>"&lt;schema&gt;://&lt;user&gt;:&lt;password&gt;@&lt;host&gt;:&lt;port&gt;/&lt;url-path&gt;"</pre> <p>"&lt;user&gt;:&lt;password&gt;@" may be empty.  "&lt;port&gt;" can be omitted if you do not need to specify the port number.</p> <p>The default URL is the VTech redirect server:  <a href="https://et.vtechphones.com/rg2/">https://et.vtechphones.com/rg2/</a></p>
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	<p>Select to enable the VSP610A to search for the provisioning URL via a SUBSCRIBE message to a multicast address (224.0.1.75). The VSP610A expects the server to reply with a NOTIFY that includes the provisioning URL. The process times out after five attempts.</p>

## DHCP Settings

Setting	Description
Use DHCP Options	<p>Enables the VSP610A to use DHCP options to locate and retrieve the configuration file. When selected, the VSP610A 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.</p> <p><b>Note:</b> Ensure that DHCP is also enabled on the "Basic Network Settings" page.</p>
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.

Setting	Description
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

Mode:

Bootup Check:

Schedule Check:

Disable

Interval(minutes)

Days of the Week

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

Start Hour:

End Hour:

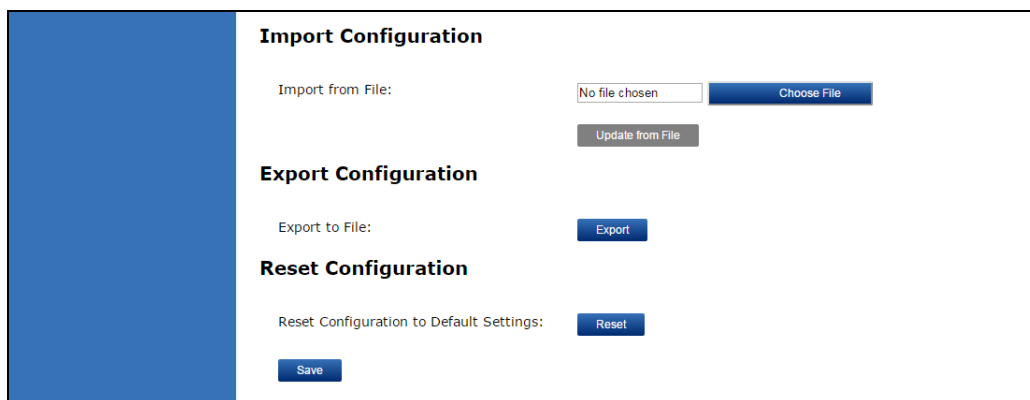
Use encryption for configuration file

Passphrase:

## Resynchronization

Setting	Description
Mode	Sets which files for which the VSP610A checks. It can check for configuration files, firmware update files (from the URL entered on the Firmware Server Settings page), or both. <b>Note:</b> 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 VSP610A 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 VSP610A checks for updates.

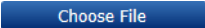

Setting	Description
Start Hour	Select the hour of the day on which the VSP610A checks for updates.
End Hour	Select the hour of the day on which the VSP610A stops checking for updates.
Use encryption	Enables an AES-encrypted configuration file to be decrypted before being applied to the VSP610A. Select if the configuration file has been secured using AES encryption. See <a href="#">“Securing configuration files with AES encryption” on page 98.</a>
Passphrase	If the configuration file has been secured using AES encryption, enter the 16-bit key. See <a href="#">“Securing configuration files with AES encryption” on page 98.</a>



## Import Configuration

You can configure the VSP610A 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 92.](#)

### To import a configuration file:

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

The VSP610A will update its configuration.

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

- The VSP610A 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 VSP610A 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.



NOTE

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

- SIP account authentication password
- EAPOL password
- PPPoE password
- Firmware server password
- Provisioning server password
- Encryption passphrase
- TR-069 password
- TR-069 connection request password
- Administrator access password
- User access password
- LDAP 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 121](#)

### To export the configuration file:

- Click  .

The format of the exported file is **<model name>\_<mac address>.cfg**. For example, **VSP610A\_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 VSP610A to its default settings.

**To reset the VSP610A 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, configure the phone lock feature, and enter web server settings.



By default, after bootup, the VSP610A alerts you if the default passwords (user password and admin password) are still in use.

The security settings are also available as parameters in the configuration file. See [“web Module: Web Settings” on page 132](#).

CONFIGURATION	STATUS	SYSTEM	NETWORK	CONTACTS	CONFIGURATION
Reboot	<b>Passwords</b>				
Time and Date	<b>Administrator Password</b>				
Custom Language	Enter Old Password: <input type="text"/>				
Firmware Upgrade	Enter New Password: <input type="text"/>				
Auto Upgrade	Re-enter New Password: <input type="text"/>				
Manual Upgrade	<b>User Password</b>				
Provisioning	Enter New Password: <input type="text"/>				
<b>Security</b>					
Certificates					
Device					

### Administrator Password

You can set the administrator password on the WebUI or by using provisioning. For more information on using provisioning to set the administrator password, see [“profile Module: Password Settings” on page 149](#).


#### *To change the admin password:*

1. Enter the old password (for a new VSP610A, 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  .

## User Password

You can set the user password on the WebUI or by using provisioning. For more information on using provisioning to set the user password, see [“profile Module: Password Settings” on page 149](#).

### To change the User password:

1. Enter the old password (for a new VSP610A, 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	
HTTP Server Port:	<input type="text" value="80"/>
<input type="checkbox"/> Enable Secure Browsing	
HTTPS Server Port:	<input type="text" value="443"/>

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.



Changing the Web Server settings will reboot the VSP610A.

**NOTE**

## Trusted Servers

The Trusted Servers setting provides a means of blocking unauthorized SIP traffic. When enabled, each account's Registration server, SIP server, Outbound Proxy server and Backup Outbound Proxy server will be used as sources for trusted SIP traffic. All unsolicited SIP traffic (for example, INVITE, NOTIFY, unsolicited MWI, OPTIONS) will be blocked unless it is from one of the trusted servers with the enabled accounts.

If additional trusted sources are required beyond what has been specified with the enabled accounts (for example, if IP dialing or other types of server traffic need to be secured), use the Trusted IP settings on the Security page.

	<b>Trusted Servers</b> <input type="checkbox"/> Accept SIP account servers only
--	--

Setting	Description
Accept SIP account servers only	Enable or disable using the account servers as sources for trusted SIP traffic.

## Trusted IP

In addition to the Trusted Servers setting, incoming IP traffic can be filtered using an "Allowed IP" list of IP addresses. When this means is enabled, all unsolicited IP traffic will be blocked unless it is from one of the trusted IP addresses on the "Allowed IP" list.

You can enter the "Allowed IP" list in the 10 fields on the "Trusted IP" section. Entries on the "Allowed IP" list must be specified as IP addresses (IPv4 or IPv6).

Three formats are supported for entries on the "Allowed IP" list:

1. IP range specified using CIDR notation (defined in rfc4632). IPv4 or IPv6 address followed by a prefix; for example, 192.168.0.1/24.
2. IP range specified with a pair of starting and ending IPv4 or IPv6 addresses, separated by '-' (for example, 192.168.0.1-192.168.5.6).
  - No space before or after '-'
  - Both starting IP & ending IP have to be with the same IP version
  - Starting IP has to be smaller than the ending IP; otherwise, all traffic will be dropped.
3. Single IP address in IPv4 or IPv6.



To ensure WebUI access after configuring Trusted IP, you must include the IP of the Web Browser on the "Allowed IP" list.

### Trusted IP

Accept only allowed IP for incoming requests

Allowed IP 1:

Allowed IP 2:

Allowed IP 3:

Allowed IP 4:

Allowed IP 5:

Allowed IP 6:

Allowed IP 7:

Allowed IP 8:

Allowed IP 9:

Allowed IP 10:

Setting	Description
Accept only allowed IP for incoming requests	Enable or disable using the "Allowed IP" list to filter all IP traffic.
Allowed IP 1–10	Enter IP addresses or address ranges to be used as sources of authorized IP traffic.

## Certificates



You can add two types of certificates using the WebUI or the provisioning file (see [“file Module: Imported File Parameters” on page 139](#)). 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.
- **Trusted**—Trusted Certificates are for server authentication with secured HTTP transaction in the following applications: SIP signaling, Provisioning, Firmware, LDAP directory service, and Broadsoft directory service. Up to 20 trusted certificates can be installed.

### Device Certificate

The screenshot shows the 'Device Certificate' configuration page. On the left is a navigation menu with 'Certificates' selected. The main content area has a top navigation bar with 'CONFIGURATION' selected. Below this, the page title is 'Device Certificate'. It shows 'Installed Certificate: Factory'. Under 'Custom Certificate:', there is a text input field containing 'No file chosen', a 'Choose File' button, and an 'Import' button. At the bottom, there is a '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  .

## Trusted Certificate

**CONFIGURATION**

- Reboot
- Time and Date
- Custom Language
- Firmware Upgrade
- Auto Upgrade
- Manual Upgrade
- Provisioning
- Security
- Certificates
- Device

**Trusted Certificates**

Tr069

System Logs

STATUS SYSTEM NETWORK CONTACTS CONFIGURATION

### Trusted Certificate

Select All

Total: 3	Issued to	Issued by	Expiration	Protected
<input type="checkbox"/>	Thawte Premium Server CA	Angela Martin	Jan 1 23:59:59 2021 GMT	<input type="checkbox"/>
<input type="checkbox"/>	Thawte Premium Server CA	John Smith	Jan 1 23:59:59 2021 GMT	<input type="checkbox"/>
<input type="checkbox"/>	Thawte Premium Server CA	Mark Lee	Jan 1 23:59:59 2021 GMT	<input type="checkbox"/>

Delete Selected Entries Protect Selected Entries

Only accept trusted certificates

Save

Import Trusted Certificate:  Choose File

Import

On the **Trusted Certificate** page, you can:

- import up to 20 trusted certificates.
- delete individual (or all) certificates.
- protect certificates by selecting them in the **Protected** column, and then clicking [Protect Selected Entries](#). Protected certificates cannot be selected for deletion and are not removed during a reset to factory defaults.

