



ErisTerminal[®] SIP Deskset
VSP726A

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 VSP726A SIP deskset with software version 2.0.3.x. See [“Using the Status menu” on page 27](#) for instructions on checking the software version on the VSP726A. Please read this manual before installing the product.

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

Model number: VSP726A

Type: Small to medium business SIP-endpoint deskset

Serial number: _____

Purchase date: _____

Place of purchase: _____



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

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

Text Conventions

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

Table 1. Description of Text Conventions

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

Audience

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

As the VSP726A SIP deskset 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 VSP726A-specific configurations for optimal performance with those services.

Related Documents

The **VSP726A Quick Start Guide** contains a quick reference guide to the VSP726A external features and brief instructions on connecting the VSP726A to a working IP PBX system.

The **VSP726A 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 VSP726A

This administrator and provisioning guide contains detailed instructions for configuring the VSP726A SIP deskset. Please read this guide before attempting to configure the VSP726A.

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 VSP726A deskset” on page 10](#)
- [“Quick Reference Guide” on page 11](#)
- [“Programmable Feature Keys” on page 13](#)
- [“Programmable Hard Keys” on page 16](#)
- [“Network Requirements” on page 17](#)
- [“VSP726A Configuration Methods” on page 18](#)
- [“Adding a Custom Logo” on page 19](#)
- [“Customizing Soft Keys” on page 21](#)
- [“Using an SD card” on page 24.](#)

About the VSP726A deskset

The VTech VSP726A SIP deskset is a business phone designed to work with popular SIP telephone (IP PBX) equipment and services. Once you have ordered and configured your SIP equipment or service, the VSP726A enables you to make and receive calls as you would with any other business phone. The VSP726A provides calling features like hold, transfer, conferencing, speakerphone, speed-dial numbers and one-touch directory access.

The VSP726A deskset features include:

- 2.5-inch backlit Liquid Crystal Display
- Speakerphone, headset, hold and mute
- Up to 4 SIP account registrations
- Up to 8 active SIP sessions
- 3-way conferencing
- 12 dual-function programmable keys
- Message Waiting alert LED
- Dual GigE Ethernet ports
- Power over Ethernet enabled
- DECT cordless headset and cordless handset support
For information about registering a cordless headset, see the VSP726A Deskset User's Guide. For information about registering a cordless handset, see the VSP601A Handset Quick Start Guide.
- Micro SD card slot for call recording, network traces, system logging, firmware updates and configuration file backup and updates.
- 1000-entry Call Log

There are two network ports, known as the Ethernet port and PC port, at the back of the VSP726A. The Ethernet port allows the VSP726A deskset to connect to the IP PBX. The PC port is for another device such as a personal computer to connect to the Ethernet network through the VSP726A.

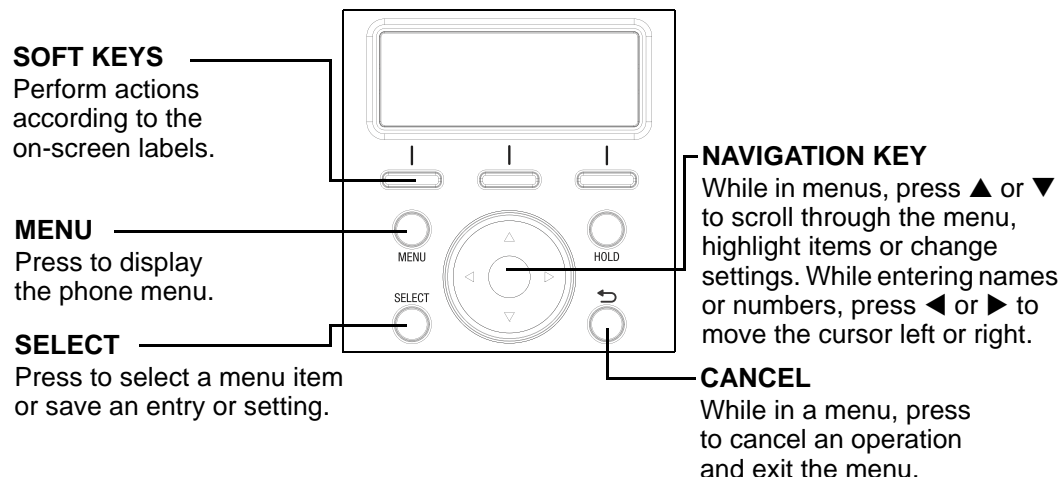
You can configure the VSP726A using the menus on the phone, a browser-based interface called the WebUI, or an automatic provisioning process (see [“Provisioning Using Configuration Files” on page 125](#)). The WebUI enables you to configure the VSP726A using a computer that is connected to the same Local Area Network. The WebUI resides on the VSP726A, and may get updated with firmware updates.

The VSP726A SIP deskset supports intercom and call transfers between system extensions and can connect you and two other parties on the same conference call.

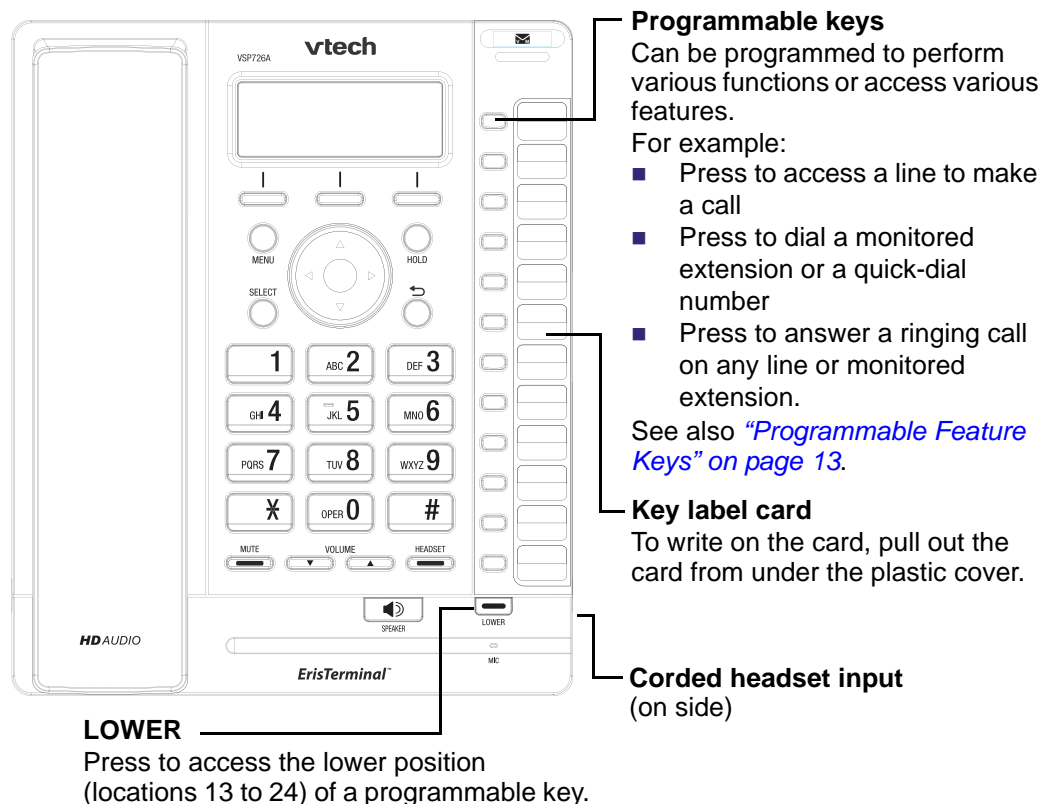
The VSP726A has 12 dual-function programmable keys. You can program these keys for quick dial, busy lamp field, line access or any of the functions described in [“Programmable Feature Keys” on page 13](#).

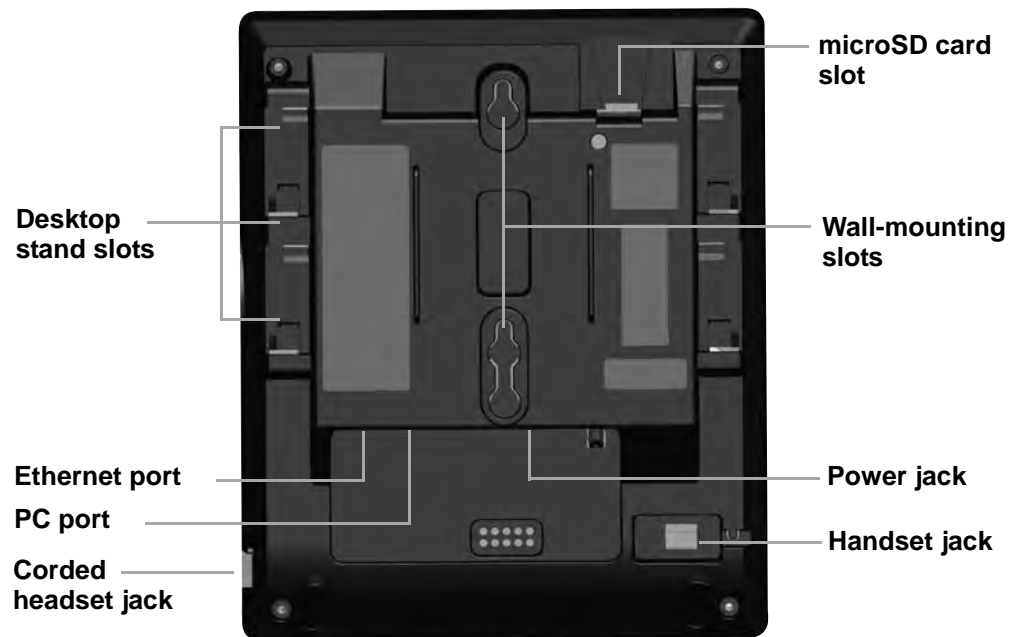
Quick Reference Guide

The controls you will need to use to configure the VSP726A manually are described below.



The external features that are relevant to installation and configuration are described below.





Programmable Feature Keys

The table below lists the default settings for the programmable feature keys (PFKs). The key assignments on your phone may be different. Some keys may be programmed as Quick Dial keys, for example. You can assign functions to programmable keys using the phone menu (**Main Menu > User Settings > Programmable keys**), using the WebUI, or via provisioning and the configuration file.

For more information about assigning functions to programmable keys using the phone menu, see the User Guide.

To assign functions to programmable keys using the WebUI, see [“Programmable Feature Keys” on page 65](#).

For the programmable key configuration file parameters, see [“pfk Module: Programmable Feature Key Settings” on page 182](#).

Table 2. Programmable key default settings

Key Number	Setting
1	Line—Account 1*
2	Line—Account 1
3	Quick Dial
4	Quick Dial
5	Quick Dial
6	Quick Dial
7	Quick Dial
8	Quick Dial
9	Quick Dial
10	Quick Dial
11	Quick Dial
12	Quick Dial
13–24	Quick Dial

* You can assign more than one key to an account. For example, you can configure Line keys 1 and 2 to access Account 1, and Line keys 3 and 4 to access Account 2. Use the key label card to label the keys appropriately for VSP726A users after configuration.

Other possible programmable key settings

- Call Forward No Answer—Turns Call Forward No Answer (CFNA) on and off. When CFNA is on, unanswered incoming calls are forwarded to another number after a specified delay.

- Call Forward Busy—Turns Call Forward Busy (CFB) on and off. When CFB is on, incoming calls are forwarded to another number when the line is busy.
- Quick Dial
- BLF—Busy lamp field keys let you monitor activity at other phones. The key LED indicates call status.
- ACD—If enabled as an ACD (Automatic Call Distribution) key, the user can press the key to display the ACD State menu on the phone. The user can select an ACD state from the menu, and the key LED will indicate the selected state. See the User Guide for more information about using the ACD State menu. The ACD feature is compatible with Broadsoft's Broadworks Call Center Application.
- Page—If this feature is enabled, press the Page key to call one or a group of phones. You can configure pages to be automatically answered. See [“SIP Account Management” on page 46](#).
- Multicast page—Press the Multicast page key to page all phones in a pre-defined paging zone. See [“Paging Zones” on page 75](#).
- Park Call—Dials the access code to park your current call. To program access codes, see [“SIP Account Management” on page 46](#).
- Retrieve Parked Call—Dials the access code to retrieve a parked call.
- In Call DTMF—Dials a string of numbers while you are on a call. For example, pressing the key might dial a conference access code.
- Call Return—Dials the number of the last missed call.
- Group Call Pickup—Dials the Group Call Pickup code, allowing you to answer a call ringing at any extension within an admin-defined group.
- Direct Call Pickup—Dials the Direct Call Pickup code, allowing you to answer a call ringing at a specific extension. After pressing the button, you may need to enter the extension number manually.
- Prefix Dialing—Automatically goes off-hook and dials a prefix (hidden from the user).
- Call Handling Profile—For Comverse server-side feature control. Dials the call handling profile code along with the profile index number to activate the profile.
- Hunt Group—Dials the hunt group extension number.
- Secretarial Filtering—Turns Comverse secretarial filtering on or off.
- Phone Lock—Locks the phone or enables the user to unlock the phone with a PIN. See the phone lock section.
- Flash—Performs a hook flash, as defined in [“Programmable Feature Keys” on page 65](#).
- XML App—Displays a user-initiated (pulled) XML-based screen or menu.

LED Behaviour

The programmable feature keys have LEDs that indicate various states.

Table 3. VSP726A LED behaviour

Key function	LED Activity	Description
Account	Flashing ORANGE	Account not registered
	Steady GREEN	Dialing or on a call
	Quickly flashing GREEN	Ringing incoming call
	Slowly flashing GREEN	Held call
Shared account	Steady ORANGE	Shared account is on a call
	Slowly flashing ORANGE	Shared account is on hold
Do Not Disturb	Off	DND is off
	Steady ORANGE	DND is on
Call Forward	Off	Call forwarding is off
	Steady ORANGE	Call forwarding is on
Page	Steady GREEN	Outgoing page in progress
Busy Lamp Field	Steady GREEN	Monitored phone is idle
	Steady ORANGE	Monitored phone is on a call
	Quickly flashing ORANGE	The monitored phone is ringing or has a held call*
	Off	BLF registration error
*Held call indication applies only to certain servers.		
Automatic Call Distribution	Quickly flashing GREEN	Agent "wrap up" state
	Steady GREEN	Agent ready state
	Slow Flash GREEN	Agent unavailable state
	Steady ORANGE	Logged on
	Slowly flashing ORANGE	Logged off
	Quickly flashing ORANGE	ACD subscription error
Call Handling Profile	Off	No CHP activated
	Steady Orange	CHP activated
Secretarial Filtering	Off	Secretarial Filtering is off
	Steady ORANGE	Secretarial Filtering is on
Hunt Group	Off	Hunt Group is off
	Steady ORANGE	Hunt Group is on

Programmable Hard Keys

Some of the deskset hard keys can be programmed for functions different from the factory default functions. Programming is done using the WebUI or the configuration file. The following hard keys are programmable:

- **UP** arrow on the navigation pad
- **DOWN** arrow on the navigation pad
- **SELECT**
- **CANCEL**
- **FLASH** (VSP736A only)
- **HOLD** (VSP736A only)
- **MUTE**
- **TRANSFER** (VSP736A only)
- **CONFERENCE** (VSP736A only)

Each programmable hard key can be configured with one of the following functions:

- N/A (unassigned)
- Directory
- Call History
- Redial
- Messages
- Do Not Disturb
- Call Forward All
- Call Forward No Answer
- Call Forward Busy
- Quick Dial
- Page
- Multicast Page
- Retrieve Parked Call
- Call Return
- Group Call Pickup
- Direct Call Pickup
- Prefix Dial
- XML App
- Phone Lock
- Network Status

Network Requirements

A simple VSP726A SIP deskset installation example is shown in Figure 1. A switched network topology is recommended for your LAN.

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

The VSP726A 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 VSP726A desksets so that IP addresses can be auto-assigned. In most cases, your network router will have a DHCP server. By default, the VSP726A 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 VSP726A. You can assign a static IP address using the VSP726A menu. Go to **Admin settings > Network setting > Set static IP**. If you do not have a DHCP server or do not manually assign static IPs, you will not be able to access the WebUI and/or enable automatic time updates from an NTP server.

A DNS server is recommended to resolve the path to the Internet and to a server for firmware and configuration updates. If necessary, the system administrator can also download upgrade files and use the WebUI to update the VSP726A firmware and/or configuration settings manually.

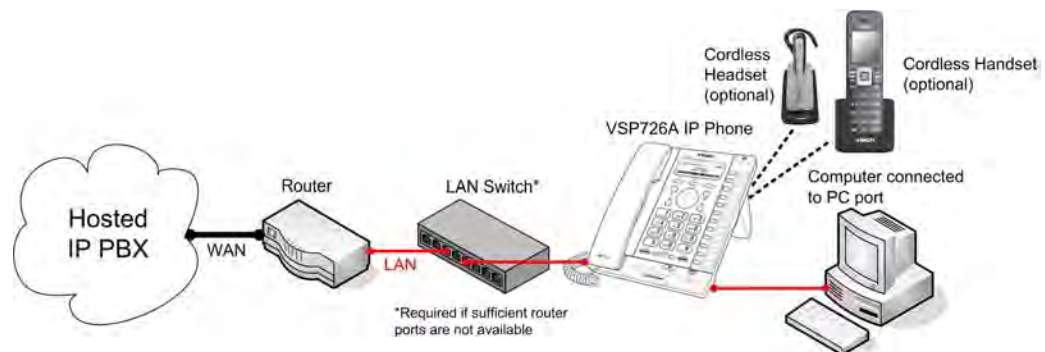


Figure 1. VSP726A Installation Example

VSP726A Configuration Methods

You can configure the VSP726A using one of the following methods:

- From the VSP726A itself, using the menus. The VSP726A menus are best suited to configuring a few settings, perhaps after the initial setup has been done. For administrators, the settings available on the VSP726A menus include network settings, account settings, and provisioning settings. See [“Using the Admin Settings Menu” on page 30](#). Many of the settings accessible on the VSP726A are most useful for end users. Through the menu, they can customise the screen appearance, sounds, and manage calls. For more information, see the VSP726A User Guide.
- The Web User Interface, or WebUI, which you access using your Internet browser. See [“Using the WebUI” on page 41](#). The browser-based interface is easy to navigate and best suited to configuring a large number of VSP726A 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, configure the programmable keys, and set up provisioning, which will allow you to automatically and remotely update the VSP726A after initial configuration.
- Provisioning using configuration files. Working with configuration files is the best way to configure multiple phones. There are several methods available to enable the VSP726A to locate and upload the configuration file. For example, you can enable the VSP726A, 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 VSP726A automatically downloads the file and applies the new settings. For more information, see [“Provisioning Using Configuration Files” on page 125](#).

Adding a Custom Logo

You can upload a custom logo to be displayed on the phone idle screen and during bootup. Uploading a logo is done using the configuration file. The parameters for uploading a custom logo are described in [“Uploading a custom logo” on page 19](#). The default logo for bootup and idle mode is the **vtech** logo.



Idle screen logo behaviour

The behaviour described below is disabled by default.

You can enable the logo to appear instead of the idle screen after a specified period of inactivity. The parameter for setting the delay before the logo appears is in the General configuration file. See [“user_pref.idle_to_logo_timeout” on page 175](#).

You can enable the phone screen to cycle between the logo and the idle screen when the phone is in idle mode by setting both the `user_pref.idle_to_logo_timeout` and the `user_pref.logo_to_idle_timeout` parameters. See [“user_pref.logo_to_idle_timeout” on page 175](#).

Logo specifications

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

File type: Monochrome bitmap (.bmp)

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

Positioning a custom logo on the screen is a matter of creating a logo with the maximum dimensions listed above, including any surrounding white space. Note that the width of the logo specified in the table above is the same as the width of the VSP726A screen (158 pixels). There are no configuration file settings to specify the x-axis or y-axis position of the logo on the screen.

Uploading a custom logo

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

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

- file not found
- invalid file format

- incorrect image size
- image is not in black and white

Custom logo user interactions

For VSP726A users, pressing any hard key will exit the idle logo and perform the key's function. For example, pressing **MENU** will show the Main Menu.

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

Customising Soft Keys

Using the configuration file, you can select which soft keys can appear on the Idle screen, the Active Call screen, the Held Call screen, and the Live Dial screen. You can also specify the position of each soft key. See [“softkey Module: Custom Soft Key Settings” on page 211](#).

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

Soft key levels with no soft keys will not be shown if there are multiple soft key levels (as indicated by the ◀ and ▶ icons). Any soft key level where all soft keys are invisible will be dynamically skipped when the user navigates through the available levels. On the VSP726A, a soft key level consists of three soft keys (populated or blank) in a row.

Table 4 shows the soft key options available for each screen. Each screen can have a maximum of nine soft keys.



