

Using IP Office System Status

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Part 1: System Status

Chapter 1: System Status Application

This document describes how to navigate and access the features available in the System Status Application. The System Status Application is an application for monitoring the operation of an IP Office system.

Related links

New in this release on page 9 Installing the Application on page 9 Assigning Security Settings on page 11 Starting System Status on page 11 The Menu Bar on page 12 Button Bar on page 13 Navigation Panel on page 16

New in this release

For IP Office Release 11.1 FP1, System Status Application supports the following enhancements:

Customer Operations Manager Access

Access to IP Office subscription mode systems is supported via Customer Operations Manager.

Related links

System Status Application on page 9

Installing the Application

You can launch System Status directly from the IP Office system, see <u>Starting System Status</u> on page 11. However, it is also possible to install a local copy of the application onto a Windows PC. This allows you to perform actions such as viewing previously captured system snapshot without needing to first connect to a system.

Avaya supply the full IP Office admin suite as a download from the Avaya support at https://support.avaya.com.

- Users of Customer Operations Manager can download the installer from the **Applications** | **IP Office Admin** menu.
- Users of Server Edition web manager can download the installer from the **Platform View | App Center** menu.

In addition to Manager, the Admin suite includes options to install the following applications:

- **System Monitor** This is a tool for system installers and maintainers. Interpreting the information output by System Monitor requires detailed data and telecoms knowledge.
- System Status Application This is a Java application that can be used to monitor the status of the system such as extension, trunks and other resources. It displays current alarms and most recent historical alarms.
 - The System Status Application requires Java to also be installed on the PC. It is not installed by the admin suite installer. This can be the run-time edition (JRE) or developers kit (JDK). The application has been tested with Oracle and Azul Zulu versions of Java. The presence of Java can be tested using the command java -version.

Procedure

- 1. Unzip the downloaded IP Office administration suite file. If installing from the Admin DVD, insert the DVD and when the page is displayed click on the link for the Admin suite. This will open a file window showing the installation files for the suite.
- 2. Locate and right-click on the setup.exe file. Select Run as Administrator.
- 3. Select the language you want to use for the installation process. This does not affect the language used by Manager when it is run. Click **Next** >.
- 4. If an upgrade menu appears, it indicates that a previous installation has been detected. Select **Yes** to upgrade the existing installed applications.
- 5. If required select the destination to which the applications should be installed. We recommend that you accept the default destination. Click **Next** >.
- 7. The applications selected are now ready to be installed. Click Next >.
- 8. Following installation, you will be prompted whether you want to run Manager. Selecting **Yes** runs Manager.
- 9. On some versions of Windows, you may be required to restart the PC. Allow this to happen if required.

Related links

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Assigning Security Settings

Rights Group Configuration

Access to a system using System Status is controlled by that system's security settings. By default, the Administrator account has System Status access. For full details of configuring security settings, refer to the IP Office Manager documentation.

By default that is done by making the service user a member of the **Rights Group** called **System Status**. The rights group has the following settings enabled.

Setting	Description
System Status Access	This is the basic setting to allow System Status to connection to show system status information.
Read All Configuration	If selected, the System Status connection is able to include a copy of the system configuration in snapshots.
System Control	If selected, the System Status connection is able to use buttons in System Status that affect the system operation, for example, restarting IP telephones.

Service Configuration

The output from the system to System Status is provided by the System Status Interface service. The **Service Security Level** of this service controls whether it can be accessed using more secure and/or unsecure connections.

Related links

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Starting System Status

About this task

There are a number of ways to start System Status. For example, you can launch it from IP Office Manager or IP Office Web Manager. The methods depend on whether you launch System Status installed locally on the PC or from the system.

To start System Status:

Procedure

- 1. Use one of the following methods to start System Status:
 - To start a locally installed PC copy: Click the Windows Start icon and select Programs | IP Office | System Status. To do this from within the IP Office Manager application, select File | Advanced | System Status.
 - To start the system's copy in a web browser: Using a browser, enter the IP address of the system. The web page should show details of the system and a number of links. Select the System Status link. This method does not work if the IP Office has Avaya HTTP Clients Only enabled.

- To start the system's copy in IP Office Web Manager: The method depends on the operating mode of the system:

 - IP Office Basic Edition: Browse to https://:8443 where is the system's IP address. Click **Monitoring** and select **System Status**.
- 2. The **Logon** menu appears with the **Online** tab selected. The **Offline** tab is used to select and view a previously saved snapshot file. See <u>Snapshots</u> on page 18.

Setting	Description
Control Unit IP Address	Enter the IP address of the system or use the drop down to select a previously used address.
Services Base TCP Port	This is the port used for the connection to the system when Websocket connection is not selected (see below). This should match the Services Base TCP Port setting of the system, set in its security settings. The default is 50804.
HTTP Port	This is the port used for the connection to the system when Websocket connection is selected (see below). The default is 8443.
Local IP Address	Default = Automatic. This option appears when starting a locally installed copy of System Status. If the PC has more than one IP address assigned to its network card or multiple network cards, you can select which address the application uses.
User Name	Enter a user name and password. By default, these match the settings
Password	of a system service user configured for access to the system. See <u>Assigning Security Settings</u> on page 11.
Auto Reconnect	If selected, the application automatically attempts to reconnect using the same settings if connection to the system is lost.
Secure Connection	Use an encrypted TLS connection to the system. If selected and the system is not configured for secure access, System Status offers to reattempt connection using unsecure access instead. See <u>Assigning</u> <u>Security Settings</u> on page 11.
Websocket Connection	When selected, a websocket connection on HTTP is used.

3. Once all the details are set, click Logon.

Related links

System Status Application on page 9

The Menu Bar

From the menu bar, you can select the following options:

Name	Description
Help	This option opens the application help.
LogOff	This option logs off the connected system and displays the logon menu.
Exit	This option closes the application.
About	This option displays the application version. To close, click OK .
Snapshot	This option saves the status of the system to a file. System Status can view saved snapshot files.

Related links

System Status Application on page 9

Button Bar

Depending on the screen, the following options may appear in the button bar:

Button	Description
Abandoned Calls	The Active Calls screen splits to display a list of incoming calls on a trunk where the caller disconnected before the call was first answered.
Absolute Time	Applies to the 24-Hour Performance History. Each line shows the actual time in 24-hour clock format at which the reported 15-minute period started.
Activate Backup Server	Transfer voicemail server operation to the configured backup voicemail server.
Alarm History	Display the alarm history details
Allow Registration	Allow handset registration on the selected SIP DECT base station.
Back	Returns to the previous screen.
Backup System Files	Backup the files in the systems /primary folder to the /backup folder.
Change Admin State	Change the state of the selected trunk between out of service and in service.
Call Details	Displays call details for the selected call, trunk or trunk channel.
Cancel Shutdown	Cancel the graceful shutdown of the selected SIP trunk if not completed. If the trunk has completed the graceful shutdown, select Force Into Service.
Clear	Clears the selected alarms. If the alarm is still active (red) it remains but with the occurrences count reset to 1.
Clear Abandoned Calls	Clears the list of all abandoned calls. This updates the date and time and enables the logging of further abandoned calls.
Clear Alarm History	Clear the historical alarms displayed.
Clear All	Clears all listed historical alarms that are no longer active. Note that any alarms still active (red) remain but with the occurrences count reset to 1.

Table continues...

Button	Description
Clear All Dynamic Locations	Third-party applications can use the system's location API to dynamically set the location of extensions. This button clears the dynamic location information currently held for all extension.
Clear Boot Flags	IP500 V2 only. During system booting various flags are set indicating from which source the system booted, etc. Occasionally it may be required to clear those flags.
Clear Dynamic Location	Third-party applications can use the system's location API to dynamically set an extension's location. This button clears the dynamic location information currently held for the extension.
Clear In Fallback	Clear the currently selected SSL VPN service's fallback status.
Close Location API	Close the dynamic extension location API.
Conference Details	Available for calls in a conference. Displays the conference details
Conflicts	Displays any conflicts with directory entries on other systems if in a multi-site network.
Copy System Card	This option is available for IP500 V2 control units fitted with a System SD and Optional SD card. When selected, the system copies the contents of the System SD card to the Optional SD card. Note that this process can take several hours.
Details	This button displays additional information. See <u>System Hardware Details</u> on page 25.
Disconnect	Clears the current call. The button cannot stop alerting calls on Loop Start, T1 Loop Start and T1 Ground Start lines.
Format	This option is available for IP500 V2 memory cards. When selected, the system formats the card, erasing all existing contents.
Force Into Service	Take the selected SIP trunk out of 'Out of Service' (OOS) status.
Force Out of Service	Force the selected SIP trunk into 'Out of Service' (OOS) status. This immediately disconnects any current calls on the trunk.
Full Details	Resume the full display of Active Calls from the reduced active calls state .
Graceful Shutdown	Cause the selected SIP trunk to block any additional calls and go into Out of Service (OOS) state when all current calls on the trunk have ended.
Inject Error	Insert an error into the digital trunk during a loopback test.
Membership	Display the users who are members of the selected hunt group.
Pause	Stops the screen from updating. The button label and function changes to Resume when the screen is paused.
Ping	Perform a Ping action from the selected interface (system, line or extension) and display the results. See <u>Ping</u> on page 116.
Print	Prints all information available in the current screen (including any information currently scrolled off).
Refresh	Updates the screen. This button appears on screens that do not update automatically.

Table continues...

Button	Description
Relative Time	Applies to the 24-Hour Performance History. When selected, for each line, the time value indicates how far into the 15-minute interval the line occurs. For example, 3 minutes appears as 00:03.
Remove	Remove the currently selected entry from the list. This removes any blocking currently applied to that entry.
Remove All	Remove all the current entries from the list. This removes any blocking currently applied to those entries.
Renew Licenses	Force the system to immediately revalidate its license entitlements rather than waiting for the next automatic check.
Reregister	This option can be used to force Avaya IP phones to reregister without restarting.
Reset Base	Reset (reboot) the selected SIP DECT base station.
Reset Base to Default	Reset the selected SIP DECT base station to its factory default settings.
Reset Base Admin Pass	Reset the selected SIP DECT base station's administration password.
Reset Handset	Reset the selected SIP DECT handset.
Reset All Handsets	Reset all handsets registered to the selected SIP DECT base station.
Restart	This option can be used to force Avaya H.323 IP phones to restart. When the phone restarts, they checking their current firmware against that available on the configured file server. We recommend that only small groups of up to 15 phones restart at any time. Attempting to restart larger numbers of phones can cause System Status to appear to frozen.
Reset	Resets all utilization counters (number of calls and total duration) for the displayed trunk to 0.
Reset Trunk	Reset the selected digital trunk.
Restores System Files	Restore the files from the /backup folder to the /primary folder. You must restart the system for it to use the restored files.
Resume	Resumes updating screen in real time. When pressed, the button label and function changes to Pause .
Save As	Saves the information shown on the screen to a text file (TXT or CSV). You can only save trace screens as CSV text files.
Select	Show details for the currently selected item.
Set In Fallback	Set the currently selected SSL VPN service into fallback status.
Show Blanks	Applies to 24-Hour Performance History. Show any 0 error values as blanks.
Show Zeros	Applies to 24-Hour Performance History. Show any 0 error values as zeros.
Shutdown	Memory card. Shuts down the services provided by the memory card, including embedded voicemail. Once shutdown, the system switches of the card LED and you can safely remove the card.
Shutdown System	Shutdown the system either for a period of time after which it automatically restarts or until manually restarted.

Table continues...

Button	Description
Start Test	Start loopback testing on the trunk. You can only start testing when the Whole Line is set to Out of Service. When testing starts, the test results appear below the list of channels. During the test, the button label and function changes to Stop Test.
Start Up	Restart a shutdown memory card.
Stop Test	Stop loopback testing on the selected trunk. The button label and function changes to Start Test.
Summary	Return to the System Hardware Summary menu. See <u>System</u> on page 23.
Switch to Backup Node	Switch the IP DECT system to the backup system.
Switch to Primary Node	Switch the selected IP DECT user back to the primary system.
Synchronize	Used for the ACCS SIP application server. Causes a manual synchronization of the agents between the application server and the telephone system.
Test Alarm	Request the IP Office system to send a test alarm.
Test Location API	Test the location API by requesting the dynamic extension location information.
Trace	Starts a trace of the rows selected. System Status displays a trace for each call associated with the selected trunk or extension. See $\underline{\text{Trace}}$ on page 80.
Trace All	Starts a trace for the whole trunk group or extension. System Status displays a trace for all calls associated with the trunk or extension. See $\underline{\text{Trace}}$ on page 80.
Trace Clear	Clears the trace and continues tracing.
Unregister Handset	Unregister the select SIP DECT handset from the base station.
Unregister All Handsets	Unregister all the handsets from the selected SIP DECT base station.
Unsubscribe	Force an IP DECT extension to unsubscribe.

Related links

System Status Application on page 9

Navigation Panel

The navigation panel displays a list of items on which you can select to display related information. To view more options, expand the structure by clicking + next to the feature.

To view summary and specific details in the Information Panel:

- Summary To view summary information, click a feature in the navigation panel. For example, when you click Extensions, System Status displays the Extension Summary screen.
- **Specific** To view detailed information, double-click a feature in the navigation panel to display a list of items and then click an item to view specific details in the information

panel. For example, double-click Extensions to display a list of extensions and then click an extension to view the Extension Status screen.

Related links

System Status Application on page 9

Chapter 2: Snapshots

Taking a snapshot allows you to capture the System Status details to a file. You can then use System Status to view the saved snapshot.

There are two types of snapshot file:

Snapshot only

This type of snapshot captures the current status details shown by System Status.

Continuous log

This type of snapshot captures the system's status details over a period of time. It requires System Status to be left running for the period of logging.

Either type of snapshot can also include a copy of the system configuration. You can use IP Office Manager to open the snapshot file to view that configuration.

Related links

<u>Taking a Snapshot</u> on page 18 <u>Viewing a Snapshot</u> on page 20 <u>Opening a Configuration</u> on page 21

Taking a Snapshot

About this task

To take a snapshot

Procedure

- 1. From System Status, click **Snapshot** in the menu bar.
- 2. Select the type of snapshot:

Setting	Description
Include switch configuration	If selected, the snapshot includes a copy of the system's configuration.
	 After taking the snapshot, in addition to viewing the snapshot in system status, you can open the snapshot in IP Office Manager to examine the system configuration. See <u>Opening a Configuration</u> on page 21. To use this option, the account used to log in to System Status
	must have Read All Configuration enabled (see <u>Assigning Security</u> <u>Settings</u> on page 11).
Snapshot only	If selected, after clicking OK , System Status requests where you want to save the snapshot file. This creates a snapshot file with a .ssh file extension.
Continuous log	This creates a snapshot file with a .slo file extension. If selected, after clicking OK, System Status displays the logging options menu. Select log file options Image: Start new log file Image: Start new log file
	Note that with continuous logging, you must leave System Status running and cannot use it for other activities without first stopping the logging.

- 3. Select the settings required and click **OK**. System Status requests where you want to save the snapshot file or files.
- 4. If **Continuous log** was selected, the logging menu is displayed. Selecting **LogOff** ends logging and closes System Status.

Writing log data	
Bytes received : Current options:	53084 With config; Start new log file after 20 MBytes data logged
Files already written:	0
Disk space limit for log file(s):	500 MB Hide Viewer
	LogOff

Figure 2: Logging Menu

Related links

Snapshots on page 18

Viewing a Snapshot

About this task

You can use System Status to view previously saved snapshots. While viewing a snapshot, the **Properties** and **Close** menu options replace **Snapshot** and **LogOff**. The **Properties** option shows who took the snapshot and when.

Before you begin

Note that when viewing a snapshot, controls relating to live information capture such as **Refresh**, and controls that alter the system state such as **Clear Alarm History**, are not available.

Replay	\mathbf{X}			
Current View at Time : 28/08/07 13:48:01-507 ms (System uptime 1637659507 ms) Play forward	_			
100 ms 1 s 10 s				
1 min 10 min 1 h				
Play until 2007 - 08 - 28 13 : 48 : 01				
Stop Press a button to continue				
Marker				
Move To StartOrUpdates 28/08/07 13:47:54-185 ms				
Set Marker Delete Marker				

Figure 3: The Snapshot Playback Menu

To open a snapshot

Procedure

- 1. From the Logon menu, click the Offline tab:
- 2. Click Select a file....
- 3. Locate the saved snapshot SSH or SLO file and click **Open** to display the file.
- 4. For snapshot log file, the menu bar option **Replay** displays a menu for controlling the playback of the log file.

Related links

Snapshots on page 18

Opening a Configuration

About this task

If the snapshot file includes a copy of the system configuration, you can use IP Office Manager to view that configuration.

Procedure

- 1. Start IP Office Manager.
- 2. Select File > Offline > Open File....
- 3. In the Files of type drop-down list, select Snapshot Files (*.ssh, *.slo)
- 4. Browse to the location of the saved snapshot file.
- 5. Select the file and click **Open**.

Related links

Snapshots on page 18

Part 2: Status Menus

Chapter 3: System

Path: System

When you first log on, System Status displays the **System Hardware Summary** screen. This screen details information about the system and the various installed cards and modules. The information varies depending on the type of system.

	System	System Hardware Summary							
Ħ	Control Unit (IP500 V Alarms (4)	Control Unit: IP500)V2 Curr fice Boo	rent Firmware:	10.0.0.0 bi	uild 137 mary			
	Trunks (4) Active Calls Resources Voicemail JP Networking	SD Card Slots:							
		Slot Name System		SanDisk SD04G, 4096 MB					
	Locations	Optior	nal			not pre	esent		
		Control Unit Slots:							
		1				Empty			
		2	В	ase: Combo DS	6/Phone 2/	VCM10	Da	aughter card: ATM4	
	3			Base: Phone 8			Da	aughter card: None	
		4		Empty					
		External Modules:							
		Module Number		Туре			Current Firmw	vare	
		1			not present				
		2		not present					
		3		not present					
		L							T
		Details Shut	down System	Backup Syst	em Files	Restore Sys	stem Files	Clear Boot Flags	

Figure 4: IP500 V2 System Summary

■ ► System ■ Hard Disks		System Hardware Summary		
 H.323 Extensions Alarms (4) Extensions (3) 	Control Unit: IP Office Line Edition: Server (Prime	x PC Current Firmware: 10.0.0.0 build 152 ary)		
Trunks (0) Active Calls Resources Voicemail	Upgrade State: Idle UNDER INTEGRATED MANAGEMENT CONTROL Contact Information: Server Edition Solution			
IP Networking Locations	HD Drive Slots: Slot Name			
	System	WDC WD800JD-00LSA0, 73579 MB		
	Control Unit Services:			
	Service Number	Service: Software Media Server		
	2	Service: one-X Portal		
	3	Service: Voicemail Pro		
	4	Service: Contact Recorder		
	Details Backup System	Files Restore System Files		

Figure 5: Linux-based System Summary

Buttons

The following buttons can appear on this screen:

Button	Description
Summary	Return to the System Hardware Summary menu. See System on page 23.
Shutdown System	Shutdown the system either for a period of time after which it automatically restarts or until manually restarted.
Backup System Files	Backup the files in the systems /primary folder to the /backup folder.
Clear Boot Flags	IP500 V2 only. During system booting various flags are set indicating from which source the system booted, etc. Occasionally it may be required to clear those flags.