Select **Only accept trusted certificates** to enable server authentication. Deselecting this option disables server authentication.



## TR-069 Settings

The Broadband Forum's Technical Report 069 (TR-069) defines a protocol for remote management and secure auto-configuration of compatible devices. On the TR069 page, you can enable TR-069 and configure access to an auto-configuration server (ACS).

CONFIGURATION	STATUS	SYSTEM	NETWORK	CONTACTS	CONFIGURATION
<ul style="list-style-type: none"> <li>Reboot</li> <li>Time and Date</li> <li>Custom Language</li> <li>Firmware Upgrade</li> <li>Auto Upgrade</li> <li>Manual Upgrade</li> <li>Provisioning</li> <li>Security</li> <li>Certificates</li> <li>Device</li> <li>Trusted Certificates</li> <li><b>Tr069</b></li> <li>System Logs</li> </ul>	<p><b>TR069</b></p> <p><input checked="" type="checkbox"/> Enable TR069</p> <p>ACS Username <input type="text"/></p> <p>ACS Password <input type="text"/></p> <p>ACS URL <input type="text"/></p> <p><input type="checkbox"/> Enable Periodic Inform</p> <p>Periodic Inform Interval (seconds) <input type="text" value="3600"/></p> <p>Connection Request Username <input type="text"/></p> <p>Connection Request Password <input type="text"/></p> <p><input type="button" value="Save"/></p>				

Setting	Description
Enable TR069	Enable/Disable TR-069 subsystem.
ACS Username	User name used for ACS authentication.
ACS Password	Password used for ACS authentication.
ACS URL	URL used to contact the ACS (for example, <a href="http://my.acs:9675/path/to/somewhere/">http://my.acs:9675/path/to/somewhere/</a> ).
Enable Period Inform	Enable/Disable periodic inform method calls.
Periodic Inform Interval (seconds)	Periodic inform method calls interval.
Connection Request Username	If the ACS wants to communicate with the device, it must offer the matching Connection Request user name. When the device sends the report to ACS for the first time, it contains information for this.
Connection Request Password	If the ACS wants to communicate with the device, it must offer the matching Connection Request password. When the device sends the report to ACS for the first time, it contains information for this.

## 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: System Log Settings” on page 126](#).

The screenshot shows the 'CONFIGURATION' page with a sidebar menu on the left containing options like Reboot, Time and Date, Custom Language, Firmware Upgrade, Auto Upgrade, Manual Upgrade, Provisioning, Security, Certificates, Device, Trusted Certificates, Tr069, and System Logs. The main content area has tabs for STATUS, SYSTEM, NETWORK, CONTACTS, and CONFIGURATION. Under the CONFIGURATION tab, there are three sections: 'Syslog' with an 'Enable Syslog' checkbox, 'Server address' input field, 'Port' input field (set to 514), 'Log Level' dropdown menu (set to WARN), and a 'Save' button; 'Network Trace' with a 'Capture' button (set to Start) and a 'Save to file' button; and 'Download Log' with a 'Save to File:' label and a 'Save Log to file' button.

## Syslog Settings

Setting	Description
Enable Syslog	Enable log output to syslog server.
Server address	Syslog server IP address.
Server port	Syslog server port.





Setting	Description
Log Level	Sets the log level. The higher the level, the larger the debug output. <ul style="list-style-type: none"><li>■ 5—ALL</li><li>■ 4—DEBUG</li><li>■ 3—INFO</li><li>■ 2—WARNING</li><li>■ 1—ERROR</li><li>■ 0—CRITICAL</li></ul>

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 VSP610A base stations. You can place configuration files on a provisioning server, where the VSP610A base stations retrieve the files and update their configuration automatically.

Configuration files have the extension **.cfg** and contain settings that will apply to VSP610A base stations. 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 VSP610A 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 VSP610A configuration file modules and their associated parameters, see ["Configuration File Parameter Guide" on page 100](#).

Using the WebUI, you can also import a configuration file and apply the configuration file settings to the VSP610A. For more information, see ["Import Configuration" on page 80](#).

This chapter covers:

- ["The Provisioning Process" on page 93](#)
- ["Configuration File Types" on page 95](#)
- ["Data Files" on page 96](#)
- ["Configuration File Tips and Security" on page 97](#).

## 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 76](#) and [“Resynchronization: configuration file checking” on page 94](#). The VSP610A maintains a list of the last loaded provisioning files. The VSP610A compares its current configuration against the files it finds on the provisioning server.

If provisioning has been triggered by the resync timer expiring or by remote check-sync, the VSP610A checks for updated files after one minute of inactivity.

2. Download the configuration files.

If any file on the provisioning server has changed, the VSP610A treats it as a new file and downloads it.

If the provisioning URL specifies a path only with no filename (if the URL ends with “/”), then by default the VSP610A looks for and retrieves the following two files by appending the two default filenames to the URL:

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

The <model> variable is the VTech product model: VSP610A, for example.

If the provisioning URL contains a query element (?), or a filename ending in “.cfg” is specified at the end of the provided URL path, then the VSP610A retrieves only the configuration file specified.

3. The VSP610A restarts after one minute of inactivity.

During provisioning, the VSP610A reads the configuration file and validates each module and setting. The VSP610A 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 100 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 VSP610A 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 VSP610A 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 VSP610A 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).**

## VSP610A restart

If the VSP610A 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 VSP610A 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 VSP610A will download the file(s) when there is no call activity.

When you update the VSP610A by importing a configuration file using the WebUI, the device restarts immediately after applying the new settings, regardless of whether the VSP610A is idle.

## Configuration File Types

The VSP610A 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 VSP610A in the system.

The MAC-specific configuration file is a file that only a single VSP610A can retrieve. The MAC-specific configuration file name contains a VSP610A 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, **VSP610A**. For more information about the MAC-specific configuration file, see [“Guidelines for the MAC-Specific configuration file” on page 97](#).

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 VSP610A 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 VSP610A base stations in the general file, and then overwrite that setting for just a few VSP610A base stations 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) in pem 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 VSP610A base station may require.

None of the data files are exported when you export a configuration file from the VSP610A. 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 VSP610A import the new file. For a complete list of data file parameters, see ["file Module: Imported File Parameters" on page 139](#).



## 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) VSP610A base stations. 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 VSP610A.

### Guidelines for the MAC-Specific configuration file

The VSP610A downloads the MAC-specific configuration file after the general configuration file. You must create a MAC-specific configuration file for each VSP610A in your system. The file name must contain the VSP610A MAC address, which is printed on a label on the bottom of the device. For example, a VTech VSP610A base station with the MAC address of 00:11:A0:10:6F:2D would download the **VSP610A\_0011A0106F2D.cfg** file.



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 VSP610A base station. 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 VSP610A firmware decrypts files using the AES 256 algorithm. After encrypting a file and placing it on your provisioning server, you can enable the VSP610A 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.



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 VSP610A. 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.

A screenshot of a Windows command prompt window titled "SSL C:\Users\ronp\Documents\EncryptConfig\openssl.exe". The window shows the following command being entered: "OpenSSL> enc -aes-256-cbc -pass pass:passphrase123456 -in configtemplate.cfg -out USP725.cfg -nosalt -p". The command prompt is black with white text, and the window has standard Windows window controls (minimize, maximize, close) in the top right corner.

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:

Bootup Check:

Interval:

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 VSP610A configuration file. Most settings in the configuration file have an equivalent in the WebUI (see the settings tables in [“Using the WebUI” on page 26](#)). 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 VSP610A 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 101](#)
- [“hs\\_settings Module: Handset Settings” on page 112](#)
- [“network Module: Network Settings” on page 113](#)
- [“provisioning Module: Provisioning Settings” on page 117](#)
- [“time\\_date Module: Time and Date Settings” on page 122](#)
- [“log Module: System Log Settings” on page 126](#)
- [“remoteDir Module: Remote Directory Settings” on page 127](#)
- [“web Module: Web Settings” on page 132](#)
- [“trusted\\_ip Module: Trusted Server and Trusted IP Settings” on page 133](#)
- [“user\\_pref Module: User Preference Settings” on page 134](#)
- [“call\\_settings Module: Call Settings” on page 135](#)
- [“audio Module: Audio Settings” on page 137](#)

- [“file Module: Imported File Parameters” on page 139](#)
- [“tr069 Module: TR-069 Settings” on page 142](#)
- [“tone Module: Tone Definition Settings” on page 144](#)
- [“profile Module: Password Settings” on page 149](#)
- [“system Module: DECT settings” on page 150](#)

## 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 VSP610A. 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 6 for the VSP610A.

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 6 for the VSP610A.

All these settings are exported when you manually export the configuration from the VSP610A.