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

Table 4. Custom Soft Keys

Screen	Available Soft Keys	Soft Key Text
Idle	Blank	
	Directory	Directory
	Call Log	Call Log
	Redial	Redial
	Message	Message
	Do Not Disturb	DND
	Call Forward	CallFwd
	Call Forward All	FwdAll
	Call Forward No Answer	CFNA
	Call Forward Busy	FwdBusy
	Intercom	Intercom
	Retrieve Parked Call	Retrieve
	Call Return	CallBack
	Group Call Pickup	GrpPickup
	Direct Call Pickup	DirPickup
Line (visible with more than one account assigned)	Line	

Table 4. Custom Soft Keys

Screen	Available Soft Keys	Soft Key Text
	Settings	Settings
Call Active	Blank	
	New	New
	Park Call	Park
	End	End
	Hold	Hold
	Private Hold	Priv Hold
	Transfer	Transfer
	Conference	Conf
	Flash	Flash
	Handset pickup (VSP726A and VSP736A only)	HS Pickup
Record (VSP726A and VSP736A only)	Record	
Call Held	Blank	
	End	End
	New	New
	Retrieve Parked Call	Retrieve
	Group Call Pickup	GrpPickup
	Direct Call Pickup	DirPickup
	Resume	Resume
	Transfer	Transfer
	Conference	Conf
	Handset pickup (VSP726A and VSP736A only)	HS Pickup

Table 4. Custom Soft Keys

Screen	Available Soft Keys	Soft Key Text
Live Dial	Blank	
	Directory	Directory
	Call Log	Call Log
	Redial	Redial
	Message	Message
	End	End
	Dial	Dial
	Input (letter/number selection)	123
	Cancel	Cancel
	Backspc	Backspc

Custom soft key configuration file settings

The custom soft keys parameters are included in the "softkey" module. For more information, see [“softkey Module: Custom Soft Key Settings” on page 211](#). To modify a soft key parameter, enter values separated by commas. Soft keys appear on the phone screen in the same order as the soft key values you enter. For example, the parameter/value combination of `softkey.idle = line,dir,settings` will result in the Idle screen shown below:



Using an SD card

The micro SD card slot on the back of the VSP726A provides the following features:

- Local call recording—allows the user to record a two-way conversation during a call. The recording is stored in the available memory of the SD card.

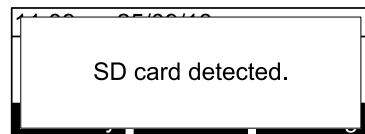
You can configure local call recording on the deskset menu, WebUI, and configuration file. See [“Using the Call Recording menu” on page 39](#) and [“Local Call Recording” on page 82](#).

- Network trace
- System log
- Firmware upgrade—firmware upgrades can be loaded on the SD card for manual firmware updates.
- Configuration file import and export—the VSP726A configuration file can be imported from or exported to the SD card for configuring other units or for system backup.

You can view the SD card memory usage on the SD card menu (available on the deskset User settings menu) or on the WebUI status page (see [“Status Page” on page 45](#)).

Inserting and ejecting an SD card

The deskset will detect the SD card upon insertion. A splash screen indicating detection will appear for two seconds.



To eject the SD card:

1. When the VSP726A is idle, press **MENU/SELECT**.
2. On the Main Menu, press ▼ to highlight **User settings**, and then press **MENU/SELECT**.
3. On the User settings menu, press ▼ to highlight SD card, and then press **MENU/SELECT**.



4. On the SD card menu, press **Eject**.

Total memory:	16GB
Available memory:	7.2GB
Back	Eject

5. Wait for the message **It is now safe to eject your SD card**, and then press down on the SD card to release it.

CHAPTER 2

CONFIGURATION USING THE PHONE MENUS

The VSP726A Main Menu has the following sub-menus:

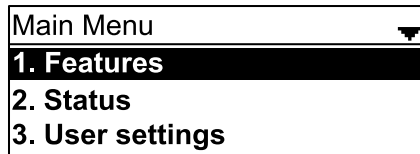
- Features—manage calls, view and add directory entries, view call history, access messages, and use the speed dial menu.
- Status—view the VSP726A network status, account registration status, and product information.
- User Settings—allows the user to set the language for the display, configure the appearance of the display, edit programmable keys, register a DECT headset and customise the audio settings.
- Admin settings—configure network settings (enter static IP addresses, for example), account settings, provisioning, security, and call recording.

This chapter contains instructions for using the Admin Settings menu and for accessing the Status menu. See the VSP726A User Guide for more information about the Features menu and User Settings menu.

Viewing the Main Menu

To use the VSP726A menu:

1. When the VSP726A is idle, press **MENU**.
The **Main Menu** appears.



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

Using the Status menu

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

You can also find the software version of the VSP726A on the **Product Info** screen, available from the **Status** menu.

To view the Status menu:

1. When the VSP726A is idle, press **MENU**.
2. On the **Main Menu**, press ▲ or ▼ to highlight **Status**, and then press **SELECT**.
The **Status** menu appears.



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

The available status menus are listed in Table 5.

Table 5. Status menu summary

Menu	Information listed
1. Network (IPv4 or IPv6)	<ul style="list-style-type: none"> ■ IP type ■ IP address ■ DHCP status (Enabled/Disabled) ■ Subnet Mask ■ Prefix (IPv6 only) ■ Gateway IP address ■ DNS server 1 IP address ■ DNS server 2 IP address
2. Line	<p>Lines and registration status. On the Line menu, highlight and select the desired line to view detailed line status information:</p> <ul style="list-style-type: none"> ■ Line status (Registered/Not registered) ■ Account display name ■ Account User ID ■ Registrar Server IP address ■ Registrar Server port number ■ Proxy server IP address ■ Proxy server port number
3. Product Info	<ul style="list-style-type: none"> ■ Model number ■ Serial number ■ MAC address ■ Boot version ■ Firmware version ■ V-Series ■ Hardware version ■ EMC version ■ NTP server
4. Cordless Accessories	<ul style="list-style-type: none"> ■ DECT handset (Registered/Not registered) ■ DECT headset (Registered/Not registered)

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.

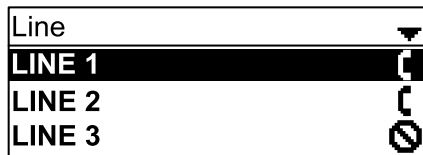



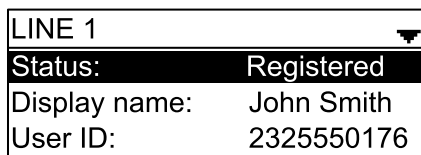


Table 6. Line status icons

Icon	Description
	Line registered
	Line unregistered
	Line disabled

To view complete status information for a line:

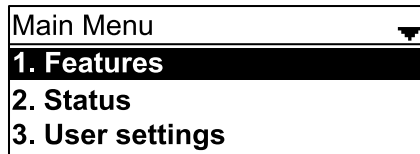
- On the **Line** menu, press ▲ or ▼ to highlight the desired line, and then press **SELECT**. The full line status screen appears.



Using the Admin Settings Menu

To access the Admin Settings menu:

1. When the VSP726A is idle, press **MENU**.
The **Main Menu** appears.



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

-or-

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

3. Use the dial pad to enter the admin password, and then press **Enter**. The default password is **admin** (press the **123** soft key to enter letters with the dial pad).

The Admin settings are listed in Table 7.

Table 7. Admin setting summary

Setting	Options
1. Network setting See page 32	<ol style="list-style-type: none"> 1. IPv4 2. IPv6 3. VLAN ID
2. Line See page 35	<ol style="list-style-type: none"> 1. LINE 1 2. LINE 2 3. LINE 3 4. LINE 4
3. Provisioning See page 36	<ol style="list-style-type: none"> 1. Server 2. Login 3. Password
4. Security See page 37	<ol style="list-style-type: none"> 1. Restriction Mode 2. Enabling Web Server
5. Call Recording Settings See page 39	<ol style="list-style-type: none"> 1. Call Recording (Enabled, Disabled) 2. Record Tone (Enabled, Disabled)

Table 7. Admin setting summary

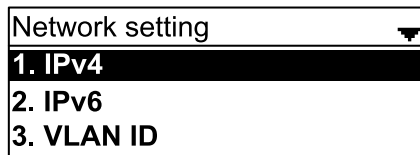
Setting	Options
6. Edit password See page 39	1. User PW 2. Admin PW
5. Reset to default	Press SELECT to display a screen that allows you to reset the phone to factory default settings.
6. Restart phone	Press SELECT to display a screen that allows you to restart the phone.

Using the Network Setting menu

Use the Network setting menu to configure network-related settings for the VSP726A. For more information about these settings, see [“Basic Network Settings” on page 84](#) and [“Advanced Network Settings” on page 86](#).

To use the Network setting menu:

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

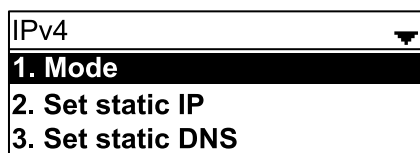


- Press ▲ or ▼ to highlight the desired option, and then press **SELECT**:

- 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:

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



- With **Mode** selected, press **Select**.
The **Mode** menu appears.

A screenshot of a menu titled "Mode". Below the title, "IP type:" is followed by "DHCP" and a right-pointing arrow. At the bottom of the menu are two buttons: "Cancel" on the left and "Save" on the right.

3. Press ◀ or ▶ to select the network mode for your network type, and then press **Save**.

DHCP (IPv4) or Auto (IPv6) is enabled by default, which means the VSP726A will get its IP address from the network. When DHCP and Auto are disabled, you must enter a static IP address for the VSP726A.



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

To set static IP for the VSP726A:

1. From the **Mode** menu, press ◀ or ▶ to select **Static IP**, and then press **SELECT**.
If DHCP is disabled, the **Set static IP** menu appears. If DHCP is enabled, an error message appears briefly before returning you to the **Network setting** menu.
2. On the **Set static IP** menu, enter the static IP address. Use the dial pad and the **Add dot** soft key to enter characters. Press ◀ or ▶ to advance to the next character.

A screenshot of a menu titled "Set static IP". Below the title, there are two input fields: "IP:" and "Subnet Mask:". At the bottom of the menu are three buttons: "Cancel" on the left, "Add dot" in the middle, and "Save" on the right.

3. Press ▼ and enter the Subnet Mask. Use the dial pad and the **Add dot** soft key to enter characters. Press ◀ or ▶ to advance to the next character.
4. Press ▼ and enter the Gateway. Use the dial pad and the **Add dot** soft key to enter characters. Press ◀ or ▶ to advance to the next character.
5. Press ▼ and enter the IP address for the primary DNS server. Use the dial pad and the **Add dot** soft key to enter characters. Press ◀ or ▶ to advance to the next character.
6. Press ▼ and enter the IP address for the secondary DNS server. The VSP726A 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 **SELECT**.
2. Highlight **Set static DNS** and then press **SELECT**.
The **Set static DNS** menu appears.

Set static DNS	
Static DNS:	Disabled
DNS 1:	
Cancel	Save

3. On the **Set static DNS** menu, press ◀ or ▶ 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 **SELECT**.
2. Highlight **Set PPPoE** and then press **SELECT**. The **Set PPPoE** menu appears.

Set PPPoE	
Username:	
Password:	
Cancel	ABC Save

3. On the **Set PPPoE** menu, enter the PPPoE account Username.
4. Press ▼ and then press **Edit** 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 VSP726A:

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

VLAN ID	
WAN VLan:	Disabled
WAN VID:	0
Cancel	Save

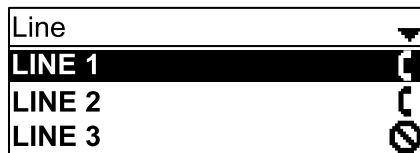
3. Press ▼ and enter the WAN VID. Use the dial pad and the **Backspc** soft key to enter characters. The valid range is 0 to 4095.
4. Press ▼ and then press ◀ or ▶ to enable or disable the PC port VLAN.
5. Press ▼ and enter the PC port number. Use the dial pad and the **Backspc** soft key to enter characters. The valid range is 0 to 4095.
6. Press **Save** .

Using the Line menu

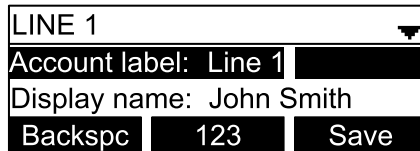
Use the **Line** menu to configure line-specific settings for the phone.

To use the Line setting menu:

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



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



You can configure:

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

For more information about these settings, see [“SIP Account Management” on page 46](#).

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

Using the Provisioning menu

Use the Provisioning menu to configure auto-provisioning settings. For more information about auto-provisioning, see [“Provisioning” on page 107](#) and [“Provisioning Using Configuration Files” on page 125](#).

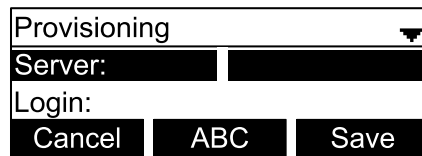
On the Provisioning menu you can configure:

- Server string—the URL of the provisioning server. The URL can include a complete path to the configuration file.
- Login ID—the username the VSP726A will use to access the provisioning server.
- Login PW—the password the VSP726A will use to access the provisioning server.

To use the Provisioning menu:

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

The **Provisioning** menu appears.



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

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

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

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

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

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

Using the Security menu

On the Security menu, you can configure the phone lock feature, and enable or disable the Web server. The Web server setting determines whether the embedded WebUI is available from the phone.

The Phone Lock feature restricts certain hard keys and features unless the user enters a PIN code. There are three escalating modes of lockout:

- **Restricted Config** only locks out the menu and voicemail.

When Restricted Config is enabled, the following keys/features are restricted:

- **MENU** key
- Settings soft key
- Messages soft key
- Messages PFK
- **Restricted Call** locks out all advanced calling features, including transfer, conference and hold, via hard keys, soft keys and PFKs. The phone operates only in single call, single account mode.

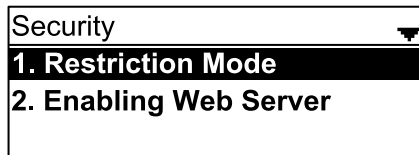
When Restricted Call is enabled, the following keys and features are restricted in addition to those restricted as part of Restricted Config:

- **HOLD** key
- **SELECT** key
- **UP, DOWN, LEFT, RIGHT** keys
- All soft keys not listed as part of Restricted Config
- **LOWER** key
- All PFKs
- Outgoing Multicast
- Outgoing Server-side Paging
- **Emergency Call Only** locks out all outgoing calls except emergency calls. Emergency numbers must match the Emergency Dial Plan, as configured under [“General Account Settings” on page 46](#).

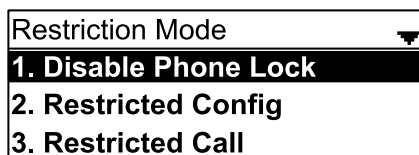
Incoming calls are still allowed for all modes.

To use the Security menu:

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



2. With **Restriction Mode** highlighted, press **SELECT**.
The **Restriction Mode** menu appears.



3. Press ▲ or ▼ to highlight the desired restriction mode, and then press **SELECT**.
The **Security** menu appears.
4. Press ▲ or ▼ to highlight **Enabling Web Server**, and then press **SELECT**.
The **Enabling Web Server** menu appears.



5. Press ◀ or ▶ to select Enabled or Disabled.
6. Press **Save** .

Using the Call Recording menu

You can configure the call recording feature on the Call Recording Settings menu. On the Call Recording Settings menu you can enable and disable:

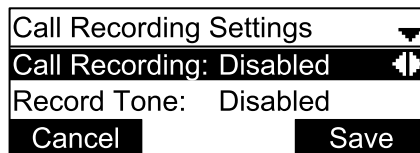
- call recording
- the call record tone (played over the line when recording begins and ends).



If you attempt to enable Call Recording with no SD card inserted, the deskset displays a **No SD card detected.** message.

To use the Call Recording menu:

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



2. Press ◀ or ▶ to enable or disable Call Recording.
3. Press ▼ to highlight **Record Tone**, and then press ◀ or ▶ to enable or disable the Record Tone.
4. Press **Save**.

Using the Edit password menu

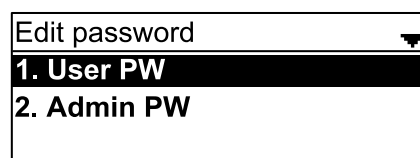
On the Edit password menu, you can reset the current User and Admin passwords.



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.

Edit password ▼		
New PW:	[Redacted]	
Re-enter PW:	[Redacted]	
Cancel	ABC	Save

3. Enter the new password using the dial pad keys.
4. Press ▼ and then re-enter the new password.
5. Press **Save** .

CHAPTER 3

USING THE WEBUI

The WebUI allows you to configure account settings, programmable keys, network settings, contact lists, and provisioning settings. The WebUI is embedded in the VSP726A 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 VSP726A settings. This chapter covers:

- [“Using the Web User Interface \(WebUI\)” on page 42](#)
- [“Status Page” on page 45](#)
- [“System Pages” on page 46](#)
- [“Network Pages” on page 83](#)
- [“Contacts Pages” on page 88](#)
- [“Configuration Pages” on page 101.](#)

Using the Web User Interface (WebUI)

The Web User Interface (WebUI) resides on the VSP726A deskset. You can access it using an Internet browser. After you log in to the WebUI, you can configure the VSP726A on the following pages:

System

- SIP Account Management (see [page 46](#))
- Call Settings (see [page 60](#))
- User Preferences (see [page 63](#))
- Programmable Keys (see [page 65](#))
- Speed Dial (see [page 73](#))
- Ringer Settings (see [page 74](#))
- Paging Zones (see [page 75](#))
- Server Application (see [page 77](#))
- Hotline Settings (see [page 81](#))
- Local Call Recording (see [page 82](#))

Network

- Basic Network Settings (see [page 84](#))
- Advanced Network Settings (see [page 86](#))

Contacts

- Local Directory (see [page 88](#))
- Blacklist
- LDAP (see [page 94](#))
- Broadsoft (see [page 97](#))
- Remote XML (see [page 98](#))
- Call History (see [page 100](#))

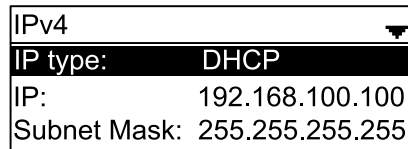
Configuration

- Reboot (see [page 101](#))
- Time and Date (see [page 101](#))
- Custom Language (see [page 104](#))
- Firmware Upgrade (see [page 105](#))
- Provisioning (see [page 107](#))
- Security (see [page 114](#))
- Trusted Servers (see [page 118](#))
- Trusted IP (see [page 119](#))
- Certificates (see [page 120](#))
- TR-069 (see [page 122](#))
- System Logs (see [page 123](#))

The WebUI also has a **System Status** page, where you can view network status and general information about the VSP726A. The information on the Status page matches the **Status** menu available on the VSP726A.

To access the WebUI:

1. Ensure that your computer is connected to the same network as the VSP726A. Your computer may already be connected to the network through the PC port on the back of the VSP726A.
2. Find the IP address of the VSP726A:
 - a. When the VSP726A is idle, press **MENU**.
 - b. Press **▼** to highlight **Status**, and then press **SELECT**.
 - c. With **Network** highlighted, press **SELECT**.
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 VSP726A 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**.



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

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



The settings tables in this section contain settings that appear in the WebUI and their equivalent settings in the configuration file template. You can use the configuration file template to create custom configuration files. Configuration files can be hosted on a provisioning server and used for automatically configuring phones. For more information, see [“Provisioning Using Configuration Files” on page 125](#).

Status Page

The WebUI System Status page is equivalent to the **Status** menu on the VSP726A.

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
- **Cordless Status** indicates whether a cordless headset and/or handset is registered to the phone.

STATUS	STATUS	SYSTEM	NETWORK	CONTACTS	CONFIGURATION
System Status	<p>General</p> <p>Model: VSP726A Serial Number: XC300004395 MAC Address: 14:AE:DB:10:89:74 Link Status: Connected Boot Version: 1.03 Software Version: 2.7.14.ef07 V-Series: 2.7.14.ef07 Hardware Version: EMC Version: Network Time Settings: europe.pool.ntp.org</p> <p>Account Status</p> <p>Account 1: Registered Account 2: Not Registered Account 3: Not Registered Account 4: Not Registered</p> <p>IPv4</p> <p>IP Mode: dhcp IP Address: 10.88.50.120 Subnet Mask: 255.255.0.0 Gateway: 10.88.3.149 Primary DNS: 10.88.162.10 Secondary DNS: 10.88.162.6</p> <p>IPv6</p> <p>IP Mode: disable IP Address: :: Prefix: 0 Gateway: ff02::c Primary DNS: Secondary DNS:</p> <p>Cordless Status</p> <p>Headset: Not Registered Handset: Not Registered</p>				

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 134](#).