Related links

System Hardware Details on page 25 Memory Cards on page 26 Hard Disks on page 28 Expansion Modules on page 29 Control Unit on page 29 H.323 Extensions on page 31 SIP Extensions on page 32 IP DECT Systems on page 33 SIP Application Servers on page 36 SIP DECT Base Stations on page 36 VoIP Trunks on page 38 VoIP Security on page 39

System Hardware Details

Path: System

Alarms (4) Extensions (16)			System Hardware Deta	aile	
Extensions (16)			njotom maranaro bota	uno	
	Control Unit:	IP500 V2	Current Firmware:	10.0.0.0 build 137	
Frunks (4) Active Calls	Loader Version:	P14Loader v1.35	CPU Version:	MPC8248 CPU Rev	ision 0x0c10
Resources	Board Version:	0x2	PLD Version:	0x23	
Voicemail IP Networking	Options Present:	0xA902	FPGA:	Id=0x1, Issue=0x	0, Build=0x827
Locations			RTC Last Update:	05/06/2015 09:58:	54
	LAN1 MAC Address:	00-E0-07-05-3B-1D	LAN2 MAC Address:	00-E0-07-85-3B-1E)
	Edition:	IP Office	Boot Location:	System Primary	
	SD Card Slots: Slot Name				
	:	System		S	anDisk SD04G, 4096 MB
	Optional	notpresent			
	Slot Number				
	1			Empty	
	2 Base:	: Combo DS 6/Phone 2/VCI	410, Board version=0x0,	PLD version=0x4	Daughter card: ATM4, B
	3	Base: Phone 8, Board	version=0x4, PLD versio	n=0x3	Daug
	4			Empty	
	External Modules:				•

Figure 6: IP500 V2 System Details

÷	System			Sy	System Hardware Details		
÷	Extensions (3)	Control Unit:	IP Office Line	ux PC	Current Firmware:	10.0.0.0 build 152	
	Active Calls	LAN1 MAC Address:	00-01-6C-EF	-7D-0E	CPU Version:	Intel(R) Pentium(R) 4 CPU 3.20GHz	
	Resources Voicemail	Edition:	Server (Primary)		RTC Last Update:	05/06/2015 10:23:55	
	IP Networking Upgrade State	Upgrade State:	Idle				
	Locations	UNDER INTEGRATED Contact Information:	MANAGEMEN Server Editio	T CONTROL n Solution			
		HD Drive Slots:					
		Slot Name					
		System	System		WDC WD800JD-00LSA0, 73579 MB		
		Control Unit Services	:				
		Service Number					
		1			Servi	ce: Software Media Server	
		2				Service: one-X Portal	
		3		Service: Voicemail Pro			
		4			Service: Contact Recorder		
				· · · · · · · · · · · · · · · · · · ·			
		Summary Ba	ckup System F	iles <u>R</u> es	tore System Files		

Figure 7: Linux-based System Details

Buttons

The following buttons can appear on this screen:

Button	Description
Summary	Return to the System Hardware Summary menu. See <u>System</u> on page 23.
Shutdown System	Shutdown the system either for a period of time after which it automatically restarts or until manually restarted.
Backup System Files	Backup the files in the systems /primary folder to the /backup folder.
Clear Boot Flags	IP500 V2 only. During system booting various flags are set indicating from which source the system booted, etc. Occasionally it may be required to clear those flags.

Related links

System on page 23

Memory Cards

Path: System > Memory Cards

You can select this screen on systems where the control unit is fitted with an additional memory card or cards.

Help Snapshot LogOff Exit	About				
System	Memory Card Status				
System SD	Card: System	1			
Optional SD	Variant: SD04G	-			
SIP Extensions	5ize: 4096 M	18 - 1 6%			
 Alarms (3) Extensions (17) 	State: Active				
Trunks (6) Active Celle	Register	Register Value			
		0x0353445344303447807	08f6ba4009213		
	CSD	0x400e00325b5900001d8	a7f800a4040b9		
IP Networking	SCR	0x0235000000000000			
Ŭ					
	SSR	0×000000000200000020 0000000	290000d050000000000000000000000000000000		
	Register Field	Field Value	Formatted Value		
	CID:MID	0x03	SanDisk		
	CID:OID	0x5344	SD		
	CID:PNM	0x5344303447	SD04G		
	CID:PSN	0x708f6ba4	1888447396		
	CID:MDT	0x0092	February 2009		
	SCRISD_SPEC	UXUU	Version 2.00 Compliant		
	SOR: SPEED_CLASS	UXUZ	Class 4		
	Defined	dauna Chank I ta	Care Surban Carel Damak Disk Care A		
	<u>Rerresh</u>	scare Up	Copy system Card Format Print Save As		

Figure 8: System SD Status Menu

Buttons

The following buttons can appear on this screen:

Button	Description
Refresh	Updates the screen. This button appears on screens that do not update automatically.
Shutdown	Memory card. Shuts down the services provided by the memory card, including embedded voicemail. Once shutdown, the system switches of the card LED and you can safely remove the card.
Start Up	Restart a shutdown memory card.
Copy System Card	This option is available for IP500 V2 control units fitted with a System SD and Optional SD card. When selected, the system copies the contents of the System SD card to the Optional SD card. Note that this process can take several hours.
Format	This option is available for IP500 V2 memory cards. When selected, the system formats the card, erasing all existing contents.
Save As	Saves the information shown on the screen to a text file (TXT or CSV). You can only save trace screens as CSV text files.

Related links

System on page 23

Hard Disks

Path: System > Hard Disks

System Status shows this option for Linux-based systems. It allows selection of a system hard disk to display details of that disk.

Help Snapshot LogOff Exit	About
■ System ■ ▶ Hard Disks System HDD	Select a slot to display the Hard Disk Status
Extensions (1) Extensions (0) Trunks (0) Active Calls	System HDD
E Resources Voicemail IP Networking	



Help Snapshot LogOff Exit About					
 ■ System ■ Hard Disks ▶ System HDD ■ ▲ Alarms (1) Extensions (0) Trunks (0) Active Calls 	Hard Disk ariant: WDC ize: 73579 MB ree Space: 59077 MB	rd Disk Status			
■ Resources ■ Voicemail ■ IP Networking	Refresh Print Save As				

Figure 10: System Hard Disk

Buttons

The following buttons can appear on this screen:

Buttons	Description
Refresh	Updates the screen. This button appears on screens that do not update automatically.
Print	Prints all information available in the current screen (including any information currently scrolled off).
Save As	Saves the information shown on the screen to a text file (TXT or CSV). You can only save trace screens as CSV text files.

Related links

System on page 23

Expansion Modules

Path: System > Expansion Modules

This screen lists the external expansion modules installed in the system. To view details of an individual port, use the navigation pane or select the port and click **Select**.

Buttons

The following buttons can appear on this screen:

Buttons	Description
Select	Show details for the currently selected item.

Related links

System on page 23

Control Unit

Path: System > Control Unit

This screen shows the devices installed in the control unit ports. The number of available ports and the types of devices will vary according to the type of control unit. Select a device to display information on it.

Help Snapshot LogOff Exit	About
 System Memory Cards Control Unit (IP50) 	Select an internal module to display its por
Alarms (2) Extensions (24)	Slot 1 TCM Phones Module (8)
Irunks (10) Active Calls Resources	Slot 1 Trunk Module (Quad BRI)
 Voicemail IP Networking 	Slot 2 Combo Phones/VCM Module (8)
Locations	Slot 2 Trunk Module (Dual BRI)
	Slot 3 Trunk Module (ATM4)
4 111 1	Select

Figure 11: The Control Unit Menu

Buttons

The following buttons can appear on this screen:

Buttons	Description
Select	Show details for the currently selected item.

Related links

<u>System</u> on page 23 <u>Extension Ports</u> on page 30 <u>Trunk Ports</u> on page 30

Extension Ports

Path: System > Control Unit > Slot

Path: System > Expansion Modules > Module > Port

This screen shows the individual ports on the selected device in a control unit slot. The number of available ports and the types of devices will vary according to the type of control unit.

Buttons

The following buttons can appear on this screen:

Button	Description
Select	Show details for the currently selected extension. See <u>Extension Status</u> on page 63.

Related links

Control Unit on page 29

Trunk Ports

Path: System > Control Unit > Slot

Path: System > Expansion Modules > Module > Port

Select a port to display data for digital trunks. The number of available ports and the types of devices will vary according to the type of control unit.

Buttons

The following buttons can appear on this screen:

Button	Description
Select	Show details for the currently selected trunk. See <u>Status (Analog Trunk)</u> on page 68, <u>Status (Digital Trunk)</u> on page 71, <u>Status (H.323 Trunk)</u> on page 73 or <u>Status (SIP Trunk)</u> on page 76.

Related links

Control Unit on page 29

H.323 Extensions

Path: System > H.323 Extensions

This screen lists the different types of H.323 IP telephones connected to the system. To see further details, use the navigation pane or select the type of phones required and click **Select**.

Buttons

The following buttons can appear on this screen:

Buttons	Description
Select	Show details for the currently selected item.

Related links

<u>System</u> on page 23 <u>Avaya IP Phones</u> on page 31 <u>Unregistered IP Phones</u> on page 32

Avaya IP Phones

Path: System > H.323 Extensions > Avaya IP Phones

This menu displays a list of the Avaya H.323 IP phones registered with the system. Doubleclicking on an extension displays the extension status . Alternatively, select the extension and then click on the **Select** button.

Buttons

The following buttons can appear on this screen:

Button	Description
Select	Show details for the currently selected extension. See <u>Extension Status</u> on page 63.
Reregister	This option can be used to force Avaya IP phones to reregister without restarting.
Restart	This option can be used to force Avaya H.323 IP phones to restart. When the phone restarts, they checking their current firmware against that available on the configured file server. We recommend that only small groups of up to 15 phones restart at any time. Attempting to restart larger numbers of phones can cause System Status to appear to frozen.

Related links

H.323 Extensions on page 31

Unregistered IP Phones

Path: System > H.323 Extensions > Unregistered IP Phones

This menu displays known H.323 extensions that are currently unregistered. This menu is supported from Release 10.1.

- It may take several minutes for a previously registered extension to become listed as unregistered.
- Unregistered does not include temporary extensions (those that only exist as dynamic extensions whilst registered rather than as configured extension entries).
- DECT extensions don't show as unregistered.
- No extension status screen is available for unregistered extensions.
- Centralized branch extensions show as unregistered during normal operation.

😵 Note:

Unregistered extensions cannot display extension status.

Related links

H.323 Extensions on page 31

SIP Extensions

Path: System > SIP Extensions

This screen lists the different types of SIP telephones connected to the system. To see further details, use the navigation pane or select the type of phones required and click **Select**.

Buttons

The following buttons can appear on this screen:

Buttons	Description
Select	Show details for the currently selected item.

Related links

<u>System</u> on page 23 <u>Avaya SIP Endpoints</u> on page 32 <u>Standard SIP Endpoints</u> on page 33

Avaya SIP Endpoints

Path: System > SIP Extensions > Avaya SIP Endpoints

This menu displays a list of the Avaya SIP phones registered with the system. Double-clicking on an extension displays the extension status. Alternatively, select the extension and then click on the **Select** button.

Buttons

The following buttons can appear on this screen:

Button	Description
Select	Show details for the currently selected extension. See <u>Extension Status</u> on page 63.
Reregister	This option can be used to force Avaya IP phones to reregister without restarting.

Related links

SIP Extensions on page 32

Standard SIP Endpoints

Path: System > SIP Extensions > Standard SIP Endpoints

This menu displays a list of the non-Avaya SIP phones registered with the system. Double-clicking on an extension displays the extension status. Alternatively, select the extension and then click on the **Select** button.

Buttons

The following buttons can appear on this screen:

Button	Description
Select	Show details for the currently selected extension. See <u>Extension Status</u> on page 63.
Reregister	This option can be used to force Avaya IP phones to reregister without restarting.

Related links

SIP Extensions on page 32

IP DECT Systems

Path: System > IP DECT Systems

This menu displays details of the IP DECT systems connected to the system.

Help Snapshot LogOff Abou	ıt						
 System Hard Disks H 222 Extensions 		Select a sys	tem to display	the IP DECT §	System Status		
	Line Number/Primary Node	Master	Master Status	Standby	Standby Status	Active PBX	Extensions
E P DECT Systems	240	172.29.40.29	Active	172.29.40.32	Active	Primary (this PBX)	384
IP DECT System .	172.29.40.17	172.29.40.33	Up	172.29.40.34	Up	Primary	16
A Alarms (9) Extensions (3) Trunks (0) Active Calls Resources Voicemail IP Networking Locations							
	Select						

Figure 12: The IP DECT Systems Menu

Buttons

The following buttons can appear on this screen:

Buttons	Description	
Select	Show details for the currently selected item.	

Related links

System on page 23 IP DECT System on page 34

IP DECT System

Path: System > IP DECT Systems > IP DECT System

This menu displays details of a selected IP DECT system. Double-clicking on an extension displays the extension status. Alternatively, select the extension and then click on the **Select** button.

Help Snapshot LogOff About						
■ System ■ Hard Disks ■ H.323 Extensions ■ IP DECT Systems (1) ■ ▶ IP DECT System 220 ■ ▲ Alarms (9) ■ Extensions (3) Trunks (0) Active Calls	Node Address: Type: Master IP Address: Master Status: Standby Master IP Address: Standby Master Status: Extensions:	172.29.40.17 DECT R4 172.29.40.33 Up 172.29.40.34 Up	IP DECT System Status			
	Extension Number	Δ	Telephone Type	Active Location	Connection	
Locations	705 706 707 708 709 710 711 712 713 713 714 715		3740 3725 3725 3725 3725 3725 3725 3725 3725	LOCAL LOCAL LOCAL LOCAL LOCAL LOCAL LOCAL LOCAL LOCAL LOCAL LOCAL LOCAL	Primary PBX - Master Primary PBX - Master	
<	Pause Switch to Primary	Node	itch to Backup Node Unsubscribe			

Figure 13: The IP DECT System Menu

Buttons

The following buttons can appear on this screen:

Button	Description
Select	Show details for the currently selected extension. See <u>Extension Status</u> on page 63.
Pause	Stops the screen from updating. The button label and function changes to Resume when the screen is paused.
Resume	Resumes updating screen in real time. When pressed, the button label and function changes to Pause .
Select	Show details for the currently selected extension. See <u>Extension Status</u> on page 63.
Switch to Backup Node	Switch the IP DECT system to the backup system.
Switch to Primary Node	Switch the selected IP DECT user back to the primary system.

Related links

IP DECT Systems on page 33

SIP Application Servers

Path: System > SIP Application Servers

This menu displays details of the SIP application servers connected to the system.

Buttons

The following buttons can appear on this screen:

Buttons	Description
Select	Show details for the currently selected item.

Related links

<u>System</u> on page 23 <u>SIP Application Server</u> on page 36

SIP Application Server

Path: System > SIP Application Servers > Application Server

This menu displays details of the SIP application server connected to the system.

Buttons

The following buttons can appear on this screen:

Button	Description
Pause	Stops the screen from updating. The button label and function changes to Resume when the screen is paused.
Resume	Resumes updating screen in real time. When pressed, the button label and function changes to Pause .
Synchronize	Used for the ACCS SIP application server. Causes a manual synchronization of the agents between the application server and the telephone system.

Related links

SIP Application Servers on page 36

SIP DECT Base Stations

Path: System > SIP DECT Base Stations

This menu lists the D100 SIP base stations configured on the IP Office system using SIP DECT lines.
Help Snapshot LogOff Ex	kit About			
 System Hard Disks 	Sele	ect a base station to disp	olay the Base Station Sta	itus
H.323 Extensions SIP DECT Base S	Name	Line Number	IP Address	Firmware Version
SIPDECT	SIPDECT	230	0.0.0.0	
🗉 IP DECT Systems ('				
🗄 🎂 Alarms (7)				
± Extensions (2)				
Active Calls				
± Resources				
± Voicemail				
IP Networking				
Locations				
	Refresh Select	Allow Registration Rese	t Base Reset Base To D	efault
< Ⅲ ►	Reset Base Admin Pass			

Figure 14: SIP Base Stations Menu

The following buttons can appear on this screen:

Button	Description
Refresh	Updates the screen. This button appears on screens that do not update automatically.
Select	Show details for the currently selected item.
Allow Registration	Allow handset registration on the selected SIP DECT base station.
Reset Base to Default	Reset the selected SIP DECT base station to its factory default settings.
Reset Base Admin Pass	Reset the selected SIP DECT base station's administration password.

Related links

System on page 23 Base Station on page 37

Base Station

Path: System > SIP DECT Base Stations > Base Station

This menu lists information for the select SIP DECT base station.

System

Help Snapshot LogOff Exit	About	
System Hard Disks		Base Station Status
 II H.323 Extensions ■ SIP DECT Base Stat ▶ SIPDECT II P DECT Systems (* II P DECT Systems (*) II Extensions (2) Trunks (0) Active Calls Resources Voicemail II Networking 	Name: Line Number: Type: IP Address: MAC Address: Firmware Version: Hardware Release: Market: Handsets	SIPDECT 230 D 100 Base Station 0.0.0.0 00-00-00-00-00 Unknown
Locations	Id Allow Refresh	Extension Number Firmware Version Hardware Version Registration Reset Base Reset Base To Default Reset Base Admin Pass Reset Handset Unregister All Handsets Reset All Handsets

Figure 15: SIP DECT Base Station Menu

Buttons

The following buttons can appear on this screen:

Button	Description
Allow Registration	Allow handset registration on the selected SIP DECT base station.
Reset Base	Reset (reboot) the selected SIP DECT base station.
Reset Base to Default	Reset the selected SIP DECT base station to its factory default settings.
Reset Base Admin Pass	Reset the selected SIP DECT base station's administration password.
Reset Handset	Reset the selected SIP DECT handset.
Reset All Handsets	Reset all handsets registered to the selected SIP DECT base station.
Unregister Handset	Unregister the select SIP DECT handset from the base station.
Unregister All Handsets	Unregister all the handsets from the selected SIP DECT base station.

Related links

SIP DECT Base Stations on page 36

VoIP Trunks

Path: System > VoIP Trunks

This screen lists the VoIP trunks configured within the system. To view details of an individual trunk, use the navigation pane or select the port and click **Select**.

The following buttons can appear on this screen:

Button	Description
Select	Show details for the currently selected trunk. See <u>Status (H.323 Trunk)</u> on page 73 or <u>Status (SIP Trunk)</u> on page 76.

Related links

System on page 23

VoIP Security

Path: System > VoIP Security

These menus are supported in Release 10.1 onwards.

Buttons

The following buttons can appear on this screen:

Buttons	Description
Select	Show details for the currently selected item.

Related links

System on page 23 Quarantined Phones on page 39 Blacklisted Extensions on page 41 Blacklisted Addresses on page 42

Quarantined Phones

Path: System > VoIP Security > Quarantined Phones

This menu displays phones that have previously been registered but are now blocked from re-registering because another phone has subsequently registered using the same registration parameters. This blocked state is called 'quarantined'. This menu is supported from Release 10.1.