### 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+(#:)|x+P`

---

---

<b>Setting:</b>	<code>sip_account.x.inter_digit_timeout</code>		
<b>Description:</b>	Sets the inter-digit timeout (in seconds) for account x. The inter-digit timeout sets how long the VSP610A waits after the last digit is entered before dialing the number.		
<b>Values:</b>	1–10	<b>Default:</b>	3

---

<b>Setting:</b>	<code>sip_account.x.maximum_call_number</code>		
<b>Description:</b>	Sets the maximum number of concurrent active calls allowed for that account.		
<b>Values:</b>	1–4	<b>Default:</b>	4

---

<b>Setting:</b>	<code>sip_account.x.dtmf_transport_method</code>		
<b>Description:</b>	Sets the transport method for DTMF signaling for account x.		
<b>Values:</b>	auto, rfc2833, inband, info	<b>Default:</b>	auto

---

<b>Setting:</b>	<code>sip_account.x.unregister_after_reboot_enable</code>		
<b>Description:</b>	Enables or disables the VSP610A to unregister account x after rebooting.		
<b>Values:</b>	0 (disabled), 1 (enabled)	<b>Default:</b>	0

---

<b>Setting:</b>	<code>sip_account.x.primary_sip_server_address</code>		
<b>Description:</b>	Sets the SIP server IP address for account x.		
<b>Values:</b>	IPv4, IPv6 or FQDN	<b>Default:</b>	Blank

---

<b>Setting:</b>	<code>sip_account.x.primary_sip_server_port</code>		
<b>Description:</b>	Sets the SIP server port for account x.		
<b>Values:</b>	1–65535	<b>Default:</b>	5060

---

<b>Setting:</b>	<code>sip_account.x.primary_registration_server_address</code>		
<b>Description:</b>	Sets the registration server IP address for account x.		
<b>Values:</b>	IPv4, IPv6 or FQDN	<b>Default:</b>	Blank

---

---

<b>Setting:</b>	<code>sip_account.x.primary_registration_server_port</code>		
<b>Description:</b>	Sets the registration server port for account x.		
<b>Values:</b>	1–65535	<b>Default:</b>	5060

---

<b>Setting:</b>	<code>sip_account.x.primary_registration_expires</code>		
<b>Description:</b>	Sets the expiration time (in seconds) of the current registration for account x.		
<b>Values:</b>	30–7200	<b>Default:</b>	3600

---

<b>Setting:</b>	<code>sip_account.x.registration_retry_time</code>		
<b>Description:</b>	Sets the retry frequency of the current registration for account x.		
<b>Values:</b>	1–1800	<b>Default:</b>	10

---

<b>Setting:</b>	<code>sip_account.x.primary_outbound_proxy_server_address</code>		
<b>Description:</b>	Sets the outbound proxy server IP address for account x.		
<b>Values:</b>	IPv4, IPv6 or FQDN	<b>Default:</b>	Blank

---

<b>Setting:</b>	<code>sip_account.x.primary_outbound_proxy_server_port</code>		
<b>Description:</b>	Sets the outbound proxy server port for account x.		
<b>Values:</b>	1–65535	<b>Default:</b>	5060

---

<b>Setting:</b>	<code>sip_account.x.backup_outbound_proxy_server_address</code>		
<b>Description:</b>	Sets the backup outbound proxy server IP address for account x.		
<b>Values:</b>	IPv4, IPv6 or FQDN	<b>Default:</b>	Blank

---

<b>Setting:</b>	<code>sip_account.x.backup_outbound_proxy_server_port</code>		
<b>Description:</b>	Sets the backup outbound proxy server port for account x.		
<b>Values:</b>	1–65535	<b>Default:</b>	5060

---

---

<b>Setting:</b>	<code>sip_account.x.codec_priority.1</code>
<b>Description:</b>	Sets the highest-priority codec for account x.
<b>Values:</b>	<code>g711u, g711a, g729, g726, g722, g723_1, ilbc</code> <b>Default:</b> <code>g711u</code>

---

<b>Setting:</b>	<code>sip_account.x.codec_priority.2</code>
<b>Description:</b>	Sets the second highest-priority codec for account x.
<b>Values:</b>	<code>none, g711u, g711a, g729, g726, g722, g723_1, ilbc</code> <b>Default:</b> <code>g711a</code>

---

<b>Setting:</b>	<code>sip_account.x.codec_priority.3</code>
<b>Description:</b>	Sets the third highest-priority codec for account x.
<b>Values:</b>	<code>none, g711u, g711a, g729, g726, g722, g723_1, ilbc</code> <b>Default:</b> <code>g722</code>

---

<b>Setting:</b>	<code>sip_account.x.codec_priority.4</code>
<b>Description:</b>	Sets the fourth highest-priority codec for account x.
<b>Values:</b>	<code>none, g711u, g711a, g729, g726, g722, g723_1, ilbc</code> <b>Default:</b> <code>g726</code>

---

<b>Setting:</b>	<code>sip_account.x.codec_priority.5</code>
<b>Description:</b>	Sets the fifth highest-priority codec for account x.
<b>Values:</b>	<code>none, g711u, g711a, g729, g726, g722, g723_1, ilbc</code> <b>Default:</b> <code>g723_1</code>

---

<b>Setting:</b>	<code>sip_account.x.codec_priority.6</code>
<b>Description:</b>	Sets the sixth highest-priority codec for account x.
<b>Values:</b>	<code>none, g711u, g711a, g729, g726, g722, g723_1, ilbc</code> <b>Default:</b> <code>ilbc</code>

---

<b>Setting:</b>	<code>sip_account.x.codec_priority.7</code>
<b>Description:</b>	Sets the lowest-priority codec for account x.
<b>Values:</b>	<code>none, g711u, g711a, g729, g726, g722, g723_1, ilbc</code> <b>Default:</b> <code>none</code>

---



<b>Setting:</b>	<code>sip_account.x.voice_encryption_enable</code>		
<b>Description:</b>	Enables or disables SRTP voice encryption for account x.		
<b>Values:</b>	0 (disabled), 1 (enabled)	<b>Default:</b>	0
<b>Setting:</b>	<code>sip_account.x.g729_annexb_enable</code>		
<b>Description:</b>	Enables G.729 Annex B, with voice activity detection (VAD) and bandwidth-conserving silence suppression. This setting applies only when G.729 is selected in a <code>sip_account.x.codec_priority</code> parameter.		
<b>Values:</b>	0 (disabled), 1 (enabled)	<b>Default:</b>	0
<b>Setting:</b>	<code>sip_account.x.dscp</code>		
<b>Description:</b>	Sets the Voice Quality of Service Layer 3 - DSCP for account x.		
<b>Values:</b>	0–63	<b>Default:</b>	46
<b>Setting:</b>	<code>sip_account.x.sip_dscp</code>		
<b>Description:</b>	Sets the Signaling Quality of Service Layer 3 - DSCP for account x.		
<b>Values:</b>	0–63	<b>Default:</b>	26
<b>Setting:</b>	<code>sip_account.x.local_sip_port</code>		
<b>Description:</b>	Sets the Local SIP port for account x.		
<b>Values:</b>	1–65535	<b>Default:</b>	Account 1: 5060 Account 2: 5070 Account 3: 5080 Account 4: 5090 Account 5: 5100 Account 6: 5200
<b>Setting:</b>	<code>sip_account.x.transport_mode</code>		
<b>Description:</b>	Sets the Signaling Transport Mode for account x.		
<b>Values:</b>	udp, tcp, tls	<b>Default:</b>	udp

---

<b>Setting:</b>	<code>sip_account.x.mwi_enable</code>		
<b>Description:</b>	Enables or disables message waiting indicator subscription for account x. Enable if SUBSCRIBE and NOTIFY methods are used for MWI.		
<b>Values:</b>	0 (disabled), 1 (enabled)	<b>Default:</b>	0

---

<b>Setting:</b>	<code>sip_account.x.mwi_subscription_expires</code>		
<b>Description:</b>	Sets the MWI subscription expiry time (in seconds) for account x.		
<b>Values:</b>	15–65535	<b>Default:</b>	3600

---

<b>Setting:</b>	<code>sip_account.x.mwi_ignore_unsolicited</code>		
<b>Description:</b>	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.		
<b>Values:</b>	0 (disabled), 1 (enabled)	<b>Default:</b>	0

---

<b>Setting:</b>	<code>sip_account.x.nat_traversal_stun_enable</code>		
<b>Description:</b>	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.		
<b>Values:</b>	0 (disabled), 1 (enabled)	<b>Default:</b>	0

---

<b>Setting:</b>	<code>sip_account.x.nat_traversal_stun_server_address</code>		
<b>Description:</b>	Sets the STUN server IP address.		
<b>Values:</b>	IPv4, IPv6 or FQDN	<b>Default:</b>	Blank

---

<b>Setting:</b>	<code>sip_account.x.nat_traversal_stun_server_port</code>		
<b>Description:</b>	Sets the STUN server port.		
<b>Values:</b>	1–65535	<b>Default:</b>	3478

---

<b>Setting:</b>	<code>sip_account.x.nat_traversal_stun_keep_alive_enable</code>		
<b>Description:</b>	Enables or disables STUN keep-alives. Keep-alive packets are used to maintain connections established through NAT.		
<b>Values:</b>	0 (disabled), 1 (enabled)	<b>Default:</b>	1

---

---

<b>Setting:</b>	<code>sip_account.x.nat_traversal_stun_keep_alive_interval</code>		
<b>Description:</b>	Sets the interval (in seconds) for sending keep-alives.		
<b>Values:</b>	0–65535	<b>Default:</b>	30

---

<b>Setting:</b>	<code>sip_account.x.keep_alive_enable</code>		
<b>Description:</b>	Enable SIP keep alive in service of NAT traversal and as a heartbeat mechanism to audit the SIP server health status.		
<b>Values:</b>	0 (disabled), 1 (enabled)	<b>Default:</b>	0

---

<b>Setting:</b>	<code>sip_account.x.keep_alive_interval</code>		
<b>Description:</b>	Sets the interval (in seconds) for sending keep-alives.		
<b>Values:</b>	1–3600	<b>Default:</b>	15

---

<b>Setting:</b>	<code>sip_account.x.keep_alive_ignore_failure</code>		
<b>Description:</b>	Enable the phone to ignore keep-alive failure, if the failure can trigger account re-registration and re-subscription (and active calls are dropped).		
<b>Values:</b>	0 (disabled), 1 (enabled)	<b>Default:</b>	1

---

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

---

<b>Setting:</b>	<code>sip_account.x.sip_session_timer_enable</code>		
<b>Description:</b>	Enables or disables the SIP session timer.		
<b>Values:</b>	0 (disabled), 1 (enabled)	<b>Default:</b>	0

---

<b>Setting:</b>	<code>sip_account.x.sip_session_timer_min</code>		
<b>Description:</b>	Sets the session timer minimum value (in seconds) for account x.		
<b>Values:</b>	90–65535	<b>Default:</b>	90

---

---

<b>Setting:</b>	<code>sip_account.x.sip_session_timer_max</code>		
<b>Description:</b>	Sets the session timer maximum value (in seconds) for account x.		
<b>Values:</b>	90–65535	<b>Default:</b>	1800