SYSTEM	STATUS	SYSTEM	NETWORK	CONTACTS	CONFIGURATION
SYSTEM ACCOUNT MANAGEMENT ACCOUNT 1					
General Account Settings					
<input checked="" type="checkbox"/> Enable Account					
Account label:	<input type="text" value="Line 1"/>				
Display Name:	<input type="text" value="John Smith"/>				
User Identifier:	<input type="text" value="203"/>				
Authentication Name:	<input type="text" value="203"/>				
Authentication Password:	<input type="password" value="....."/>				
Dial Plan:	<input type="text" value="x+(#:)x+P"/>				
Call Restriction Dial plan:	<input type="text"/>				
Emergency Dial plan:	<input type="text"/>				
Inter-Digit Timeout (secs):	<input type="text" value="3"/>				
Maximum Number of Calls:	<input type="text" value="6"/>				
Page Auto Answer:	<input type="text" value="Manual"/>				
Feature Synchronization:	<input type="text" value="Disable"/>				
Line Type:	<input type="text" value="Private"/>				
Barge-In:	<input type="text" value="Disable"/>				
DTMF Method:	<input type="text" value="Auto"/>				
Unregister After Reboot:	<input type="text" value="Disable"/>				

General Account Settings

Click the link for each setting to see the matching configuration file parameter in [“Configuration File Parameter Guide” on page 133](#). 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 VSP726A display when account x is selected.
Display Name	Enter the Display Name. The Display Name is the text portion of the caller ID that is displayed for outgoing calls using account x. If the Account Label is blank, the Display Name appears on the VSP726A 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. Note: 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 dialling strings separated by a symbol. See “Dial Plan” on page 49 .
Call Restriction Dial Plan	Enter a call restriction dial plan, which prevents users from completing calls to certain numbers for this account.
Emergency Dial Plan	Enter the Emergency Dial plan, which will apply to both restricted calls (when the phone lock feature is set to Emergency Call Only—see “Using the Security menu” on page 37 and “Security” on page 114) and other calls.
Inter Digit Timeout (secs)	Sets how long the VSP726A waits after any "P" (pause) in the dial string or in the dial plan.
Maximum Number of Calls	Select the maximum number of concurrent active calls allowed for that account.
Page Auto Answer	When set to Auto, enables the VSP726A to automatically answer when a page is received. This is usually the desired behaviour for paging.
Feature Synchronization	Enables the VSP726A to synchronise 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 VSP726A menu and WebUI. Similarly, changes made using the VSP726A or WebUI will update the settings on the server.
Line Type	Select the line type to Private or Shared. A private line will be accessible only at the VSP726A you are configuring. Shared lines can be assigned to more than one VSP726A. For more information about using shared lines, see the VSP726A User Guide.
Barge-in	Enables subscribers to shared lines to "barge in" on active calls on other shared lines.

Setting	Description
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 VSP726A, disable this setting.

Dial Plan

The dial plan consists of a series of dialling rules, or strings, that determine whether what the user has dialled is valid and when the VSP726A should dial the number.

There are three different types of dial plans available: general, Call Restriction, and Emergency.

In the case of overlapping dial plan definitions between Emergency, Call Restriction, and the general dial plan, the following priority (high to low) applies:

1. Emergency
2. Call Restriction
3. General

For example, in order to restrict a regular user to dial extensions in the 9xx range while having 911 as the emergency number, use the following dial plans:

- Emergency dial plan = 911
- Call Restriction dial plan = 9xx
- General dial plan = xxx

A user who dials 920 will be unable to complete the call, and the message **920 is a restricted number** will appear on the phone screen. A user who dials 911 will complete an emergency dial.



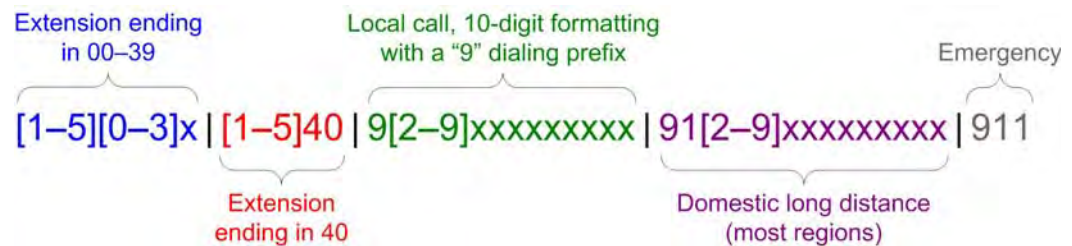
Numbers that are dialled when forwarding a call—when the user manually forwards a call, or a pre-configured number is dialled for Call Forward All, Call Forward–No Answer, or Call Forward Busy—always bypass the dial plan.

Dialling 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 "SIP Account Management" on page 46).

Element	Description
(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 dialled. For example, in "(:1)xxxxxxxx", the digit 1 is appended to any 10-digit number dialled.
	This separator is used to indicate the start of a new pattern. Can be used to add multiple dialling rules to one pattern edit box.

A sample dial plan appears below.



See also [“Prefix Dialing” on page 72.](#)

	SIP Server	Server address:	<input type="text" value="10.88.25.60"/>
	Port:	<input type="text" value="5060"/>	
	Registration	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"/>	
	Outbound Proxy	Server address:	<input type="text" value="0.0.0.0"/>
	Port:	<input type="text" value="0"/>	
	Backup Outbound Proxy	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:

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 or PAI (P-Asserted Identity) header.
Source Priority 2	Select the lower-priority caller ID source.

Audio Settings

Setting	Description
Codec priority 1	Select the codec to be used first during a call.
Codec priority 2	Select the codec to be used second during a call if the previous codec fails.
Codec priority 3	Select the codec to be used third during a call if the previous codec fails.
Codec priority 4	Select the codec to be used fourth during a call if the previous codec fails.
Codec priority 5	Select the codec to be used fifth during a call if the previous codec fails.

Setting	Description
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 packetisation 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 (signalling)	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"> ■ UDP (User Datagram Protocol) is generally less prone to latency, but SIP data may be subject to network congestion. ■ TCP (Transmission Control Protocol) is the most reliable protocol and includes error checking and delivery validation. ■ TLS (Transport Layer Security)—the VSP726A supports secured SIP signalling via TLS. Optional server authentication is supported via user-uploaded certificates. TLS certificates are uploaded using the configuration file. See “file Module: Imported File Parameters” on page 192 and consult your service provider.

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

Paging:

Call Park:

Parked Call Retrieval:

Voicemail:

DND ON:

DND OFF:

Call Forward All ON:

Call Forward All OFF:

Call Forward No Answer ON:

Call Forward No Answer OFF:

Call Forward Busy ON:

Call Forward Busy OFF:

Anonymous Call Reject ON:

Anonymous Call Reject OFF:

Anonymous Call ON:

Anonymous Call OFF:

Call Waiting ON:

Call Waiting OFF:

Group Call Pickup:

Direct Call Pickup:

Hunt Group Sign ON:

Hunt Group Sign OFF:

Secretarial Filtering ON:

Secretarial Filtering OFF:

Feature Access Codes Settings

If your IP PBX service provider uses feature access codes, then enter the applicable codes here. You can assign many of these features to programmable feature keys, which enables end users to press the keys to dial out the codes you enter here. To configure programmable feature keys, see [“Programmable Feature Keys” on page 65](#).

Setting	Description	Assignable to PFK?
Paging	Enter the paging access code.	Yes
Call Park	Enter the call park access code. Broadsoft provides a feature access code for the park feature. Asterisk/Metaswitch provides a parking lot extension number for the park feature. Enter the parking lot extension number here.	Yes

Setting	Description	Assignable to PFK?
Parked Call Retrieval	Enter the call park retrieval access code. Broadsoft and Asterisk/Metaswitch provide a feature access code for park retrieval.	Yes
Voicemail	Enter the voicemail access code. The code is dialed when the user selects a line from the phone's Message menu.	Yes
DND ON	Enter the Do Not Disturb ON access code.	Yes
DND OFF	Enter the Do Not Disturb OFF access code.	Yes
Call Forward All ON	Enter the Call Forward All ON access code. As a Comverse feature, the code supports value substitution. For example, if an ON code is configured as *71%N#, %N will be replaced by another value before it is used as the INVITE target.	Yes
Call Forward All OFF	Enter the Call Forward All OFF access code. As a Comverse feature, the code supports value substitution.	Yes
Call Forward No Answer ON	Enter the Call Forward No Answer ON access code.	Yes
Call Forward No Answer OFF	Enter the Call Forward No Answer OFF access code.	Yes
Call Forward Busy ON	Enter the Call Forward Busy ON access code.	Yes
Call Forward Busy OFF	Enter the Call Forward Busy OFF access code.	Yes
Anonymous Call Reject ON	Enter the Anonymous Call Reject ON access code.	No
Anonymous Call Reject OFF	Enter the Anonymous Call Reject OFF access code.	No
Anonymous Call ON	Enter the Anonymous Call ON access code.	No
Anonymous Call OFF	Enter the Anonymous Call OFF access code.	No
Call Waiting ON	Enter the Call Waiting ON access code.	No
Call Waiting OFF	Enter the Call Waiting OFF access code.	No
Group Call Pickup	Enter the Group Call Pickup code. Dialling the code enables the user to answer a call ringing at another VSP726A that is part of the same group.	Yes
Direct Call Pickup	Enter the Direct Call Pickup code. Dialling the code enables the user to answer a call ringing at another VSP726A.	Yes

Setting	Description	Assignable to PFK?
Hunt Group Sign ON	Enter the Comverse Hunt Group ON code. Supports value substitution.	Yes
Hunt Group Sign OFF	Enter the Comverse Hunt Group OFF code. Supports value substitution.	Yes
Secretarial Filtering ON	Enter the Comverse Secretarial Filtering ON code. Supports value substitution.	Yes
Secretarial Filtering OFF	Enter the Comverse Secretarial Filtering OFF code. Supports value substitution.	Yes

Busy Lamp Field

List URI:

Remote Pickup Code:

BLF Subscription Expiration:

Voicemail Settings

Enable MWI Subscription

Mailbox ID:

Expiration (secs):

Ignore Unsolicited MWI

Enable Stutter Dial Tone

NAT Traversal

Enable STUN

Server Address:

Port:

Enable STUN Keep-Alive

Keep-Alive Interval (sec):

Busy Lamp Field

Setting	Description
List URI	Enter the BLF list URI, as supplied by or set up with your service provider. For example, blf-list1@sipservice.com. This list contains a list of extensions that are eligible for BLF monitoring. You can assign keys for BLF monitoring on the Programmable Keys page. See “Programmable Feature Keys” on page 65 .
Remote Pickup Code	Enter the remote pickup code for the BLF list, as supplied by your service provider.
BLF subscription expiration	Enter the BLF subscription expiry time (in seconds) for account x.

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 VSP726A 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"> ■ MWI service does not involve a subscription to a voicemail server. That is, the server supports unsolicited MWI notifications. ■ you want the Message Waiting LED to indicate new messages when the VSP726A receives unsolicited MWI notifications.
Enable Stutter Dial Tone	Enables or disables the stutter dial tone for that account (indicating message(s) waiting) when the phone goes off hook.

NAT Traversal

Setting	Description
Enable STUN	Enables or disables STUN (Simple Traversal of UDP through NATs) for account x. The Enable STUN setting allows the VSP726A 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

[Save](#)

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 179](#).

The screenshot shows the 'SYSTEM CALL SETTINGS 1' configuration page. The left sidebar contains a navigation menu with options like 'SIP Account Management', 'Account 1-4', 'Call Settings', 'Account 1-4', 'User Preferences', 'Programmable Keys', 'Feature Keys', 'Hard keys', 'Speed Dial', 'Ringer', 'Paging Zones', 'Server Application', 'Hotline Settings', and 'Local Call Recording'. The main content area is titled 'SYSTEM CALL SETTINGS 1' and includes the following sections:

- General Call Settings:** Includes checkboxes for 'Anonymous Call Reject' and 'Enable Anonymous Call', and a 'Ringer Tone' dropdown menu set to '1'.
- Do Not Disturb:** Includes a checkbox for 'Enable DND' and an 'Incoming Calls' dropdown menu set to 'Reject'.
- Call Forward:** Includes checkboxes for 'Enable Call Forward Always', 'Enable Call Forward Busy', and 'Enable Call Forward No Answer', each followed by a 'Target Number' text input field. It also has a 'Delay' dropdown menu set to '6 rings'.
- Call Completion:** Includes checkboxes for 'Enable Call Completion' and 'Enable Call Completion Alert'. The latter is checked and has 'Auto Redial Interval (secs):' (30) and 'Auto Redial Repeat:' (10) text input fields.
- Custom Ringer:** Includes a 'Custom Ringer File:' text input field (currently empty) with a 'Choose File' button. Below it are 'Upload' and 'Reset to Default' buttons. A 'Save' button is located at the bottom left of the form.

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."
Ringer Tone	Sets the ringer tone for incoming calls on the account.

Do Not Disturb

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

Call Forward

Setting	Description
Enable Call Forward Always	Enables or disables call forwarding for all calls on that line. Select to enable.
Target Number	Enter a number to which all calls will be forwarded.
Enable Call Forward Busy	Enables or disables forwarding incoming calls to the target number if: <ul style="list-style-type: none"> ■ the number of active calls has reached the maximum number of calls configured for account x ■ Call Waiting Off is selected.
Target Number	Enter a number to which calls will be forwarded when Call Forward Busy is enabled.
Enable Call Forward No Answer	Enables or disables call forwarding for unanswered calls on that line.
Target Number	Enter a number to which unanswered calls will be forwarded.
Delay	Select the number of rings before unanswered calls are forwarded.

Call Completion

When the user calls a busy number, the Call Completion feature enables the phone to redial the busy number automatically. You can configure the redialling to take place after a set interval and for a set number of times.

Call completion settings must be configured for each account.

Setting	Description
Enable Call Completion	Enable or disable the call completion feature. Calls to busy numbers will prompt a "Retry later?" message on the phone screen.
Enable Call Completion Alert	Enables or disables an audible alert (similar to a hold reminder alert tone) if the user is on another call when the auto redial interval expires.

Setting	Description
Auto Redial Interval (secs)	Sets the countdown timer until the user is prompted for the next dialling attempt.
Auto Redial Repeat	Sets how many auto redial attempts are made.

Custom Ringer

Setting	Description
Custom Ringer File	<p>Upload a custom ringer audio file. This ringer replaces the factory default ringer 10. The maximum file size is 300 k. The following WAV format is accepted:</p> <ul style="list-style-type: none">■ Audio sample rate: 16 kHz■ Audio sample size: 16 bit■ Channels: 1 (mono)■ Audio format: PCM, Signed 16bit, Little Endian

User Preferences

On the User Preferences page, you can configure some basic settings for the phone and set hold reminder and call waiting settings. 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 175](#).

The screenshot shows the 'User Preferences' page in the VSP726A WebUI. The left sidebar contains a navigation menu with categories like 'SYSTEM', 'Call Settings', 'User Preferences', 'Programmable Keys', 'Ringer', 'Paging Zones', 'Server Application', 'Hotline Settings', and 'Local Call Recording'. The 'User Preferences' section is active. The main content area is titled 'General User Settings' and is divided into three sections: 'General User Settings', 'Call Hold Reminder', and 'Call Waiting'. Each section contains several settings with dropdown menus or checkboxes. A 'Save' button is located at the bottom of the settings area.

General User Settings

Click the link for each setting to see the matching configuration file parameter in [“Configuration File Parameter Guide” on page 133](#). Default values and ranges are listed there.

Setting	Description
WebUI Language	Sets the language that appears on the WebUI.
Phone Language	Sets the language that appears on the phone. Other languages may be added in a future release.
Backlight Timer (secs)	Sets how long (in seconds) the screen backlight stays on after the last button press.
Ringer Volume	Sets the ringer volume for incoming calls. You can also use the VOLUME ▼ or ▲ keys on the VSP726A.
Default Audio Mode	Sets how calls are answered when users press a line key or Answer .

Call Hold Reminder

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

Call Waiting

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

Programmable Feature Keys

The Programmable Keys pages allow you to program the vertical row of feature keys on the deskset. You can also reprogram certain hard keys on the deskset.

The VSP726A has 12 dual-function feature keys. You can assign up to 24 functions to the keys listed on the Feature Keys page.



You can reprogram deskset hard keys on the Hard Keys page (see [page 70](#)). For example, you can program the UP arrow navigation key (▲) to display the directory. The functions that you assign to hard keys apply to each key in idle mode only.

Keys can have identical functions, depending on the "Type" of key. For example, you can assign several **Line** keys to Account 1 to enable users to manage multiple calls on Account 1. You can also assign multiple **Quick Dial** keys.

The programmable key settings are also available as parameters in the configuration file. See [“pfk Module: Programmable Feature Key Settings” on page 182](#).

For the programmable key default settings, see [“Programmable Feature Keys” on page 13](#).

Click the link for each setting to see the matching configuration file parameter in [“Configuration File Parameter Guide” on page 133](#). Default values and ranges are listed there.

SYSTEM	STATUS SYSTEM NETWORK CONTACTS CONFIGURATION			
SIP Account Management Account 1 Account 2 Account 3 Account 4 Call Settings Account 1 Account 2 Account 3 Account 4 User Preferences Programmable Keys Feature Keys Hard keys Speed Dial Ringer Paging Zones Server Application Hotline Settings Local Call Recording				
Programmable Keys				
Key	Type	Value	Account	
Key 1	Line		Account 1	
Key 2	Line		Account 2	
Key 3	Line		Account 3	
Key 4	Directory		Account 1	
Key 5	Call History		Account 1	
Key 6	Redial		Account 1	
Key 7	Messages		Account 1	
Key 8	Do Not Disturb		Account 1	
Key 9	Call Forward All		Account 1	
Key 10	N/A		Account 1	
Key 11	N/A		Account 1	
Key 12	N/A		Account 1	
Key 13	N/A		Account 1	
Key 14	N/A		Account 1	
Key 15	N/A		Account 1	
Key 16	N/A		Account 1	
Key 17	N/A		Account 1	
Key 18	N/A		Account 1	
Key 19	N/A		Account 1	
Key 20	N/A		Account 1	
Key 21	N/A		Account 1	
Key 22	N/A		Account 1	
Key 23	N/A		Account 1	
Key 24	N/A		Account 1	
<input type="button" value="Save"/>				

Programmable Key Type	Description
Line	Configures the key for accessing an account. Users can make or answer calls by pressing these keys. The key LED will change according to call activity. After selecting Account in the Type column, select the account number in the Account column.
Directory	Configures the key to access the Directory menu. Users can then press the key to view the Directory menu.
Call History	Configures the key to access the Call History list. Users can then press the key to view the Call History list.
Redial	Configures the key to access the Redial list. Users can then press the key to view the Redial list.
Messages	Configures the key to access the Message menu. Users can then press the key to view the Message menu.
Do Not Disturb	Configures the key to turn Do Not Disturb on or off. The key is lit orange when DND is on.
Call Forward All	Configures the key to turn Call Forward All on or off. In the Account column, select the account for which Call Forward All will apply. Before assigning the key, ensure that you configure Call Forward settings on the Call Settings page.
Call Forward No Answer	Configures the key to turn Call Forward No Answer on or off. In the Account column, select the account for which Call Forward No Answer will apply. Before assigning the key, ensure that you configure Call Forward settings on the Call Settings page.
Call Forward Busy	Configures the key to turn Call Forward Busy on or off. In the Account column, select the account for which Call Forward Busy will apply. Before assigning the key, ensure that you configure Call Forward settings on the Call Settings page.
Quick Dial	Configures the key to dial a number on the selected line. After selecting Quick Dial, enter the number to be dialled in the Value column. In the Account column, select the account on which the number will be dialled out.
BLF (Busy Lamp Field)	Configures the key to monitor another extension. In the Value column, enter the URI of the extension you want to monitor with this key. For example, 2325552001@sipservice.com. For configuring BLF interoperability when using certain service platforms, see <code>sip_account.x.blf_variant</code> .
XML App	Configures the key to open the XML browser. Pressing the key initiates an HTTP(s) GET request to the server. Enter the URI of the XML application to be executed.

Programmable Key Type	Description
ACD (Automatic Call Distribution)	Configures the key to display the ACD State menu on the phone LCD. In the Account column, select the applicable account. The key LED will indicate the current ACD state. Shared Line accounts support ACD, but note that subscribers to a shared line will share a common ACD state.
Page	Configures the key to call one or a group of phones. Pressing the key dials the Paging feature access code. You must enter the feature access code for Paging on the SIP Account Management page. For some service providers, you must also enter a page extension value in the Value column. This value will be dialed along with the Paging feature access code. You can configure pages to be automatically answered. See "Page Auto Answer" under "SIP Account Management" on page 46 .
Multicast Page	Configures the key to make outgoing multicast pages. In the Value column, enter a valid Paging Zone ID (ranging from 1 to 10). Multicast paging differs from standard paging in that it is handled locally by the VSP726A and does not require a subscription through the hosted server. To use multicast paging, you must first set up paging zones on the WebUI. See "Paging Zones" on page 75 . See also <code>pfk.x.multicast_zone</code> in the configuration file.
Park Call	Enables the user to park a call. Pressing the key dials the Call Park feature access code (FAC). You must enter the feature access code for Call Park on the SIP Account Management page. For some service providers, you must also enter a park extension in the Value column. This value will be dialed along with the Call Park FAC. See also <code>sip_account.x.park_variant</code> .
Retrieve Parked Call	Enables the user to retrieve a parked call. Pressing the key dials the Parked Call Retrieval feature access code (FAC) configured on the SIP Account Management page. For some service providers, you must also enter a park retrieval extension in the Value column. This value will be dialed along with the Parked Call Retrieval FAC.
In Call DTMF	Configures the key to dial a string of numbers while the end user is on a call. For example, pressing the key might dial a conference access code. After selecting In Call DTMF, enter the number to be dialed in the Value column. See also <code>pfk.x.incall_dtmf</code> in the configuration file.
Call Return	Configures the key to dial the number of the last missed call.