Help Snapshot LogOff Exit About System Memory Cards Control Unit (IP500 V2)					Quarantined Phone	s List		
VolP Trunks (3)	User Number	IP Address	Private Address	UserAgent	Time Added	Time to be Removed	Registration Instance	Registration ID
SIP Extensions	222	192.72.18.1		Avaya PhoneyPhone 1.2.4.5	21/10/2016 09:33:52	21/10/2016 09:38:52	34567897654456776545678765	1
SIP DECT Base Stations (1)								
VoIP Security								
Blacklisted Extensions Blacklisted Addresses								



For example, when a user who has an already registered SIP phone registers another SIP phone using the same parameters, their previous phone may automatically attempt to reregister itself. In that case, even though the previous phone is presenting correct registration details, its registration is blocked and it is quarantined.

The default quarantine time is 5 minutes. However, if the phone keeps on trying to reregister, its quarantine time is extended. Most phones eventually cease attempting to automatically re-register.

Quarantining is treated separately from blacklisting since the phone has been previously registered with correct authentication parameters.

Columns

Name	Description
User Number	The extension number.
IP Address	The phone's public IP address.
Private Address	The phone's private IP address.
User Agent	The device type string. This can help identify the phone type.
Time Added	The date and time when phone was added to the quarantined phones list.
Time to be Removed	The current date and time when the phone will be removed from the quarantined phones list. This will extend if the phone attempts to re-register again before this time.
Registration Instance	For SIP phones, the protocol parameter used during registration. This can be useful to distinguish between simultaneous phones where whilst 'roaming' and changing the IP address the instance remains fixed.
Registration ID	This is a unique number generated for each device making registration requests.

Buttons

The following buttons can appear on this screen:

Buttons	Description
Print	Prints all information available in the current screen (including any information currently scrolled off).
Refresh	Updates the screen. This button appears on screens that do not update automatically.
Remove	Remove the currently selected entry from the list. This removes any blocking currently applied to that entry.
Remove All	Remove all the current entries from the list. This removes any blocking currently applied to those entries.
Save As	Saves the information shown on the screen to a text file (TXT or CSV). You can only save trace screens as CSV text files.

Related links

VoIP Security on page 39

Blacklisted Extensions

Path: System > VoIP Security > Blacklisted Extensions

This menu displays extensions that have attempted to register using the wrong password. Eventually the extension becomes blocked after 5 failed registration attempts within a 10 minute period. Whilst blocked, further registration attempts are ignored even if they use the correct password. This menu is supported from Release 10.1.

System Memory Cards Control Unit (IP500 V2)				Blackli	sted Extensions Lis	t		
VolP Trunks (3)	Extension Number	Blocked	Avaya Phone	Falure Count	Maximum Failure Count	Last Failure Time	Time to Remove	Time to Unblock
SIP Extensions	222 223	No	Yes	1	5	21/10/2016 09:33:52 21/10/2016 09:33:52	21/10/2016 09:43:52 21/10/2016 09:43:52	
IP DECT Systems (1)								
Quarantined Phones Blacklisted Extensions								

Figure 17: Blacklisted Extensions

The default blocking time is 10 minutes. However, for non-Avaya phones, if the extension continues to attempt to register during this period its blocking time is extended.

When an extension becomes blocked the system also generates an alarm in System Status and adds an entry to its audit log. A system alarm is also generated and can be output using any of the configurable system alarm routes (SMTP, SNMP, Syslog).

Note that the IP address of a phone attempting to register can also become blocked, see <u>Blacklisted Addresses</u> on page 42. A phone may also be blocked from registering if it has become quarantined.

Name	Description
Extension Number	The extension number.
Blocked	Indicates whether the extension is now blocked from registering after exceeding the number of failed registration attempts.
Avaya Phone	Indicates whether the extension is recognized as being an Avaya phone.
Failure Count	The number of registration attempt failures.
Maximum Failure Count	The number of registration failures at which the extensions will become/ became blocked.
Last Failure Time	The date and time of the last failed registration attempt.
Time to Remove	The date and time at which the extension, if not blocked, will be removed from the blacklist if there are no further failed registration attempts.
Time to Unblock	The date and time at which the blocked extension will be unblocked and removed from the blacklist. For non- Avaya phones this will extend if the extension attempts to re-register again before this time. Note that it may take several minutes for a blacklisted extension to be removed from the displayed list.

Columns

Buttons

The following buttons can appear on this screen:

Buttons	Description
Print	Prints all information available in the current screen (including any information currently scrolled off).
Refresh	Updates the screen. This button appears on screens that do not update automatically.
Remove	Remove the currently selected entry from the list. This removes any blocking currently applied to that entry.
Remove All	Remove all the current entries from the list. This removes any blocking currently applied to those entries.
Save As	Saves the information shown on the screen to a text file (TXT or CSV). You can only save trace screens as CSV text files.

Related links

VoIP Security on page 39

Blacklisted Addresses

Path: System > VoIP Security > Blacklisted Addresses

This menu displays IP addresses that are currently blacklisted by the system. Blacklisting is typically applied after 10 failed access attempts, see below, in 10 minutes. The IP address then remains blacklisted for 10 minutes from the last failed access attempt.

Help Snapshot LogOff Exit About								
 System Memory Cards Control Unit (IP500 V2) 					Blacklisted Ad	dresses List		
 UC Modules VolP Trunks (1) 	IP Address	Blocked	Avaya Phone	Failure Count	Maximum Failure Count	Last Failure Time	Time to Remove	Time to Unblock
 H.323 Extensions SIP Extensions 	192.168.0.52	No	Yes	2	10	21/04/2017 09:33:52	21/04/2017 09:43:52	
VoIP Security Quarantined Phones Blacklisted Extensions Blacklisted Addresses								

Figure 18: The Blacklisted Address Menu

When an address becomes blocked, the system also generates an alarm in System Status and adds an entry to its audit log. A system alarm is also generated and can be output using any of the configurable system alarm routes (SMTP, SNMP, Syslog).

Note that the extension number of a phone attempting to register can also become blocked, see <u>Blacklisted Extensions</u> on page 41.

An IP address can become blacklisted for the following reasons:

Extension Registration Blacklisting

An extension that has repeatedly attempted to register an non-existing extension or to register an existing extension with the wrong password. Whilst blacklisted, further registration attempts are ignored even if they use the correct parameters. Note that the extension number of a phone attempting to register can also become blocked, see <u>Blacklisted Extensions</u> on page 41.

The use of IP address blacklisting can be disabled though the addition of the NoUser Source Number B_DISABLE_HTTP_IPADDR.

Application Blacklisting

An application trying to connection on port 443 or 8443 has repeatedly entered the wrong password. That can apply, for example, to web manager, system status and system monitor connections. Whilst blacklisted, further connected attempts are ignored.

The use of IP address blacklisting can be disabled though the addition of the NoUser Source Number B_DISABLE_HTTP_IPADDR.

SIP Invite Blacklisting

Repeated SIP invites to an unregistered extension.

The use of SIP Invite blacklist can be disabled through the addition of the NoUser source number B_DIS_UNREG_SIP_INVITE.

Excessive SIP Traffic Blacklisting

IP address blacklisting can be applied when the number of SIP messages (all types) from the same address exceeds a set rate. The default rate is 100,000 messages in 100 milliseconds. Unlike the options above, this blacklisting can only be manually removed.

The following NoUser source numbers can be used to alter the use of SIP traffic blacklisting:

- B RATE DISABLE disables the functionality (Default = enabled)
- B_RATE_HIGH_LIMIT=X where X is the number of SIP messages allowed within the time threshold. Default = 500, minimum = 1, maximum = 100,000.
- B_RATE_HIGH_THRESH=Y where Y is the time threshold in milliseconds. Default = 100, minimum = 100, Maximum = 300,000 (5 minutes).

Name	Description
IP Address	The blacklisted IP address.
Blocked	Indicates whether the source IP address is now blocked from registering after exceeding the number of failed registration attempts.
Avaya Phone	Indicates whether the source is recognized as being an Avaya phone.
Failure Count	The number of registration attempt failures.
Maximum Failure Count	The number of registration failures at which the IP address will become/ became blocked.
Last Failure	The date and time of the last failed registration attempt.
Time to Remove	The date and time at which the extension, if not blocked, will be removed from the blacklist if there are no further failed registration attempts.
Time to Unblock	The date and time at which the blocked extension will be unblocked and removed from the blacklist. For non- Avaya phones this will extend if the extension attempts to re-register again before this time.
Protocol	The connection protocol being used by the phone or application that is now blocked. For example; H323, SIP or HTTP.
	SIP-Message Limiter is displayed for SIP message blacklisting. In this case, the blacklisting is not automatically removed but can be removed manually.
Client Name	The client name of the blocked application.

The following buttons can appear on this screen:

Buttons	Description
Print	Prints all information available in the current screen (including any information currently scrolled off).
Refresh	Updates the screen. This button appears on screens that do not update automatically.
Remove	Remove the currently selected entry from the list. This removes any blocking currently applied to that entry.
Remove All	Remove all the current entries from the list. This removes any blocking currently applied to those entries.
Save As	Saves the information shown on the screen to a text file (TXT or CSV). You can only save trace screens as CSV text files.

Related links

VoIP Security on page 39

Chapter 4: Alarms

The system records alarms for each device error. It records the number of alarm occurrences and the date and time of the last occurrence. System Status lists the alarms by category and by trunk. Trunk alarms have a separate count for each trunk type and each particular trunk.

System Status distinguishes between the following alarm types:

- Active Current alarms display in red with a symbol. When the alarm is no longer active, it changes to black.
- **Historic** Alarms no longer occurring display in black. The system keeps up to 50 historic alarms. If the system discards any historic alarms due to memory limitations, it keeps a count of the number of discards and the corresponding number of occurrences, shown as **Lost Alarms**.
 - You can clear alarms using the **Clear** or **Clear All** buttons. However, active alarms remain in the list.
 - The system does not preserve alarms during a system reboot.

About this task

To view the alarms in a specific category:

Procedure

- 1. In the navigation panel, click + next to **Alarms**.
- 2. System Status displays the alarm categories followed by the number of alarms.
 - Last System Restart
 - Configuration

Shows alarms caused by potential problems with the system configuration.

Service

Shows alarms for internal services such as licenses, music on hold, network clock, etc.

Trunks

Shows a summary table of the trunks and trunk alarms. You can expand the trunk alarms to display alarms for individual trunks.

• Link

Shows alarms for non-trunk links to the system such as extensions and expansion modules.

3. To view a specific alarm, click the alarm or trunk type.

Related links

Last System Restart on page 46 Configuration Alarms on page 48 Service Alarms on page 48 Trunk Alarms Summary on page 51 Link Alarms on page 55 Call Quality of Service on page 56 Security on page 58

Last System Restart

This screen list details of the last system restart.

Help Snapshot LogOff Exit	About	
 System Memory Cards 		Last System Restart
 Control Unit (IP500 V VoIP Trunks (2) 	Date:	12/11/2012 18:21:17
Line: 17	Reason:	Saved Configuration
Line: 18 Line: 18 Alarms (1) Configuration (0)	User Name:	Administrator
Service (0)		
Call Quality of Servic		
 Extensions (8) Trunks (6) 		
Active Calls		
E Resources		
E Voicemail		
■ IP Networking		
<	Alarm Hist	ory

Figure 19: Alarms Menu

Information Displayed

Information	Description
Date	The date and time the system last restarted.
Reason	Why the system restarted
User Initiated	An administrator used IP Office Manager or similar to reboot the system. System Status displays the administrator account name.

Information	Description
Saved Configuration	An administrator saved a configuration change requiring a system reboot. System Status displays the administrator account name.
Software Upgrade	The software upgrade has caused a reboot.
Normal Power-up	The switch has restarted after power outage.
Abnormal Termination	The switch restarted for another reason. System Status displays a stack trace.

The following buttons can appear on this screen:

Button	Description
Alarm History	Display the alarm history details

Related links

<u>Alarms</u> on page 45 <u>Alarm History</u> on page 47

Alarm History

System Status displays this screen when the **Alarm History** button is pressed.

Help Snapshot LogOff Exit	About			al secondario		
System Alarms (12) Extensions (17) Trunks (10) Active Calls Resources	Last System Restart Date: 06/02/2008 09:15:31 Reason: Saved Configuration Last System Restart					
Licenses Directory	User Name:	Administra	ator			
Control Unit Audit				2 Alarm Ev	ents sinc	e 06/02/2008 09:27:52
Voicemail IP Networking	Event	Туре	Line	Date	Occurren ces	Error Description
Real Andrews and the second	Alarm o	Service		06/02/2008 0	3	Failed to load Hold Music source file
	Alarm o	Service		06/02/2008 0	5	Attempt to use a feature for which no license is installed. License Type: IP500 Universal PRI (Additional Channels)
		r				
< III >	Pause	Print		ve As	lear Alarm	History



Buttons

The following buttons can appear on this screen:

Button	Description
Pause	Stops the screen from updating. The button label and function changes to Resume when the screen is paused.

Button	Description
Resume	Resumes updating screen in real time. When pressed, the button label and function changes to Pause .
Save As	Saves the information shown on the screen to a text file (TXT or CSV). You can only save trace screens as CSV text files.
Clear Alarm History	Clear the historical alarms displayed.

Related links

Last System Restart on page 46

Configuration Alarms

This screen displays configuration alarms. These are alarms arising from configuration errors found during system operation. For example:

- Incoming call routes to a Voicemail Pro start point that does not exist.
- Small Community Network duplicate numbers.
- Calls arriving on a line for the routing is invalid.

These configuration errors do not necessarily match the errors listed by IP Office Manager.

Related links

Alarms on page 45

Service Alarms

The Service Alarm screen shows service error. System Status displays current alarms in red and updates the alarms in real time.

Help Snapshot LogOff Exit	Abo	out					
 System Hard Disks 	Service Alarms						
 H.323 Extensions Avaya IP Phones 		Last Date Of Error	Occurrences	Error Description			
701		15/10/2015 10:00:06	1	Failed to load Hold Music source file			
702		15/10/2015 10:05:18	2	CPU Utilization: Normal			
🗏 🍓 Alarms (6)		15/10/2015 10:27:23	12	NIC/HD I/O Utilization: Normal			
Configuration (0)	Þ	15/10/2015 10:02:47	1	Memory Utilization: Near Capacity			
Service (6) Trunks (0) Link (0)		15/10/2015 13:44:13	109	SSL VPN out of service due to server not being reachable or network failure Service Name: Service0			
Call Quality of Servic Security (0) Extensions (2) Trunks (0)		15/10/2015 13:35:41	1	Logon failed due to incorrect userId/password. Application: SSA User: Administrator PC IP Address: 192.168.0.36			
Active Calls Active Calls Resources Voicemail IP Networking Locations							
III → II	C	lear Cle <u>a</u> r All	Test Alarm	Print			

Figure 21: The Service Alarms Menu

Information Displayed

Information	Description
Last Date of Error	The last time the particular error occurred.
Occurences	How many times the alarm has occurred since the system last restarted or System Status last cleared the alarms.
Error Description	A description of the error that caused the alarm.

Buttons

The following buttons can appear on this screen:

Button	Description
Clear	Clears the selected alarms. If the alarm is still active (red) it remains but with the occurrences count reset to 1.
Clear All	Clears all listed historical alarms that are no longer active. Note that any alarms still active (red) remain but with the occurrences count reset to 1.
Print	Prints all information available in the current screen (including any information currently scrolled off).
Save As	Saves the information shown on the screen to a text file (TXT or CSV). You can only save trace screens as CSV text files.
Test Alarm	Request the IP Office system to send a test alarm.

Related links

<u>Alarms</u> on page 45 <u>Logon Failure Due to User ID/Password</u> on page 50 <u>Feature Key Server Connection Failure</u> on page 51 <u>Resources Not Available</u> on page 51

Logon Failure Due to User ID/Password

This type of alarm details failed attempts to access the system.

Alarm	Description
Manager	This type of alarm occurs for a failed attempt to connect the IP Office Manager application to the system.
Monitor	This type of alarm occurs for a failed attempt to connect the System Monitor application to the system.
User	This type of alarm occurs for a failed user login.
Voicemail Box	This type of alarm occurs for a failed access attempt to a voicemail box.
Voicemail System	This type of alarm occurs for a failed attempt by a voicemail server to connect to the system. The system security settings can require the voicemail server to use a particular security password for connection.
SNMP	This type of alarm occurs if a management system attempts to execute an SNMP request using the wrong community string.
H.323 Extension	This type of alarm occurs if an invalid extension or passcode is been entered on the telephone during registration.
RAS	A dial-in user attempted to connect with the wrong password.
System Status	A login has been attempted from System Status with an invalid user ID or password.

If an alarm has additional information, System Status displays the following:

- Logon failed due to incorrect userId/password.
- Application: YYYYYYYY
- Additional information

The table below lists the additional information displayed for each login alarm type.

Logon Failure	Information
IP Office Manager	Operator name and the IP address of the PC running IP Office Manager
Monitor	IP address of the PC running Monitor
User	User number and name
Voicemail Box	User number and name
Voicemail System	IP address of PC running voicemail
SNMP	IP address of the host attempting SNMP access
H.323 Extension	User and extension number attempted
RAS	RAS user name
System Status	User name and the IP address of the host running System Status

Related links

Service Alarms on page 48

Feature Key Server Connection Failure

If the system cannot connect to the Feature Key Server, System Status displays the following:

"The system was unable to connect to the Feature Key Server."

Feature Key Server IP Address: XXX.XXX.XXX.XXX

Related links

Service Alarms on page 48

Resources Not Available

This type of alarm occurs when the system denies a request to access a resource because there are no resources available. System Status displays: "The following system resources are all in use"

The table below lists the additional information displayed for each login alarm type:

Resource	Data Line
VCM	-
Modem Channels	-
Data Channels	-
Conference Channels	-
Outgoing Trunk Group*	Outgoing Group ID: XX (XX will indicate the Outgoing Group ID)
Voicemail Channels	-
Voicemail Storage	"Voicemail Storage Nearly Full" or "Voicemail Storage Full"

😵 Note:

This occurs when all the lines associated with a particular short code have calls on them.

Related links

Service Alarms on page 48

Trunk Alarms Summary

This screen displays a summary of the trunks in the system and the number of alarms for each. Double-click a line to display its individual trunk alarms.

Help E S A

arms (10)			Select a line to display	the alarm information	
Service (6)	200	Line	Module / Slot / Type	Port Number / Address / D	Alarms
A Trupke (3)	1.1	5	Slot: 2	1	0
Line: 5 (0)	4	6	Slot: 2	2	1
A Line: 6 (4)	4	7	Slot: 2	3	1
A Line: 7 (1)	A	8	Slot: 2	4	1
4 Line: 8 (1)	10	9	Slot: 3	9	0
Line: 9 (0)	2.2	10	Slot: 3	10	0
Line: 5 (0)	1.22	11	Slot: 3	11	0
Line: 10 (0)	100	12	Slot: 3	12	0
Line: 11 (0)	100	13	H.323	192.168.44.1	0
Line. 12 (0)	100	14	H.323	192.168.46.1	0

Figure 22: Trunk Alarms Summary

Buttons

 Extensions (17)
 Trunks (10) Active Calls
 Resources
 Voicemail
 IP Networking

The following buttons can appear on this screen:

Button	Description
Select	Show details for the currently selected item.
Alarm History	Display the alarm history details
24-Hour Performance History	This tab provides a 24-hour view of errors that occur on the line. If no errors have occurred within the last 24-hours, the table displays either zero or blank values.