---

<b>Setting:</b>	<code>sip_account.x.check_trusted_certificate</code>		
<b>Description:</b>	Enables or disables accepting only a trusted TLS certificate for account x.		
<b>Values:</b>	0 (disabled), 1 (enabled)	<b>Default:</b>	0

---

<b>Setting:</b>	<code>sip_account.use_first_trusted_certificate_for_all</code>		
<b>Description:</b>	Enables or disables accepting the first TLS certificate for all accounts.		
<b>Values:</b>	0 (disabled), 1 (enabled)	<b>Default:</b>	0

---

<b>Setting:</b>	<code>sip_account.x.preferred_ptime</code>		
<b>Description:</b>	Enter the packetization interval time in milliseconds.		
<b>Values:</b>	10, 20, 30, 40, 50, 60	<b>Default:</b>	20

---

<b>Setting:</b>	<code>sip_account.x.call_rejection_response_code</code>		
<b>Description:</b>	Select the response code for call rejection. This code applies to the following call rejection cases: <ul style="list-style-type: none"><li>■ User presses <b>Reject</b> for an incoming call (except when Call Forward Busy is enabled)</li><li>■ DND is enabled</li><li>■ Phone rejects a second incoming call with Call Waiting disabled</li><li>■ Phone rejects an anonymous call with Anonymous Call Rejection enabled</li><li>■ Phone rejects call when the maximum number of calls is reached</li></ul>		
<b>Values:</b>	480, 486, 603	<b>Default:</b>	486

---

## MAC-specific configuration file settings

---

<b>Setting:</b>	<code>sip_account.x.sip_account_enable</code>		
<b>Description:</b>	Enables account x to be used by the device.		
<b>Values:</b>	0 (disabled), 1 (enabled)	<b>Default:</b>	0

---

---

<b>Setting:</b>	<code>sip_account.x.label</code>		
<b>Description:</b>	Sets the text that identifies the account on the device LCD. The account label appears on the Dialing Line list, dialing screen, and other call appearance screens.		
<b>Values:</b>	Text string	<b>Default:</b>	Blank

---

<b>Setting:</b>	<code>sip_account.x.display_name</code>		
<b>Description:</b>	Sets the text portion of the caller ID that is displayed for outgoing calls using account x.		
<b>Values:</b>	Text string	<b>Default:</b>	Blank

---

<b>Setting:</b>	<code>sip_account.x.user_id</code>		
<b>Description:</b>	Sets the account ID for account x. Depending on your service provider's specifications, this could be an extension number. <b>Note:</b> Do not enter the host name (e.g. "@sip-service.com"). The configuration file automatically adds the default host name.		
<b>Values:</b>	Text string	<b>Default:</b>	Blank

---

<b>Setting:</b>	<code>sip_account.x.authentication_name</code>		
<b>Description:</b>	Sets the authentication name for account x. Depending on your service provider's specifications, this could be identical to the user ID.		
<b>Values:</b>	Text string	<b>Default:</b>	Blank

---

<b>Setting:</b>	<code>sip_account.x.authentication_access_password</code>		
<b>Description:</b>	Sets the authentication password for account x.		
<b>Values:</b>	Text string	<b>Default:</b>	Blank

---

<b>Setting:</b>	<code>sip_account.x.feature_sync_enable</code>		
<b>Description:</b>	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.		
<b>Values:</b>	0 (disabled), 1 (enabled)	<b>Default:</b>	0

---

---

<b>Setting:</b>	<code>sip_account.x.access_code_retrieve_voicemail</code>
<b>Description:</b>	Sets the voicemail retrieval feature access code for account x.
<b>Values:</b>	Text string
<b>Default:</b>	Blank

---

<b>Setting:</b>	<code>sip_account.x.access_code_dnd_on</code>
<b>Description:</b>	Sets the do not disturb (DND) ON feature access code for account x.
<b>Values:</b>	Text string
<b>Default:</b>	Blank

---

<b>Setting:</b>	<code>sip_account.x.access_code_dnd_off</code>
<b>Description:</b>	Sets the do not disturb (DND) OFF feature access code for account x.
<b>Values:</b>	Text string
<b>Default:</b>	Blank

---

<b>Setting:</b>	<code>sip_account.x.access_code_cfa_on</code>
<b>Description:</b>	Sets the Call Forward All ON feature access code for account x.
<b>Values:</b>	Text string
<b>Default:</b>	Blank

---

<b>Setting:</b>	<code>sip_account.x.access_code_cfa_off</code>
<b>Description:</b>	Sets the Call Forward All OFF feature access code for account x.
<b>Values:</b>	Text string
<b>Default:</b>	Blank

---

<b>Setting:</b>	<code>sip_account.x.access_code_cfna_on</code>
<b>Description:</b>	Sets the Call Forward No Answer ON feature access code for account x.
<b>Values:</b>	Text string
<b>Default:</b>	Blank

---

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

---

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

---

---

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

---

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

---

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

---

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

---

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

---

<b>Setting:</b>	<code>sip_account.x.mwi_uri</code>
<b>Description:</b>	Sets the MWI URI that will be used for MWI subscription. If this setting is left blank, the VSP610A uses the account x user ID for MWI subscription.
<b>Values:</b>	SIP URI text string
<b>Default:</b>	Blank

---

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

---

<b>Setting:</b>	<code>sip_account.x.network_bridge_uri</code>
<b>Description:</b>	Sets the URI for the network conferencing bridge on account x.
<b>Values:</b>	Text string (SIP URI)
<b>Default:</b>	Blank

---

## hs\_settings Module: Handset Settings

The Handset Settings allow you to configure account assignments and names for the cordless handsets that are registered to the base station. For more information on registering cordless handsets, see the VSP610A/VSP601A User Guide.

### General configuration file settings

---

<b>Setting:</b>	<code>hs_settings.x.handset_eu_pin_code</code>		
<b>Description:</b>	Sets the new 4-digit PIN for handset registration/deregistration.		
<b>Values:</b>	4-digit number	<b>Default:</b>	0000

---

<b>Setting:</b>	<code>hs_settings.x.headset_eu_pin_code</code>		
<b>Description:</b>	Sets the new 4-digit PIN for headset registration/deregistration.		
<b>Values:</b>	4-digit number	<b>Default:</b>	0000

---

### MAC-specific configuration file settings

---

<b>Setting:</b>	<code>hs_settings.x.handset_name</code>		
<b>Description:</b>	Sets the name for handset x. You can use up to 11 letters and/or numbers. Use alphanumeric characters only—no symbol characters are allowed.		
<b>Values:</b>	Text string	<b>Default:</b>	HANDSET

---

<b>Setting:</b>	<code>hs_settings.x.default_account</code>		
<b>Description:</b>	Sets the default account for handset x. The handset attempts to use this account first when going off hook.		
<b>Values:</b>	1–6	<b>Default:</b>	1

---

<b>Setting:</b>	<code>hs_settings.x.assigned_account</code>		
<b>Description:</b>	Sets the accounts for handset x that will be available for incoming and outgoing calls. List account numbers separated by commas (for example, 1,2,3,4,5,6).		
<b>Values:</b>	1–6	<b>Default:</b>	1,2,3,4,5,6

---



## network Module: Network Settings

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

### General configuration file settings

---

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

---

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

---

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

---

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

---

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

---

<b>Setting:</b>	<code>network.eapol.enable</code>
<b>Description:</b>	Enables or disables 802.1x EAPOL.
<b>Values:</b>	0 (disabled), 1 (enabled) <b>Default:</b> 0

---

<b>Setting:</b>	<code>network.eapol.identity</code>
<b>Description:</b>	Sets the 802.1x EAPOL identity.
<b>Values:</b>	Text string <b>Default:</b> Blank

---

---

<b>Setting:</b>	<code>network.eapol.access_password</code>
<b>Description:</b>	Sets the 802.1x EAPOL MD5 password.
<b>Values:</b>	Text string
<b>Default:</b>	Blank

---

---

<b>Setting:</b>	<code>network.vendor_class_id</code>
<b>Description:</b>	Sets the vendor ID for DHCP option 60.
<b>Values:</b>	Text string
<b>Default:</b>	Vtech Vesa VSP610A

---

---

<b>Setting:</b>	<code>network.user_class</code>
<b>Description:</b>	Sets the user class for DHCP option 77.
<b>Values:</b>	Text string
<b>Default:</b>	Vtech Vesa VSP610A

---

## MAC-specific configuration file settings

---

<b>Setting:</b>	<code>network.ip.mode</code>
<b>Description:</b>	Sets the IPv4 network mode.
<b>Values:</b>	disable, dhcp, static, pppoe
<b>Default:</b>	dhcp

---

---

<b>Setting:</b>	<code>network.ip.static_ip_addr</code>
<b>Description:</b>	Sets a static IP address for the network.
<b>Values:</b>	Text string (IPv4)
<b>Default:</b>	Blank

---

---

<b>Setting:</b>	<code>network.ip.subnet_mask</code>
<b>Description:</b>	Sets the subnet mask for the network.
<b>Values:</b>	Text string (IPv4)
<b>Default:</b>	Blank

---

---

<b>Setting:</b>	<code>network.ip.gateway_addr</code>
<b>Description:</b>	Sets the Gateway IP address.
<b>Values:</b>	Text string (IPv4)
<b>Default:</b>	Blank