Programmable Key Type	Description
Group Call Pickup	Enables the user to answer a call ringing at another extension. The call can be ringing at any extension in the phone's call pickup group. Pressing the key dials the Group Call Pickup feature access code (FAC) configured on the SIP Account Management page.
Direct Call Pickup	Enables the user to answer a call ringing at a specific VSP726A or compatible SIP telephone. Pressing the key dials the Direct Call Pickup feature access code (FAC) configured on the SIP Account Management page. Depending on the server requirements, the user may then need to enter the number of the ringing extension.
Prefix Dialing	<p>Configures the key for prefix dialling. Pressing a PFK assigned to Prefix Dialing will automatically go off-hook into Dial mode using the account configured for the PFK. The digits entered under Value are concatenated to any number that the user enters. The outgoing call will include the [Prefix] + [Dialling string]. The Prefix digits are hidden from the user. The prefix digits are visible during Dialling and Call Active states.</p> <p>Note that %N can be used for substitution of user-entered digits. For example, *71%N# will use [*71] + [user-entered digits] + [#] as the outgoing dialling string.</p> <p>The dial plan is enabled after the user enters one or more digits. Both prefix digits (hidden) and user-entered digits (visible) are used for dial plan matching.</p> <p>The timeout-to-dial element in the dial plan is suspended if the user navigates away from the dialling screen.</p>
Flash	<p>Configures the key as a Flash key.</p> <p>With one call active, pressing Flash puts the active call on hold and displays a new call screen with live dial.</p> <p>With two calls active, pressing Flash:</p> <ul style="list-style-type: none"> ■ puts the active call on hold and retrieves a held call, or ■ answers an incoming call.
Call Handling Profile	Configures the key for Comverse call handling profile. Enter the string of the call handling profile that the PFK LED will indicate.
Hunt Group	Configures the key to turn Comverse hunt group on or off. Enter the hunt group extension number assigned for this key.
Secretarial Filtering	Configures the key to turn Comverse secretarial filtering on or off. Enter the manager's extension number assigned for this key.

Programmable Key Type	Description
Phone Lock	Configures the key to enable or disable the phone lock. For more information, see “Using the Security menu” on page 37 “Security” on page 114.

Programmable Hard Keys

You can assign additional functions to the keys that are listed on the Programmable Hard Keys page. The functions that you assign to hard keys apply to each key in idle mode only.

Programmable Key Type	Description
Directory	Configures the key to access the Directory menu. Users can then press the key to view the Directory menu.
Call History	Configures the key to access the Call History list. Users can then press the key to view the Call History list.
Redial	Configures the key to access the Redial list. Users can then press the key to view the Redial list.
Messages	Configures the key to access the Message menu. Users can then press the key to view the Message menu.
Do Not Disturb	Configures the key to turn Do Not Disturb on or off. The key is lit orange when DND is on.
Call Forward All	Configures the key to turn Call Forward All on or off. In the Account column, select the account for which Call Forward All will apply. Before assigning the key, ensure that you configure Call Forward settings on the Call Settings page.
Call Forward Busy	Configures the key to turn Call Forward Busy on or off. In the Account column, select the account for which Call Forward Busy will apply. Before assigning the key, ensure that you configure Call Forward settings on the Call Settings page.
Call Forward No Answer	Configures the key to turn Call Forward No Answer on or off. In the Account column, select the account for which Call Forward No Answer will apply. Before assigning the key, ensure that you configure Call Forward settings on the Call Settings page.

Programmable Key Type	Description
Retrieve Parked Call	Enables the user to retrieve a parked call. Pressing the key dials the Parked Call Retrieval feature access code (FAC) configured on the SIP Account Management page. For some service providers, you must also enter a park retrieval extension in the Value column. This value will be dialled along with the Parked Call Retrieval FAC.
Quick Dial	Configures the key to dial a number on the selected line. After selecting Quick Dial, enter the number to be dialled in the Value column. In the Account column, select the account on which the number will be dialled out.
Page	Configures the key to call one or a group of phones. Pressing the key dials the Paging feature access code. You must enter the feature access code for Paging on the SIP Account Management page. For some service providers, you must also enter a page extension value in the Value column. This value will be dialled along with the Paging feature access code. You can configure pages to be automatically answered. See "Page Auto Answer" under " SIP Account Management " on page 46.
Multicast Page	Configures the key to make outgoing multicast pages. In the Value column, enter a valid Paging Zone ID (ranging from 1 to 10). Multicast paging differs from standard paging in that it is handled locally by the VSP726A and does not require a subscription through the hosted server. To use multicast paging, you must first set up paging zones on the WebUI. See " Paging Zones " on page 75. See also <code>pfk.x.multicast_zone</code> in the configuration file.
Call Return	Configures the key to dial the number of the last missed call.
Group Call Pickup	Enables the user to answer a call ringing at another extension. The call can be ringing at any extension in the phone's call pickup group. Pressing the key dials the Group Call Pickup feature access code (FAC) configured on the SIP Account Management page.
Direct Call Pickup	Enables the user to answer a call ringing at a specific VSP726A or compatible SIP telephone. Pressing the key dials the Direct Call Pickup feature access code (FAC) configured on the SIP Account Management page. Depending on the server requirements, the user may then need to enter the number of the ringing extension.
XML App	Configures the key to open the XML browser. Pressing the key initiates an HTTP(s) GET request to the server. Enter the URI of the XML application to be executed.

Programmable Key Type	Description
Phone Lock	Configures the key to enable or disable the phone lock. For more information, see “Using the Security menu” on page 37 “Security” on page 114.
Prefix Dialing	<p>Configures the key for prefix dialling. Pressing a PFK assigned to Prefix Dialing will automatically go off-hook into Dial mode using the account configured for the PFK. The digits entered under Value are concatenated to any number that the user enters. The outgoing call will include the [Prefix] + [Dialling string]. The Prefix digits are hidden from the user. The prefix digits are visible during Dialling and Call Active states.</p> <p>Note that %N can be used for substitution of user-entered digits. For example, *71%N# will use [*71] + [user-entered digits] + [#] as the outgoing dialling string.</p> <p>The dial plan is enabled after the user enters one or more digits. Both prefix digits (hidden) and user-entered digits (visible) are used for dial plan matching.</p> <p>The timeout-to-dial element in the dial plan is suspended if the user navigates away from the dialling screen.</p>
Network Status	Configures the key to display the Network Status IPv4 or IPv6 selection screen when pressed.

Speed Dial Keys


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

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




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

The speed dial key settings are also available as parameters in the configuration file. See [“speed_dial Module: Speed Dial Settings” on page 187](#).

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

Key	Name	Value	Account
Key 1	<input type="text"/>	<input type="text"/>	Default
Key 2	<input type="text"/>	<input type="text"/>	Default
Key 3	<input type="text"/>	<input type="text"/>	Default
Key 4	<input type="text"/>	<input type="text"/>	Default
Key 5	<input type="text"/>	<input type="text"/>	Default
Key 6	<input type="text"/>	<input type="text"/>	Default
Key 7	<input type="text"/>	<input type="text"/>	Default
Key 8	<input type="text"/>	<input type="text"/>	Default
Key 9	<input type="text"/>	<input type="text"/>	Default
Key 0	<input type="text"/>	<input type="text"/>	Default

To enter speed dial numbers:

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

Speed Dial Keys

Click the link for each setting to see the matching configuration file parameter in [“speed_dial Module: Speed Dial Settings” on page 187](#).

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

Ringer Settings

The Ringer Settings enable you to provide a distinctive ringing feature via the custom Alert-Info header associated with an incoming call. This setting overrides the ringer tone you have set for the account. For example, you can set a unique ringer tone to alert the VSP726A user upon receiving any incoming calls tagged as "important" in the Alert-Info header.

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


```
Alert-Info: info=info_text
```

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

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

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

The ringer settings are also available as parameters in the configuration file. See [“ringersetting Module: Distinctive Ringer Settings” on page 190](#).

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

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

Paging Zones

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

You must first set up paging groups (each group consisting of a multicast paging IP address and assigned User IDs) on your SIP PBX. The VSP726A can monitor a maximum of 10 multicast IP addresses.

Setting	Description
Name	Enter the name of the paging zone. Names can be a maximum of 15 characters. The paging zone name is displayed on the LCD during incoming and outgoing multicast pages.
Multicast IP	Enter the paging zone multicast IP address. The IP address range for multicast addresses is 224.0.0.0–239.255.255.255.
Multicast Port	Enter the multicast port used by the multicast IP address. The valid port range is 1 to 65535.
Priority	Select the paging zone priority from 1 to 10. Zones with a priority higher than another zone can interrupt the lower-priority zone's active page. In addition, a call priority setting is available in the configuration file (page_zone.call_priority_threshold). This priority setting also ranges from 1 to 10 (2 is the default). If the paging zone priority is higher or equal to the call priority, then a multicast page can interrupt an active, dialling, or incoming call.
Enable Incoming Page	Select to enable the VSP726A to receive incoming pages for that paging zone. If the "Enable Incoming Page" checkbox is not selected, the phone will not listen for the multicast, but will still be able to broadcast an outgoing page.

Server Application

On the Server Application page, you can enter Action URIs to allow the VSP726A 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 customised to deliver an appropriate user experience.

The VSP726A 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 initialised 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"> ■ REGISTERED ■ DEREGISTERED ■ FAIL
MAC	The phone's MAC Address
MODEL	The phone's model number: VSP726A.

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"> ■ The user presses the [End] soft key ■ The user hangs up the corded handset during a call ■ A transfer is completed and the user returns to idle ■ The far end hangs up ■ The call was not answered ■ The call fails.
Off Hook	<p>The Off Hook URI is triggered when the user goes to Dial mode by:</p> <ul style="list-style-type: none"> ■ Lifting the corded handset of the cradle ■ Pressing the SPEAKER or HEADSET hard key ■ Pressing a Line PFK ■ Pressing the [New] soft key during a held call. <p>Note that the Off Hook URI will NOT be triggered when calling a pre-defined number and going immediately to Dialling 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 (Dialling mode). For example, after:</p> <ul style="list-style-type: none"> ■ Pressing the [Dial] key in Pre-Dial with populated number ■ Using the dial pad to speed dial a call ■ Pressing a Quick Dial PFK ■ Dialling a Directory number by going off-hook.
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>

Setting	Description
Connected	The Connected URI is triggered each time the phone is in an Active Call or is Paging.
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"> ■ Registered ■ Deregistered ■ Fail (Registration timed out, refused, or expired) <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.

Hotline Settings

Hotline settings enable the VSP726A to dial a pre-configured number after any off-hook action in idle mode—lifting the handset, pressing SPEAKER, pressing HEADSET, or pressing a PFK Line key. The hotline dialling is subject to a delay. When this delay is configured, it supercedes the inter-digit timeout used for regular calls.

Predial mode and dialling mode are not considered idle mode. Hotline dialling will not trigger if digits have been entered, or when the phone is dialling a number.

Hotline dialling will be cancelled if the user presses any keys, or if there are any incoming calls during the hotline dialling delay period.

The hotline number uses the phone's default dial plan.

Setting	Description
Enable Hotline	Enables the hotline feature.
Account	Sets the account used for dialling the hotline number.
Phone Number	Sets the number to be dialled after the hotline delay.
Delay (secs)	Sets the hotline delay before the number is dialled.

Local Call Recording

You can enable or disable local call recording and the call record tone on the Local Call Recording page. You can also delete recordings or export call recordings to the computer.



Before enabling call recording on the Local Call Recording page, an SD card must be inserted into the slot on the rear of the deskset.

Setting	Description
Enable Call Recording	Enable call recording for end users.
Enable Call Recording Tone	Enable a call recording tone that plays during the call when recording begins and ends.

Network Pages

You can set up the VSP726A 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 VSP726A 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” icon on the Deskset screen 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.

The network settings are also available as parameters in the configuration file. See [“network Module: Network Settings” on page 151](#).

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

Basic Network Settings



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 151](#). 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 VSP726A 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 VSP726A, 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 VSP726A, 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 VSP726A.
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 VSP726A 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 VSP726A, 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 VSP726A, 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 VSP726A.
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.

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

Advanced Network Settings

PC Port

You can set the availability of the deskset PC port for network connectivity. When the port is enabled for connectivity, you can set the port to port mirroring, thereby allowing you to use the port to monitor inbound and outbound network traffic and facilitate troubleshooting.

Setting	Description
Enable PC Port	Enable or disable the PC port to operate in hub/switch mode (depending on the Enable PC Port Mirroring setting).
Enable PC Port Mirroring	When the PC port is enabled, select Enable PC Port Mirroring to set the port to operate in hub mode (network traffic on the WAN port is reflected in the PC port). When Port Mirroring is not selected, the port operates in switch mode.

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

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

LLDP-MED

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

802.1x

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

Contacts Pages

Local Directory

On the Local Directory page, you can manage your local directory entries. You can sort, edit, delete, and add contact information for up to 1000 entries. In order to back up your contacts or import another local directory file, the page also enables you to export and import your phone's local directory.

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

CONTACTS

- Local Directory
- Blacklist
- LDAP
- Broadsoft
- Remote XML
- Call History

Local 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	Edit
<input type="checkbox"/>	Bronwyn	McDonald	0	2325550140			1	Edit
<input type="checkbox"/>	Charlie	Johnson	0	5550198			1	Edit
<input type="checkbox"/>	Dale	Appleton	0		6045550195		1	Edit
<input type="checkbox"/>	David	Carter	3	2325550194	2325550177		2	Edit
<input type="checkbox"/>	Davis	Swerdlow	0		2325550172		1	Edit
<input type="checkbox"/>	Elkhart	Taxi	0		6045550169		1	Edit
<input type="checkbox"/>	Graham	Ball	0		2325550176		1	Edit
<input type="checkbox"/>	Kathryn	Dolphy	0		6045550196		1	Edit
<input type="checkbox"/>	Linda	Miller	0		6045550117		2	Edit
<input type="checkbox"/>	Lydia	Braithwaite	0	2325550157			1	Edit
<input type="checkbox"/>	Martin	Meyers	0	2325550122			1	Edit
<input type="checkbox"/>	Mary	Williams	0		6045550145	6045550146	1	Edit
<input type="checkbox"/>	Richard	Serling	0		6045550141	7875550181	2	Edit
<input type="checkbox"/>	Robert	Brown	2		6045550106		2	Edit
<input type="checkbox"/>	Sandro	Voss	0	2325550149			1	Edit
<input type="checkbox"/>	Stefan	Wheeler	0		2325550161		1	Edit
<input type="checkbox"/>	Susan	Ballance	0		6045550170		1	Edit
<input type="checkbox"/>	Terry	Ng	0		2325550167		1	Edit
<input type="checkbox"/>	Ursula	Baldwin	0	6045550166			1	Edit

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

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

Import Local Directory

No File Chosen [Choose File](#)

[Import](#)

Export Local Directory

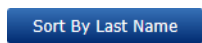






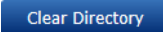
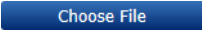

[Export](#)



NOTE You can also use the phone menu to manage local directory entries. For more information, see the VSP726A User Guide.

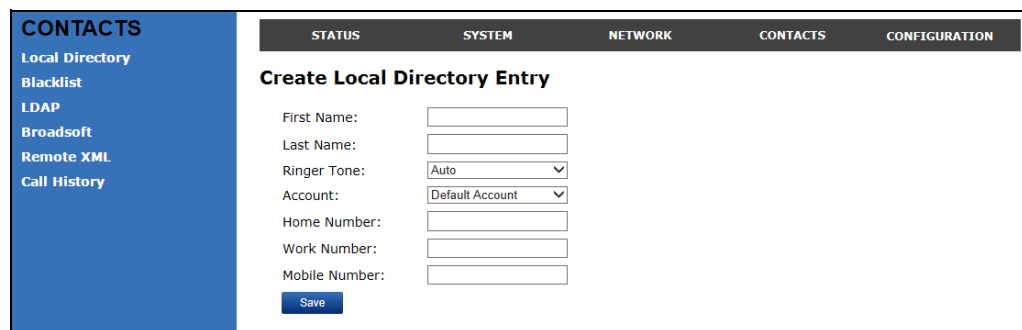
Table 8 describes the buttons available on the Local Directory page.

Table 8. Local 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 Select All 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 Local Directory Entry** page appears.



CONTACTS

- Local Directory
- Blacklist
- LDAP
- Broadsoft
- Remote XML
- Call History

STATUS **SYSTEM** **NETWORK** **CONTACTS** **CONFIGURATION**

Create Local Directory Entry

First Name:

Last Name:

Ringer Tone:

Account:

Home Number:

Work Number:

Mobile Number:


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

Create Local Directory Entry

Setting	Description	Range	Default
First Name	Enter the appropriate names in these fields. The maximum length of the first name and last name fields is 15 characters.	n/a	Blank
Last Name			
Ringer Tone	Sets a unique ringer tone for calls from this directory entry.	Auto, Tone 1–10	Tone 1
Account	Sets the account used when you dial this directory entry.	Default Account, Account 1–4	Default Account
Work Number	Enter the appropriate names and numbers in these fields.	n/a	Blank
Mobile Number			
Other Number			

Directory Import/Export

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

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



NOTE

Using the configuration file, you can set whether an imported directory file adds to existing entries or replaces existing entries. See [“file Module: Imported File Parameters” on page 192](#).

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

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

Blacklist

On the Blacklist page, you can manage local blacklist entries. The VSP726A 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 [Next](#), [Last](#), [First](#), or a page number to view the desired page of entries.






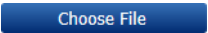

You can also use the VSP726A menu to manage blacklist entries. For more information, see the VSP726A User Guide.

Table 9 describes the buttons available on the Blacklist page.

Table 9. Blacklist commands

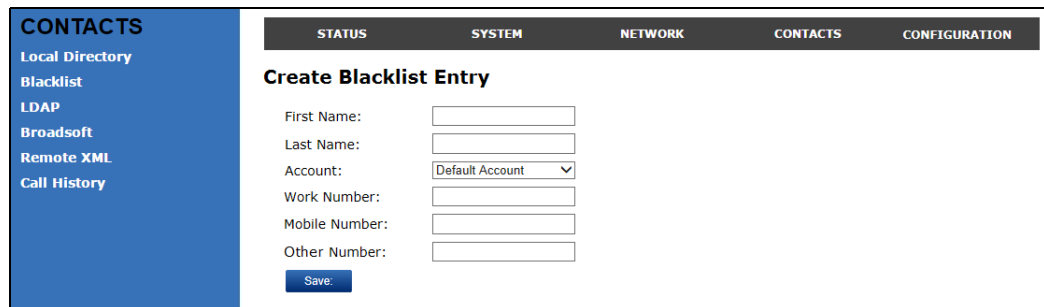
Click	To...
Sort By Last Name	Sort the list by last name.
Edit	Edit information for an entry
Next	View the next page of entries.
Last	View the last page of entries.
First	View the first page of entries.

Table 9. Blacklist commands

Click	To...
	Delete selected entries. Click Select All to select every entry on the page you are viewing.
	Add a new entry.
	Delete all entries.
	Import a blacklist file.
	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 1–4	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 VSP726A. After exporting the file, open it in an .xml editor and add or modify entries.

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



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 192](#).

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

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

LDAP

The phone supports remote Lightweight Directory Access Protocol (LDAP) directories. An LDAP directory is hosted on a remote server and may be the central directory for a large organisation 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 168](#).

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

CONTACTS	STATUS	SYSTEM	NETWORK	CONTACTS	CONFIGURATION
Local Directory Blacklist LDAP Broadsoft Remote XML Call History	<h3 style="margin: 0;">LDAP</h3> <p><input type="checkbox"/> Enable LDAP</p> <p>Directory name: <input type="text"/></p> <p>Server address: <input type="text"/></p> <p>Port: <input type="text" value="389"/></p> <p>Version: <input type="text" value="2"/></p> <p>Authentication scheme: <input type="text" value="Simple"/></p> <p>Authentication name: <input type="text"/></p> <p>Authentication password: <input type="password"/></p> <p>Base: <input type="text"/></p> <p>Maximum number of entries: <input type="text" value="200"/></p> <p>Maximum search delay: <input type="text" value="0"/></p> <p>First name filter: <input type="text" value="Firstname"/></p> <p>Last name filter: <input type="text" value="Lastname"/></p> <p>Phone number filter: <input type="text"/></p> <p>First name attribute: <input type="text"/></p> <p>Last name attribute: <input type="text"/></p> <p>Work phone number attribute: <input type="text"/></p> <p>Mobile phone number attribute: <input type="text"/></p> <p>Other phone number attribute: <input type="text"/></p> <p>Lookup for incoming calls: <input type="text" value="Disable"/></p> <p>Lookup in dialing mode: <input type="text" value="Disable"/></p> <p style="text-align: center;">Save</p>				

LDAP Settings

Click the link for each setting to see the matching configuration file parameter in [“remoteDir Module: Remote Directory Settings” on page 168](#). 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 dialled 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 or more attribute definitions or LDAP field names, separated by commas (no spaces). Your directory may include attributes like "cn" (common name) or "ou" (organisational 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 dialling.