Related links

<u>Alarms</u> on page 45 <u>Alarms</u> on page 52 <u>24-Hour Performance History</u> on page 54

Alarms

Information Displayed

Information	Description
Last Date of Error	The last time the error that caused a particular alarm occurred.
Occurrences	How many times the alarm has occurred since the system restarted or you last cleared the alarm.

Error Description

The table below details a description of the error that caused the alarm:

Error	Description
Insufficient DID Digits	A user can administer routes based on DID digits by using the MSN routing form. On this form, the user administers how many digits are expected (the Presentation Digits field). If a call is received and the number of digits received do not match the number in the Presentation Digits field, the following is displayed:
	There was a mismatch in the number of DID digits.
	Expected number of digits: XX
	Digits Received: YYYYY
Incoming Call on Outgoing Trunk	On T1/PRI and analog lines, the direction for each channel can be administered to be incoming, outgoing or both. If the channel is outgoing and an incoming call arrives on the channel, the following is displayed: An incoming call arrived on the channel configured for Outgoing calls only.
	Channel Number: XX (for digital lines)
	Port Number: XX (for analog lines)
Trunk Went Out of Service	If the trunk is not administered to be out of service but goes down, the following is displayed:
	Trunk out of service.
Red Alarm Active on Trunk	When a T1/PRI trunk reports a red alarm, System Status displays Red Alarm. A red alarm indicates lost synchronization.
Blue Alarm Active on Trunk	When a T1/PRI trunk reports a blue alarm, System Status displays Blue Alarm. A blue alarm indicates a signal failure.
Yellow Alarm Active on Trunk	When a T1/PRI trunk reports a yellow alarm, System Status displays Yellow Alarm. A yellow alarm indicates a transmission problem.
Loss of Signal on Trunk	This alarm indicates loss of signal from a trunk.
Caller ID not received	For analog loop start trunks set to ICLID, this alarm indicates that the system did not receive any CLI.
Seize Failure	This alarm indicates that the system did not detect loop current when trying to seize the trunk.
Response Failure	The system generates this alarm when it sends a TCP Sync to the remote end of an H.323 trunk and does not receive an acknowledgment and when it sends an INVITE over a SIP trunk which times out.
	No response to IP trunk call request.
	IP Trunk Line Number: xxx
	Remote end IP address: yyy.yyy.yyy

The following buttons can appear on this screen:

Button	Description
Clear	Clears the selected alarms. If the alarm is still active (red) it remains but with the occurrences count reset to 1.
Clear All	Clears all listed historical alarms that are no longer active. Note that any alarms still active (red) remain but with the occurrences count reset to 1.
Print	Prints all information available in the current screen (including any information currently scrolled off).
Save As	Saves the information shown on the screen to a text file (TXT or CSV). You can only save trace screens as CSV text files.

Related links

Trunk Alarms Summary on page 51

24-Hour Performance History

Path: Trunks > Lines > Line > 24-Hour Performance History

The first line in the table displays the current 15-minute interval. Subsequent lines display the last 24-hours divided into 15-minute intervals. Fewer lines appear if the system has been running for less than 24-hours.

Alarms (12)	Alarms 24 H	our Performance Hi	story	Alarms for Li	ne: 5 Slot: 2 Port:	1			
	The number	v in each line indicate	s the number of time	during the 15 minutes it	ntonyal that the error of	oourod By dofau	It the first row is the ou	rrant 15 minuta inta	oval.
Line: 1 (1)	Interval	Error	Bursty Error	Severely Errored	Failed/Unavailable	Bipolar	Clock	Missed	ival.
- 🍊 Line: 3 (1)	Start Time	Seconds	Seconds	Seconds	Seconds	Violation	Slips	Frame	
- 🍊 Line: 4 (1)	12:00								-
— 🚺 Line: 5 (2)	11:45	1					1		
Line: 9 (0)	11:30	1					1		
Line: 13 (0)	11:15	2					2		
Line: 14 (0)	11:00	1					1		
Line: 15 (0)	10:45	1					1		
Line: 16 (0)	10:30	2					2		
🖵 🎂 Link (1)	10:15	1					1		
Extensions (73)	10:00	1					1		
Trunks (10)	09:45	2					2		
Active Calls	09:30	1					1		
Resources	09:15	1					1		
	09:00	1					1		-

Figure 23: 24-Hour Performance History

Buttons

The following buttons can appear on this screen:

Button	Description
Absolute Time	Applies to the 24-Hour Performance History. Each line shows the actual time in 24-hour clock format at which the reported 15-minute period started.

Button	Description
Relative Time	Applies to the 24-Hour Performance History. When selected, for each line, the time value indicates how far into the 15-minute interval the line occurs. For example, 3 minutes appears as 00:03.
Show Blanks	Applies to 24-Hour Performance History. Show any 0 error values as blanks.
Show Zeros	Applies to 24-Hour Performance History. Show any 0 error values as zeros.
Print	Prints all information available in the current screen (including any information currently scrolled off).
Save As	Saves the information shown on the screen to a text file (TXT or CSV). You can only save trace screens as CSV text files.

Related links

<u>Trunk Alarms Summary</u> on page 51 <u>Alarms</u> on page 83

Link Alarms

This screen shows alarms for non-trunk devices linked to the control unit such as expansion modules and extension devices. Current alarms appear in red.

Help Snapshot LogOff Exit	About			No. of Lot of Lo
E System E			Link Alarms	
Configuration (0)	Last Date Of Error	Occurrences	Error Description	
A Trunks (3) A Link (1) Extensions (17)	06/02/2008 09:16:10	1	Server down	
Trunks (10) Active Calls				
Resources Licenses Directory				
Control Unit Audit				
IP Networking				
< u >	Clear Cle <u>a</u> r All	Print	ave As	

Figure 24: The Link Alarms Menu

Information Displayed

Button	Description
Last Date of Error	The last time the error that caused a particular alarm occurred.

Button	Description
Occurrences	How many times the alarm has occurred since the control unit was last restarted.
Error Description	A description of the error that caused the alarm.

The following buttons can appear on this screen:

Button	Description
Clear	Clears the selected alarms. If the alarm is still active (red) it remains but with the occurrences count reset to 1.
Clear All	Clears all listed historical alarms that are no longer active. Note that any alarms still active (red) remain but with the occurrences count reset to 1.
Print	Prints all information available in the current screen (including any information currently scrolled off).
Save As	Saves the information shown on the screen to a text file (TXT or CSV). You can only save trace screens as CSV text files.

Related links

Alarms on page 45

Call Quality of Service

System Status can display QoS measurements for calls on external IP trunks. You can also enabled QoS reporting and alarms for extensions.

Help Snapshot LogOff Exit	t About							
 System Alarms (6) 				Call Q	uality of Service Aları	ns		
Configuration (0) Service (3) A Trunks (3) Link (0) Call Quality of Ser Extensions (8) Trunks (4) Active Calls Resources Voicemail IP Networking	Last Date Of Error	Call ID	Device	IP Address	Peer IP Address	Jitter	Round Trip Delay	Packet Loss
4	Clear Cle <u>a</u> r	All	Print	Save As				

The QoS measurements shown by SSA are not full end-to-end call quality measurements. Whilst they can indicate potential problems, more accurate assessment requires the use of network monitoring tools such as Wireshark. Problem escalation to Avaya require a full network assessment as QoS issues can arise from a range of network factors other than the IP Office system.

When enabled, System Status displays QoS statistics for calls made by H323 IP extensions (1600, 4600, 5600 and 9600 Series) registered to the system. It also displays QoS statistics for other extension types when their call involves a VCM channel. The QoS information for the extension's current call appears in the Extension Status screen.

In the system configuration, you can configure alarm thresholds for jitter (default 20ms), round trip delay (default 350ms) and packet loss (default 0.5%). If a call exceeds any threshold, an alarm occurs reporting the device and call involved and the maximum values of the QoS measurements during the call.

Measure	Description
Round Trip Delay	Default = 350 msec.
	Less than 160ms is high quality. Less than 350ms is good quality. Any higher delay is noticeable by those involved in the call. Depending on the codec used, some delay stems from the signal processing: $G711 = 40ms$, $G723a = 160ms$, $G729 = 80ms$.
Jitter	Default =20 msec.
	Jitter is a measure of the variance in the time for different voice packets in the same call to reach the destination. Excessive jitter will become audible as echo.
Packet Loss	Default = 0.5%.
	Excessive packet loss will be audible as clipped words and may also cause call setup delays.

Buttons

The following buttons can appear on this screen:

Button	Description
Clear	Clears the selected alarms. If the alarm is still active (red) it remains but with the occurrences count reset to 1.
Clear All	Clears all listed historical alarms that are no longer active. Note that any alarms still active (red) remain but with the occurrences count reset to 1.
Print	Prints all information available in the current screen (including any information currently scrolled off).
Save As	Saves the information shown on the screen to a text file (TXT or CSV). You can only save trace screens as CSV text files.

Related links

<u>Alarms</u> on page 45 <u>Quality of Service Alarms</u> on page 58

Quality of Service Alarms

IP Office supports Quality of Service (QoS) monitoring for extensions. System Status displays the current quality of service for a call on the extension's Extension Status form. It displays the information for Avaya H323 IP phones registered with the system. It also displays information for other extension when their call involves a VCM channel.

The thresholds for quality of service alarms are set within the system configuration. Separate thresholds are set for Round Trip Delay (default 350ms), Jitter (default 20ms) and Packet Loss (0.5%). At the end of a call segment that exceeds any of the thresholds, the system outputs a QoS alarm containing details of the call and the maximum value of each of QoS measurement during the call.

Call Quality of Service Alarms

Last Date Of Error	Occurrences	Error Description			
23/01/2009 10:05:21	1	Call Id: 1, IP Address: 192.168.42.111, Peer IP Address: 192.168.42.8, Extension Number: 293, Jitter: 2500, Round Trip Delay: 789000, Packet Loss: 1230			
23/01/2009 10:05:21	1	Call Id: 1, IP Address: 192.168.42.8, Peer IP Address: 192.168.42.111, Extension Number: 300, Jitter: 0, Round Trip Delay: 789000, Packet Loss:			

For calls held or parked and then resumed, separate QoS alarms are output for each segment of the call. If the call involves several extensions, the system outputs separate alarms for each extension.

The QoS measurements shown by SSA are not full end-to-end call quality measurements. Whilst they can indicate potential problems, more accurate assessment requires the use of network monitoring tools such as Wireshark. Problem escalation to Avaya require a full network assessment as QoS issues can arise from a range of network factors other than the IP Office system.

Related links

Call Quality of Service on page 56

Security

This menu provides a summary of the number of security alarms for different connections to the system. Double click on one of the alarms types to display more details.



IP Office System Status

He	Help Snapshot LogOff About					
Ð	System					
	🎂 Alarms (9)	Таріа				
	Configuration (0)	TODE				
	🎂 Service (6)	TLS (3)				
	Trunks (0)					
	Link (0)	SRIP (0)				
	Call Quality of Servic					
	E M Security (3)					
	6 TLS (3)					
	SKTP (0)					
	Trunke (0)					
	Active Calls					
H	Resources					
H	Voicemail					
H	IP Networking					
	Locations					
-	• III •	Select				

Figure 25: The Security Alarms Menu

Buttons

The following buttons can appear on this screen:

Buttons	Description
Select	Show details for the currently selected item.

Related links

Alarms on page 45 TLS on page 59 SRTP on page 60

TLS

This menu displays the TLS alarms that have occurred on connections to the system.

Help Snapshot LogOff Abo	Help Snapshot LogOff About				
🗷 System	B System				
🗏 🍓 Alarms (9)				5 Aldring	
Configuration (0)	Last Date Of Error	Occurrences	IP Address	Peer IP Address	Error Description
🍈 Service (6)					
Trunks (0)	28/08/2014 07:32:52	1	192.168.0.214:411	192.168.0.216:42093	Fatal error on connection
Link (0)	28/08/2014 07:32:55	1	192.168.0.214:411	192.168.0.223:52725	Fatal error on connection
Call Quality of Servic	28/08/2014 14:24:38	2	192.168.0.214:443	192.168.0.6:50377	Fatal error on connection
🗏 🎂 Security (3)					
🕨 🐴 TLS (3)					
SRTP (0)					
Extensions (3)					
Trunks (0)					
Active Calls					
🗄 Resources					
Voicemail					
IP Networking					
Locations					
	Clear Clear All	Print	Save As		
•	Clear Clear All	Print	Save As		



The following buttons can appear on this screen:

Button	Description
Clear	Clears the selected alarms. If the alarm is still active (red) it remains but with the occurrences count reset to 1.
Clear All	Clears all listed historical alarms that are no longer active. Note that any alarms still active (red) remain but with the occurrences count reset to 1.
Print	Prints all information available in the current screen (including any information currently scrolled off).
Save As	Saves the information shown on the screen to a text file (TXT or CSV). You can only save trace screens as CSV text files.

Related links

Security on page 58

SRTP

This menu displays any STRP alarms that have occurred.

H	Help Snapshot LogOff About								
	System Alarms (9)	Γ			SRTP A	Alarms			
	Configuration (0)	l	Last Date Of Error	Occurr IP Address	Peer IP Address	Destination End Party	Originator End Party	Error Description	
	Trunks (0) Link (0) Call Quality of Servic	l							
	E di Security (3)	l							
Ħ	SRTP (0) Extensions (3)	l							
	Trunks (0) Active Calls	l							
₽	Resources Voicemail	l							
Ħ	IP Networking Locations								
•		[Clear Clear A	I Print Sav	ve As				

Figure 27: The SRTP Alarms Menu

Buttons

The following buttons can appear on this screen:

Button	Description
Clear	Clears the selected alarms. If the alarm is still active (red) it remains but with the occurrences count reset to 1.
Clear All	Clears all listed historical alarms that are no longer active. Note that any alarms still active (red) remain but with the occurrences count reset to 1.
Print	Prints all information available in the current screen (including any information currently scrolled off).
Save As	Saves the information shown on the screen to a text file (TXT or CSV). You can only save trace screens as CSV text files.

Related links

Security on page 58

Chapter 5: Extensions

You can access information on the status of a specific extension by doing one of the following:

- Via a port that is associated with an analog or digital extension.
- By selecting an H.323 extension.
- By double-clicking **Extensions** and then selecting a specific extension from the navigation panel.
- By double-clicking an extension from the Extension Summary screen.

System Status uses the following method to indicate the port used by an analog or digital extension:

- If the extension is on the control unit, the designation is Control Unit followed by either Phone Port X (where X is the port number) or DS Port X (where X is the port number 1-8).
- If the extension is on an expansion module, the designation is Module XX (where XX is the port number 1-12) followed by Port X (where X is the port number 1-30).

For example:

Extension: 201	Control Unit	DS Port: 1
Extension: 231	Slot: 4	Port: 7
Extension: 271	Module: 4	Port: 1

The port number will always match any number printed against the physical port connector.

For H.323 extensions, the designation is the home user's extension number, the IP address of the extension and the MAC address (only shown if the system and the phone are on the same subnet). For example:

Extension:	IP Address:	MAC Address:		
371	192.168.44.2	AA:AA:AA:AA:AA:AA		

Related links

Extension Summary on page 63 Extension Status on page 63

Extension Summary

The Extension Summary screen displays all extensions in the system. For detailed information about an extension, double-click a specific extension number to display the Extension Status screen.

Help Snapshot LogOff Exi	t About								
System Alarms (2) Extensions (16)	You can get r	nore informat	ion about an ext	Extension by double	on Summary -clicking the Extens	ion Number.			
Trunks (4) Active Calls Resources	Extensio n Number	Current User Extension	Current User Name	Module/ Slot/ IP Address	Port Number/ MAC Address	Telephone Type	Number of New Messages	Standard Location	
+ Voicemail	201			Slot: 2	1	unplugged		None	
+ ID Networking	202	202	Extn202	Slot: 2	2	9504	0	None	
Locations	203	203	Extn203	Slot: 2	3	9508	0	None	
Locations	204			Slot: 2	4	unplugged		None	
	205			Slot: 2	5	unplugged		None	
	206			Slot: 2	6	unplugged		None	
	207	207	Extn207	Slot: 2	7	POT (CLI On)	0	None	Ξ
	208	208	Extn208	Slot: 2	8	POT (CLI On)	0	None	
	209	209	Extn209	Slot: 3	1	POT (CLI On)	0	None	
	210	210	Extn210	Slot: 3	2	POT (CLI On)	0	None	
	211	211	Extn211	Slot: 3	3	POT (CLI On)	0	None	
	212	212	Extn212	Slot: 3	4	POT (CLI On)	0	None	
	213	213	Extn213	Slot: 3	5	POT (CLI On)	0	None	-
	214	214	Extn214	Slot: 3	6	POT (CLI On)	0	None	-

Figure 28: Extension Summary Menu

Buttons

The following buttons can appear on this screen:

Buttons	Description
Refresh	Updates the screen. This button appears on screens that do not update automatically.
Print	Prints all information available in the current screen (including any information currently scrolled off).

Related links

Extensions on page 62

Extension Status

This screen provides specific details on a selected extension. The information and controls displayed varies depending on the type of extension.

Information Displayed

Information	Description
Extension Number	The default extension number for this telephone.
Module/Slot/IP Address	Module number, slot details, or IP address.
Private IP Address	For an extension connected via NAT, indicates the private IP address.
Port/MAC Address	Port number or MAC address of the control unit.
Active Location	The current location of the extension set in the system configuration or determined by the location API.
Gatekeeper	The current gatekeeper with which the extension is registered.
Telephone Type	The telephone model.
Firmware Version	The firmware version reported by the telephone device.
Media Stream	Indicates whether the extension is configured to use RTP or SRTP . Best Effort indicates that it is configured to use SRTP if possible but otherwise fallback to RTP.
Layer 4 Protocol	Indicate whether the extension is set to use TCP or TLS .
Current User Extension Number	The extension of the user currently logged into the telephone.
Current User Name	The name of the user currently logged into the telephone.
Forwarding	Set to Off or any of the following options:
	Forward Unconditional + Number
	Forward On Busy + Number
	Forward On No Answer + Number
	• Follow Me + Number
Twinning	Set as Off or to one of the following options:
	• Twinned as Primary with + Secondary User Name/Number
	• Twinned as Secondary with + Primary User Name/Number
	Twinned to External Number + External Number
	•
Do Not Disturb	Indicates whether the user has do not disturb enabled.
Message Waiting	The current status of the extension user's message waiting indicator.
Number of New Messages	The number of new messages for the current user. This does not include hunt group messages.
Phone IP Office Manager Type	Indicates the type of Phone Manager for configured for the extension user.

Information	Description
Quality of Service Fields	The following addition items are available for calls by Avaya H323 phones and for other extension types when their current call uses a VCM channel. See <u>Call</u> <u>Quality of Service</u> on page 56.
	Packet Loss Fraction
	• Jitter
	・Round Trip Delay
	Connection Type
	• Codec
	Remote Media Address
Call Information Table	The information displayed in the table depends on whether the extension has call appearances. For an extension without call appearances (e.g. T3, softphone, third party H.323 or analog), the table shows as many rows as there are currently calls, or a single row if the phone is idle. The following appears for a telephone with call appearances:
	 Button Number – The number associated with the button on the telephone, if applicable.
	• Button Type – Call, Line, Bridged or Cover Appearance button, if applicable.
	• Call Ref – Call reference, assigned by the system and associated with the line in use. When a trace is in progress, any calls on the trunk will show (i) next to the Call Ref. If you select Call Details while a trace is in progress, the screen remains unchanged and a pop-up window appears which contains details about the selected call. The pop-up shows the state of the call at the time of selection and does not update. See <u>Trace</u> on page 80.
	 Current State – The current state of the call associated with the button. See <u>Call States (Extension)</u> on page 100.
	• Time in State – Reset to zero each time there is a state change.
	 Caller ID or Dialed Digits – The information displayed depends on the call direction.
	- Incoming Calls – The Caller ID name and number. System Status displays None if the system received no caller ID.
	- Outgoing Calls – The digits sent to the central office.
Direction of Call	Displays the call as either Incoming or Outgoing .