---

<b>Setting:</b>	<code>network.ip.dns1</code>		
<b>Description:</b>	Sets the primary DNS server IP address.		
<b>Values:</b>	Text string (IPv4)	<b>Default:</b>	Blank
<b>Setting:</b>	<code>network.ip.dns2</code>		
<b>Description:</b>	Sets the secondary DNS server IP address.		
<b>Values:</b>	Text string (IPv4)	<b>Default:</b>	Blank
<b>Setting:</b>	<code>network.ip.manually_configure_dns</code>		
<b>Description:</b>	Enable or disable manual DNS configuration.		
<b>Values:</b>	0 (disable), 1 (enable)	<b>Default:</b>	0
<b>Setting:</b>	<code>network.ip.pppoe.service_name</code>		
<b>Description:</b>	If IPv4 mode is PPPoE, enter the name of the applicable PPPoE provider, in case more than one is available.		
<b>Values:</b>	Text string	<b>Default:</b>	Blank
<b>Setting:</b>	<code>network.ip.pppoe.username</code>		
<b>Description:</b>	If IPv4 mode is PPPoE, enter your PPPoE account username.		
<b>Values:</b>	Text string	<b>Default:</b>	Blank
<b>Setting:</b>	<code>network.ip.pppoe.access_password</code>		
<b>Description:</b>	If IPv4 mode is PPPoE, enter your PPPoE account password.		
<b>Values:</b>	Text string	<b>Default:</b>	Blank
<b>Setting:</b>	<code>network.ipv6.mode</code>		
<b>Description:</b>	Set the IPv6 network mode, depending on how the device will be assigned an IP address.		
<b>Values:</b>	disable, auto, static	<b>Default:</b>	disable

---

<b>Setting:</b>	<code>network.ipv6.prefix</code>		
<b>Description:</b>	When IPv6 mode is static, enter the IPv6 address prefix length.		
<b>Values:</b>	0–128	<b>Default:</b>	64

---

<b>Setting:</b>	<code>network.ipv6.gateway_addr</code>		
<b>Description:</b>	When IPv6 mode is static, enter the default gateway address.		
<b>Values:</b>	Text string (IPv6)	<b>Default:</b>	Blank

---

<b>Setting:</b>	<code>network.ipv6.dns1</code>		
<b>Description:</b>	If manual DNS configuration is enabled, enter the address for the primary DNS server.		
<b>Values:</b>	Text string (IPv6)	<b>Default:</b>	Blank

---

<b>Setting:</b>	<code>network.ipv6.dns2</code>		
<b>Description:</b>	If manual DNS configuration is enabled, enter the address for the secondary DNS server.		
<b>Values:</b>	Text string (IPv6)	<b>Default:</b>	Blank

---

<b>Setting:</b>	<code>network.ipv6.manually_configure_dns</code>		
<b>Description:</b>	Enable or disable manual DNS configuration for IPv6.		
<b>Values:</b>	0 (disable), 1 (enable)	<b>Default:</b>	0

---

<b>Setting:</b>	<code>network.vpn.enable</code>		
<b>Description:</b>	If manual DNS configuration is enabled, enter the address for the secondary DNS server.		
<b>Values:</b>	Text string (IPv6)	<b>Default:</b>	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 VSP610A.

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

---

<b>Setting:</b>	<code>provisioning.firmware_url</code>
<b>Description:</b>	Sets the URL for the server hosting the firmware file.
<b>Values:</b>	Text string
<b>Default:</b>	Blank

---

<b>Setting:</b>	<code>provisioning.handset_firmware_url</code>
<b>Description:</b>	Sets the URL for the server hosting the handset firmware file.
<b>Values:</b>	Text string
<b>Default:</b>	Blank

---

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

---

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

---

<b>Setting:</b>	<code>provisioning.server_address</code>
<b>Description:</b>	Sets the provisioning server IP address.
<b>Values:</b>	Text string
<b>Default:</b>	<code>https://et.vtechphones.com/rg2</code>

---

<b>Setting:</b>	<code>provisioning.server_username</code>
<b>Description:</b>	Sets the authentication name for the provisioning server.
<b>Values:</b>	Text string
<b>Default:</b>	Blank

---

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

---

<b>Setting:</b>	<code>provisioning.schedule_mode</code>
<b>Description:</b>	Sets the type of schedule check for configuration and firmware files.
<b>Values:</b>	disable, interval, weekday <b>Default:</b> disable

---

<b>Setting:</b>	<code>provisioning.resync_time</code>
<b>Description:</b>	Sets the interval (in minutes) between checks for new firmware and/or configuration files.
<b>Values:</b>	0–65535 <b>Default:</b> 0 (OFF)

---

<b>Setting:</b>	<code>provisioning.weekdays</code>
<b>Description:</b>	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.
<b>Values:</b>	0–6 <b>Default:</b> Blank

---

<b>Setting:</b>	<code>provisioning.weekdays_start_hr</code>
<b>Description:</b>	Sets the hour when the device checks for new firmware and/or configuration files.
<b>Values:</b>	0–23 <b>Default:</b> 0

---

<b>Setting:</b>	<code>provisioning.weekdays_end_hr</code>
<b>Description:</b>	Sets the hour when the device stops checking for new firmware and/or configuration files.
<b>Values:</b>	0–23 <b>Default:</b> 0

---

<b>Setting:</b>	<code>provisioning.remote_check_sync_enable</code>
<b>Description:</b>	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 <b>check-sync</b> event.
<b>Values:</b>	0 (disabled), 1 (enabled) <b>Default:</b> 1

---

---

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

---

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

---

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

---

<b>Setting:</b>	<code>provisioning.pnp_enable</code>
<b>Description:</b>	Enables or disables the VSP610A checking for the provisioning URL using the Plug-and-Play Subscribe and Notify protocol.
<b>Values:</b>	0 (disabled), 1 (enabled) <b>Default:</b> 1

---

<b>Setting:</b>	<code>provisioning.pnp_response_timeout</code>
<b>Description:</b>	Sets how long the VSP610A repeats the SUBSCRIBE request if there is no reply from the PnP server.
<b>Values:</b>	1–60 <b>Default:</b> 10

---



---

<b>Setting:</b>	<code>provisioning.pwd_export_enable</code>
<b>Description:</b>	Enables or disables passwords from being exported in plain text. This parameter is not available on the WebUI. The passwords affected are: <ul style="list-style-type: none"><li>■ <code>network.eapol.access_password</code></li><li>■ <code>network.ip.pppoe.access_password</code></li><li>■ <code>tr069.acs.access_password</code></li><li>■ <code>tr069.connection_request.access_password</code></li><li>■ <code>provisioning.fw_server_access_password</code></li><li>■ <code>provisioning.server_access_password</code></li><li>■ <code>profile.admin.access_password</code></li><li>■ <code>profile.user.access_password</code></li><li>■ <code>sip_account.x.authentication_access_password</code></li><li>■ <code>remoteDir.ldap_access_password</code></li><li>■ <code>remoteDir.broadsoft_access_password</code></li></ul>
<b>Values:</b>	0 (disabled), 1 (enabled) <b>Default:</b> 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 VSP610A.

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

---

**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:**           europe.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.

---

<b>Values:</b>	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	<b>Default:</b> Europe/London
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**Setting:** `time_date.daylight_saving_auto_adjust`  
**Description:** Sets the device to automatically adjust clock for daylight savings.  
**Values:** 0 (disabled), 1 (enabled)    **Default:** 1

---

**Setting:** `time_date.daylight_saving_user_defined`  
**Description:** Enables or disables manual daylight savings configuration.  
**Values:** 0 (disabled), 1 (enabled)    **Default:** 0

---

**Setting:** `time_date.daylight_saving_start_month`  
**Description:** Sets the month that daylight savings time starts.  
**Values:** January–December    **Default:** March

---

**Setting:** `time_date.daylight_saving_start_week`  
**Description:** Sets the week that daylight savings time starts.  
**Values:** 1–5    **Default:** 5

---

**Setting:** `time_date.daylight_saving_start_day`  
**Description:** Sets the day that daylight savings time starts.  
**Values:** Sunday, Monday, Tuesday, Wednesday, Thursday, Friday, Saturday    **Default:** Sunday

---

**Setting:** `time_date.daylight_saving_start_hour`  
**Description:** Sets the hour that daylight savings time starts.  
**Values:** 00:00–23:00    **Default:** 02:00

---

**Setting:** `time_date.daylight_saving_end_month`  
**Description:** Sets the month that daylight savings time ends.  
**Values:** January–December    **Default:** October

---

---

<b>Setting:</b>	<code>time_date.daylight_saving_end_week</code>		
<b>Description:</b>	Sets the week that daylight savings time ends.		
<b>Values:</b>	1–5	<b>Default:</b>	5

---

<b>Setting:</b>	<code>time_date.daylight_saving_end_day</code>		
<b>Description:</b>	Sets the day that daylight savings time ends.		
<b>Values:</b>	Sunday, Monday, Tuesday, Wednesday, Thursday, Friday, Saturday	<b>Default:</b>	Sunday

---

<b>Setting:</b>	<code>time_date.daylight_saving_end_hour</code>		
<b>Description:</b>	Sets the hour that daylight savings time ends.		
<b>Values:</b>	00:00–23:00	<b>Default:</b>	02:00

---

<b>Setting:</b>	<code>time_date.daylight_saving_amount</code>		
<b>Description:</b>	Sets the daylight savings time offset in minutes.		
<b>Values:</b>	0–255	<b>Default:</b>	60

---

<b>Setting:</b>	<code>time_date.timezone_dhcp_option</code>		
<b>Description:</b>	Enables or disables DHCP option 2/100/101 for determining time zone information.		
<b>Values:</b>	0 (disabled), 1 (enabled)	<b>Default:</b>	0

---

<b>Setting:</b>	<code>time_date.ntp_server_update_interval</code>		
<b>Description:</b>	Sets the delay between NTP server updates, in seconds.		
<b>Values:</b>	0–4294967295	<b>Default:</b>	1000

---

<b>Setting:</b>	<code>time_date.time_and_date</code>		
<b>Description:</b>	Manually sets the date and time. Use the format <year>-<month>-<day>T<hour>:<minute>:<second>		
<b>Values:</b>	<year>-<month>-<day>T <hour>:<minute>:<second>	<b>Default:</b>	2016-03-01T12:00:00

---

## log Module: System 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.

---

<b>Setting:</b>	log.syslog_enable		
<b>Description:</b>	Enables or disables log output to syslog server.		
<b>Values:</b>	0 (disabled), 1 (enabled)	<b>Default:</b>	0