Broadsoft

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

Broadsoft Phonebook Settings

Setting	Description
Enable Broadsoft Phonebook	Enables or disables the phone's access to the Broadsoft phonebook.
Display name	Enter the display name for the Broadsoft Phonebook. This name appears on the Directory list on the VSP726A menu.
Server base address	Enter the Broadsoft Phonebook server domain or IP address.
Port	Enter the Broadsoft Phonebook server port.
Authentication name	Enter the user name or authentication name for Broadsoft Phonebook access.
Authentication password	Enter the authentication password for Broadsoft Phonebook access.
Directory type	Select the directory type: Group, Group Common, Enterprise, Enterprise Common, Personal

Remote XML

The VSP726A 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 VSP726A will sync with the directory server. The phone 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																						
Broadsoft																						
Remote XML																						
Call History																						

Setting	Description
Name	<p>Sets the name of the directory as it will appear on the VSP726A Directory list.</p> <p>The following order applies to the Directory list when multiple server-based directories are enabled:</p> <ol style="list-style-type: none">1. Local2. Blacklist3. LDAP4. Broadsoft5. Remote XML directory 16. Remote XML directory 27. Remote XML directory 3 <p>Any Remote XML directories will move up the list if LDAP and/or Broadsoft directories are not enabled.</p>
Remote XML URI	<p>Enter the location of the XML directory file, from which the phone will sync and retrieve directory entries.</p>
Enable Incoming/ Outgoing Call Lookup	<p>Enables/disables the call lookup feature for incoming and outgoing calls.</p>

Call History

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

STATUS
SYSTEM
NETWORK
CONTACTS
CONFIGURATION

CONTACTS

Local Directory

Blacklist

LDAP

Broadsoft

Call History

Call History

Missed calls

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

Received calls

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

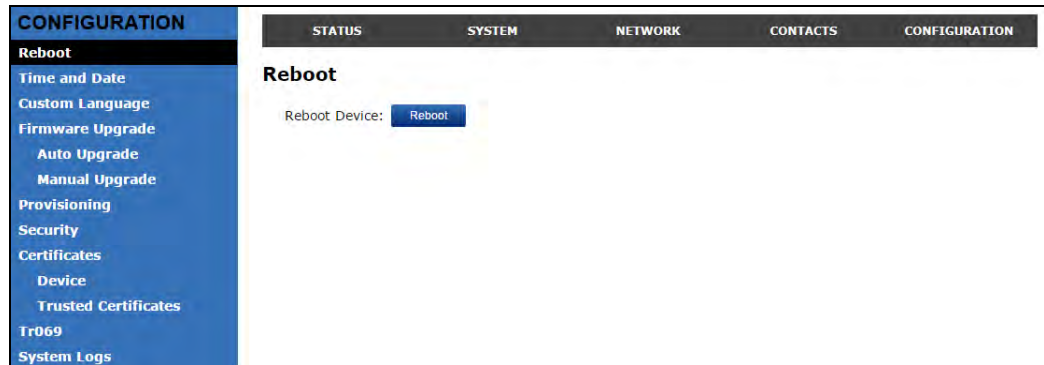
Dialed calls

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

Configuration Pages

Reboot

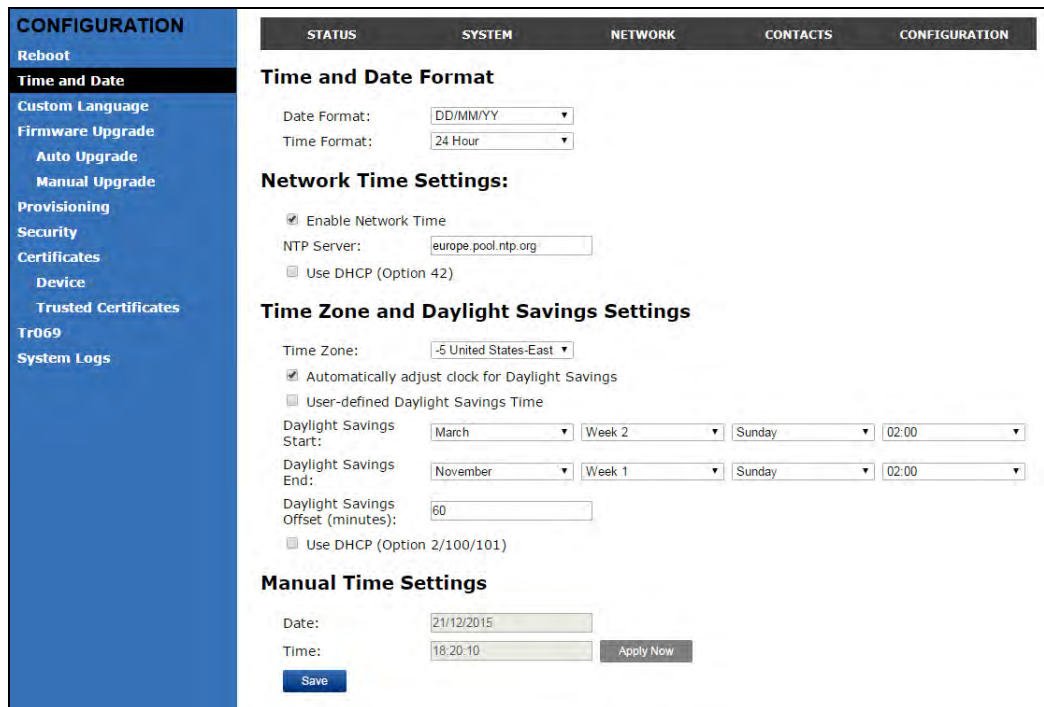
To manually reboot the VSP726A and apply settings that you have updated, click [Reboot](#).



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 163](#).



Time and Date Format

Click the link for each setting to see the matching configuration file parameter in *“time_date Module: Time and Date Settings” on page 163*. Default values and ranges are listed there.

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

Network Time Settings

Setting	Description
Enable Network Time	Enables or disables getting time and date information for your phone from the Internet.
NTP Server	If Enable Network Time is selected, enter the URL of your preferred time server.
Use DHCP (Option 42)	If Enable Network Time is selected, select to use DHCP to locate the time server. Option 42 specifies the NTP server available to the phone. When enabled, the phone obtains the time in the following priority: <ol style="list-style-type: none"> 1. Option 42 2. NTP Server 3. Manual time.

Time Zone and Daylight Savings Settings


Setting	Description
Time Zone	Select your time zone from the list.
Automatically adjust clock for Daylight Savings	Select to adjust the clock for daylight savings time according to the NTP server and time zone setting. To disable daylight savings adjustment, disable both this setting and User-defined Daylight Savings Time.
User-defined 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.

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

Manual Time Settings

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

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

Click  to start the VSP726A using the manual time settings.

Custom Language

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

You can import one custom language for use on the device user interface and the WebUI. The custom language adds to the existing languages available with the firmware. Separate translation files are required for the device user interface and the WebUI.

Importing a custom language can only be done using the configuration file. See [“file Module: Imported File Parameters” on page 192](#). For details on creating and formatting a translation file, see the Custom Language document at businessphones.vtech.com.

CONFIGURATION	STATUS	SYSTEM	NETWORK	CONTACTS	CONFIGURATION
Reboot	<h3>Export Translation</h3> <p>Export WebUI Translation to File: <input type="text" value="English"/> <input type="button" value="Export"/></p> <p>Export Phone Translation to File: <input type="text" value="English"/> <input type="button" value="Export"/></p>				
Time and Date					
Custom Language					
Firmware Upgrade					
Auto Upgrade					
Manual Upgrade					
Provisioning					
Security					
Certificates					
Device					
Trusted Certificates					
Tr069					
System Logs					

The available languages for export are identical to the WebUI and Phone Language lists described in [“User Preferences” on page 63](#).

The filenames of the exported language files will be:

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

Firmware Upgrade

You can update the VSP726A 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 authorised 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 VSP726A firmware.

The firmware upgrade settings are also available as parameters in the configuration file. See [“provisioning Module: Provisioning Settings” on page 156](#).

Firmware Server Settings

Click the link for each setting to see the matching configuration file parameter in [“provisioning Module: Provisioning Settings” on page 156](#). Default values and ranges are listed there.

Setting	Description
Firmware URL	The URL where the firmware update file resides. This should be a full path, including the filename of the firmware file.
Handset Firmware URL	The URL where the Cordless Handset Accessory 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:

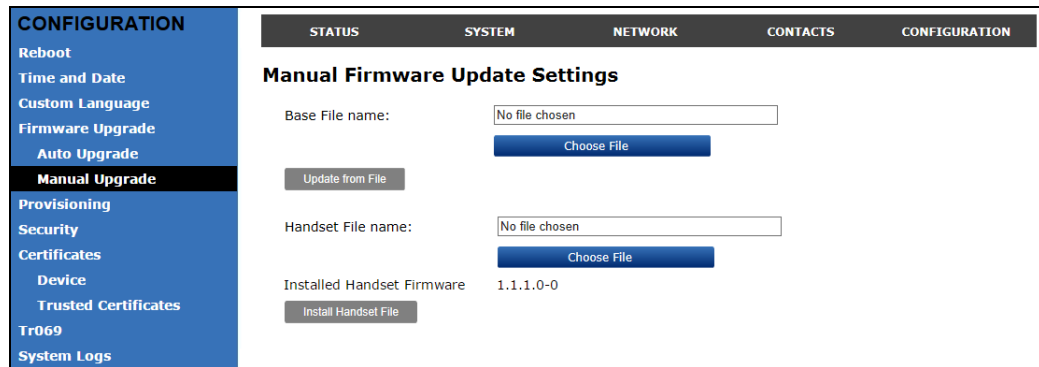
- Click [Update Deskset Firmware Now](#) or [Install Handset Firmware Now](#).



You can also configure the VSP726A to check for firmware updates at regular intervals. See [“Provisioning” on page 107](#).

Manual Firmware Update and Upload

On the Manual Firmware Update Settings page, you can upgrade the VSP726A 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](#).

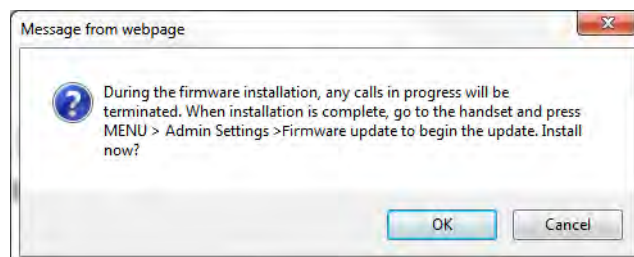
After clicking [Update from File](#) the VSP726A will update its firmware and restart. If you are updating handset firmware, you must perform one more step after clicking [Install Handset File](#).

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 deskset. Second, you must install the handset firmware on the handset. The handset downloads the firmware over the air from the deskset.

To install the handset firmware on the deskset:

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 recognise 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.

Provisioning

Provisioning refers to the process of acquiring and applying new settings for the VSP726A using configuration files retrieved from a remote computer. After a VSP726A is deployed, subsequent provisioning can update the VSP726A with new settings; for example, if your service provider releases new features. See also [“Provisioning Using Configuration Files” on page 125](#).

With automatic provisioning, you enable the VSP726A 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 VSP726A settings (configuration and/or firmware) yourself via **Provisioning > Import Configuration** and/or **Firmware Upgrade > Manual Upgrade**. Manual provisioning can only be performed on one VSP726A at a time.

On the Provisioning page, you can enter settings that will enable the VSP726A to receive automatic configuration and firmware updates. The Provisioning page also allows you to manually update VSP726A configuration from a locally stored configuration file using an Import function. You can also export the VSP726A configuration—either to back it up or apply the configuration to another VSP726A in the future—to a file on your computer.

The provisioning process functions according to the Resynchronization settings and Provisioning Server Settings. The VSP726A 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 VSP726A 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 156](#)).



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 VSP726A 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 156](#).

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> <p>"<schema>://<user>:<password>@<host>:<port>/<url-path>"</p> <p>"<user>:<password>@" may be empty.</p> <p>"<port>" can be omitted if you do not need to specify the port number.</p> <p>The default URL is the VTech redirect server:</p> <p>https://et.vtechphones.com/rg2/</p>

Setting	Description
Server authentication name	User name for access to the provisioning server
Server authentication password	Password for access to the provisioning server

Plug-and-Play Settings

Setting	Description
Enable PnP Subscribe	Select to enable the VSP726A to search for the provisioning URL via a SUBSCRIBE message to a multicast address (224.0.1.75). The VSP726A expects the server to reply with a NOTIFY that includes the provisioning URL. The process times out after five attempts.

DHCP Settings

Setting	Description
Use DHCP Options	Enables the VSP726A to use DHCP options to locate and retrieve the configuration file. When selected, the VSP726A automatically attempts to get a provisioning server address, and then the configuration file. If DHCP options do not locate a configuration file, then the server provisioning string is checked. Note: Ensure that DHCP is also enabled on the “Basic Network Settings” page.
DHCP Option Priority 1	If DHCP is enabled, sets the DHCP Option priority. Select the highest priority option.
DHCP Option Priority 2	If DHCP is enabled, sets the DHCP Option priority. Select the second highest priority option.
DHCP Option Priority 3	If DHCP is enabled, sets the DHCP Option priority. Select the third highest priority option.
Vendor Class ID (DHCP 60)	DHCP Option 60 is available to send vendor-specific information to the DHCP Server.
User Class Info (DHCP 77)	DHCP Option 77 is available to send vendor-specific information to the DHCP Server.

Resynchronization

Mode:

Bootup Check:

Schedule Check:

Disable

Interval(minutes)

Days of the Week

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

Start Hour:

End Hour:

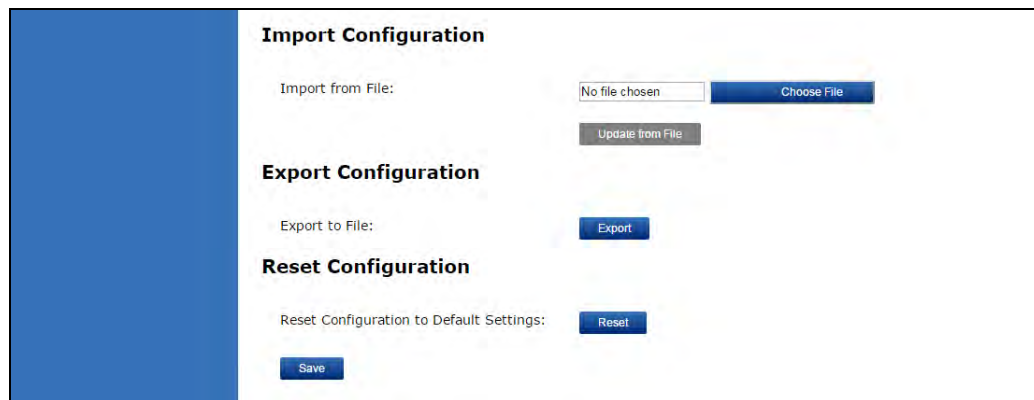
Use encryption for configuration file

Passphrase:

Resynchronization

Setting	Description
Mode	Sets which files for which the VSP726A checks. It can check for configuration files, firmware update files (from the URL entered on the Firmware Server Settings page), or both. Note: When checking for both configuration and firmware files, the firmware URL can be within the config file. This firmware URL takes precedence over the URL on the Firmware Server Settings page. It will also update the URL on the Firmware Server Settings page. This allows you to change the firmware URL automatically.
Bootup Check	Sets the VSP726A 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 VSP726A checks for updates.
Start Hour	Select the hour of the day on which the VSP726A checks for updates.
End Hour	Select the hour of the day on which the VSP726A stops checking for updates.

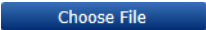
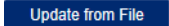
Setting	Description
Use encryption	Enables an AES-encrypted configuration file to be decrypted before being applied to the VSP726A. Select if the configuration file has been secured using AES encryption. See “Securing configuration files with AES encryption” on page 131 .
Passphrase	If the configuration file has been secured using AES encryption, enter the 16-bit key. See “Securing configuration files with AES encryption” on page 131 .



Import Configuration

You can configure the VSP726A 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 125](#).

To import a configuration file:

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

The VSP726A will update its configuration.

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

- The VSP726A 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 VSP726A 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
- Broadsoft directory server password.

Please ensure that you save the exported configuration file in a secure location. You can also disable passwords from being exported as plain text. See [“provisioning.pwd_export_enable” on page 160](#)

To export the configuration file:

- Click  .

The format of the exported file is **<model name>_<mac address>.cfg**. For example, **VSP726A_0011A0OCF489.cfg**.

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

```
#Model Number = xxxxxxxx
```


```
#SW Version = xxxxxxxx
```

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

Reset Configuration

You can reset the phone to its default settings.

To reset the VSP726A 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 VSP726A 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 173](#).

CONFIGURATION	STATUS	SYSTEM	NETWORK	CONTACTS	CONFIGURATION
Reboot Time and Date Custom Language Firmware Upgrade Auto Upgrade Manual Upgrade Provisioning Security Certificates Device Trusted Certificates Tr069 System Logs	<h3>Passwords</h3> <p>Administrator Password</p> <p>Enter Old Password: <input type="text"/></p> <p>Enter New Password: <input type="text"/></p> <p>Re-enter New Password: <input type="text"/></p> <p>User Password</p> <p>Enter New Password: <input type="text"/></p> <p>Phone Lock</p> <p>Lock Type: <input type="text" value="Unrestricted"/></p> <p>Phone Unlock PIN: <input type="text"/></p> <p>Auto Lock Timeout(secs): <input type="text" value="0"/></p> <p>Restricted Account: <input type="text" value="Default"/></p>				

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 207](#).


To change the admin password:

1. Enter the old password (for a new VSP726A, 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 207](#).

To change the User password:

1. Enter the old password (for a new VSP726A, 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  .

Phone Lock

For more information about the phone lock feature, see [“Using the Security menu” on page 37](#).

Setting	Description
Lock Type	Unrestricted, Restricted Config, Restricted Call, Emergency Call Only.
Phone Unlock PIN	Enter the PIN that the user enters to unlock the phone.
Auto Lock Timeout (secs)	Enter a timeout period in seconds. When the phone becomes idle after being used in unlocked mode, the phone automatically locks after the timeout.
Restricted Account	Select the account to be used when Phone Lock is active.

PIN Masking

The PIN masking feature allows users to hide PIN numbers during call operation. The different types of PIN masking are:

- Hide DTMF digits—when Hide DTMF is enabled, PIN numbers entered during an Active Call are automatically masked.
- Password Dial—when Password Dial is enabled, PIN numbers entered as part of the dial string are hidden. For example, when entering numbers in Pre-Dial or Dial mode, PIN numbers are automatically masked.

PIN numbers in a dial string are masked in Pre-Dial and Dial modes (including variants of these modes, such as Transfer Setup, Conference Setup, and Incoming Call Forward Setup).



Masked PIN numbers are not saved in Redial entries. The masked numbers are stripped out of the dial string before being saved in the Call History.

Pin Masking

Enable Hidden DTMF digits

Enable Delay for Hidden DTMF digits

Enable Password Dial

Enable Delay for Password Dial

Password Dial Prefix:

Password Dial Length:

Setting	Description
Enable Hidden DTMF digits	Enable to mask all DTMF digits entered during an Active Call. Note that unlike Password Dial, there is no prefix parameter and no length parameter, so any DTMF string of any length is masked.
Enable Delay for Hidden DTMF digits	Enable to add a one-second delay before DTMF digits are masked. By default, the digits are masked immediately.
Enable Password Dial	Enable to hide PIN numbers entered as part of the dial string.
Enable Delay for Password Dial	Enable to add a one-second delay before PIN numbers are masked. By default, the PIN number is masked immediately.
Password Dial Prefix	Enter the prefix that serves as an indicator that the next x digits are masked (x being equal to the Password Dial Length). Only the first matched Prefix initiates PIN masking. If additional instances of the Password Dial Prefix appear elsewhere within the dial string, they are ignored.

Setting	Description
Password Dial Length	Enter the PIN number length. All digits within this length are masked. Any digits beyond this length are not masked. For example, if the Password Prefix is 99 and the Password Dial Length is 3 , then 9912345 will be rendered as 99***45 .