Other Party on Call

Contains one of the following:

Where Call was Originated/Answered	Displayed Value
User	User name and number

Where Call was Originated/Answered	Displayed Value
VoiceMail Call flow	Start Point name
Voicemail Box	Voicemail - user name or hunt group name of the mailbox
Data Service	RAS - service name
Conference	Conference name
Trunk	Line ID/URI Group/Channel number
Park Slot	Park Slot - when the other end has parked the call
Announcement	Announcement - the hunt group associated with the announcement number
Hunt Group	Hunt Group - name and number when a call is in a hunt group queue (not alerting)

The following buttons can appear on this screen:

Button	Description
Back	Returns to the previous screen.
Call Details	Displays call details for the selected call, trunk or trunk channel.
Clear All Dynamic Locations	Third-party applications can use the system's location API to dynamically set the location of extensions. This button clears the dynamic location information currently held for all extension.
Reregister	This option can be used to force Avaya IP phones to reregister without restarting.
Restart	This option can be used to force Avaya H.323 IP phones to restart. When the phone restarts, they checking their current firmware against that available on the configured file server. We recommend that only small groups of up to 15 phones restart at any time. Attempting to restart larger numbers of phones can cause System Status to appear to frozen.
Resume	Resumes updating screen in real time. When pressed, the button label and function changes to Pause .
Pause	Stops the screen from updating. The button label and function changes to Resume when the screen is paused.
Ping	Perform a Ping action from the selected interface (system, line or extension) and display the results. See <u>Ping</u> on page 116.
Print	Prints all information available in the current screen (including any information currently scrolled off).
Trace	Starts a trace of the rows selected. System Status displays a trace for each call associated with the selected trunk or extension. See <u>Trace</u> on page 80.
Trace All	Starts a trace for the whole trunk group or extension. System Status displays a trace for all calls associated with the trunk or extension. See <u>Trace</u> on page 80.

Button	Description
Save As	Saves the information shown on the screen to a text file (TXT or CSV). You can only save trace screens as CSV text files.
Unsubscribe	Force an IP DECT extension to unsubscribe.

Related links

Extensions on page 62

Chapter 6: Trunks

Path: Trunks

This screen shows a list of the trunks installed and configured in the system.

Buttons

The following buttons can appear on this screen:

Button	Description
Select	Show details for the currently selected trunk. See <u>Status (Analog Trunk)</u> on page 68, <u>Status (Digital Trunk)</u> on page 71, <u>Status (H.323 Trunk)</u> on page 73 or <u>Status (SIP Trunk)</u> on page 76.

Related links

Status (Analog Trunk) on page 68 Status (Digital Trunk) on page 71 Status (H.323 Trunk) on page 73 Status (SIP Trunk) on page 76 Line Protocols on page 80 Trace on page 80 Utilization Summary on page 81 Alarms on page 83 Line Testing on page 86

Status (Analog Trunk)

Path: Trunks > Lines > Line



Figure 29: Trunk Status (Analog Trunk)

Information Displayed

System Status displays the following information under the Status tab:

Name	Description
Slot/Module	Slot or module number.
Number of Trunks	Total number of trunks.
Number of Administered Trunks	Number of channels configured as in service.
Number of Trunks in Use	-
Ports Table	See the <i>Ports</i> table below.
Direction of Call	Displays the call as either Incoming or Outgoing .
Other Party on Call	See the Other Party on Call table below.

Ports Table

This table displays the following details:

Element	Description
Port	The port number.
Line ID	The line, module, and port number.

Element	Description
Line Type	The type of line protocol
Call Ref	Call reference, assigned by the system and associated with the line in use. When a trace is in progress, any calls on the trunk will show (i) next to the Call Ref. If you select Call Details while a trace is in progress, the screen remains unchanged and a pop-up window appears which contains details about the selected call. The pop-up shows the state of the call at the time of selection and does not update. See <u>Trace</u> on page 80.
Current State	The current state of the call associated with the button. See <u>Call States</u> (<u>Trunk</u>) on page 101.
Time in State	Reset to zero each time there is a state change.
Caller ID or Dialed Digits	 The information displayed depends on the call direction. Incoming Calls – The Caller ID name and number. System Status displays None if the system received no caller ID. Outgoing Calls – The digits sent to the central office.

Other Party on Call

Contains one of the following:

Where Call was Originated/Answered	Displayed Value
User	User name and number
VoiceMail Call flow	Start Point name
VoiceMail Box	Voicemail - user name or hunt group name of the mailbox
Data Service	RAS - service name
Conference	Conference name
Trunk	Line ID/URI Group/Channel number
Park Slot	Park Slot - when the other end has parked the call
Announcement	Announcement - the hunt group associated with the announcement number
Hunt Group	Hunt Group - name and number when a call is in a hunt group queue (not alerting)

Buttons

The following buttons can appear on this screen:

Button	Description
Call Details	Displays call details for the selected call, trunk or trunk channel.
Resume	Resumes updating screen in real time. When pressed, the button label and function changes to Pause .
Pause	Stops the screen from updating. The button label and function changes to Resume when the screen is paused.

Button	Description
Print	Prints all information available in the current screen (including any information currently scrolled off).
Trace	Starts a trace of the rows selected. System Status displays a trace for each call associated with the selected trunk or extension. See <u>Trace</u> on page 80.
Trace All	Starts a trace for the whole trunk group or extension. System Status displays a trace for all calls associated with the trunk or extension. See $\frac{\text{Trace}}{\text{Trace}}$ on page 80.
Save As	Saves the information shown on the screen to a text file (TXT or CSV). You can only save trace screens as CSV text files.

Related links

Trunks on page 68

Status (Digital Trunk)

Path: Trunks > Lines > Line

Access this menu by clicking **Trunks** on the navigation panel. Alternatively, click **System** and then **Control Unit** and double-click the line.

 System Alarms (10) 	Status (Jtilization S	Summary Al	larms				
 Extensions (17) Trupks (10) 				Digital	Trunk Sum	mary		
Line: 5	Line: 5 Sk	nt: 2 Port: -	1					
Line: 6	Line Type			BRI				
Line: 7	Line Culet			ETCI				
Line: 8	Line Subty	rpe:						
Lines: 9 - 12	Number of	Channels:		2				
Line: 13	Number of	Administe	red Channels:	2				
Line: 14	Number of	Channels	in Use:	0				
Resources	Channel		Comment State	Time in Otata	Daution		Other Deutur	Divertier
Licenses	Number	Ref	Current State	Time in State	Diaits	Dialed Digits	on Call	of Call
Directory	1		Idle	00:49:18	oigito	Dialog Digito		
Control Unit Audit	2		Idle	22:45:41				
- Voicemail					l			
Mailboxes								
IP Networking								
IP Routes								
Tunneis								

Figure 30: Trunk Status (Digital Trunk)

Information Displayed

Name	Description
Line/Slot/Port	The line, slot and port number.
Line Type	See Line Protocols on page 80.
Line Subtype	See Line Protocols on page 80.
Number of Channels	The number of channels the trunk supports.
Number of Administered Channels	The number of channels configured as in service.
Number of Channels in Use	The number of channels currently in use.
Channels Table	See the <i>Channels</i> table below.
Other Party on Call	See the Other Party on Call table below.
Direction of Call	Displays the call as either Incoming or Outgoing .

Channels Table

This table displays the following details:

Element	Description
Channel Number	Click on the row to view details of the call.
Call Ref	Call reference, assigned by the system and associated with the line in use. When a trace is in progress, any calls on the trunk will show (i) next to the Call Ref. If you select Call Details while a trace is in progress, the screen remains unchanged and a pop-up window appears which contains details about the selected call. The pop-up shows the state of the call at the time of selection and does not update. See <u>Trace</u> on page 80.
Current State	The current state of the call associated with the button. See <u>Call States</u> (<u>Trunk</u>) on page 101.
Time in State	Reset to zero each time there is a state change.
Routing Digits	The directed inward dialed digits that are sent by the central office.
Caller ID or Dialed Digits	 The information displayed depends on the call direction. Incoming Calls – The Caller ID name and number. System Status displays None if the system received no caller ID. Outgoing Calls – The digits sent to the central office

Other Party on Call

Contains one of the following:

Where Call was Originated/Answered	Displayed Value
User	User name and number
Where Call was Originated/Answered	Displayed Value
---------------------------------------	--
VoiceMail Call flow	Start Point name
VoiceMail Box	Voicemail - user name or hunt group name of the mailbox
Data Service	RAS - service name
Conference	Conference name
Trunk	Line ID/URI Group/Channel number
Park Slot	Park Slot - when the other end has parked the call
Announcement	Announcement - the hunt group associated with the announcement number
Hunt Group	Hunt Group - name and number when a call is in a hunt group queue (not alerting)

Buttons

The following buttons can appear on this screen:

Button	Description
Call Details	Displays call details for the selected call, trunk or trunk channel.
Resume	Resumes updating screen in real time. When pressed, the button label and function changes to Pause .
Pause	Stops the screen from updating. The button label and function changes to Resume when the screen is paused.
Print	Prints all information available in the current screen (including any information currently scrolled off).
Trace	Starts a trace of the rows selected. System Status displays a trace for each call associated with the selected trunk or extension. See <u>Trace</u> on page 80.
Trace All	Starts a trace for the whole trunk group or extension. System Status displays a trace for all calls associated with the trunk or extension. See $\frac{\text{Trace}}{\text{Trace}}$ on page 80.
Save As	Saves the information shown on the screen to a text file (TXT or CSV). You can only save trace screens as CSV text files.

Related links

Trunks on page 68

Status (H.323 Trunk)

Path: Trunks > Lines > Line

Access this menu by clicking **Trunks** on the navigation panel. Alternatively, click **System** and then **Control Unit** and double-click the line.

Help Snapshot LogOff Exit	About																
😐 System 🗉 🎂 Alarms (3)	Statu	s Ut	ilization :	Summar	y i	Alarm	s										
Extensions (16) Trunks (5)							IP Of	fice Tr	unk Sum	mary							-
Lines:5 - 8	IP Add	ress:				0	.0.0.0										
Active Calle	Line Nu	umber	:			1	7										
	Numbe	er of A	dministe	red Cha	annels:	0											
E Voicemail	Numbe	rofC	hannels	in Use:		0											
IP Networking	Admini	stered	d Compre	ession:		G	711 Mu,	G711 A	, G729 A,	G7231							
Locations	Netwo	rking l	level:			S	SCN										
	Direct	Media	Path:			0	On									=	
	Silence	Supp	ression:			0	Off									-	
	Fax Tr	Fax Transport:					None										
	Media	Strea	n:			R	RTP										
	Transp	ort Pr	otocol:			P	Proprietary										
	Cha	Call	Curr	Time in	Remote Modi	C	Con	Caller	Other Party o	Dire	Round	Rec	Rec	Tran	Tra		
	1	Kei	Out	00:0	Medin			10 0	Failty U		mp						
	2		Out	00:0												a	_
	3		Out	00:0													-
	Trace		Trace /	All	Pause		Ping] <u>C</u> a	all Details	Pri	nt	<u>S</u> av	/e As				

Figure 31: Trunk Status (H.323 Trunk)

Information Displayed

Name	Description
IP Address	The gateway IP address from the VoIP form.
Line Number	Defined in the system configuration.
Number of Administered Channels	Number of channels from the VoIP line tab.
Total Channels in Use	Total of all the channels that have associated call references.
Administered Compression	The compression mode from the VoIP form.
Small Community	The menu displays one of the following:
Networking	 If not configured, the menu displays Disabled.
	• If configured and the other end responds, the menu displays Up .
	• If configured but the other end does not respond, the menu displays Down .
Direct Media Path	Either On or Off .
Enable Faststart	Either On or Off .
Silence Suppression	Either On or Off .
Channels Table	See the Channels Table table.

Channels Table

This table displays the following details:

Element	Description						
Channel Number	Click on the row to view details of the call.						
Call Ref	Call reference, assigned by the system and associated with the line in use. When a trace is in progress, any calls on the trunk will show (i) next to the Call Ref. If you select Call Details while a trace is in progress, the screen remains unchanged and a pop-up window appears which contains details about the selected call. The pop-up shows the state of the call at the time of selection and does not update. See <u>Trace</u> on page 80.						
Current State	The current state of the call associated with the button. See <u>Call States</u> (<u>Trunk</u>) on page 101.						
Time in State	Reset to zero each time there is a state change.						
RTP IP Address from Connection	IP address of the remote end of the RTP Media Stream.						
CODEC	Available via H.323 message and may change throughout the call.						
Connection Type	Either DirectMedia, RTP Relay or VCMs.						
Caller ID or Dialed	The information displayed depends on the call direction.						
Digits	• Incoming Calls – The Caller ID name and number. System Status displays None if the system received no caller ID.						
	Outgoing Calls – The digits sent to the central office.						
Other Party on Call	See the Other Party on Call table.						
Direction of Call	Displays the call as either Incoming or Outgoing .						
Quality of Service (QoS)	Normal data packets can prevent or delay voice data from getting across the link, causing unacceptable speech quality. System Status provides the following information. The system calculates the statistics as defined in RFC 1889.						
	Round Trip Delay						
	Receive Jitter						
	Transmit Jitter						
	Receive Packet Loss						
	Transmit Packet Loss						

Other Party on Call

Contains one of the following:

Where Call was Originated/Answered	Displayed Value
User	User name and number

Where Call was Originated/Answered	Displayed Value
VoiceMail Call flow	Start Point name
VoiceMail Box	Voicemail - user name or hunt group name of the mailbox
Data Service	RAS - service name
Conference	Conference name
Trunk	Line ID/URI Group/Channel number
Park Slot	Park Slot - when the other end has parked the call
Announcement	Announcement - the hunt group associated with the announcement number
Hunt Group	Hunt Group - name and number when a call is in a hunt group queue (not alerting)

Buttons

The following buttons can appear on this screen:

Button	Description
Call Details	Displays call details for the selected call, trunk or trunk channel.
Resume	Resumes updating screen in real time. When pressed, the button label and function changes to Pause .
Pause	Stops the screen from updating. The button label and function changes to Resume when the screen is paused.
Print	Prints all information available in the current screen (including any information currently scrolled off).
Trace	Starts a trace of the rows selected. System Status displays a trace for each call associated with the selected trunk or extension. See <u>Trace</u> on page 80.
Trace All	Starts a trace for the whole trunk group or extension. System Status displays a trace for all calls associated with the trunk or extension. See <u>Trace</u> on page 80.
Save As	Saves the information shown on the screen to a text file (TXT or CSV). You can only save trace screens as CSV text files.

Related links

Trunks on page 68

Status (SIP Trunk)

Path: Trunks > Lines > Line

System Status displays the configured and free SIP Channel license count in the top of the SIP trunk screen. In addition, where the SIP Trunk requires registration, the status of the primary and secondary registration appear in the summary section of the Trunk Status Screen for the SIP trunk.

Help Snapshot LogOff Exit	t About														
System	Statue	utter ate	- a												
Memory Cards		Julizatio	n Summary	Alarms											
Control Unit (IP500 V							S	IP Trunk	Summary						
VolP Trunks (1)	Line Servic	e State		In Serv	ice										
Line: 17	Page Doma	in Name		102.14	.e o 200										
H.323 Extensions	Peer Donia			192.10	0.0.200										
🗏 🎂 Alarms (5)	Resolved A	uuress		192.10	00.0.200										
Configuration (1)	Line Numbe	er:		17											
🍐 Service (2)	Number of	Adminis	stered Channels:	10											
🔳 🎂 Trunks (2)	Number of	Channe	els in Use:	0											
Link (0)	Administer	ed Com	pression:	G711 M	4u, G711 A, G	729 A, C	7231								
Call Quality of Servic	Enable Fas	tstart:		Off											
Extensions (17)	Silence Sup	pressio	n:	Off											
Trunks (7)	Media Stre	am:		RTP											
Lines: 1 - 4	Layer 4 Pro	otocol:		UDP											
Line: 5	SIP Trunk (Channel	Licenses:	128											
Line: 6	SIP Trunk (Channel	Licenses in Use:	0		6									
Line: 17	SIP Device	Feature	es'	-	-										
Active Calls		- catal													
Resources	Chappel		all Current	Time in	Demote	Codec	Connecti	Caller ID	Other Parts	on Call Direction	Pound Trin	Deceive	Deceive	Transmit	Transmit
Time	Number	G R	ef State	State	Media Add	Couce	connection	or Diale		of Call	Delay	Jitter	Packet L	Jitter	Packet
Licenses	1		Idle	01:45:16											
Control Unit Audit	2		Idle	01:45:16											
	3		Idle	01:45:16											
Mailboxes	4		Idle	01:45:16											
IP Networking	5		Idle	01:45:16											
Locations	6		Idle	01:45:16											
			Idle	01:45:16											
			Idle	01:45:16											
	10		Idle	01:45:16											
						-	1	1	1	1	1	1	1	1	
	Trace	Trac	e All Paus	e Pin	g Call	Details	Grace	eful <u>S</u> hutdov	vn Fo	rce Out of Service	Print	5	ave As	1	
													1	0:02:53	Online

Figure 32: Trunk Status (SIP Trunk)

Information Displayed

Information	Description
Peer Domain Name	The name of the service from the line form.
Gateway Address	Gateway IP address from the VoIP form.
Line Number	Defined in the system configuration.
Number of Administered Channels	Number of channels from the VoIP line tab.
Total Channels in Use	Total of all the channels that have associated call references.
Administered Compression	The compression mode from the VoIP form.
Silence Suppression	Either On or Off .
Channels Table	See the Channels Table table.