---

<b>Setting:</b>	log.syslog_server_address		
<b>Description:</b>	Sets the syslog server IP address.		
<b>Values:</b>	IPv4, IPv6 or FQDN	<b>Default:</b>	Blank

---

<b>Setting:</b>	log.syslog_server_port		
<b>Description:</b>	Sets the syslog server port.		
<b>Values:</b>	1–65535	<b>Default:</b>	514

---

<b>Setting:</b>	log.syslog_level		
<b>Description:</b>	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		
<b>Values:</b>	0–5	<b>Default:</b>	2

---

## 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 VSP610A.

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

---

<b>Setting:</b>	<code>remoteDir.ldap_enable</code>		
<b>Description:</b>	Enables or disables the VSP610A base station's access to the LDAP directory.		
<b>Values:</b>	0 (disabled), 1 (enabled)	<b>Default:</b>	0

---

---

<b>Setting:</b>	<code>remoteDir.ldap_directory_name</code>		
<b>Description:</b>	Sets the LDAP directory name.		
<b>Values:</b>	Text string	<b>Default:</b>	Blank

---

---

<b>Setting:</b>	<code>remoteDir.ldap_server_address</code>		
<b>Description:</b>	Sets the LDAP server IP address.		
<b>Values:</b>	Text string	<b>Default:</b>	Blank

---

---

<b>Setting:</b>	<code>remoteDir.ldap_port</code>		
<b>Description:</b>	Sets the LDAP server port.		
<b>Values:</b>	1–65535	<b>Default:</b>	389

---

---

<b>Setting:</b>	<code>remoteDir.ldap_protocol_version</code>		
<b>Description:</b>	Sets the LDAP protocol version.		
<b>Values:</b>	version_2, version_3	<b>Default:</b>	version_3

---

---

<b>Setting:</b>	<code>remoteDir.ldap_authentication_type</code>		
<b>Description:</b>	Sets the LDAP authentication type.		
<b>Values:</b>	simple, ssl	<b>Default:</b>	simple

---

<b>Setting:</b>	<code>remoteDir.ldap_user_name</code>		
<b>Description:</b>	Sets the LDAP authentication user name.		
<b>Values:</b>	Text string	<b>Default:</b>	Blank
<b>Setting:</b>	<code>remoteDir.ldap_access_password</code>		
<b>Description:</b>	Sets the LDAP authentication password.		
<b>Values:</b>	Text string	<b>Default:</b>	Blank
<b>Setting:</b>	<code>remoteDir.ldap_base</code>		
<b>Description:</b>	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		
<b>Values:</b>	Text string	<b>Default:</b>	Blank
<b>Setting:</b>	<code>remoteDir.ldap_max_hits</code>		
<b>Description:</b>	Sets the maximum number of entries returned for an LDAP search. Limiting the number of hits can conserve network bandwidth.		
<b>Values:</b>	0-32000	<b>Default:</b>	200
<b>Setting:</b>	<code>remoteDir.ldap_search_delay</code>		
<b>Description:</b>	Sets the LDAP maximum search delay in seconds.		
<b>Values:</b>	0-500	<b>Default:</b>	0
<b>Setting:</b>	<code>remoteDir.ldap_firstname_filter</code>		
<b>Description:</b>	Sets the LDAP first name attribute filter.		
<b>Values:</b>	Text string	<b>Default:</b>	Firstname
<b>Setting:</b>	<code>remoteDir.ldap_lastname_filter</code>		
<b>Description:</b>	Sets the LDAP last name attribute filter.		
<b>Values:</b>	Text string	<b>Default:</b>	Lastname



---

<b>Setting:</b>	<code>remoteDir.ldap_number_filter</code>
<b>Description:</b>	Sets the LDAP number filter.
<b>Values:</b>	Text string
<b>Default:</b>	Blank

---

<b>Setting:</b>	<code>remoteDir.ldap_firstname_attribute</code>
<b>Description:</b>	Sets the name attributes. Enter the name attributes that you want the VSP610A 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.
<b>Values:</b>	Text string
<b>Default:</b>	Blank

---

<b>Setting:</b>	<code>remoteDir.ldap_lastname_attribute</code>
<b>Description:</b>	Sets the last name attributes.
<b>Values:</b>	Text string
<b>Default:</b>	Blank

---

<b>Setting:</b>	<code>remoteDir.ldap_work_number_attributes</code>
<b>Description:</b>	Sets the number attributes. Enter the number attributes that you want the VSP610A 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.
<b>Values:</b>	Text string
<b>Default:</b>	Blank

---

<b>Setting:</b>	<code>remoteDir.ldap_mobile_number_attributes</code>
<b>Description:</b>	Sets the mobile number attributes.
<b>Values:</b>	Text string
<b>Default:</b>	Blank

---

<b>Setting:</b>	<code>remoteDir.ldap_other_number_attributes</code>
<b>Description:</b>	Sets the "other" number attributes.
<b>Values:</b>	Text string
<b>Default:</b>	Blank

---

---

<b>Setting:</b>	<code>remoteDir.ldap_incall_lookup_enable</code>		
<b>Description:</b>	Enables or disables LDAP incoming call lookup. If enabled, the VSP610A searches the LDAP directory for the incoming call number. If the number is found, the VSP610A uses the LDAP entry for CID info.		
<b>Values:</b>	0 (disabled), 1 (enabled)	<b>Default:</b>	0

---

<b>Setting:</b>	<code>remoteDir.ldap_outcall_lookup_enable</code>		
<b>Description:</b>	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.		
<b>Values:</b>	0 (disabled), 1 (enabled)	<b>Default:</b>	0

---

<b>Setting:</b>	<code>remoteDir.xml.x.name</code>		
<b>Description:</b>	Sets the name of the directory as it will appear on the phone's Directory list. For this and following parameters, x is the number of the XML directory (1–3).		
<b>Values:</b>	Text string	<b>Default:</b>	Blank

---

<b>Setting:</b>	<code>remoteDir.xml.x.uri</code>		
<b>Description:</b>	The location of the XML directory file, from which the phone will sync and retrieve directory entries.		
<b>Values:</b>	URI	<b>Default:</b>	Blank

---

<b>Setting:</b>	<code>remoteDir.xml.x.call_lookup_enable</code>		
<b>Description:</b>	Enables/disables the call lookup feature for incoming and outgoing calls.		
<b>Values:</b>	0 (disabled), 1 (enabled)	<b>Default:</b>	0

---

<b>Setting:</b>	<code>remoteDir.xml.x.contact_entry_tag</code>		
<b>Description:</b>	Sets the tag name for directory entry.		
<b>Values:</b>	Text string	<b>Default:</b>	DIR_ENTRY

---

<b>Setting:</b>	<code>remoteDir.xml.x.first_name_tag</code>		
<b>Description:</b>	Sets the first name tag for a directory entry.		
<b>Values:</b>	Text string	<b>Default:</b>	DIR_ENTRY_NAME_FIRST

---

---

**Setting:** `remoteDir.xml.x.last_name_tag`

**Description:** Sets the last name tag for a directory entry.

**Values:** Text string                      **Default:** DIR\_ENTRY\_NAME\_LAST

---

**Setting:** `remoteDir.xml.x.work_number_tag`

**Description:** Sets the work number tag for a directory entry.

**Values:** Text string                      **Default:** DIR\_ENTRY\_NUMBER\_WORK

---

**Setting:** `remoteDir.xml.x.mobile_number_tag`

**Description:** Sets the mobile number tag for a directory entry.

**Values:** Text string                      **Default:** DIR\_ENTRY\_NUMBER\_MOBILE

---

**Setting:** `remoteDir.xml.x.other_number_tag`

**Description:** Sets the other number tag for a directory entry.

**Values:** Text string                      **Default:** DIR\_ENTRY\_NUMBER\_OTHER

---

## 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.

---

<b>Setting:</b>	<code>web.server_enable</code>		
<b>Description:</b>	Enables or disables the availability of the phone's embedded WebUI.		
<b>Values:</b>	0 (disabled), 1 (enabled)	<b>Default:</b>	1

---

<b>Setting:</b>	<code>web.http_port</code>		
<b>Description:</b>	Sets the http port when http is enabled.		
<b>Values:</b>	1-65535	<b>Default:</b>	80

---

<b>Setting:</b>	<code>web.https_enable</code>		
<b>Description:</b>	Sets server to use the https protocol.		
<b>Values:</b>	0 (disabled), 1 (enabled)	<b>Default:</b>	0

---

<b>Setting:</b>	<code>web.https_port</code>		
<b>Description:</b>	Sets the https port when https is enabled.		
<b>Values:</b>	1-65535	<b>Default:</b>	443

---

## trusted\_ip Module: Trusted Server and Trusted IP Settings

The trusted\_ip settings provide enhanced security for the VSP610A. When enabled, these settings can filter network traffic and reject any traffic from unauthorized sources.

The trusted\_ip settings follow the format: trusted\_servers.[element].

All the trusted\_ip settings are included in the general configuration file.

---

<b>Setting:</b>	<code>trusted_ip.only_accept_sip_account_servers</code>		
<b>Description:</b>	Enables or disables using each enabled account's Registration server, SIP server, Outbound Proxy server and Backup Outbound Proxy server as sources for trusted SIP traffic.		
<b>Values:</b>	0 (disabled), 1 (enabled)	<b>Default:</b>	0

---

<b>Setting:</b>	<code>trusted_ip.only_accept_allowed_ip</code>		
<b>Description:</b>	Enables or disables using the Allowed IP list to filter network traffic. When enabled, all unsolicited IP traffic will be blocked unless it is from one of the trusted IP addresses on the "Allowed IP" list.		
<b>Values:</b>	0 (disabled), 1 (enabled)	<b>Default:</b>	0

---

<b>Setting:</b>	<code>trusted_ip.x.allow_ip</code>		
<b>Description:</b>	Enter an IP address or address range for one instance of the "Allowed IP" list. x ranges from 1 to 10. See <a href="#">"Trusted IP" on page 86</a> for more information.		
<b>Values:</b>	Text string (IPv4 or IPv6, IP range in IPv4 or IPv6)	<b>Default:</b>	Blank

---

## user\_pref Module: User Preference Settings

The user settings are accessible to the VSP610A 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].

user\_pref.call\_terminated.busy\_tone\_enable)The user preference setting is included in the general configuration file.