Web Server

Web Server

HTTP Server Port:

Enable Secure Browsing

HTTPS Server Port:

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

To configure Web Server Settings:

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



NOTE

Changing the Web Server settings will reboot the VSP726A.

Trusted Servers

The Trusted Servers setting provides a means of blocking unauthorised 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 dialling or other types of server traffic need to be secured), use the Trusted IP settings on the Security page.

	Trusted Servers <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:

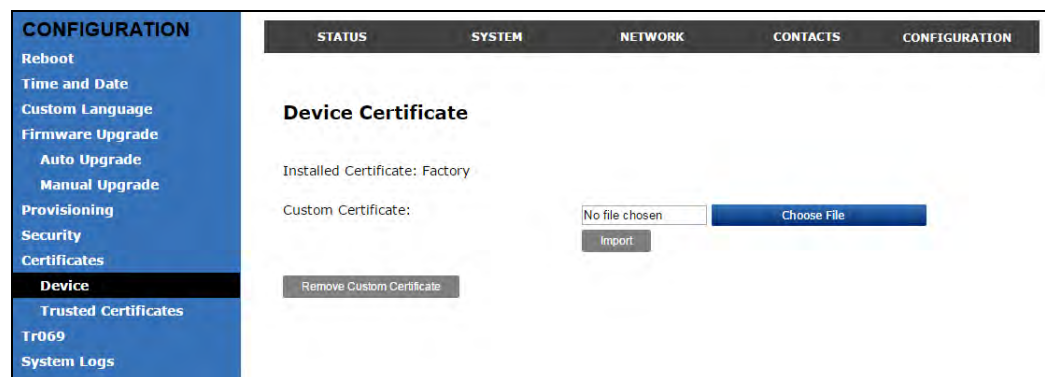
Setting	Description
Accept only allowed IP for incoming requests	Enable or disable using the "Allowed IP" list to filter all IP traffic.
Allowed IP 1–10	Enter IP addresses or address ranges to be used as sources of authorised IP traffic.

Certificates

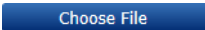

You can add two types of certificates using the WebUI or the provisioning file (see [“file Module: Imported File Parameters” on page 192](#)). The two types of certificates are:

- **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 signalling, Provisioning, Firmware, LDAP directory service, and Broadsoft directory service. Up to 20 trusted certificates can be installed.

Device Certificate



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"/>

Only accept trusted certificates

Import Trusted Certificate:

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 . 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).

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, http://my.acs:9675/path/to/somewhere/).
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 167](#).

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' button (set to Save Log to file).

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">■ 5—ALL■ 4—DEBUG■ 3—INFO■ 2—WARNING■ 1—ERROR■ 0—CRITICAL

The logging levels are:

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


Network Trace

To perform a network trace:

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

Download Log

To download the system log:

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

CHAPTER 4

PROVISIONING USING CONFIGURATION FILES

Provisioning using configuration files is the quickest way to configure multiple VSP726A desksets. You can place configuration files on a provisioning server, where the VSP726A desksets retrieve the files and update their configuration automatically.

Configuration files have the extension **.cfg** and contain settings that will apply to VSP726A desksets. 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 VSP726A 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 VSP726A configuration file modules and their associated parameters, see ["Configuration File Parameter Guide" on page 133](#).

Using the WebUI, you can also import a configuration file and apply the configuration file settings to the VSP726A. For more information, see ["Import Configuration" on page 111](#).

This chapter covers:

- ["The Provisioning Process" on page 126](#)
- ["Configuration File Types" on page 128](#)
- ["Data Files" on page 129](#)
- ["Configuration File Tips and Security" on page 130](#).

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 107](#) and [“Resynchronization: configuration file checking” on page 127](#). The VSP726A maintains a list of the last loaded provisioning files. The VSP726A compares its current configuration against the files it finds on the provisioning server. **Checking for update...** appears on the VSP726A screen.

If provisioning has been triggered by the resync timer expiring or by remote check-sync, the VSP726A checks for updated files after one minute of inactivity.

2. Download the configuration files.

If any file on the provisioning server has changed, the VSP726A treats it as a new file and downloads it. **Configuring Deskset...** appears on the VSP726A screen.

If the provisioning URL specifies a path only with no filename (if the URL ends with “/”), then by default the VSP726A 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: VSP726A, 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 VSP726A retrieves only the configuration file specified.

3. The VSP726A restarts after one minute of inactivity. **Please wait while the phone reboots** appears on the VSP726A screen. For more information, see [“VSP726A restart” on page 127](#).

During provisioning, the VSP726A reads the configuration file and validates each module and setting. The VSP726A 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 recognised module with unrecognised 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 133](#) 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 VSP726A 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 VSP726A 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 VSP726A 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).

VSP726A restart

If the VSP726A 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 VSP726A 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 VSP726A will download the file(s) when there is no call activity.

When you update the VSP726A by importing a configuration file using the WebUI, the device restarts immediately after applying the new settings, regardless of whether the VSP726A is idle.

Configuration File Types

The VSP726A 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 VSP726A in the system.

The MAC-specific configuration file is a file that only a single VSP726A can retrieve. The MAC-specific configuration file name contains a VSP726A 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, **VSP726A**. For more information about the MAC-specific configuration file, see [“Guidelines for the MAC-Specific configuration file” on page 130](#).

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 VSP726A 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 VSP726A desksets in the general file, and then overwrite that setting for just a few VSP726A desksets using the MAC-specific file.

Data Files

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

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

Links to data files are in the configuration file's "file" module. This is where you enter any URLs to the data files that the VSP726A deskset may require.

None of the data files are exported when you export a configuration file from the VSP726A. 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 VSP726A import the new file. For a complete list of data file parameters, see ["file Module: Imported File Parameters" on page 192](#).

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) VSP726A desksets. 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 VSP726A.

Guidelines for the MAC-Specific configuration file

The VSP726A downloads the MAC-specific configuration file after the general configuration file. You must create a MAC-specific configuration file for each VSP726A in your system. The file name must contain the VSP726A MAC address, which is printed on a label on the back of the device, or available on the **MENU > Status > Product Info** screen. For example, a VTech VSP726A deskset with the MAC address of 00:11:A0:10:6F:2D would download the **VSP726A_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 VSP726A deskset. 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 unauthorised users modifying the configuration files. The VSP726A firmware decrypts files using the AES 256 algorithm. After encrypting a file and placing it on your provisioning server, you can enable the VSP726A to decrypt the file after fetching it from the server.

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

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

**NOTE**

The encryption of configuration files is supported only for the auto provisioning process. Encrypt files only if you intend to store them on a provisioning server. Do not encrypt files that you intend to manually import to the VSP726A. 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.

```
SSL C:\Users\ronp\Documents\EncryptConfig\openssl.exe
OpenSSL> enc -aes-256-cbc -pass pass:passphrase123456 -in configtemplate.cfg -out
t USP725.cfg -nosalt -p
```

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 VSP726A configuration file. Most settings in the configuration file have an equivalent in the WebUI (see the settings tables in [“Using the WebUI” on page 41](#)). 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 VSP726A WebUI. You may wish to reorganise 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 134](#)
- [“hs_settings Module: Handset Settings” on page 150](#)
- [“network Module: Network Settings” on page 151](#)
- [“provisioning Module: Provisioning Settings” on page 156](#)
- [“security Module: Security Settings” on page 161](#)
- [“time_date Module: Time and Date Settings” on page 163](#)
- [“log Module: System Log Settings” on page 167](#)
- [“remoteDir Module: Remote Directory Settings” on page 168](#)
- [“web Module: Web Settings” on page 173](#)
- [“trusted_ip Module: Trusted Server and Trusted IP Settings” on page 174](#)
- [“user_pref Module: User Preference Settings” on page 175](#)
- [“call_settings Module: Call Settings” on page 179](#)

- [“pfk Module: Programmable Feature Key Settings” on page 182](#)
- [“speed_dial Module: Speed Dial Settings” on page 187](#)
- [“audio Module: Audio Settings” on page 188](#)
- [“ringersetting Module: Distinctive Ringer Settings” on page 190](#)
- [“call_record Module: Call Recording Settings” on page 191](#)
- [“file Module: Imported File Parameters” on page 192](#)
- [“xml_app Module: XML Settings” on page 196](#)
- [“system_event Module: Action URI Settings” on page 197](#)
- [“tr069 Module: TR-069 Settings” on page 199](#)
- [“tone Module: Tone Definition Settings” on page 201](#)
- [“profile Module: Password Settings” on page 207](#)
- [“page_zone Module: Paging Zone Settings” on page 208](#)
- [“phonelock Module: Phone Lock Settings” on page 210](#)
- [“softkey Module: Custom Soft Key Settings” on page 211.](#)

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 VSP726A. 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 4 for the VSP726A.

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 4 for the VSP726A.

All these settings are exported when you manually export the configuration from the VSP726A.

General configuration file settings

Setting:	<code>sip_account.x.dial_plan</code>		
Description:	Sets the dial plan for account x. See “Dial Plan” on page 49 .		
Values:	Text string	Default:	<code>x+(#:) x+P</code>

Setting:	<code>sip_account.x.emergency_dial_plan</code>		
Description:	Sets the emergency dial plan.		
Values:	Text string	Default:	blank

Setting:	<code>sip_account.x.inter_digit_timeout</code>		
Description:	Sets the inter-digit timeout (in seconds) for account x. The inter-digit timeout sets how long the VSP726A waits after the last digit is entered before dialling the number.		
Values:	1–10	Default:	3

Setting:	<code>sip_account.x.maximum_call_number</code>		
Description:	Sets the maximum number of concurrent active calls allowed for that account.		
Values:	1–8	Default:	8

Setting:	<code>sip_account.x.auto_answer_enable</code>		
Description:	Enables or disables automatic answering of pages for account x.		
Values:	0 (disabled), 1 (enabled)	Default:	0

Setting:	<code>sip_account.x.auto_answer_during_active_call</code>		
Description:	Enables or disables automatic answering of pages for account x when account x has an active call.		
Values:	0 (disabled), 1 (enabled)	Default:	0

Setting:	<code>sip_account.x.barge_in_enable</code>
Description:	If the shared line type is enabled for account x, enables or disables "barge in" capability for VSP726A desksets with shared accounts.
Values:	0 (disabled), 1 (enabled) Default: 0

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

Setting:	<code>sip_account.x.unregister_after_reboot_enable</code>
Description:	Enables or disables the VSP726A to unregister account x after rebooting.
Values:	0 (disabled), 1 (enabled) Default: 0

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Setting:	<code>sip_account.x.voice_encryption_enable</code>
Description:	Enables or disables SRTP voice encryption for account x.
Values:	0 (disabled), 1 (enabled)
Default:	0

Setting: `sip_account.x.g729_annexb_enable`

Description: Enables G.729 Annex B, with voice activity detection (VAD) and bandwidth-conserving silence suppression. This setting applies only when G.729 is selected in a `sip_account.x.codec_priority` parameter.

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

Setting: `sip_account.x.dscp`

Description: Sets the Voice Quality of Service Layer 3 - DSCP for account x.

Values: 0–63 **Default:** 46

Setting: `sip_account.x.sip_dscp`

Description: Sets the Signalling Quality of Service Layer 3 - DSCP for account x.

Values: 0–63 **Default:** 26

Setting: `sip_account.x.local_sip_port`

Description: Sets the Local SIP port for account x.

Values: 1–65535 **Default:** Account 1: 5060
Account 2: 5070
Account 3: 5080
Account 4: 5090

Setting: `sip_account.x.transport_mode`

Description: Sets the Signalling Transport Mode for account x.

Values: udp, tcp, tls **Default:** udp

Setting: sip_account.x.blf_variant

Description: Sets the BLF operation for account x. This parameter is not available on the WebUI.

"default" is for Broadsoft or Asterisk depending on the presence of sip_account.x.blf_list_uri.
"avaya" is designed as an Avaya variant.
"extended_blf" is proprietary.
"metaswitch" is designated for Metaswitch.
"freeswitch" is designated for Freeswitch.

Values: default, avaya, extended_blf, metaswitch, freeswitch **Default:** default

Setting: sip_account.x.blf_subscription_expires

Description: Sets the BLF subscription expiry time (in seconds) for account x.

Values: 15–65535 **Default:** 3600

Setting: sip_account.x.blf_remote_pickup_code

Description: Sets the Busy Lamp Field (BLF) remote pickup code for account x.

Values: Text string **Default:** Blank

Setting: sip_account.x.mwi_enable

Description: Enables or disables message waiting indicator subscription for account x. Enable if SUBSCRIBE and NOTIFY methods are used for MWI.

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

Setting: sip_account.x.mwi_subscription_expires

Description: Sets the MWI subscription expiry time (in seconds) for account x.

Values: 15–65535 **Default:** 3600

Setting:	<code>sip_account.x.mwi_ignore_unsolicited</code>		
Description:	Enables or disables ignoring of unsolicited MWI notifications—notifications in addition to, or instead of, SUBSCRIBE and NOTIFY methods—for account x. Disable if MWI service is configured on the voicemail server and does not involve a subscription to a voicemail server.		
Values:	0 (disabled), 1 (enabled)	Default:	0

Setting:	<code>sip_account.x.stutter_dial_tone_enable</code>		
Description:	Enables or disables MWI stutter dial tone for account x.		
Values:	0 (disabled), 1 (enabled)	Default:	1

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Setting:	<code>sip_account.x.park_variant</code>		
Description:	<p>Selects how the VSP726A handles call parking, depending on the service provider. When the default "broadsoft" variant is selected, calls are parked via a PFK and a feature access code. The target number for the "park" request is formed by concatenating "Call Park FAC" of the call-to-be-parked account and the value entered for the Park PFK. When the "asterisk" variant is selected, calls are parked through a blind transfer to a parking lot extension. The target parking lot extension will be taken from the following order of priority (if both values exist):</p> <ul style="list-style-type: none"> ■ Park PFK Value ■ Call Park FAC Value 		
Values:	broadsoft, asterisk	Default:	broadsoft

Setting:	<code>sip_account.x.server_side_ctrl_variant</code>		
Description:	Set the server type that will control feature sync and FAC operation.		
Values:	default, converse	Default:	default

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

Setting:	<code>sip_account.x.cid_src_priority.1</code>		
Description:	Set the desired caller ID source to be displayed on the incoming call screen.		
Values:	pai, from	Default:	pai

Setting:	<code>sip_account.x.cid_src_priority.2</code>		
Description:	Select the lower-priority caller ID source.		
Values:	pai, from	Default:	from

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

Setting:	<code>sip_account.x.dtmf_payload_type</code>		
Description:	Set the configurable RTP payload type for in-call DTMF.		
Values:	96–127	Default:	101

MAC-specific configuration file settings

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

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

Setting:	<code>sip_account.x.display_name</code>		
Description:	Sets the text portion of the caller ID that is displayed for outgoing calls using account x.		
Values:	Text string	Default:	Blank
Setting:	<code>sip_account.x.user_id</code>		
Description:	Sets the account ID for account x. Depending on your service provider's specifications, this could be an extension number. Note: Do not enter the host name (e.g. "@sip-service.com"). The configuration file automatically adds the default host name.		
Values:	Text string	Default:	Blank
Setting:	<code>sip_account.x.authentication_name</code>		
Description:	Sets the authentication name for account x. Depending on your service provider's specifications, this could be identical to the user ID.		
Values:	Text string	Default:	Blank
Setting:	<code>sip_account.x.authentication_access_password</code>		
Description:	Sets the authentication password for account x.		
Values:	Text string	Default:	Blank
Setting:	<code>sip_account.x.feature_sync_enable</code>		
Description:	Enables or disables feature synchronisation for account x. When enabled, features configured on the service provider's web portal will automatically be updated on the device's WebUI.		
Values:	0 (disabled), 1 (enabled)	Default:	0
Setting:	<code>sip_account.x.shared_line_enable</code>		
Description:	Sets the account type for account x. If the shared line type is enabled, multiple VSP726A desksets can be configured with shared line appearances.		
Values:	0 (disabled), 1 (enabled)	Default:	0

Setting:	<code>sip_account.x.access_code_page</code>		
Description:	Sets the paging feature access code for account x.		
Values:	Text string	Default:	Blank

Setting:	<code>sip_account.x.access_code_park_call</code>		
Description:	Sets the Call Park feature access code for account x.		
Values:	Text string	Default:	Blank

Setting:	<code>sip_account.x.access_code_retrieve_parked_call</code>		
Description:	Sets the retrieve parked call feature access code for account x.		
Values:	Text string	Default:	Blank

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

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

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

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

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

Setting: sip_account.x.access_code_cfna_on

Description: Sets the Call Forward No Answer ON feature access code for account x.

Values: Text string **Default:** Blank

Setting: sip_account.x.access_code_cfna_off

Description: Sets the Call Forward No Answer OFF feature access code for account x.

Values: Text string **Default:** Blank

Setting: sip_account.x.access_code_cfb_on

Description: Sets the Call Forward Busy ON feature access code for account x.

Values: Text string **Default:** Blank

Setting: sip_account.x.access_code_cfb_off

Description: Sets the Call Forward Busy OFF feature access code for account x.

Values: Text string **Default:** Blank

Setting: sip_account.x.access_code_anonymous_call_block_on

Description: Sets the Anonymous Call Block ON feature access code for account x.

Values: Text string **Default:** Blank

Setting: sip_account.x.access_code_anonymous_call_block_off

Description: Sets the Anonymous Call Block OFF feature access code for account x.

Values: Text string **Default:** Blank

Setting: sip_account.x.access_code_outgoing_call_anonymous_on

Description: Sets the Anonymous Outgoing Call ON feature access code for account x.

Values: Text string **Default:** Blank

Setting: sip_account.x.access_code_outgoing_call_anonymous_off

Description: Sets the Anonymous Outgoing Call OFF feature access code for account x.

Values: Text string **Default:** Blank

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

Setting:	<code>sip_account.x.access_code_call_waiting_off</code>
Description:	Sets the Call Waiting OFF feature access code for account x.
Values:	Text string
Default:	Blank

Setting:	<code>sip_account.x.access_code_group_call_pickup</code>
Description:	Sets the Group Call Pickup feature access code for account x.
Values:	Text string
Default:	Blank

Setting:	<code>sip_account.x.access_code_direct_call_pickup</code>
Description:	Sets the Direct Call Pickup feature access code for account x.
Values:	Text string
Default:	Blank

Setting:	<code>sip_account.x.access_sf_on</code>
Description:	Sets the secretarial filtering ON feature access code for account x.
Values:	Text string
Default:	Blank

Setting:	<code>sip_account.x.access_sf_off</code>
Description:	Sets the secretarial filtering OFF feature access code for account x.
Values:	Text string
Default:	Blank

Setting:	<code>sip_account.x.access_hg_on</code>
Description:	Sets the hunt group ON feature access code for account x.
Values:	Text string
Default:	Blank

Setting:	<code>sip_account.x.access_hg_off</code>
Description:	Sets the hunt group OFF feature access code for account x.
Values:	Text string
Default:	Blank

Setting:	<code>sip_account.x.blf_list_uri</code>		
Description:	Sets the Busy Lamp Field (BLF) list URI for account x. The device will retrieve the list from this location.		
Values:	SIP URI text string	Default:	Blank

Setting:	<code>sip_account.x.mwi_uri</code>		
Description:	Sets the MWI URI that will be used for MWI subscription. If this setting is left blank, the VSP726A uses the account x user ID for MWI subscription.		
Values:	SIP URI text string	Default:	Blank

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

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

hs_settings Module: Handset Settings

The Handset Settings allow you to configure settings for the cordless accessories that are registered to the deskset. For more information on registering cordless accessories, see the VSP726A User Guide.

General configuration file settings

Setting: `hs_settings.x.handset_eu_pin_code`

Description: Sets the new 4-digit PIN for handset registration/deregistration.

Values: 4-digit number **Default:** 0000

Setting: `hs_settings.x.headset_eu_pin_code`

Description: Sets the new 4-digit PIN for headset registration/deregistration.

Values: 4-digit number **Default:** 0000

MAC-specific configuration file settings

Setting: `hs_settings.x.handset_name`

Description: Sets the name for the handset. You can use up to 11 letters and/or numbers. Use alphanumeric characters only—no symbol characters are allowed.

Values: Text string **Default:** HANDSET

network Module: Network Settings

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

General configuration file settings

Setting: network.vlan.wan.enable

Description: Enables or disables the WAN VLAN.

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

Setting: network.vlan.wan.id

Description: Sets the WAN VLAN ID.

Values: 0–4095 **Default:** 0

Setting: network.vlan.wan.priority

Description: Sets the WAN port priority.

Values: 0–7 **Default:** 0

Setting: network.vlan.pc.enable

Description: Enables or disables the PC port VLAN.

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

Setting: network.vlan.pc.id

Description: Sets the PC port VLAN ID.

Values: 0–4095 **Default:** 0

Setting: network.vlan.pc.priority

Description: Sets the PC port priority.

Values: 0–7 **Default:** 0

Setting: network.lldp_med.enable

Description: Enables or disables LLDP-MED.