Channels Table

This table displays the following details:

Element	Description						
Channel Number	Click on the row to view details of the call.						
URI Group	The URI Group via which the system routed the call in or out of the trunk. If there is no Call Ref , the URI Group is blank.						
Call Ref	Call reference, assigned by the system and associated with the line in use. When a trace is in progress, any calls on the trunk will show (i) next to the Call Ref. If you select Call Details while a trace is in progress, the screen remains unchanged and a pop-up window appears which contains details about the selected call. The pop-up shows the state of the call at the time of selection and does not update. See <u>Trace</u> on page 80.						
Current State	The current state of the call associated with the button. See <u>Call States</u> (<u>Trunk</u>) on page 101.						
Time in State	Reset to zero each time there is a state change.						
IP Address from Connection	DirectMedia (H.323 only), RTP Relay or VCMs.						
CODEC	Available via H.323 message and may change throughout the call.						
Connection Type	Either RTP Relay or VCMs.						
Caller ID or Dialed	The information displayed depends on the call direction.						
Digits	 Incoming Calls – The Caller ID name and number. System Status displays None if the system received no caller ID. 						
	 Outgoing Calls – The digits sent to the central office. 						
Other Party on Call	See the Other Party on Call table.						
Direction of Call	Displays the call as either Incoming or Outgoing .						
Quality of Service (QoS)	Normal data packets can prevent or delay voice data from getting across the link, causing unacceptable speech quality. System Status provides the following information. The system calculates the statistics as defined in RFC 1889.						
	・Round Trip Delay						
	Receive Jitter						
	Transmit Jitter						
	Receive Packet Loss						
	Transmit Packet Loss						

Other Party on Call

Contains one of the following:

Where Call was Originated/Answered	Displayed Value
User	User name and number
VoiceMail Call flow	Start Point name

Where Call was Originated/Answered	Displayed Value
VoiceMail Box	Voicemail - user name or hunt group name of the mailbox
Data Service	RAS - service name
Conference	Conference name
Trunk	Line ID/URI Group/Channel number
Park Slot	Park Slot - when the other end has parked the call
Announcement	Announcement - the hunt group associated with the announcement number
Hunt Group	Hunt Group - name and number when a call is in a hunt group queue (not alerting)

Buttons

The following buttons can appear on this screen:

Button	Description
Call Details	Displays call details for the selected call, trunk or trunk channel.
Resume	Resumes updating screen in real time. When pressed, the button label and function changes to Pause .
Pause	Stops the screen from updating. The button label and function changes to Resume when the screen is paused.
Print	Prints all information available in the current screen (including any information currently scrolled off).
Trace	Starts a trace of the rows selected. System Status displays a trace for each call associated with the selected trunk or extension. See $\underline{\text{Trace}}$ on page 80.
Trace All	Starts a trace for the whole trunk group or extension. System Status displays a trace for all calls associated with the trunk or extension. See <u>Trace</u> on page 80.
Save As	Saves the information shown on the screen to a text file (TXT or CSV). You can only save trace screens as CSV text files.
Ping	Perform a Ping action from the selected interface (system, line or extension) and display the results. See <u>Ping</u> on page 116.
Graceful Shutdown	Cause the selected SIP trunk to block any additional calls and go into Out of Service (OOS) state when all current calls on the trunk have ended.
Cancel Shutdown	Cancel the graceful shutdown of the selected SIP trunk if not completed. If the trunk has completed the graceful shutdown, select Force Into Service.
Force Into Service	Take the selected SIP trunk out of 'Out of Service' (OOS) status.
Force Out of Service	Force the selected SIP trunk into 'Out of Service' (OOS) status. This immediately disconnects any current calls on the trunk.

Related links

Trunks on page 68

Line Protocols

Line Type	Line Sub Type	Channel Protocols
E1, T1, E1-R2	QSigA, QSigB, ETSI, ETSI CHI	Same as Line Sub Type
E1-R2	Mexico, Brazil, Argentina, China, Korea, India, Philippines, None	R2 DID, R2 Loop Start, R2 DOD, R2 DIOD, TIE Immediate Start, TIE Automatic, TIE Delay, TIE Wink, WAN, Out of Service
T1, J1	N/A	Loop Start, Ground Start, E & M Tie, E & M DID, E & M Switched 56, DID, Clear Channel 64
J1	N/A	N/A
PRI	AT&T	Call by Call, Software Defined Network, Megacom WATS, Megacom 800, Wats, Accunet, Private Line, AT&T Multiquest, ETN, I800, ILDS
PRI	Sprint	No Service, None
PRI	WorldCom	No Service, None
PRI	Local Telco	No Service, None
PRI	ETSI, AusT013	ETSI, AusT013
BRI	ETSI/NTT, S-Bus	N/A
Ground Start	N/A	N/A
Loop Start	With Caller ID, No Caller ID	N/A

The following table displays the protocols for digital and analog lines:

Related links

Trunks on page 68

Trace

Path: Trunks > Lines > Line > Trace

When a trace is in progress, any calls on the trunk show (i) next to its **Call Ref**. If you select **Call Details** while a trace is in progress, the screen remains unchanged and a pop-up window appears which contains details about the selected call. The pop-up shows the state of the call at the time of selection and does not update.

Buttons

The following buttons can appear on this screen:

Button	Description
Call Details	Displays call details for the selected call, trunk or trunk channel.
Resume	Resumes updating screen in real time. When pressed, the button label and function changes to Pause .
Pause	Stops the screen from updating. The button label and function changes to Resume when the screen is paused.
Print	Prints all information available in the current screen (including any information currently scrolled off).
Тгасе	Starts a trace of the rows selected. System Status displays a trace for each call associated with the selected trunk or extension. See $\underline{\text{Trace}}$ on page 80.
Trace All	Starts a trace for the whole trunk group or extension. System Status displays a trace for all calls associated with the trunk or extension. See <u>Trace</u> on page 80.
Save As	Saves the information shown on the screen to a text file (TXT or CSV). You can only save trace screens as CSV text files.
Ping	Perform a Ping action from the selected interface (system, line or extension) and display the results. See <u>Ping</u> on page 116.

Trunks on page 68

Utilization Summary

Path: Trunks > Lines > Line > Utilization Summary

The menu provides a usage history for each trunk. Counts reset either when you click the **Reset** button or when the system reboots.

Trunks



Figure 33: Trunk Utilization Menu

Name	Description
Module	Type of trunk module.
Line	Line ID.
Line Type	See Line Protocols on page 80.
Line Sub Type	See Line Protocols on page 80.
Counters Started	Date and time the counts began.
Calls Table	Call Туре
	Outgoing – The count of all Outgoing calls.
	 Incoming – The count of Incoming calls, excludes Incoming Abandoned calls.
	 Incoming Abandoned – Calls where the caller disconnected before the system or a user answered the call. Abandoned calls have a blank Total Call Duration.
Number of Calls	Total number of calls by call type.
Total Call Duration	Hours, minutes and seconds format. For outgoing calls, measured from the call start. For incoming calls, measured from call answer.
Total Ring Time	Hours, minutes and seconds format.

Buttons

The following buttons can appear on this screen:

Button	Description
Reset	Resets all utilization counters (number of calls and total duration) for the displayed trunk to 0.

Related links

Trunks on page 68

Alarms

The Trunk Alarm screen contains an entry for each trunk. There is always an entry in the navigation panel for each trunk regardless of whether it has alarms.

The screen displays two tabs for digital trunks:

- Alarms Current alarms appear in red on the Alarm tab.
- **24-Hour Performance History** This tab provides a 24-hour view of errors that occur on the line. If no errors have occurred within the last 24-hours, the table displays zero or blank values.

Related links

<u>Trunks</u> on page 68 <u>Alarms</u> on page 83 <u>24-Hour Performance History</u> on page 54

Alarms

Path: Trunks > Lines > Line > Alarms

Information Displayed	Description
Last Date of Error	The last time the error that caused a particular alarm occurred.
Occurrences	How many times the alarm has occurred since the system restarted or you last cleared the alarm.

Error Description

The table below details a description of the error that caused the alarm

Error	Description					
Insufficient DID Digits	A user can administer routes based on DID digits by using the MSN routing form. On this form, the user administers how many digits are expected (the Presentation Digits field). If a call is received and the number of digits received do not match the number in the Presentation Digits field, the following is displayed:					
	 There was a mismatch in the number of DID digits 					
	Expected number of digits: XX					
	Digits Received: YYYYY					
Incoming Call on Outgoing Trunk	On T1/PRI and analog lines, the direction for each channel can be administered to be incoming, outgoing or both. If the channel is outgoing and an incoming call arrives on the channel, the following is displayed:					
	• An incoming call arrived on the channel configured for Outgoing calls only.					
	Channel Number: XX (for digital lines)					
	Port Number: XX (for analog lines)					
Trunk Went Out of Service	If the trunk is not administered to be out of service but goes down, the following is displayed:					
	Trunk out of service.					
Red Alarm Active on Trunk	When a T1/PRI trunk reports a red alarm, System Status displays Red Alarm . A red alarm indicates lost synchronization.					
Blue Alarm Active on Trunk	When a T1/PRI trunk reports a blue alarm, System Status displays Blue Alarm . A blue alarm indicates a signal failure.					
Yellow Alarm Active on Trunk	When a T1/PRI trunk reports a yellow alarm, System Status displays Yellow Alarm . A yellow alarm indicates a transmission problem.					
Loss of Signal on Trunk	This alarm indicates loss of signal from a trunk.					
Caller ID not received	For analog loop start trunks set to ICLID, this alarm indicates that the system did not receive any CLI.					
Seize Failure	This alarm indicates that the system did not detect loop current when trying to seize the trunk.					
Response Failure	The system generates this alarm when it sends a TCP Sync to the remote end of an H.323 trunk and does not receive an acknowledgement and when it sends an INVITE over a SIP trunk which times out.					
	No response to IP trunk call request.					
	IP Trunk Line Number: xxx					
	Remote end IP address: yyy.yyy.yyy					

Buttons

The following buttons can appear on this screen:

Buttons	Description
Clear Alarm History	Clear the historical alarms displayed.
Clear All	Clears all listed historical alarms that are no longer active. Note that any alarms still active (red) remain but with the occurrences count reset to 1.
Print	Prints all information available in the current screen (including any information currently scrolled off).
Save As	Saves the information shown on the screen to a text file (TXT or CSV). You can only save trace screens as CSV text files.

Alarms on page 83

24-Hour Performance History

Path: Trunks > Lines > Line > 24-Hour Performance History

The first line in the table displays the current 15-minute interval. Subsequent lines display the last 24-hours divided into 15-minute intervals. Fewer lines appear if the system has been running for less than 24-hours.

– System – Å Alarms (12) – Å Service (5)	Alarms 24 H	our Performance Hi	story	Alarms for Li	ne: 5 Slot: 2 Port:	1			
- 4 Trunks (6)	The numbe	r in each line indicate	s the number of times	during the 15 minutes in	ntenral that the error or	cured Bridefau	It the first row is the cu	rrent 15 minute inten	cal
Line: 2 (1)	Interval Start Time	Frror Seconds	Bursty Error Seconds	Severely Errored Seconds	Failed/Unavailable Seconds	Bipolar Violation	Clock Slips	Missed Frame	
- <u>4</u> Line: 4 (1)	12:00								4
Line: 5 (2)	11:45	1					1		
-Line: 9 (0)	11:30	1					1		
-Line: 13 (0)	11:15	2					2		
Line: 14 (0)	11:00	1					1		
Line: 15 (0)	10:45	1					1		
Line: 16 (U)	10:30	2					2		
Extensions (73)	10:15	1					1		
Trunks (10)	09:45	2					2		
Active Calls	09:30	1					1		
E-Resources	09:15	1					1		
	09:00	1					1		



Buttons

The following buttons can appear on this screen:

Button	Description
Absolute Time	Applies to the 24-Hour Performance History. Each line shows the actual time in 24-hour clock format at which the reported 15-minute period started.
Relative Time	Applies to the 24-Hour Performance History. When selected, for each line, the time value indicates how far into the 15-minute interval the line occurs. For example, 3 minutes appears as 00:03.

Button	Description
Show Blanks	Applies to 24-Hour Performance History. Show any 0 error values as blanks.
Show Zeros	Applies to 24-Hour Performance History. Show any 0 error values as zeros.
Print	Prints all information available in the current screen (including any information currently scrolled off).
Save As	Saves the information shown on the screen to a text file (TXT or CSV). You can only save trace screens as CSV text files.

<u>Trunk Alarms Summary</u> on page 51 <u>Alarms</u> on page 83

Line Testing

Path: Trunks > Lines > Line > Line Testing

You can use this screen to perform loop back testing on a digital trunk.

Help Snapshot LogOff Exit	About	
 System Alarms (3) Extensions (30) Trunks (5) 	Status Utilization Summary Alarms Line Testing Configure Line for Testing	
Lines: 5 - 8	Loopback Status: None	
Active Calls Resources 	Admin State: Out of Service 💌	
 Voicemail IP Networking 	Test Type: Pseudo-random 15 bit 💌	
Locations Outdialer	Channel Number Call Ref Admin State Loopback St	tatus
	Whole Line In Service No	one 🔺
	1 Out of Service No	one
	2 Maintenance No	one
	3 In Service No	one
	4 In Service No	one
	5 In Service No	one
	6 In Service No	one
	7 In Service No	one
	8 In Service No	one
	9 In Service No	one
	10 In Service No	one
	11 Out of Service No	one
	12 Out of Service No	one
	13 Out of Service No	one
	14 Out of Service No	one 💌
	Disconnect Call Details Reset Trunk Start Test Inje	ect Error

Figure 35: Line Testing Menu

Information Displayed	Description
Loopback Status	You can use this drop-down to show and set the type of loopback applied to the currently selected channel or channels. The options are None, Payload, Line and Line (Anti Jitter).
Admin State	You can use this drop-down to show and set the Admin State of the currently selected channel or channels.
	 Changes made using System Status only apply to the channel whilst running System Status. They do not override the system configuration settings.
	 To perform loopback testing, select Whole Line and set the Admin State to Out of Service. The changes applies to all channels.
	 Selecting Whole Line and setting the Admin State back to In Service returns the status of each channel back to their current configuration settings.
Test Type	You can use this drop-down to select the type of loopback testing used. The options are Pseudo-random 15 bit or Pseudo-random 20-bit .

The table lists the individual channels provided by the trunk. Selecting a particular channel allows you to change the change the settings of the channel and perform loopback testing on that channel. The Whole Line row allows you to perform the same action on all the channels at the same time.

Information	Description
Channel Number	The individual channel number.
Call Ref	The call reference of the current call on the channel.
Admin State	The admin status of the individual channel. See above.
Loopback Status	The loopback status of the individual channel. See above.

Buttons

The following buttons can appear on this screen:

Button	Description
Call Details	Displays call details for the selected call, trunk or trunk channel.
Disconnect	Clears the current call. The button cannot stop alerting calls on Loop Start, T1 Loop Start and T1 Ground Start lines.
Inject Error	Insert an error into the digital trunk during a loopback test.
Reset Trunk	Reset the selected digital trunk.
Start Test	Start loopback testing on the trunk. You can only start testing when the Whole Line is set to Out of Service. When testing starts, the test results appear below the list of channels. During the test, the button label and function changes to Stop Test.
Stop Test	Stop loopback testing on the selected trunk. The button label and function changes to Start Test.

Related links

Trunks on page 68

Chapter 7: Active Calls

The Active Calls screen provides a summary of all the calls in the system. From the navigation panel, click Active Calls:

Help Snapshot LogOff Exit	: Abo	ut		in an	New York			na na series	North State	
■ System ■ 🍓 Alarms (10)					Activ	e Calls: 1				
Extensions (17) Trunks (10)	Call Ref	Call Length	Originator End Party	Current State	Time in State	Incoming Caller ID	Destination End Party	Current State	Time in State	Connected Caller ID
Line: 6	6	00:00:09	Line: 5 Slot: 2	Connected	00:00:06		Extn 203, Extn2	Connected	00:00:06	
Line: 7 Line: 8										
Lines: 9 - 12										
Line: 14										
Active Calls Resources										
Voicemail IP Networking										
	L									
<	Pau	ise	Disconnect	<u>C</u> all Details	<u>A</u> ba	indoned Ca	alls			

Figure 36: The Active Calls Menu

Information Displayed	Description
Call Ref	Call reference for incoming trunks, assigned by the system and associated with the line in use.
Call Length	Total length of the call.
Originator End Party	Trunk or 'Currently At' information. See Call Details on page 93.
	 Current State – The originator's current state. See <u>Call States (Extension)</u> on page 100.
	• Time in State – The originator's time in state. Reset to zero every time there is a state change.
	 Incoming Caller ID – The caller name and number.

Information Displayed	Description
Destination End Party	Trunk or 'Currently At' information. See <u>Call Details</u> on page 93.
	 Current State – The destination's current state. See <u>Call States</u> (<u>Extension</u>) on page 100.
	• Time in State – The destination's time in state. Reset to zero every time there is a state change.
	 Connected Caller ID – For outgoing trunks only. The connected caller name and number.

Buttons

The following buttons can appear on this screen:

Button	Description
Call Details	Displays call details for the selected call, trunk or trunk channel.
Resume	Resumes updating screen in real time. When pressed, the button label and function changes to Pause .
Pause	Stops the screen from updating. The button label and function changes to Resume when the screen is paused.
Call Details	Displays call details for the selected call, trunk or trunk channel.
Abandoned Calls	The Active Calls screen splits to display a list of incoming calls on a trunk where the caller disconnected before the call was first answered.

Related links

Abandoned Calls on page 90 Reduced Active Calls on page 92 Call Details on page 93 Conference Details on page 95 Call Information on page 96

Abandoned Calls

Clicking the Abandoned Calls button whilst viewing the Active Calls screen, splits the screen to include a list of abandoned calls below the list of active calls. The abandoned calls table lists incoming calls where the caller disconnected before any answer.

Help Snapshot LogOff Exit	About		aling kinde	(1993) (1997)	See al		asinii/asin		Section Se
E System E				Activ	<i>r</i> e Calls: 1				
Extensions (17) Trunks (10)	Call Call Ref Length	Originator End Party	Current State	Time in State	Incoming Caller ID	Destination End Party	Current State	Time in State	Connected Caller ID
Line: 6 Line: 7	(1) 9 00:00:0	5 Line: 5 Slot: 2	Connected	00:00:04		Extn 203, Extn2.	. Connected	00:00:04	
Line: 8 Lines: 9 - 12									
Line: 13 Line: 14									
Resources									
Directory Control Unit Audit	1 Abandoned Calls since 05/02/2008 12:37:53								
Voicemail Mailboxes	Date and Time	From Trunk	2. Dect. 4	Incoming ID	Caller Inco	ming DID Ringin	g/Queueing A	∖t vVai	t
IP Networking IP Routes	05/02/2008 12	:38:05 Line: 5 Slot:	2 Port: 1			200 Exth 2	J3, Extn2U3	U	0:00:03
Tunneis									
<	Pause	Disconnect	2all Details	Clear	r Abandone	ed Calls			

Figure 37: Abandoned Calls Display

Information Displayed

The following information appears for abandoned calls that occur after clicking the **Abandoned Calls** button.

Field	Description
Date and Time	Date and time the call started.
From Trunk	The line/channel information about the calling party.
Incoming Caller ID	The name and/or number as shown in the Active Calls list.
Incoming DID	The number as displayed in the Call Details screen. See <u>Call Details</u> on page 93.
Ringing/Queuing At	The alerting parties (if any) on the call at the time of disconnection. Otherwise (if the call was in a queue), the hunt group name.
Wait	The call duration until disconnection occurred.

Buttons

The following buttons can appear on this screen:

Button	Description
Call Details	Displays call details for the selected call, trunk or trunk channel.

Button	Description
Resume	Resumes updating screen in real time. When pressed, the button label and function changes to Pause .
Pause	Stops the screen from updating. The button label and function changes to Resume when the screen is paused.
Clear Abandoned Calls	Clears the list of all abandoned calls. This updates the date and time and enables the logging of further abandoned calls.
Disconnect	Clears the current call. The button cannot stop alerting calls on Loop Start, T1 Loop Start and T1 Ground Start lines.

Active Calls on page 89

Reduced Active Calls

If you are viewing the Active Calls information for a heavily loaded system (using a communications link with insufficient bandwidth or running System Status with insufficient CPU power), System Status automatically reduces the amount of information displayed to accommodate the high call rate.

When the call initiation/setup rate has reduced, click the Full Details button to resume the full display. If you want to view active calls during a high load, use the snapshot facility to obtain a view of the system.