---

<b>Setting:</b>	user_pref.web_language
<b>Description:</b>	Sets the language that appears on the WebUI.
<b>Values:</b>	en, en-GB, es-MX, es, fr-CA, <b>Default:</b> en-GB fr, de, it, pt, nl, el, ru, tr, pl

---

---

<b>Setting:</b>	user_pref.call_terminated.busy_tone_enable
<b>Description:</b>	Enables the VSP610A to play a busy tone when the far-end party ends the call, or when a network error condition (keep-alive failure) occurs.
<b>Values:</b>	0 (disabled), 1 (enabled) <b>Default:</b> 0

---

---

<b>Setting:</b>	user_pref.account.x.diversion_display
<b>Description:</b>	Enables or disables the display of diversion <name-addr> info (if available) for calls forwarded to account x.
<b>Values:</b>	0 (disabled), 1 (enabled) <b>Default:</b> 1

---

## call\_settings Module: Call Settings

The call settings configure data related to a user's call preferences.

All the call settings (except one) follow the format: `call_settings.account.x.[element]` where `x` is an account number ranging from 1 to 6.

### MAC-specific configuration file settings

---

**Setting:** `call_settings.account.x.block_anonymous_enable`

**Description:** Enables or disables anonymous call blocking.

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

---

**Setting:** `call_settings.account.x.outgoing_anonymous_enable`

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

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

---

**Setting:** `call_settings.account.x.dnd_enable`

**Description:** Enables or disables Do Not Disturb for account `x`.

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

---

**Setting:** `call_settings.account.x.call_fwd_always_enable`

**Description:** Enables or disables Call Forward Always for account `x`.

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

---

**Setting:** `call_settings.account.x.call_fwd_always_target`

**Description:** Sets the Call Forward Always target number for account `x`.

**Values:** Text string    **Default:** Blank

---

**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

---

---

<b>Setting:</b>	<code>call_settings.account.x.call_fwd_busy_target</code>
<b>Description:</b>	Sets the Call Forward Busy target number for account x.
<b>Values:</b>	Text string
<b>Default:</b>	Blank

---

<b>Setting:</b>	<code>call_settings.account.x.cfna_enable</code>
<b>Description:</b>	Enables or disables Call Forward No Answer for account x.
<b>Values:</b>	0 (disabled), 1 (enabled)
<b>Default:</b>	0

---

<b>Setting:</b>	<code>call_settings.account.x.cfna_target</code>
<b>Description:</b>	Sets the Call Forward No Answer target number for account x.
<b>Values:</b>	Text string
<b>Default:</b>	Blank

---

<b>Setting:</b>	<code>call_settings.account.x.cfna_delay</code>
<b>Description:</b>	Sets the Call Forward No Answer delay (in number of rings) for account x.
<b>Values:</b>	1–10
<b>Default:</b>	6

---



## audio Module: Audio Settings

The audio settings include jitter buffer parameters and RTP port settings.

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

---

<b>Setting:</b>	<code>audio.x.jitter_mode</code>		
<b>Description:</b>	Select the desired mode for the jitter buffer: fixed (static) or adaptive. This setting depends on your network environment and conditions.		
<b>Values:</b>	fixed, adaptive	<b>Default:</b>	adaptive

---

<b>Setting:</b>	<code>audio.x.fixed_jitter.delay</code>		
<b>Description:</b>	When in fixed jitter buffer mode, set the delay (in ms) desirable to provide good audio quality with the minimal possible delay.		
<b>Values:</b>	30–500	<b>Default:</b>	70

---

<b>Setting:</b>	<code>audio.x.adaptive_jitter.min_delay</code>		
<b>Description:</b>	When in adaptive jitter buffer mode, set the minimum delay (in ms) desirable to maintain data packet capture and audio quality.		
<b>Values:</b>	20–250	<b>Default:</b>	60

---

<b>Setting:</b>	<code>audio.x.adaptive_jitter.target_delay</code>		
<b>Description:</b>	When in adaptive jitter buffer mode, set the target delay (in ms) desirable to provide good audio quality with the minimal possible delay.		
<b>Values:</b>	20–500	<b>Default:</b>	80

---

<b>Setting:</b>	<code>audio.x.adaptive_jitter.max_delay</code>		
<b>Description:</b>	When in adaptive jitter buffer mode, set the maximum delay (in ms) desirable to maintain data packet capture and audio quality.		
<b>Values:</b>	180–500	<b>Default:</b>	240

---

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

---

---

<b>Setting:</b>	audio.x.rtp.port_end		
<b>Description:</b>	Sets the Local RTP port range end.		
<b>Values:</b>	1-65535	<b>Default:</b>	19000

---

<b>Setting:</b>	audio.x.rtcp_xr.enable		
<b>Description:</b>	Enables or disables reporting of RTCP XR via SIP to a collector server. RTP Control Protocol Extended Reports (RTCP XR) are used for voice quality assessment and diagnostics.		
<b>Values:</b>	0 (disabled), 1 (enabled)	<b>Default:</b>	0

---

## file Module: Imported File Parameters

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

- Contact lists
- Security certificates

Certificates can be added via provisioning. There are two types of certificate:

- **Trusted:** Trusted Certificates are for server authentication with secured HTTP transaction in the following applications: SIP signaling, Provisioning, Firmware, LDAP directory service, and Broadsoft directory service. Up to 20 trusted certificates can be installed.
- **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.

File parameter values are URLs that direct the VSP610A to the location of the file to be imported. The URL of certificate to be imported should follow the format `<protocol>://<user>:<password>@<host>:<port>/<url-path>`

None of these settings are exported when you manually export the configuration from the VSP610A.

### General configuration file settings

---

<b>Setting:</b>	<code>file.certificate.x.url</code>		
<b>Description:</b>	URL to upload a trusted certificate file in pem or crt. It will be given index x and marked as unprotected. x ranges from 1 to 20.		
<b>Values:</b>	Text string	<b>Default:</b>	Blank

---

<b>Setting:</b>	<code>file.protected_certificate.x.url</code>		
<b>Description:</b>	URL to upload a trusted certificate file in pem or crt. It will be given index x and marked as protected. x ranges from 1 to 20.		
<b>Values:</b>	Text string	<b>Default:</b>	Blank

---

<b>Setting:</b>	<code>file.certificate.trusted.url</code>		
<b>Description:</b>	URL to upload a trusted certificate file in pem or crt. It will be given the first available index and marked as unprotected.		
<b>Values:</b>	Text string	<b>Default:</b>	Blank

---

---

<b>Setting:</b>	<code>file.protected_certificate.trusted.url</code>		
<b>Description:</b>	URL to upload a trusted certificate file in pem or crt. It will be given the first available index and marked as protected.		
<b>Values:</b>	Text string	<b>Default:</b>	Blank

---

<b>Setting:</b>	<code>file.protected_certificate.custom_device.url</code>		
<b>Description:</b>	URL to upload a custom device certificate to override the factory installed device certificate.		
<b>Values:</b>	Text string	<b>Default:</b>	Blank

---

<b>Setting:</b>	<code>file.action</code>		
<b>Description:</b>	<p>Enables you to delete certain certificates.</p> <ul style="list-style-type: none"> <li>■ <code>removecertificate_customdevice</code>: remove the custom device certificate and resume the use of the factory installed device certificate</li> <li>■ <code>removecertificate_allnonprotected</code>: remove all non-protected trusted certificates</li> <li>■ <code>removecertificate_all</code>: remove the custom device certificate and all protected or non-protected trusted certificates</li> </ul> <p>Enables you to delete a custom language from the WebUI.</p>		
<b>Values:</b>	<code>removecertificate_</code> <code>customdevice</code> , <code>removecertificate_</code> <code>allnonprotected</code> , <code>removecertificate_all</code> <code>removecustomlanguage_all</code> , <code>removecustomlanguage_webui</code>	<b>Default:</b>	Blank

---

<b>Setting:</b>	<code>file.language.webui.url</code>		
<b>Description:</b>	URL of Web UI Custom Language file to be imported.		
<b>Values:</b>	Text string	<b>Default:</b>	Blank

---

<b>Setting:</b>	<code>file.vpn.advanced_config</code>		
<b>Description:</b>	URL of OpenVPN client configuration file. For more information, see <a href="#">“VPN” on page 58</a> .		
<b>Values:</b>	Text string	<b>Default:</b>	Blank

---

---

## MAC-specific configuration file settings

---

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

---

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

---

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

---

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

---

## tr069 Module: TR-069 Settings

The Broadband Forum's Technical Report 069 (TR-069) defines a protocol for remote management and secure auto-configuration of compatible devices. The TR-069 settings allow you to enable TR-069 and configure access to an auto-configuration server (ACS).

All the TR-069 settings are included in the general configuration file.