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

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

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

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

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

Setting:	<code>network.vendor_class_id</code>		
Description:	Sets the vendor ID for DHCP option 60.		
Values:	Text string	Default:	Vtech Vesa VSP726A

Setting:	<code>network.user_class</code>		
Description:	Sets the user class for DHCP option 77.		
Values:	Text string	Default:	Vtech Vesa VSP726A

Setting:	<code>network.ip.dns_cache_clear_timeout</code>		
Description:	Sets the interval (in minutes) between removing all caching and performing a new DNS lookup. Set to 0 to remove all caching and perform a DNS lookup for every outgoing request and response (TTL=0 emulation).		
Values:	0–1440	Default:	60

Setting: `network.pc_port.enable`

Description: Enable or disable the PC port to operate in hub/switch mode (depending on the Enable PC Port Mirroring setting).

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

Setting: `network.pc_port.mirroring.enable`

Description: When the PC port is enabled, enable PC Port Mirroring to set the port to operate in hub mode (network traffic on the WAN port is reflected in the PC port). When Port Mirroring is not enabled, the port operates in switch mode.

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

MAC-specific configuration file settings

Setting: `network.ip.mode`

Description: Sets the IPv4 network mode.

Values: disable, dhcp, static, pppoe **Default:** dhcp

Setting: `network.ip.static_ip_addr`

Description: Sets a static IP address for the network.

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

Setting: `network.ip.subnet_mask`

Description: Sets the subnet mask for the network.

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

Setting: `network.ip.gateway_addr`

Description: Sets the Gateway IP address.

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

Setting: `network.ip.dns1`

Description: Sets the primary DNS server IP address.

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

Setting:	<code>network.ip.dns2</code>		
Description:	Sets the secondary DNS server IP address.		
Values:	Text string (IPv4)	Default:	Blank

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

Setting:	<code>network.ip.pppoe.service_name</code>		
Description:	If IPv4 mode is PPPoE, enter the name of the applicable PPPoE provider, in case more than one is available.		
Values:	Text string	Default:	Blank

Setting:	<code>network.ip.pppoe.username</code>		
Description:	If IPv4 mode is PPPoE, enter your PPPoE account username.		
Values:	Text string	Default:	Blank

Setting:	<code>network.ip.pppoe.access_password</code>		
Description:	If IPv4 mode is PPPoE, enter your PPPoE account password.		
Values:	Text string	Default:	Blank

Setting:	<code>network.ipv6.mode</code>		
Description:	Set the IPv6 network mode, depending on how the device will be assigned an IP address.		
Values:	disable, auto, static	Default:	disable

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

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

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

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

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

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 VSP726A.

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

Setting:	<code>provisioning.click_to_dial</code>		
Description:	Enables or disables "click to dial" functionality for directory entries on the WebUI.		
Values:	0 (disabled), 1 (enabled)	Default:	0

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

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

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

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

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

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

Setting:	<code>provisioning.bootup_check_enable</code>
Description:	Enables or disables bootup check for configuration and firmware files.
Values:	0 (disabled), 1 (enabled) Default: 1

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

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

Setting:	<code>provisioning.weekdays</code>
Description:	Sets the day(s) when the device checks for new firmware and/or configuration files. Enter a comma-delimited list of weekdays from 0 (Sunday) to 6 (Saturday). For example, 5,6,0 means the provisioning check will be performed on Friday, Saturday and Sunday.
Values:	0–6 Default: Blank

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

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

Setting:	<code>provisioning.remote_check_sync_enable</code>		
Description:	Enables or disables remotely triggering the device to check for new firmware and/or configuration files. The file checking is triggered remotely via a SIP Notify message from the server containing the check-sync event.		
Values:	0 (disabled), 1 (enabled)	Default:	1

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

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

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

Setting:	<code>provisioning.pnp_enable</code>		
Description:	Enables or disables the VSP726A checking for the provisioning URL using the Plug-and-Play Subscribe and Notify protocol.		
Values:	0 (disabled), 1 (enabled)	Default:	1

Setting:	<code>provisioning.pnp_response_timeout</code>		
Description:	Sets how long the VSP726A repeats the SUBSCRIBE request if there is no reply from the PnP server.		
Values:	1–60	Default:	10

Setting:	<code>provisioning.pwd_export_enable</code>
Description:	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">■ <code>network.eapol.access_password</code>■ <code>network.ip.pppoe.access_password</code>■ <code>tr069.acs.access_password</code>■ <code>tr069.connection_request.access_password</code>■ <code>provisioning.fw_server_access_password</code>■ <code>provisioning.server_access_password</code>■ <code>profile.admin.access_password</code>■ <code>profile.user.access_password</code>■ <code>sip_account.x.authentication_access_password</code>■ <code>remoteDir.ldap_access_password</code>■ <code>remoteDir.broadsoft_access_password</code>
Values:	0 (disabled), 1 (enabled) Default: 0

security Module: Security Settings

The Security settings enable you to hide PIN numbers during call operation. There are two different types of PIN masking available:

1. Hide DTMF digits: When Hide DTMF is enabled, PIN numbers entered during an Active Call are automatically masked out.
2. Password Dial: When Password Dial is enabled, PIN numbers entered as part of the dial string are hidden. For example, when entering numbers in Pre-Dial or Dial mode, PIN numbers are automatically masked out.

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

Setting:	<code>security.hide_dtmf_enable</code>		
Description:	Enable or disable masking all DTMF digits entered during an Active Call.		
Values:	0 (disabled), 1 (enabled)	Default:	0

Setting:	<code>security.hide_dtmf_delay_enable</code>		
Description:	Enable to add a one-second delay before DTMF digits are masked. By default, the digits are masked immediately.		
Values:	0 (disabled), 1 (enabled)	Default:	0

Setting:	<code>security.pwd_dial_enable</code>		
Description:	Enable to hide PIN numbers entered as part of the dial string.		
Values:	0 (disabled), 1 (enabled)	Default:	0

Setting:	<code>security.pwd_dial_delay_enable</code>		
Description:	Enable to add a one-second delay before PIN numbers are masked. By default, the PIN number is masked immediately.		
Values:	0 (disabled), 1 (enabled)	Default:	0

Setting:	<code>security.pwd_dial_prefix</code>		
Description:	Enter the prefix that serves as an indicator that the next x digits are masked (x being equal to the Password Dial Length).		
Values:	Text string	Default:	Blank

Setting:	<code>security.pwd_dial_length</code>		
Description:	Enter the PIN number length. All digits within this length are masked. Any digits beyond this length are not masked.		
Values:	1–32	Default:	1

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 VSP726A.

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

Setting: time_date.date_format
Description: Sets the format for displaying the date.
Values: DD/MM/YY, MM/DD/YY, YY/MM/DD **Default:** DD/MM/YY

Setting: time_date.24hr_clock
Description: Enables or disables 24-hour clock.
Values: 0 (disabled), 1 (enabled) **Default:** 1

Setting: time_date.ntp_server
Description: Enables or disables NTP server to set time and date.
Values: 0 (disabled), 1 (enabled) **Default:** 1

Setting: time_date.ntp_server_addr
Description: Sets the URL for the NTP server.
Values: Text string **Default:** 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.

Values: Pacific/Pago_Pago, Pacific/Honolulu, America/Adak, America/Anchorage, America/Vancouver, America/Tijuana, America/Los_Angeles, America/Edmonton, America/Chihuahua, America/Denver, America/Phoenix, America/Winnipeg, Pacific/Easter, America/Mexico_City, America/Chicago, America/Nassau, America/Montreal, America/Grand_Turk, America/Havana, America/New_York, America/Caracas, America/Halifax, America/Santiago, America/Asuncion, Atlantic/Bermuda, Atlantic/Stanley, America/Port_of_Spain, America/St_Johns, America/Godthab, America/Argentina/Buenos_Aires, America/Fortaleza, America/Sao_Paulo, America/Noronha, Atlantic/Azores, GMT, America/Danmarkshavn, Atlantic/Faroe, Europe/Dublin, Europe/Lisbon, Atlantic/Canary, Europe/London, Africa/Casablanca, Europe/Tirane, Europe/Vienna, Europe/Brussels, Europe/Zagreb, Europe/Prague, Europe/Copenhagen, Europe/Paris, Europe/Berlin, Europe/Budapest, Europe/Rome, Europe/Luxembourg, Europe/Skopje, Europe/Amsterdam, Africa/Windhoek, Europe/Tallinn, Europe/Helsinki, Asia/Gaza, Europe/Athens, Asia/Jerusalem, Asia/Amman, Europe/Riga, Asia/Beirut, Europe/Chisinau, Europe/Kaliningrad, Europe/Bucharest, Asia/Damascus, Europe/Istanbul, Europe/Kiev, Africa/Djibouti, Asia/Baghdad, Europe/Moscow, Asia/Tehran, Asia/Yerevan, Asia/Baku, Asia/Tbilisi, Asia/Aqtau, Europe/Samara, Asia/Aqtobe, Asia/Bishkek, Asia/Karachi, Asia/Yekaterinburg, Asia/Kolkata, Asia/Almaty, Asia/Novosibirsk, Asia/Krasnoyarsk, Asia/Bangkok, Asia/Shanghai, Asia/Singapore, Australia/Perth, Asia/Seoul, Asia/Tokyo, Australia/Adelaide, Australia/Darwin, Australia/Sydney, Australia/Brisbane, Australia/Hobart, Asia/Vladivostok, Australia/Lord_Howe, Pacific/Noumea, Pacific/Auckland, Pacific/Chatham, Pacific/Tongatapu

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

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

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

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

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

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

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

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

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

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

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

Setting:	log.syslog_level		
Description:	Sets the log level. The higher the level, the larger the debug output. 5—all 4—debug 3—info 2—warning 1—error 0—critical		
Values:	0–5	Default:	2

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 VSP726A.

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

Setting:	<code>remoteDir.ldap_enable</code>		
Description:	Enables or disables the VSP726A deskset's access to the LDAP directory.		
Values:	0 (disabled), 1 (enabled)	Default:	0

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

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

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

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

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

Setting:	<code>remoteDir.ldap_user_name</code>
Description:	Sets the LDAP authentication user name.
Values:	Text string
Default:	Blank

Setting:	<code>remoteDir.ldap_access_password</code>
Description:	Sets the LDAP authentication password.
Values:	Text string
Default:	Blank

Setting:	<code>remoteDir.ldap_base</code>
Description:	Sets the LDAP search base. This sets where the search begins in the directory tree structure. Enter one or more attribute definitions, separated by commas (no spaces). Your directory may include attributes like "cn" (common name) or "ou" (organisational unit) or "dc" (domain component). For example, ou=accounting,dc=vtech,dc=com
Values:	Text string
Default:	Blank

Setting:	<code>remoteDir.ldap_max_hits</code>
Description:	Sets the maximum number of entries returned for an LDAP search. Limiting the number of hits can conserve network bandwidth.
Values:	0-32000
Default:	200

Setting:	<code>remoteDir.ldap_search_delay</code>
Description:	Sets the LDAP maximum search delay in seconds.
Values:	0-500
Default:	0

Setting:	<code>remoteDir.ldap_firstname_filter</code>
Description:	Sets the LDAP first name attribute filter.
Values:	Text string
Default:	Firstname

Setting:	<code>remoteDir.ldap_lastname_filter</code>
Description:	Sets the LDAP last name attribute filter.
Values:	Text string
Default:	Lastname

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

Setting:	<code>remoteDir.ldap_firstname_attribute</code>
Description:	Sets the name attributes. Enter the name attributes that you want the VSP726A to display for each entry returned after an LDAP search. Separate each attribute with a space. For example, givenName sn will display the first name and surname for each entry.
Values:	Text string
Default:	Blank

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

Setting:	<code>remoteDir.ldap_work_number_attributes</code>
Description:	Sets the number attributes. Enter the number attributes that you want the VSP726A to display for each entry returned after an LDAP search. Separate each attribute with a space. For example, telephoneNumber mobile will display the work phone number and mobile phone number for each entry.
Values:	Text string
Default:	Blank

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

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

Setting: `remoteDir.ldap_incall_lookup_enable`

Description: Enables or disables LDAP incoming call lookup. If enabled, the VSP726A searches the LDAP directory for the incoming call number. If the number is found, the VSP726A uses the LDAP entry for CID info.

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

Setting: `remoteDir.ldap_outcall_lookup_enable`

Description: Enables or disables LDAP outgoing call lookup. If enabled, numbers entered in pre-dial or live dial are matched against LDAP entries. If a match is found, the LDAP entry is displayed for dialling.

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

Setting: `remoteDir.broadsoft_enable`

Description: Enables or disables the Broadsoft phonebook.

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

Setting: `remoteDir.broadsoft_display_name`

Description: Sets the Broadsoft Phonebook display name.

Values: Text string **Default:** Blank

Setting: `remoteDir.broadsoft_server`

Description: Sets the Broadsoft Phonebook IP address.

Values: Text string **Default:** Blank

Setting: `remoteDir.broadsoft_port`

Description: Sets the Broadsoft Phonebook port.

Values: 1-65535 **Default:** 0

Setting: `remoteDir.broadsoft_user_name`

Description: Sets the Broadsoft Phonebook authentication user name.

Values: Text string **Default:** Blank

Setting:	<code>remoteDir.broadsoft_access_password</code>		
Description:	Sets the Broadsoft Phonebook authentication password.		
Values:	Text string	Default:	Blank

Setting:	<code>remoteDir.broadsoft_dir_type</code>		
Description:	Sets the Broadsoft Phonebook directory type.		
Values:	Group, GroupCommon, Enterprise, EnterpriseCommon, Personal	Default:	Group

Setting:	<code>remoteDir.ldap_check_certificate</code>		
Description:	Enables or disables accepting only a trusted LDAP certificate.		
Values:	0 (disabled), 1 (enabled)	Default:	0

Setting:	<code>remoteDir.broadsoft_check_certificate</code>		
Description:	Enables or disables accepting only a trusted Broadsoft certificate.		
Values:	0 (disabled), 1 (enabled)	Default:	0

web Module: Web Settings

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

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

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

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

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

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

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

Setting:	<code>web.activeuri_enable</code>		
Description:	Enables the Action URI feature, enabling remote activation of keys and features when a server sends an HTTP GET.		
Values:	0 (disabled), 1 (enabled)	Default:	0

trusted_ip Module: Trusted Server and Trusted IP Settings

The trusted_ip settings provide enhanced security for the VSP726A. When enabled, these settings can filter network traffic and reject any traffic from unauthorised sources.

The trusted_ip settings follow the format: trusted_servers.[element].

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

Setting:	<code>trusted_ip.only_accept_sip_account_servers</code>		
Description:	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.		
Values:	0 (disabled), 1 (enabled)	Default:	0

Setting:	<code>trusted_ip.only_accept_allowed_ip</code>		
Description:	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.		
Values:	0 (disabled), 1 (enabled)	Default:	0

Setting:	<code>trusted_ip.x.allow_ip</code>		
Description:	Enter an IP address or address range for one instance of the "Allowed IP" list. x ranges from 1 to 10. See "Trusted IP" on page 119 for more information.		
Values:	Text string (IPv4 or IPv6, IP range in IPv4 or IPv6)	Default:	Blank

user_pref Module: User Preference Settings

The user settings are accessible to the VSP726A user. These settings are useful for initial setup. You may wish to remove these settings from auto-provisioning update files so that users do not have their own settings overwritten.

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

The user preference settings (except for `user_pref.call_terminated.busy_tone_enable`) are exported when you manually export the configuration from the VSP726A.

General configuration file settings

Setting: `user_pref.account.x.ringer`

Description: Sets the ring tone for account x.

Values: 1–10 **Default:** 1

Setting: `user_pref.web_language`

Description: Sets the language that appears on the WebUI.

Values: en, en-GB, es-MX, es, fr-CA, **Default:** en-GB
fr, de, it, pt, nl, el, ru, tr, pl

Setting: `user_pref.language`

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

Values: en, en-GB, es-MX, es, fr-CA, **Default:** en-GB
fr, de, it, pt, nl, el, ru, tr, pl

Setting: `user_pref.idle_to_logo_timeout`

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

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

Setting: `user_pref.logo_to_idle_timeout`

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

Values: 1–300 **Default:** 60

Setting: `user_pref.notify.led.missed_call.enable`

Description: Sets how the Message Waiting LED operates. When enabled, the LED turns on for missed calls and new messages. When disabled, the LED turns on for new messages only.
Note: This setting is not available on the phone menu or WebUI.

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

Setting: `user_pref.text_input_option`

Description: Sets the order and available language input options available when users edit or enter text on the LCD.
Note: This setting is not available on the phone menu or WebUI, and applies to models sold and installed outside North America only.

Values: number,uc_western,lc_western,uc_ru,lc_ru,uc_el,lc_el **Default:** uc_western,lc_western,number

Setting: `user_pref.call_terminated.busy_tone_enable`

Description: Enables the VSP726A to play a busy tone when the far-end party ends the call, or when a network error condition (keep-alive failure) occurs.

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

Setting: `user_pref.account.x.diversion_display`

Description: Enables or disables the display of diversion <name-addr> info (if available) for calls forwarded to account x.

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

Setting: `user_pref.blf_indication_option`

Description: Configures the BLF LED behaviour for different service providers. Two options are available, as described below.

<p>Option 1 Behaviour Registration Error: Blinking ORANGE (every 2 secs) Incoming call: Fast ORANGE flash Held call: Fast ORANGE flash* Active call: Steady ORANGE Idle: Off</p>	<p>Option 2 Behaviour Registration Error: Off Incoming call: Fast ORANGE flash Held call: Fast ORANGE flash* Active call: Steady ORANGE Idle: Steady GREEN</p>
---	---

* Behaviour applies only to certain servers.

Values: 1, 2 **Default:** 2

MAC-specific configuration file settings

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

Setting: `user_pref.audio_mode`
Description: Sets the default audio mode.
Values: speaker, headset **Default:** speaker

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

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

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

Setting: `user_pref.call_waiting.tone_interval`
Description: Sets the interval for the call waiting tone in seconds.
Values: 10–60 **Default:** 30

Setting: `user_pref.call_waiting.mode`
Description: Enables or disables rejecting calls if already on a call.
Values: 0 (disabled), 1 (enabled) **Default:** 1

Setting: `user_pref.lcd_contrast`
Description: Sets the LCD contrast on the VSP726A.
Values: 1–7 **Default:** 4

Setting:	<code>user_pref.backlight</code>
Description:	Sets the backlight brightness level.
Values:	off, low, medium, high
Default:	high

Setting:	<code>user_pref.idle_backlight</code>
Description:	Sets the backlight brightness level when the VSP726A is idle.
Values:	off, low, medium, high
Default:	off

Setting:	<code>user_pref.absent_timeout</code>
Description:	Sets the absent timeout (the interval after going off hook with no action taken) in seconds. After the absent timeout, the phone returns to idle mode.
Values:	10–60
Default:	30

Setting:	<code>user_pref.speaker_volume</code>
Description:	Sets the speakerphone volume.
Values:	1–9
Default:	5

Setting:	<code>user_pref.headset_volume</code>
Description:	Sets the headset volume.
Values:	1–9
Default:	5

Setting:	<code>user_pref.handset_volume</code>
Description:	Sets the corded handset volume.
Values:	1–9
Default:	5

Setting:	<code>user_pref.key_beep_enable</code>
Description:	Enables or disables key beeps on the VSP726A.
Values:	0 (disabled), 1 (enabled)
Default:	1

call_settings Module: Call Settings

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

All the call settings (except one) follow the format: call_settings.account.x.[element] where x is an account number ranging from 1 to 4.

General configuration file settings

Setting:	call_settings.account.x.call_completion_enable		
Description:	Enables or disables the Call Completion for Busy Subscribers (CCBS) feature. The feature notifies users when a previously busy number is available and asks them whether they wish to call the number back.		
Values:	0 (disabled), 1 (enabled)	Default:	0

Setting:	call_settings.account.x.call_completion_alert_enable		
Description:	Enables or disables an audible alert (similar to a hold reminder alert tone) if the user is on another call when the auto redial interval expires.		
Values:	0 (disabled), 1 (enabled)	Default:	1

Setting:	call_settings.account.x.auto_redial_interval		
Description:	Sets the countdown timer (in seconds) until the user is prompted for the next dialling attempt.		
Values:	1–300	Default:	30

Setting:	call_settings.account.x.auto_redial_repeat		
Description:	Sets how many auto redial attempts are made.		
Values:	1–30	Default:	10

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.dnd_incoming_calls`

Description: Sets whether incoming calls are shown or rejected when DND is on for account x.

Values: show, reject **Default:** reject

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

Setting: `call_settings.account.x.call_fwd_busy_target`

Description: Sets the Call Forward Busy target number for account x.

Values: Text string **Default:** Blank

Setting: `call_settings.account.x.cfna_enable`

Description: Enables or disables Call Forward No Answer for account x.