Help Snapshot LogOff Exit	: About	
	Calls initiated in last 5 seconds: Calls cleared in last 5 seconds:	Active Calls: 6 3 1
	<u>F</u> ull Details	

Figure 38: Reduced Calls Display

Buttons

The following buttons can appear on this screen:

Button	Description
Full Details	Resume the full display of Active Calls from the reduced active calls state .

Active Calls on page 89

Call Details

You can access the Call Details screen using the following method:

- Select a current call in the Active Calls screen.
- Click Extensions and then click the relevant extension.
- Click System and then Control Unit and double-click a line.

🗾 IP Office System Statu	- IP500 Site A (192.168.42.1)		
AVAYA	IP (Office System Status	
Help Snapshot LogOff Exit	About		
 ■ System ■ Alarms (10) 		Call Details	
 Extensions (17) Trunks (10) Line: 5 	Call Ref: 7 Call leng	th: 00:00:21	^
Line: 6 Line: 7	Current State: Connect Trunk: Line: 5	ed Time in State: 00:00:17 Slot: 2 Port: 1 Channel: 1	
Line: 8 Lines: 9 - 12 Line: 13	Incoming Caller ID: Incoming DID: 200		
Line: 14 E Active Calls	Destination	ad Time in State: 00:00:17	
Resources Licenses	Current state. Connect Currently at: Extn 203 Button Number: 1	, Extn203	
Directory Control Unit Audit	Rutton Tuno: Coll Ann Trace Output:	201000.(Cl)	~
Mailboxes IP Networking IP Routes Tunnels			
	Trace Clear Pause Rac		Save As
			Online

Figure 39: Call Details Menu

Information Displayed

Information	Description
Call Ref	Call reference assigned by the system and associated with the line in use.
Call Length	Total length of the call. For further details, see the following sections:
	Originator Information on page 96
	<u>Destination Information</u> on page 97
	<u>Call Target/Routing Information</u> on page 99
	<u>Conference Details</u> on page 95
	 <u>Call States (Extension)</u> on page 100
	<u>Call States (Trunk)</u> on page 101
	 <u>Callback and Returning Calls</u> on page 102
Trace Output	The bottom section of the screen contains trace information and a scroll bar, enabling you to view the trace. Tracing enables you to view details of specific calls and is useful for problem solving. For more information, see <u>Trace</u> on page 80.

Notes

- The names shown for voicemail destinations are those supplied by the system to voicemail during connection. The information does not update for any subsequent changes, for example logging in to another mailbox.
- A call that is both alerting/queuing and listening to an announcement will indicate information about both.

Buttons

The following buttons can appear on this screen:

Button	Description
Trace Clear	Clears the trace and continues tracing.
Pause	Stops the screen from updating. The button label and function changes to Resume when the screen is paused.
Resume	Resumes updating screen in real time. When pressed, the button label and function changes to Pause .
Back	Returns to the previous screen.
Disconnect	Clears the current call. The button cannot stop alerting calls on Loop Start, T1 Loop Start and T1 Ground Start lines.
Conference Details	Available for calls in a conference. Displays the conference details

Button	Description
Print	Prints all information available in the current screen (including any information currently scrolled off).
Save As	Saves the information shown on the screen to a text file (TXT or CSV). You can only save trace screens as CSV text files.

Active Calls on page 89

Conference Details

For a call in a conference, clicking the Conference Details button shows all connected calls in the conference and other conference information.

👪 IP Office System Status - IP500 Site A (192.168.42.1)				
AVAYA		IP Office	e System Status	
Help Snapshot LogOff Exit	About			
System System Alarms (10) Extensions (17) Trunks (10) Active Calls Conference C	Name: Type: Call Recording:	Conf 100 Ad Hoc No	Conference Details	
E Resources	Call Ref	State	Party	
Voicemail	2	Connected	E-to 444 E-to 444	
IP Networking	4	Connected	Extn 411, Extn411	
	5	Connected	Extn 203, Extn203	
< >	Pause Back		AS	
			08:26:23	Online

Figure 40: Conference Details Menu

Buttons

The following buttons can appear on this screen:

Button	Description
Pause	Stops the screen from updating. The button label and function changes to Resume when the screen is paused.
Resume	Resumes updating screen in real time. When pressed, the button label and function changes to Pause .
Back	Returns to the previous screen.
Print	Prints all information available in the current screen (including any information currently scrolled off).
Save As	Saves the information shown on the screen to a text file (TXT or CSV). You can only save trace screens as CSV text files.

Related links

Active Calls on page 89

Call Information

The following information can be displayed for different types of calls.

Related links

Active Calls on page 89 Originator Information on page 96 Destination Information on page 97 Call Target/Routing Information on page 99 Call States (Extension) on page 100 Call States (Trunk) on page 101 Callback and Returning Calls on page 102

Originator Information

The originator information varies depending on whether the originating end is a trunk or not.

Originating End is a Trunk

Includes all incoming calls on analog, dialog, or VoIP trunks.

Field	Description
Trunk	Includes fixed line number, URI group (SIP lines) and channel (for digital and VoIP lines).
Current State and Time in State	See <u>Call States (Extension)</u> on page 100.
Incoming Caller ID	The caller ID name and number.
Incoming DID	The incoming DID digits (when applicable).
Codec	Selected via H.323/SIP messages and may change during the call.
VolP Trunk (H.323, SCN or SIP)	 The system calculates these statistics as defined in RFC 1889. Round Trip Delay Receive Jitter Transmit Jitter Receive Packet Loss Transmit Packet Loss

Originating End is not a Trunk

Field	Description	
Current State and Time in State	The state of the call associated with the button.	
Currently At	 Users – The user name and number. For multi-line sets, the button number and button type. 	
	 Voicemail Call flow – For calls originated by voicemail, System Status shows no call flow name. 	
	Data Service – The service name.	
	Park Slot – The park slot number.	
	Conference – The conference number.	
	• Multicast – Multicast.	
	 Dialed Digits – The digits that were dialed by the user. 	
	 Codec (if applicable) – Selected via H.323/SIP messages and may change during the call. 	

Related links

Call Information on page 96

Destination Information

The information displayed depends on whether the destination is a trunk or not.

Destination End is a Trunk

Includes the following types of calls that involve trunks:

- Call to an outside number from the switch
- Voicemail Pro calling an outside number (for a callback)
- External forwarding
- SCN call

Information	Description
Trunk Used	Includes fixed line number, URI group (SIP lines) and channel (for digital and VoIP lines).
Current State and Time of State	The state of the call associated with the button.
Digits sent to Central Office	Shows the digits that the system sent to the central office or the To: URL, sent in the INVITE for a SIP trunk.
Caller ID sent from Central Office	Some central offices send the connected Caller ID rather than who was called.
Codec	Selected via H.323/SIP messages and may change during the call.
VoIP Trunk (H.323, SCN or SIP)	The system calculates these statistics as defined in RFC 1889.
	• Round Trip Delay
	Receive Jitter
	• Transmit Jitter
	Receive Packet Loss
	Transmit Packet Loss

Destination End is not a Trunk

The state of the call associated with the button.

Information	Description
Group of Users	For paging and some hunt group calls, listed by user name and number. For a call alerting or connected to both users and SCN trunks, System Status lists all.
User	The user name and number. For multi-line sets, System Status shows the button number and button type.
Voicemail Call flow	The call flow name.
AutoAttendant	The string Automated Attendant followed by the Automated Attendant number is listed.
Park Slot	The park slot and park slot number/name.
Mailbox	The mailbox and mailbox name.
Voicemail Announcement	This will be Announcement plus the group/username and the announcement number.

Information	Description
Conference	The conference name. See Conference Details on page 95.
RAS	The user name.
Hunt Group Queue	The hunt group name and number when a call is in a hunt group queue but not alerting.
Codec	Selected via H.323/SIP messages and may change during the call.

Call Information on page 96

Call Target/Routing Information

Name	Description
RTP Connection Type	If applicable, DirectMedia , RTPRelay or VCM .
Shortcode Matched	This value is shown if the call was originally targeted to a shortcode. It shows the shortcode matched, the short code feature and the short code type (eg. system, user, etc).
Original Target	This value indicates the type of the original call target followed by specific details of the target. For example:
	 Destination is a User – The text Extn followed by the user name or extension number.
	 Destination is a Hunt Group – The text Group followed the hunt group name or extension number.
	 Destination is an embedded Automated Attendant – The text Automated Attendant followed by the auto attendant number.
Call Recording	Indicates whether call recording is in progress.
Call Redirected to a Twin	Indicates whether the call used twinning.
Call Routed Across SCN Trunk	Yes or No. Set to Yes only when the call becomes connected.
Retargeting Count	The number of times the system retargeted the call. Retargeting means that the current destination stops alerting and system sends the call to a new destination.
Transfer Count	The number of times a call has been transferred.
Redirecting Station	The station from which a call was re-directed on Forwarding, Follow Me, coverage or twinning.

Related links

Call Information on page 96

Call States (Extension)

State	Extension		
Idle	There is no call or call attempt on this extension or button.		
Connected	The port has a connected call.		
Held	The call is on hold. This could be the result of pressing the Hold button, or a flash		
Held for Transfer/ Conference	The call is on hold pending transfer or a conference.		
Parked	The user or system has parked the call.		
Seized	The system has seized a port for the call but the call is not yet connected. The user has not dialed any digits.		
Dialling	The system has seized a port for the call but the call is not yet connected. The user has dialed at least one digit.		
WrapUp	The user on this port is in the wrap-up state.		
In Use Elsewhere	This means that another person is active on a call using an associated button.		
On Hold Elsewhere	This means that another person has placed a call on hold using an associated button.		
In Use Inaccessible	For call and bridged appearance buttons:		
	 The button is associated with a logged out user. 		
	 The oldest internal user on the call has Cannot Be Intruded active. 		
	• The button has no LEDs.		
	For line appearance buttons:		
	- The oldest internal user on the call has Cannot Be Intruded active.		
	- The associated line is out of service.		
Alerting	When a call is visually or audibly alerting on a telephone.		
Ringback	For outgoing calls, this is the state after the user has completed dialling and is listening to ringback.		
Call Listen	Indicates the call is listening to this extension		
Paging	Indicates one or more output points of a paging call.		
Recording	The system is recording the call.		
Hold Reminder	The system is alerting the extension with a held call reminder.		
Park Reminder	The system is alerting the extension with a parked call reminder.		
Transfer Return	The system is alerting the extension with a transfer return.		
Voicemail Ringback	The system is alerting the extension with a voicemail ringback.		
Auto Callback	The system is alerting the extension with a callback call.		
Held at Central Office	For European ISDN lines, the central office has the call on hold. It frees the Bchannel which returns to idle in System Status.		

State	Extension
Holding	Indicates that the other party on the call is in one of the Held states: Held, Held for Transfer, Held for Conference, Held at Central Office, Hold Reminder.
Connected Blind	Indicates that this end of the call is connected and that the other party on the call is alerting with either a blind transferred call or a transfer return.
Queuing	Indicates that the system has queued the call for a hunt group. While queued, the call does not alert at any extension.
Alerting Announcement	Indicates that the call is alerting at one or more extensions or trunks and also currently connected to voicemail for a queuing announcement.
Queuing Announcement	Indicates a queued call connected to voicemail for a queuing announcement.
Connected Announcement	Indicates a connected call listening to a queuing announcement.
Number Unobtainable	The call failed or cleared because the target was unobtainable.
Busy	The call failed or cleared because the target was busy.
Disconnected	The call failed or cleared because the target disconnected the call.

When a call is alerting, one end is in the alerting state while the other is in the ringback state. From the view of the system, Ringback and Incoming Alerting are equivalent states. Similarly, Alerting and Outgoing Alerting are equivalent states.

The Trunk Summary and Extension Status screens show the direction of each call. Trunks show the as outgoing if the system initiated the call and incoming if the central office or network initiated the call. Extensions show the call as outgoing if the extension initiated the call and incoming if another party initiated the call.

Related links

Call Information on page 96

Call States (Trunk)

System Status shows call states for both ends of a call.

State	Trunk
Idle	There is no call or call attempt on this port or channel.
Out of Service	The port has been set out of service or the digital circuit (that this channel is on) is down.
Connected	The port has a connected call.
Connected WAN	This time slot in use to deliver WAN interface - digital trunks only.
Parked	The system or a user has parked the call.
Seized	The system has seized the line in preparation to make a call.
Dialling	The system has seized the line and dialed out digits but the call is not yet connected.

State	Trunk
Clearing	The call is in the process of terminating or is in post call wrap-up.
Pre-Alert	The system has received an incoming on the trunk. The system is waiting for Caller ID.
Outgoing Alerting	The system has made an outgoing call on the trunk, The far end is alerting.
Incoming Alerting	The system has presented the incoming to a target at which it is alerting or queued.
Paging	Indicates one or more output points of a paging call.
Recording	The system is using the call record another call.
Held at Central Office	For European ISDN lines, the central office has the call on hold. It frees the Bchannel which returns to idle in System Status.
Holding	Indicates that the other party on the call is in one of the Held states: Held, Held for Transfer, Held for Conference, Held at Central Office, Hold Reminder.
Connected Blind	Indicates that this end of the call is connected and that the other party on the call is alerting with either a blind transferred call or a transfer return.
Queuing	Indicates that the system has queued the call for a hunt group. While queued, the call does not alert at any extension.
Alerting Announcement	Indicates that the call is alerting at one or more extensions or trunks and also currently connected to voicemail for a queuing announcement.
Queuing Announcement	Indicates a queued call connected to voicemail for a queuing announcement.
Connected Announcement	Indicates a connected call listening to a queuing announcement.

When a call is alerting, one end is in the alerting state while the other is in the ringback state. From the view of the system, Ringback and Incoming Alerting are equivalent states. Similarly, Alerting and Outgoing Alerting are equivalent states.

The Trunk Summary and Extension Status screens show the direction of each call. Trunks show the as outgoing if the system initiated the call and incoming if the central office or network initiated the call. Extensions show the call as outgoing if the extension initiated the call and incoming if another party initiated the call.

Related links

Call Information on page 96

Callback and Returning Calls

For these types of call, System Status reports the following as the call originator:

Call Type	Originator
Transfer Return	Transferee
Hold Reminder	The party who was the originator before initiating hold.

Call Type	Originator
Park Reminder	The park slot. The reminder is a new call. If the reminded party picks this call up, parked and new calls will combine in the same way as a transfer completion.
Automatic Callback	The party that requested the callback.
Voicemail Ringback	The party receiving the callback.

Call Information on page 96

Chapter 8: Resources

Path: Resources

This screen provides a summary of key resources and their current usage in the system.

Help Snapshot LogOff Exit	About						
里 System 🖽 🍓 Alarms (3)			System Resou	irces			
 ■ Adams (a) ■ Extensions (16) ■ Trunks (5) Lines:5 - 8 Line:17 Active Calls ■ Resources ■ Voicemail ■ IP Networking Locations 	Primary Music on Hold Source (1): Configuration Size: Configuration Used: Memory Free: Memory Used: CPU Utilization: 8kHz Clock source:	Internal 2048 KB 36 KB 60 189 KB 12878 KB 4.97% Internal	File Status: Failed	i to Load			
	Channels M	Number of Channels	Number in Use	Usage	Congestion Count	Last Date of Congestion	
	Data	48	1	2%	0		
	VCM	10	0	0%	0		=
	VM	40	0	0%	0		
	Modem	0	0	0%	0		-
	Pause						

Figure 41: The Resources Menu

Information Displayed

Information	Description
Music on Hold Source	The system provides music on hold using either an internally stored file or an externally connected audio input.
Configuration Size	The maximum possible size for the system configuration. This varies depending on the type of control unit.
Configuration Used	The current configuration size.
Memory Free	The number of free Kbytes.

Information	Description
8kHz Clock Source	Indicates which digital trunk the system is configured to use as the trunk clock source.
Channels Table	This table lists details of various resource channels. See the Channels table below.
Number of Channels	The total number of resources available in the system.
Number in Use	The number of resources that are currently in use.
Usage	The percentage of the resource currently being used.
Congestion Count	The total number of times that requests for a resource exceeded the available resource .
Last Date of Congestion	The last occasion when insufficient resources were available.

Channels

This table lists details of various resource channels.

Channel	Description
VCM Channels	The system uses voice compression channels for calls between IP and non-IP devices (trunks and or extensions).
Data Channels	The system uses data channels for Remote Access (RAS), Internet Access, and voicemail sessions. A data channel is an internal signaling resource used whenever a call goes between the IP network and an exchange line. For example, four people surfing the Internet will use a single data channel since they all share the same line to the ISP. Two people remotely accessing the Office LAN from home will use two data channels since they have dialed in on separate lines. IP extensions do not use data channels.
Modem Channels	This is the internal IP400 modem card. The 'private' modem in a Small Office Edition base unit or an ATM4 card is not included in these channels.
Conference Channels	The number of channels available for conference members (parties) depend on the type of system control unit. Systems use these channels for conference calls and for features such as call intrusion and call recording.
VM Channels	The number of voicemail channels available and the number in use.

Buttons

The following buttons can appear on this screen:

Button	Description
Pause	Stops the screen from updating. The button label and function changes to Resume when the screen is paused.
Resume	Resumes updating screen in real time. When pressed, the button label and function changes to Pause .

Related links

Time on page 106

<u>Licenses</u> on page 107 <u>Networked Licenses</u> on page 108 <u>Directory</u> on page 108 <u>Control Unit Audit</u> on page 110

Time

Path: Resources > Time

This screen displays the current date and time set on the system and details about the source the system is using for that time plus any daylight savings settings.

He	elp Snapshot LogOff Exit	t About	
±	System		Time Server Status
Ð	Extensions (16)	Date/Time:	15/10/2015 14:34:10
	Trunks (5)	Time Source:	Voicemail Pro/Manager
	Lines:5 - 8	Last Poll Result:	Failed
	Line:17	Last Poll Time:	15/10/2015 13:51:01
	Active Calls	Server Address:	192.168.0.214
	Resources	Current Offset:	+01:00
	Licenses		
	Control Unit Audit		
Ŧ	Voicemail		
	IP Networking		
	Locations		
		Pause	

Figure 42: The Time Menu

Buttons

The following buttons can appear on this screen:

Button	Description
Pause	Stops the screen from updating. The button label and function changes to Resume when the screen is paused.
Resume	Resumes updating screen in real time. When pressed, the button label and function changes to Pause .

Related links

Resources on page 104

Licenses

Path: Resources > Licenses

This screen shows the current installed licenses and the status of those licenses. It also shows the type and serial number of the feature key.