---

<b>Setting:</b>	<code>tr069.enable</code>		
<b>Description:</b>	Enable/disable the TR-069 subsystem.		
<b>Values:</b>	0 (disabled), 1 (enabled)	<b>Default:</b>	0

---

<b>Setting:</b>	<code>tr069.acs.url</code>		
<b>Description:</b>	Enter the URL to the auto configuration server (ACS).		
<b>Values:</b>	Text string	<b>Default:</b>	Blank

---

<b>Setting:</b>	<code>tr069.acs.username</code>		
<b>Description:</b>	Enter user name for ACS authentication.		
<b>Values:</b>	Text string	<b>Default:</b>	Blank

---

<b>Setting:</b>	<code>tr069.acs.access_password</code>		
<b>Description:</b>	Enter password for ACS authentication.		
<b>Values:</b>	Text string	<b>Default:</b>	Blank

---

<b>Setting:</b>	<code>tr069.periodic_inform.enable</code>		
<b>Description:</b>	Enable/disable the phone sending Inform messages to the server.		
<b>Values:</b>	0 (disabled), 1 (enabled)	<b>Default:</b>	0

---

<b>Setting:</b>	<code>tr069.periodic_inform.interval</code>		
<b>Description:</b>	Set the interval (in seconds) between sending Inform messages.		
<b>Values:</b>	1–65535	<b>Default:</b>	3600

---

---

**Setting:** `tr069.connection_request.username`

**Description:** Set the user name for authenticating the connection sent from the ACS.

**Values:** Text string                      **Default:** Blank

---

**Setting:** `tr069.connection_request.access_password`

**Description:** Set the password for authenticating the connection sent from the ACS.

**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 at least one element containing a string of 12 element attributes 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>: 0-2

<freq1>: 0-65535 (Hz)

<amp1>: -30-6 (dB)

<freq2>: 0-65535 (Hz)

<amp2>: -30-6 (dB)

<freq3>: 0 (for future development—modifying attribute has no effect)

<amp3>: 0 (for future development—modifying attribute has no effect)

<freq4>: 0 (for future development—modifying attribute has no effect)

<amp4>: 0 (for future development—modifying attribute has no effect)

<on duration>: 0-65535 (milliseconds)

<off duration>: 0-65535 (milliseconds)

<repeat count>: 0-65535

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

---

<b>Setting:</b>	tone.inside_dial_tone.num_of_elements		
<b>Description:</b>	Sets the number of tone elements for the secondary dial tone (see <a href="#">“Dial Plan” on page 35</a> for description and behavior).		
<b>Values:</b>	1-5	<b>Default:</b>	1

---

<b>Setting:</b>	tone.inside_dial_tone.element.1		
<b>Description:</b>	Defines the secondary dial tone element 1.		
<b>Values:</b>	Tone element string	<b>Default:</b>	2 440 -22 350 -22 0 0 0 0 65535 0 65535

---



<b>Setting:</b>	<code>tone.inside_dial_tone.element.x</code>		
<b>Description:</b>	Defines the secondary dial tone element x (x = 2–5).		
<b>Values:</b>	Tone element string	<b>Default:</b>	Blank
<b>Setting:</b>	<code>tone.inside_dial_tone.num_of_repeat_all</code>		
<b>Description:</b>	Sets the number of repeats of all elements in sequence; that is, repeating back to the first element.		
<b>Values:</b>	0–65535	<b>Default:</b>	0
<b>Setting:</b>	<code>tone.stutter_dial_tone.num_of_elements</code>		
<b>Description:</b>	Sets the number of tone elements for the stutter dial tone.		
<b>Values:</b>	1–5	<b>Default:</b>	2
<b>Setting:</b>	<code>tone.stutter_dial_dial_tone.element.1</code>		
<b>Description:</b>	Defines the stutter dial tone element 1.		
<b>Values:</b>	Tone element string	<b>Default:</b>	2 440 -22 350 -22 0 0 0 0 100 100 10
<b>Setting:</b>	<code>tone.stutter_dial_dial_tone.element.2</code>		
<b>Description:</b>	Defines the stutter dial tone element 2.		
<b>Values:</b>	Tone element string	<b>Default:</b>	2 440 -22 350 -22 0 0 0 0 65535 0 65535
<b>Setting:</b>	<code>tone.stutter_dial_tone.element.x</code>		
<b>Description:</b>	Defines the stutter dial tone element x (x = 3–5).		
<b>Values:</b>	Tone element string	<b>Default:</b>	Blank
<b>Setting:</b>	<code>tone.stutter_dial_tone.num_of_repeat_all</code>		
<b>Description:</b>	Sets the number of repeats of all elements in sequence; that is, repeating back to the first element.		
<b>Values:</b>	0–65535	<b>Default:</b>	0

---

<b>Setting:</b>	<code>tone.busy_tone.num_of_elements</code>		
<b>Description:</b>	Sets the number of tone elements for the busy tone.		
<b>Values:</b>	1–5	<b>Default:</b>	1

---

<b>Setting:</b>	<code>tone.busy_tone.element.1</code>		
<b>Description:</b>	Defines the busy tone element 1.		
<b>Values:</b>	Tone element string	<b>Default:</b>	1400 -22 0 0 0 0 0 0 375 375 65535

---

<b>Setting:</b>	<code>tone.busy_tone.element.x</code>		
<b>Description:</b>	Defines the busy tone element x (x = 2–5).		
<b>Values:</b>	Tone element string	<b>Default:</b>	Blank

---

<b>Setting:</b>	<code>tone.busy_tone.num_of_repeat_all</code>		
<b>Description:</b>	Sets the number of repeats of all elements in sequence; that is, repeating back to the first element.		
<b>Values:</b>	0–65535	<b>Default:</b>	0

---

<b>Setting:</b>	<code>tone.ring_back_tone.num_of_elements</code>		
<b>Description:</b>	Sets the number of tone elements for the ringback tone.		
<b>Values:</b>	1–5	<b>Default:</b>	1

---

<b>Setting:</b>	<code>tone.ring_back_tone.element.1</code>		
<b>Description:</b>	Defines the ringback tone element 1.		
<b>Values:</b>	Tone element string	<b>Default:</b>	2 440 -22 480 -22 0 0 0 0 2000 4000 65535

---

<b>Setting:</b>	<code>tone.ring_back_tone.element.x</code>		
<b>Description:</b>	Defines the ringback tone element x (x = 2–5).		
<b>Values:</b>	Tone element string	<b>Default:</b>	Blank

---

---

<b>Setting:</b>	<code>tone.ring_back_tone.num_of_repeat_all</code>		
<b>Description:</b>	Sets the number of repeats of all elements in sequence; that is, repeating back to the first element.		
<b>Values:</b>	0-65535	<b>Default:</b>	0

---

<b>Setting:</b>	<code>tone.dial_tone.num_of_elements</code>		
<b>Description:</b>	Sets the number of tone elements for the dial tone.		
<b>Values:</b>	1-5	<b>Default:</b>	1

---

<b>Setting:</b>	<code>tone.dial_tone.element.1</code>		
<b>Description:</b>	Defines the dial tone element 1.		
<b>Values:</b>	Tone element string	<b>Default:</b>	2 440 -22 350 -22 0 0 0 0 65535 0 65535

---

<b>Setting:</b>	<code>tone.dial_tone.element.x</code>		
<b>Description:</b>	Defines the dial tone element x (x = 2-5).		
<b>Values:</b>	Tone element string	<b>Default:</b>	Blank

---

<b>Setting:</b>	<code>tone.dial_tone.num_of_repeat_all</code>		
<b>Description:</b>	Sets the number of repeats of all elements in sequence; that is, repeating back to the first element.		
<b>Values:</b>	0-65535	<b>Default:</b>	0

---

<b>Setting:</b>	<code>tone.congestion_tone.num_of_elements</code>		
<b>Description:</b>	Sets the number of tone elements for the congestion tone.		
<b>Values:</b>	1-5	<b>Default:</b>	3

---

<b>Setting:</b>	<code>tone.congestion_tone.element.1</code>		
<b>Description:</b>	Defines the dial tone element 1.		
<b>Values:</b>	Tone element string	<b>Default:</b>	1 950 -22 0 0 0 0 0 0 330 0 1

---

---

<b>Setting:</b>	tone.congestion_tone.element.2		
<b>Description:</b>	Defines the dial tone element 2.		
<b>Values:</b>	Tone element string	<b>Default:</b>	1 1400 -22 0 0 0 0 0 0 330 0 1

---

<b>Setting:</b>	tone.congestion_tone.element.3		
<b>Description:</b>	Defines the dial tone element 3.		
<b>Values:</b>	Tone element string	<b>Default:</b>	1 1800 -22 0 0 0 0 0 0 330 1000 1

---

<b>Setting:</b>	tone.congestion_tone.element.x		
<b>Description:</b>	Defines the dial tone element x (x = 4–5).		
<b>Values:</b>	Tone element string	<b>Default:</b>	Blank

---

<b>Setting:</b>	tone.congestion_tone.num_of_repeat_all		
<b>Description:</b>	Sets the number of repeats of all elements in sequence; that is, repeating back to the first element.		
<b>Values:</b>	0–65535	<b>Default:</b>	65535

---

## 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:** `profile.admin.access_password`

**Description:** Sets the administrator password for accessing the admin menus on the VSP601A and the WebUI.

**Values:** Text string (15 characters maximum)      **Default:** admin

---

### MAC-specific configuration file settings

---

**Setting:** `profile.user.access_password`

**Description:** Sets the user password for logging on to the WebUI and editing user-accessible settings.

**Values:** Text string (15 characters maximum)      **Default:** user

---

## system Module: DECT settings

The DECT settings allow you to enable repeater mode. For more information, see [“Repeater Mode” on page 48](#).

---

<b>Setting:</b>	<code>system.repeater_mode_enable</code>
<b>Description:</b>	Enables repeater mode, enabling the VSP610A base station to link with VTech VSP605A Range Extenders.
<b>Values:</b>	0, 1
<b>Default:</b>	0

---

## CHAPTER 6

# TROUBLESHOOTING

If you have difficulty with your VSP610A base station, please try the suggestions below.



For customer service or product information, please contact our regional offices or distributors in the country or region where you purchased your product.

## Common Troubleshooting Procedures

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

### **The DECT handset doesn't register. "Registration failed" appears on the screen.**

- Ensure the handset is fully charged and in the charger.
- Ensure the handset is not already registered to another base. If it has been registered to another base, deregister it.

### **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 VSP610A 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 products

- Your VSP610A base station contains sophisticated electronic parts, so you must treat it with care.
- Avoid rough treatment.
- Place the handset down gently.
- Save the original packing materials to protect your VSP610A base station if you ever need to ship it.

### Avoid water

- You can damage your VSP610A base station if it gets wet. Do not use the handset in the rain, or handle it with wet hands. Do not install the VSP610A base station 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 products

- Your VSP610A base station 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 VSP610A base station 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—VSP610A 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.