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

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

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

Setting:	<code>call_settings.missed_call_alert_enable</code>
Description:	Enables or disables missed call alerts.
Values:	0 (disabled), 1 (enabled)
Default:	1

Setting:	<code>call_settings.hotline_enable</code>
Description:	Enables or disables the hotline feature.
Values:	0 (disabled), 1 (enabled)
Default:	0

Setting:	<code>call_settings.hotline_account</code>
Description:	Sets the account used for dialling the hotline number.
Values:	0–4
Default:	0 (default account)

Setting:	<code>call_settings.hotline_number</code>
Description:	Sets the number dialled by the hotline feature.
Values:	Text string
Default:	Blank

Setting:	<code>call_settings.hotline_delay</code>
Description:	Sets the delay (in seconds) between the phone going off hook and the hotline number being dialled.
Values:	0–10
Default:	0

pfk Module: Programmable Feature Key Settings

The programmable feature key (PFK) settings store the data associated with each programmable key. On ErisTerminal desksets, you can program both programmable feature keys and certain hard keys.

All the programmable feature key settings are included in the general configuration file.

Programmable Feature Keys

The programmable feature key settings follow the format: pfk.x.[element], where x is the programmable feature key ID, ranging from 1 to 24.

Setting:	pfk.x.feature		
Description:	Assigns a feature to PFK x.		
Values:	unassigned, line, dir, call log, redial, messages, dnd, cfwd all, cfwd busy, cfwd no answer, quick dial, busy lamp field, acd, page, multicast page, park call, retrieve parked call, in call dtmf, callback, group call pickup, direct call pickup, prefix_dial, chp, hg, sf, lock_key, flash, xml app	Default:	See “Programmable Feature Keys” on page 13.

Setting:	pfk.x.quick_dial		
Description:	Sets the quick dial string to use if quick dial is assigned to PFK x.		
Values:	Text string (SIP URI)	Default:	Blank

Setting:	pfk.x.blf		
Description:	Sets the BLF string to use if Busy Lamp Field is assigned to PFK x.		
Values:	Text string (SIP URI)	Default:	Blank

Setting:	pfk.x.incall_dtmf		
Description:	Sets the DTMF string if In-call DTMF is assigned to PFK x.		
Values:	Text string (SIP URI)	Default:	Blank

Setting:	<code>pfk.x.multicast_zone</code>		
Description:	Sets the multicast paging zone if multicast page is assigned to PFK x.		
Values:	1–10	Default:	Blank
Setting:	<code>pfk.x.account</code>		
Description:	Sets the SIP account used for the assigned feature (if applicable).		
Values:	1–3	Default:	1
Setting:	<code>pfk.x.page_destination</code>		
Description:	If required by your service provider, enter a page destination number. The target number for the outgoing page will be formed by concatenating Paging feature access code of the selected account and the PFK page destination value.		
Values:	text string	Default:	blank
Setting:	<code>pfk.x.park_destination</code>		
Description:	If required by your service provider and <code>sip_account.x.park_variant</code> setting, enter a value for the park “orbit” or extension.		
Values:	text string	Default:	blank
Setting:	<code>pfk.x.park_retrieval_source</code>		
Description:	If required by your service provider and <code>sip_account.x.park_variant</code> setting, enter a value for the park “orbit” or extension.		
Values:	text string	Default:	blank
Setting:	<code>pfk.x.prefix</code>		
Description:	Enter a prefix to be dialed (hidden from the user) when the key is pressed. The prefix is added to any user-entered digits. <code>%N</code> can be used for substitution of user-entered digits. For example, <code>*71%N#</code> uses <code>[*71] + [user-entered digits] + [#]</code> as the outgoing dialling string.		
Values:	text string	Default:	blank

Setting: pfk.x.call_handling_profile

Description: If pfk.x.feature is chp, enter the string of the call handling profile that the pfk LED will indicate.

Values: text string **Default:** blank

Setting: pfk.x.call_handling_profile_set_code

Description: If pfk.x.feature is chp, enter the call handling profile FAC and profile index number to activate the profile.

Values: text string **Default:** blank

Setting: pfk.x.hunt_group

Description: If pfk.x.feature value is hg, enter the hunt group extension number assigned for this pfk.

Values: text string **Default:** blank

Setting: pfk.x.secretarial_filtering

Description: If pfk.x.feature value is sf, enter the manager's extension number assigned for this pfk

Values: text string **Default:** blank

Setting: pfk.x.xml_uri

Description: If pfk.x.feature is xml app, enter the URI to fetch the XML application to be executed.

Values: text string **Default:** blank

Setting: pfk.x.direct_pickup

Description: If pfk.x.feature is direct call pickup, enter the Direct Call Pickup feature access code (FAC).

Values: text string **Default:** blank

Programmable Hard Keys

The programmable hard key settings follow the format: pfk.[hardkey].[element].

For the VSP726A, [hardkey] can be up, down, cancel, mute, select, hold.

Setting: pfk.[hardkey].feature

Description: Assigns a feature to the key.

Values: unassigned, dir, call log, redial, messages, dnd, cfwd all, cfwd busy, cfwd no answer, retrieve parked call, quick dial, page, multicast page, callback, group call pickup, direct call pickup, prefix dial, lock_key, xml app

Default: pfk.up.feature=redial
pfk.down.feature=messages
Others: unassigned.

Setting: pfk.[hardkey].quick_dial

Description: Sets the quick dial string to use if quick dial is assigned to the key.

Values: Text string (SIP URI) **Default:** Blank

Setting: pfk.[hardkey].multicast_zone

Description: Sets the multicast paging zone if multicast page is assigned to the key.

Values: 1–10 **Default:** Blank

Setting: pfk.[hardkey].page_destination

Description: If required by your service provider, enter a page destination number. The target number for the outgoing page will be formed by concatenating Paging feature access code of the selected account and the PFK page destination value.

Values: text string **Default:** blank

Setting: pfk.[hardkey].park_retrieval_source

Description: If required by your service provider and sip_account.x.park_variant setting, enter a value for the park “orbit” or extension.

Values: text string **Default:** blank

Setting:	<code>pfk.[hardkey].prefix</code>		
Description:	Enter a prefix to be dialed (hidden from the user) when the key is pressed. The prefix is added to any user-entered digits. %N can be used for substitution of user-entered digits. For example, *71%N# uses [*71] + [user-entered digits] + [#] as the outgoing dialling string.		
Values:	text string	Default:	blank

Setting:	<code>pfk.[hardkey].xml_uri</code>		
Description:	If pfk.[hardkey].feature is xml app, enter the URI to fetch the XML application to be executed.		
Values:	text string	Default:	blank

Setting:	<code>pfk.[hardkey].direct_pickup</code>		
Description:	If pfk.[hardkey].feature is direct call pickup, enter the Direct Call Pickup feature access code (FAC).		
Values:	text string	Default:	blank

Setting:	<code>pfk.[hardkey].account</code>		
Description:	Enter the account used for the assigned pfk feature. Enter 0 for the default account if default account applies to the feature		
Values:	0-5	Default:	1

speed_dial Module: Speed Dial Settings

The speed dial key settings configure the dial pad keys for speed dialling pre-programmed phone numbers. When configured, the VSP726A user can press and hold a dial pad key to dial a programmed phone number.

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

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

Setting:	<code>speed_dial.x.name</code>		
Description:	Sets the name associated with the phone number for dial pad key x. The name is visible on the VSP726A LCD.		
Values:	Text string	Default:	Blank

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

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

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.

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

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

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

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

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

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

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

ringersetting Module: Distinctive Ringer Settings

The distinctive ringer settings configure the distinctive ringer feature. For more information, see [“Ringer Settings” on page 74](#). You can configure up to 8 instances of the distinctive ringer feature.

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

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

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

Setting:	<code>ringersetting.x.ringer_type</code>		
Description:	Select the desired ring tone for ringer setting x.		
Values:	1–10	Default:	1

call_record Module: Call Recording Settings

The call recording settings configure call recording for the VSP726A. Ensure that a microSD is also inserted into the unit.

All the call recording settings are included in the general configuration file.

Setting: `call_record.enable`

Description: Enables call recording on the deskset.

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

Setting: `call_record.tone_enable`

Description: Enables a call record tone, to be played over the line when recording begins and ends.

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

file Module: Imported File Parameters

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

- Contact lists
- Custom logos
- 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 signalling, 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 VSP726A 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 VSP726A.

General configuration file settings

Setting:	<code>file.certificate.x.url</code>		
Description:	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.		
Values:	Text string	Default:	Blank
Setting:	<code>file.protected_certificate.x.url</code>		
Description:	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.		
Values:	Text string	Default:	Blank

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

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

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

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

Setting:	<code>file.bootup_logo</code>	Default:	Blank
Description:	URL of custom logo shown during bootup. For logo specifications, see “Logo specifications” on page 19 .		
Values:	Text string	Default:	Blank

Setting:	<code>file.idle_logo</code>	Default:	Blank
Description:	URL of custom logo shown on the idle screen. For logo specifications, see “Logo specifications” on page 19 .		
Values:	Text string	Default:	Blank

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

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

MAC-specific configuration file settings

Setting:	<code>file.custom_ringer</code>	Default:	Blank
Description:	Enter URI to WAV file for a custom ringer. The custom ringer replaces Ringtone 10 on Ringer tone menu. For more information about file format, see “Custom Ringer” on page 62 .		
Values:	Text string	Default:	Blank

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

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

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

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

xml_app Module: XML Settings

The VSP726A supports both push and pull server applications. The XML settings allow you to enable “push” events and how they interact with the phone during calls.

The XML settings are included in the general configuration file.

Setting:	<code>xml_app.http_push_enable</code>
Description:	Enable or disable 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.
Values:	0 (disabled), 1 (enabled) Default: 0

Setting:	<code>xml_app.push_during_call_enable</code>
Description:	Enable or disable the phone to display pushed XML objects during a call. Otherwise, the XML application is displayed after the call is over.
Values:	0 (disabled), 1 (enabled) Default: 0

system_event Module: Action URI Settings

You can enter Action URIs to allow the VSP726A 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. For more information, see [“Server Application” on page 77](#).

All the Action URI settings are included in the general configuration file.

Setting:	<code>system_event.startup.action_uri</code>
Description:	Enter URI for GET request triggered at end of phone bootup.
Values:	Text string
Default:	Blank

Setting:	<code>system_event.registered.action_uri</code>
Description:	Enter URI for GET request triggered at end of line registration.
Values:	Text string
Default:	Blank

Setting:	<code>system_event.on_hook.action_uri</code>
Description:	Enter URI for GET request triggered when phone goes from active to idle.
Values:	Text string
Default:	Blank

Setting:	<code>system_event.off_hook.action_uri</code>
Description:	Enter URI for GET request triggered when phone goes into dial mode.
Values:	Text string
Default:	Blank

Setting:	<code>system_event.incoming_call.action_uri</code>
Description:	Enter URI for GET request triggered for incoming calls or call waiting events.
Values:	Text string
Default:	Blank

Setting:	<code>system_event.outgoing_call.action_uri</code>
Description:	Enter URI for GET request triggered when phone sends SIP INVITE message.
Values:	Text string
Default:	Blank

Setting:	<code>system_event.poll.action_uri</code>		
Description:	Enter URI for GET request.		
Values:	Text string	Default:	Blank

Setting:	<code>system_event.poll.interval</code>		
Description:	Enter interval (in seconds) between poll.action_uri requests.		
Values:	1-65535	Default:	3600

Setting:	<code>system_event.connected.action_uri</code>		
Description:	Enter URI for GET request triggered when phone has active call or is paging.		
Values:	Text string	Default:	Blank

Setting:	<code>system_event.registration_event.action_uri</code>		
Description:	Enter URI for GET request triggered when the registration state changes.		
Values:	Text string	Default:	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.

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

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

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

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

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

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

Setting: tone.call_waiting_tone.num_of_elements

Description: Sets the number of elements for the call waiting tone.

Values: 1-5 **Default:** 1

Setting: tone.call_waiting_tone.element.1

Description: Defines the call waiting tone element 1.

Values: Tone element string **Default:** 1 440 -22 0 0 0 0 0 0 500 0 1

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

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

Setting:	<code>tone.hold_reminder_tone.num_of_elements</code>		
Description:	Sets the number of tone elements for the hold reminder tone.		
Values:	1–5	Default:	1

Setting:	<code>tone.hold_reminder_tone.element.1</code>		
Description:	Defines the hold reminder tone element 1.		
Values:	Tone element string	Default:	1 770 -22 0 0 0 0 0 0 300 0 1

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

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

Setting:	<code>tone.inside_dial_tone.num_of_elements</code>		
Description:	Sets the number of tone elements for the secondary dial tone (see “Dial Plan” on page 49 for description and behaviour).		
Values:	1–5	Default:	1

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

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

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

Setting:	<code>tone.stutter_dial_tone.num_of_elements</code>		
Description:	Sets the number of tone elements for the stutter dial tone.		
Values:	1–5	Default:	2

Setting:	<code>tone.stutter_dial_dial_tone.element.1</code>		
Description:	Defines the stutter dial tone element 1.		
Values:	Tone element string	Default:	2 440 -22 350 -22 0 0 0 0 100 100 10

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

Setting:	<code>tone.stutter_dial_tone.element.x</code>		
Description:	Defines the stutter dial tone element x (x = 3–5).		
Values:	Tone element string	Default:	Blank

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Setting:	tone.auto_answer_tone.num_of_elements		
Description:	Sets the number of tone elements for the auto answer tone.		
Values:	1–5	Default:	1

Setting:	tone.auto_answer_tone.element.1		
Description:	Defines the dial tone element 1.		
Values:	Tone element string	Default:	2 500 -22 800 -22 0 0 0 0 1000 0 1

Setting:	tone.auto_answer_tone.element.x		
Description:	Defines the dial tone element x (x = 2–5).		
Values:	Tone element string	Default:	Blank

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

profile Module: Password Settings

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

General configuration file settings

Setting:	<code>profile.admin.access_password</code>		
Description:	Sets the administrator password for accessing the admin menus on the VSP726A and the WebUI.		
Values:	Text string (15 characters maximum)	Default:	admin

MAC-specific configuration file settings

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

page_zone Module: Paging Zone Settings

The paging zone settings allow you to define a maximum of 10 paging zones that the VSP726A can use for multicast paging.

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

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

Setting:	<code>page_zone.x.name</code>		
Description:	Sets the paging zone name, which appears on VSP726A LCD for outgoing and incoming multicast pages. A maximum of 15 characters is allowed.		
Values:	Text string	Default:	Blank

Setting:	<code>page_zone.x.multicast_address</code>		
Description:	Enter the multicast IP address that the VSP726A will monitor. The range of valid IP addresses is 224.0.0.0 to 239.255.255.255.		
Values:	IPv4, IPv6 or FQDN	Default:	Blank

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

Setting:	<code>page_zone.x.accept_incoming_page</code>		
Description:	Enables or disables the VSP726A from receiving incoming multicast pages for that paging zone. If disabled, the VSP726A can make outgoing multicast pages only.		
Values:	0 (disabled), 1 (enabled)	Default:	1

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

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

phonelock Module: Phone Lock Settings

The Phone Lock feature restricts certain hard keys and features unless the user enters a PIN code. For more information about phone lock modes, see [“Using the Security menu” on page 37](#).

All the phone lock settings are part of the general configuration file.

Setting:	<code>phonelock.type</code>		
Description:	Sets the phone lock type.		
Values:	disabled, restricted_config, restricted_call, emergency_call_only	Default:	disabled

Setting:	<code>phonelock.pin</code>		
Description:	Sets the pin for unlocking the phone.		
Values:	4 to 15 digits	Default:	1234

Setting:	<code>phonelock.autolock_timeout</code>		
Description:	Sets the delay (in seconds) before the phone locks when idle.		
Values:	0 (disabled)–3600	Default:	0

Setting:	<code>phonelock.restricted_account</code>		
Description:	Sets the restricted account.		
Values:	0 (default)–4	Default:	0

softkey Module: Custom Soft Key Settings

The custom soft key settings allow you to select which soft keys can appear on the Idle screen, the Call Active screen, the Call Held screen, the Live Dial screen and the Transfer Setup screen. You can also specify the position of each soft key. Softkeys appear on the VSP726A screen in the same order as the softkey values you enter. Enter soft key values separated by commas. For more information, see [“Customizing Soft Keys” on page 21](#). You can specify a maximum of nine soft keys (three levels) for each parameter.

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

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

Setting: `softkey.idle`

Description: Specifies the soft keys visible on the idle screen.

Values: blank, dir, call_log, redial, message, dnd, cfwd, cfna, cfwd_all, cfwd_busy, intercom, retrieve, callback, grp_pickup, dir_pickup, line, settings

Default: dir,redial,call_log,cfwd,message,dnd,line

Setting: `softkey.call_active`

Description: Specifies the soft keys visible on the active call screen.

Values: blank, new, park_call, end, hold, pri_hold, transfer, conf, flash,hs_pick,record

Default: end,transfer,conf,record,hs_pick

Setting: `softkey.call_held`

Description: Specifies the soft keys visible on the held call screen.

Values: blank, new, retrieve, grp_pickup, dir_pickup, end, resume, transfer, conf, hs_pick

Default: end,new,resume,transfer,conf,hs_pick

Setting: `softkey.live_dial`

Description: Specifies the soft keys visible on the live dial screen.

Values: blank, dir, call_log, redial, message, end, dial, input, cancel, backspc

Default: backspc,input,dial,redial

CHAPTER 6

TROUBLESHOOTING

If you have difficulty with your VSP726A deskset, 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.

Screen is blank.

- Ensure power is connected. If powered by an AC adapter, check that the adapter is plugged into a wall socket and the VSP726A power jack. If powered by PoE, ensure that the network switch is providing power through the correct ports.

The DECT headset doesn't register. "Registration failed" appears on the screen.

- Ensure the headset is fully charged and in the charger. Remove and replace the headset in its charger before selecting **Register** on the VSP726A.
- Ensure the headset is not already registered to another phone. If it has been registered to another phone, deregister it.

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.

Pages are not received.

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

Calls are answered on the headset rather than the speakerphone after I press a Line key or **Answer to answer a call.**

- Change the audio mode from Headset to Speaker. On the VSP726A, press **MENU > User Settings > Audio > Audio mode**.

My computer can't connect to the network after plugging the Ethernet cable through the PC port.

- Make sure the VSP726A is connected to power. The PC port does not work when the VSP726A does not have power source or during a power outage.
- Make sure you plug the Ethernet cable connected to the router into the VSP726A Ethernet port and the Ethernet cable connected to the computer into the VSP726A PC port.

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 VSP726A is not getting a provisioning URL from the DHCP Server.

- Ensure that DHCP is enabled in Network settings.

APPENDIXES

Appendix A: Soft Keys

The table below provides an alphabetical list of the labels that appear above the VSP726A soft keys.

Label	Description
abc/ABC/123	Selects the text format for input
Add	Displays the new directory group editor
Add dot	Enters dot in IP editing field
Answer	Answers an incoming call
Back	Shows the previous screen
Backspc	Moves cursor back to correct entries in text editing fields
Blind	Starts the blind transfer process for the active call
Bridge	Joins the two active calls in a conference and returns to idle screen
Callback	Dials the last missed caller
Cancel	Quits the current page without saving any settings
Conf.	Opens the live dialling editor to enter or insert digits for the conference target
Del. All	Deletes all records in a list
Delete	1) Deletes current entry 2) Deletes assignment 3) Deletes Directory group
Dial	Sends and dials currently displayed/highlighted digits
Directory	Opens the list of available directories
Edit	Go to entry/group editor
EditDial	Edits a number stored in a list before dialling
End	1) Closes the current page 2) Ends the current call

Label	Description
Exit	Exits the current screen and returns to the previous menu
FirstNme	Sorts the directory by first name
Forward	Opens the predial editor to begin forwarding a call
LastNme	Sorts the directory by last name
Line	Switches between registered lines
New	Press to predial a new call during a call currently put on hold
No	Returns to the previous screen
Reject	Rejects an incoming call
Resume	Resumes a call put on hold
Save	1) Saves current setting 2) Begins save process
Search	Opens the Directory search editor; begins a search
Select	Selects a highlighted option
Settings	Opens the User settings menu
Set Conf	Confirms to set up conference
Split	Breaks a conference or call progress into multiple calls
Status	Access the status submenu
Transfer	Opens the live dialling editor to enter or insert digits of the transfer target
Type	Switches between the Directory number types within an entry
View	Displays a list of missed calls, messages, or a call history folder
Yes	Confirm

Appendix B: Maintenance

Taking care of your telephone

- Your VSP726A deskset contains sophisticated electronic parts, so you must treat it with care.
- Avoid rough treatment.
- Place the corded handset down gently.
- Save the original packing materials to protect your VSP726A deskset if you ever need to ship it.

Avoid water

- You can damage your VSP726A deskset if it gets wet. Do not use the corded handset in the rain, or handle it with wet hands. Do not install the VSP726A deskset near a sink, bathtub or shower.

Electrical storms

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

Cleaning your telephone

- Your VSP726A deskset 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 VSP726A deskset 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 C: 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—VSP726A 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.