He	Help Snapshot LogOff Exit About										
11 11	System Alarms (3)	Licenses									
Act Act Res Voi DIPN Loo	Extensions (16) Trunks (5) Lines:5 - 8 Line:17 Active Calls Pesources	Feature Key Detected: License Mode: PLDS License File Status: Licensed Version:	Local, S License Valid R 10.0	Serial Numbe 2 Normal	er 13163837	730, PLDS Host I	D 11131	6383730			
	Time Licenses	License Type	Available Instances	Number of Licenses in use	Congest	Last Date of Congestion	Status	Insta	License Expiration Date	Source	
	Directory Control Unit Audit Voicemail IP Networking Locations	CTI Link Pro Wave User Receptionist Additional Voicemail P 3rd Party IP Endpoints VMPro Recordings Ad VMPro TTS (Scansoft) VMPro TTS (Generic) IPSec Tunnelling IP500 Voice Networki SIP Trunk Channels IP500 Universal PRI (UMS Web Services	1 16 4 150 384 1 40 40 1 32 128 100 100	1 0 0 0 1 0 0 1 0 0 0 0 0 0 0 0 0 0			Valid Valid Valid Valid Valid Valid Valid Valid Valid Valid Valid Valid Valid	1 16 4 150 384 1 40 40 1 32 128 100 100	Never Never Never Never Never Never Never Never Never Never Never Never Never Never	PLDS Nodal PLDS Nodal	
		IPSec Tunnelling IP500 Voice Networki SIP Trunk Channels IP500 Universal PRI (UMS Web Services	1 32 128 100 100	1 0 0 0			Valid Valid Valid Valid Valid	1 32 128 100 100	Never Never Never Never Never	PLDS Nodal PLDS Nodal PLDS Nodal PLDS Nodal PLDS Nodal	

Figure 43: The Licenses Menu

Buttons

The following buttons can appear on this screen:

Button	Description
Pause	Stops the screen from updating. The button label and function changes to Resume when the screen is paused.
Resume	Resumes updating screen in real time. When pressed, the button label and function changes to Pause .
Renew Licenses	Force the system to immediately revalidate its license entitlements rather than waiting for the next automatic check.

Related links

Resources on page 104

Networked Licenses

Path: Resources > Networked Licenses

For a system in a Server Edition multi-site network, this screen lists the licenses granted to the system from the network's primary server. This differs from licenses held in the system's own configuration shown on the Licenses screen.

Help Snapshot LogOff Exit	About				
System Hard Disks System HDD Alarms (1) Extensions (0)	Networked Licenses - Client Data License Server: 255.255.255 Last Refresh: 26/11/2012 10:45:18				
Trunks (0) Active Calls I Resources	License	Allocated	Reserved Need	Unreserved Need	
Time	Server Edition	0	1	0	
Licenses	Power User	0	0	0	
Networked Licens	Avaya IP Endpoints	0	0	0	
Directory	IP Endpoints	0	0	0	
Control Unit Audit	Office Worker	0	0	0	
🗏 Voicemail	SIP Trunk Channels	0	0	0	
Mailboxes	Pause				

Figure 44: The Networked Licenses Menu

Buttons

The following buttons can appear on this screen:

Button	Description
Pause	Stops the screen from updating. The button label and function changes to Resume when the screen is paused.
Resume	Resumes updating screen in real time. When pressed, the button label and function changes to Pause .

Related links

Resources on page 104

Directory

Path: Resources > Directory

This screen shows information about the directory entries held by the system including imported directory entries.
🗉 System				Directory					
Extensions (16)	Sources			,					
± Trunks (4)	Directory	Running	Maximum	Last Lindate	Undate Status	Imported	Discarded		
Active Calls	Directory	(Carlinning)	- axinam	cust opdate	opudie otatao	Imported	bibcaraca		
E Resources	System	0	2500						
Time	LDAP	0	10000	17/06/2015 0	Not Configured	0	0		
Licenses	НТТР	0	10000	18/06/2015 0	Not Configured	0	0		
Directory	Total	0	10000						
Control Unit Audit					-				
I Voicemail	Maximum Numb	per of Personal Co	ontacts:	10800		0%			
IP Networking	Number of Per	sonal Contacts In	Use:	0					
Locations									
	Number of Ren	note Small Commu	unity Network Site	es: Not Netwo	гкеа				
	Number of Loc	al User Entries:		18					
	Number of Loc	al Group Entries:		1	1				
	Number of Ren	note User Entries	:	0					
	Number of Ren	note Group Entrie	s:	0					
	Total Number of	of User and Group	Entries:	19					
	Local Users and (Groups:							
	Name	Nun	nber	Туре		Current Locati	on		
	RemoteMa	anager			User				
	NoUs	er	201		User				
	Extr2	01	201		User				
	EXU12	02	202		User				
	Extr2	04	203		User				
	Extra2	05	201		User				
		~~	200	1	served.				
	Refresh	Membership	Conflicts						

Figure 45: The Directory Menu

Information Displayed

Information	Description
Sources	This part of the table indicates the directory sources the system is using.
	• System
	Directory entries stored permanently as part of the system configuration.
	• LDAP
	Directory entries imported using LDAP from an LDAP server.
	• HTTP
	Directory entries imported using HTTP from another system.
	• Total
	The total number of current directory entries and the overall system maximum.
Running	The number of directory entries.

Table continues...

Information	Description
Maximum	The maximum capacity of such directory records that the system will allow. Note that System source entries have priority over imported LDAP/HTTP entries.
Last Update	The last time the Update Status was changed. Shown for LDAP and HTTP sources only.
Update Status	The status or result of the last update. Shown for LDAP and HTTP sources only.
	• Success
	Success with Overflow
	• Failure
	In Progress
	Not Configured
Imported	The number of entries imported during the last successful update. Shown for LDAP and HTTP sources only.
Discard	The number of entries discarded, due to being invalid or duplicate, during the last successful update. The system discards records if they have a blank name or number, they match an existing record or then exceed the total capacity of the system. Shown for LDAP and HTTP sources only.

Buttons

The following buttons can appear on this screen:

Button	Description
Refresh	Updates the screen. This button appears on screens that do not update automatically.
Membership	Display the users who are members of the selected hunt group.
Conflicts	Displays any conflicts with directory entries on other systems if in a multi-site network.

Related links

Resources on page 104

Control Unit Audit

Path: Resources > Control Unit Audit

The audit trail lists the last 16 actions performed on the system using IP Office Manager. It includes actions such as sending a configuration back, reboots, upgrades and defaulting the system. The last failed action is always recorded and shown in red. It is kept even if there have been 16 subsequent successful actions.

The audit trail is just a snapshot of the most recent events. You can configure a continuous audit trail and enhanced audit trail output to Syslog from the IP Office system using the system's **System Events** settings.

Help Snapshot LogOff Exit	About							
 System Alarms (5) Extensions (17) 				Control Ur	nit Audit			
Trunks (7) Active Calls	Date and Time	Event Type	Item Changed	Outcome	IP Office Account	PC IP Address	PC MAC Address	PC Login Username
Resources	11/10/2016 16:09:33	Warm Start		Success	System Reboot			
Time	11/10/2016 17:46:12	Warm Start		Success	System Reboot			
Licenses Directory	21/10/2016 07:27:31	Write with Merge	System Extension 129 User Extn129	Success (Configurat	Administrator	192.168.0.203	00-21-5A-E7-32-F0	Administrator
Voicemail	21/10/2016 07:58:45	Write with Immediat	System User - Multiple	Success (Configurat	Administrator	192.168.0.203	00-21-5A-E7-32-F0	Administrator
Maliboxes	21/10/2016 08:00:37	Warm Start		Success	System Reboot			
Locations	21/10/2016 08:15:57	Write with Immediat	System Extension 129	Success (Configurat	Administrator	192.168.0.203	00-21-5A-E7-32-F0	Administrator
	21/10/2016 08:17:29	Warm Start		Success	System Reboot			
	21/10/2016 16:07:45	Write with Merge	System Short Code 11*N# Account Code	Success (Configurat	Administrator	192.168.0.203	00-21-5A-E7-32-F0	Administrator
	21/10/2016 16:08:57	Write with Merge	System Short Code *11*N#	Success (Configurat	Administrator	192.168.0.203	00-21-5A-E7-32-F0	Administrator
	21/10/2016 16:12:56	Write with Merge	System Short Code *99*N#	Success (Configurat	Administrator	192.168.0.203	00-21-5A-E7-32-F0	Administrator
	25/10/2016 09:48:30	Write with Merge	System User Extn201	Success (Configurat	Administrator	192.168.0.203	00-21-5A-E7-32-F0	Administrator
	04/11/2016 08:39:45	Write with Merge	System	Success (Configurat	Administrator	192.168.0.203	00-21-5A-E7-32-F0	Administrator
	04/11/2016 08:41:40	Write with Merge	System User Extn203	Success (Configurat	Administrator	192.168.0.203	00-21-5A-E7-32-F0	Administrator
	15/11/2016 09:12:54	Upgrade		Success	System Upgrade	192.168.0.203		
	15/11/2016 08:17:40	Warm Start		Success	System Reboot			

Figure 46: The Control Unit Audit Menu

Information Displayed

Information	Description
Date and Time	The Data and Time of Access indicate the local system time when the recorded event occurred.
Event Type	A description of the event recorded.
Items Changed	The Items Changed area summarizes the changes contained in a sent configuration. Where changes to a single record of a particular type are made, the Item Name field lists the individual record changed. Where changes are made to several records of the same type, the Item Name field displays Multiple items.
Outcome	The outcome Success (Warning) refers to the sending of a configuration that contains fields marked as errors or warnings by IP Office Manager's validation function. Success (Clean) refers to the sending of a configuration that does not contain any validation errors or warnings.
IP Office Account	The IP Office security user account used for the action.
PC IP Address	The IP address of the PC used for access.
PC MAC Address	The MAC address of the PC used for access.
PC Login Name	The PC user login name used for the access.

Buttons

The following buttons can appear on this screen:

Button	Description
Pause	Stops the screen from updating. The button label and function changes to Resume when the screen is paused.
Resume	Resumes updating screen in real time. When pressed, the button label and function changes to Pause .

Resources on page 104

Chapter 9: Voicemail

Path: Voicemail

This screen displays the status of the voicemail server configured for the system. The details shown will vary according to the type of voicemail server.



Figure 47: The Voicemail Menu

Buttons

The following buttons can appear on this screen:

Button	Description
Pause	Stops the screen from updating. The button label and function changes to Resume when the screen is paused.
Resume	Resumes updating screen in real time. When pressed, the button label and function changes to Pause .
Call Details	Displays call details for the selected call, trunk or trunk channel.
Activate Backup Server	Transfer voicemail server operation to the configured backup voicemail server.

Mailboxes on page 114

Mailboxes

Path: Voicemail > Mailboxes

This screen displays details of the voicemail mailboxes on the voicemail server. It includes the number of messages and the status of basic voicemail settings for the associated mailbox user or hunt group.

Help Snapshot LogOff Exi	it About									
D System D & Alarms (3) D Extensions (16) D Trunks (5)	Number of M	ailboxes:	21		Mailbox St	atus				
Active Calls Resources Voicemail	Name	Voicemail Status	Hunt Group Broadcast	Email Options	Email Address	Text to Speech	Number of New Messages	Number of Read Messages	Number of Saved Messages	
Mailboxes	RemoteMan	On	Not Applicable	Off		Off	0	0	0	
IP Networking	NoUser	On	Not Applicable	Off		Off	0	0	0	
Locations	Extn201	On	Not Applicable	Off		Off	0	0	0	
	Extn202	On	Not Applicable	Off		Off	0	0	0	
	Extn203	On	Not Applicable	Off		Off	0	0	0	
	Extn204	On	Not Applicable	Off		Off	0	0	0	
	Extn205	On	Not Applicable	Off		Off	0	0	0	E
	Extn206	On	Not Applicable	Off		Off	0	0	0	
	Extn207	On	Not Applicable	Off		Off	0	0	0	
	Extn208	On	Not Applicable	Off		Off	0	0	0	
	Extn209	On	Not Applicable	Off		Off	0	0	0	
	Extn210	On	Not Applicable	Off		Off	0	0	0	
	Extn211	On	Not Applicable	Off		Off	0	0	0	
	Extn212	On	Not Applicable	Off		Off	0	0	0	-
	Extn213	On	Not Applicable	Off		Off	0	0	0	-
	Extn214	On	Not Applicable	Off		Off	0	0	0	
	Exto 21E	00	Not Applicable	Off		Off	0	0	0	-

Figure 48: The Mailboxes Menu

Buttons

The following buttons can appear on this screen:

Button	Description
Pause	Stops the screen from updating. The button label and function changes to Resume when the screen is paused.
Resume	Resumes updating screen in real time. When pressed, the button label and function changes to Pause .

Related links

Voicemail on page 113

Chapter 10: IP Networking

Path: IP Networking

These menus show the status of networking services (IP routes , tunnels and VPN services). This section does not cover VoIP functions which are covered by menus in other sections (see <u>VoIP</u> <u>Trunks</u> on page 38, <u>VoIP Security</u> on page 39, <u>H.323 Extensions</u> on page 31 and <u>SIP Extensions</u> on page 32.

Related links

IP Routes on page 115 Tunnels on page 117 SSL VPN on page 118 Outdialer on page 119

IP Routes

Path: IP Networking > IP Routes

This screen shows the IP routes known by the system. This includes both configured static routes and routes learned through RIP if enabled.

Help Snapshot LogOff Exit	About								
 System Alarms (3) Extensions (16) Trunks (5) Active Calls Resources 	Total Number of Total Number of Route Priority:	f Administered I f IP Routes:	IP Routes:	: 5 5 Prefer :	IP Routes				
 Voicemail IP Networking IP Routes SSL VPN Locations 	Destination Sub 192.168.0.0 255 192.168.4 255 192.168.9 255	onet Mask Nex Add 5.255.2 5.255.2 5.255.2	kt Hop IP dress	Interface Name LAN1 LAN2(WAN) RemoteMa	Interface Type LAN LAN DialUp	Metric	IP Route Type Directly At Directly At Static	Source IP Address	Source IP Mask
	0.0.0.0 0 169.254.0.2 255 Pause Pin	0.0.0.0 192 5.255.2 ng	2.168.0.1	LAN1	LAN	1	Static Directly At		

Figure 49: The IP Routes Menu

Buttons

The following buttons can appear on this screen:

Button	Description
Pause	Stops the screen from updating. The button label and function changes to Resume when the screen is paused.
Resume	Resumes updating screen in real time. When pressed, the button label and function changes to Pause .
Ping	Perform a Ping action from the selected interface (system, line or extension) and display the results. See <u>Ping</u> on page 116.

Related links

IP Networking on page 115 Ping on page 116

Ping

You can use the Ping button to ping an IP address from the perspective of the system rather than your PC.

- When selected from the line details screen of an IP line, the system sends the ping to the configured gateway for the line.
- When selected from the IP routes screen, the system sends the ping from the selected interface (LAN1, LAN2 or Remote Manager).

II Ping from Interface		
Source Interface:	LAN1	~
Destination IP Address:	188.241.244.119	
ОК	Cancel	

Figure 50: Ping Menu

Ping Results	X			
IP Addres	is			
Target:	188.241.244.246			
Source (used by IP Office):	188.241.244.119			
Packets				
Sent:	3			
Lost:	0			
Round trip times in milliseconds				
Minimum:	1			
Maximum:	2			
Average:	1			
ОК				

Figure 51: The Ping Results Menu

IP Routes on page 115

Tunnels

Path: IP Networking > Tunnels

This screen display details of the VPN tunnels (IPSec and L2TP) configured on the system.

🗾 IP Office System Statu	s - IP500 Site A (192.168.4	2.1)							
AVAYA	1	P Office Syste	m Status						
Help Snapshot LogOff Exit	About								
 System Alarms (9) Extensions (17) Trunks (10) 	Tunnel Status Total Number of Administered Tunnels: 2								
Active Calls Resources	Tunnel Name	Tunnel Type	Remote Tunnel Endpoint	Association					
🗉 Voicemail	Site B	L2TP	192.168.50.1	None					
IP Networking	RemoteD	IPSec	192.168.56.1	None					
Tunnels	Pause								
			08	:00:24 Online					

Figure 52: The Tunnels Menu

Buttons

The following buttons can appear on this screen:

Button	Description
Pause	Stops the screen from updating. The button label and function changes to Resume when the screen is paused.
Resume	Resumes updating screen in real time. When pressed, the button label and function changes to Pause .

Related links

IP Networking on page 115

SSL VPN

Path: IP Networking > SSL VPN

This menu lists the SSL VPN services configured on the system and shows their current status.

Н	elp Snapshot LogOff Exit	About										
+ + +	System Å Alarms (5) Extensions (2) Trunks (0)	Total Number	SSL VPN Services Total Number of Administered SSL VPN Services: 1									
	Active Calls Resources	Name	Service Status	Last Connec	Last Disconn	Tunnel IP Address	Total Misse	Total Misse	Local TCP Endpoint	Remote TCP En	Local UDP Endpoint	Remote UDP En
Ð	Voicemail IP Networking	Service0	In Ser			0.0.0.0	0	0	0.0.0.0:0	0.0.0.0:0	0.0.0.0:0	0.0.0.0:0
	IP Routes ■ ▶ <u>SSL VPN</u> Locations											
		Pause	<u>S</u> elect	<u>S</u> et In	Fallback							

Figure 53: The SSL VPN Menu

Buttons

The following buttons can appear on this screen:

Button	Description
Pause	Stops the screen from updating. The button label and function changes to Resume when the screen is paused.
Resume	Resumes updating screen in real time. When pressed, the button label and function changes to Pause .
Select	Show details for the currently selected item.
Set In Fallback	Set the currently selected SSL VPN service into fallback status.
Clear In Fallback	Clear the currently selected SSL VPN service's fallback status.

Related links

IP Networking on page 115

Outdialer

Path: IP Networking > Outdialer

This menu lists the current and historic status of the IP Office outdialler application connected to the system.

Outdialler Version

The version of the outdialler server.

Totals

This section lists the cumulative total number of calls made during the outdialler session.

Information	Description
Total Number of Calls	The number of calls made by the outdialler since starting the session.
Total Number of Answered Calls	The number of calls answered.
Total Number of Abandoned Calls	The number of calls not answered.
Total Number of Failed Calls	The number of calls that could not terminate on the target.
Total Number of Calls Connected to an Agent	The number of calls that involved an agent.
Total Number of Managed Calls	The number of calls which did not use predictive dialling, ie. calls made by agents.
Total Number of Predictive Calls	The number of calls made by predictive dialling.

Current

This section displays statistics for calls while this window is in the view. System Status updates the values every 5 seconds.

Information	Description
Trunks	These are the total number of trunks that the dialer application can use. The adjacent pie chart shows these values as percentages of the number of trunks.
Idle Trunks	The number of idle trunks.
Ringing Trunks	The number of ringing trunks.
Connected Trunks	The number of connected trunks and trunks in call wrap-up.
Connected Calls	The number of calls that answered and connected.
Calls Connected to an Agent	The number of calls currently connected to an agent. The adjacent pie chart shows this value as a percentage of the number of connected calls.
Agents	The number of agents available or connected.
Agents Connected	The number of agents currently speaking to customers. This adjacent pie chart shows this value as a percentage of the number of agents.

Buttons

The following buttons can appear on this screen:

Button	Description
Pause	Stops the screen from updating. The button label and function changes to Resume when the screen is paused.

Table continues...

Button	Description
Resume	Resumes updating screen in real time. When pressed, the button label and function changes to Pause .
Print	Prints all information available in the current screen (including any information currently scrolled off).
Save As	Saves the information shown on the screen to a text file (TXT or CSV). You can only save trace screens as CSV text files.

IP Networking on page 115

Chapter 11: Locations

This menu shows details of the locations configured in the system and activity for those locations.

Note that the information shown is applicable only to the system to which System Status is connected. For example, for servers in the same network and configured with the same locations, the call counters are not shared or combined. Note also that the call counters are not preserved even if call control temporarily passes to another server using resilience.

Calls are only counted from their beginning. Therefore, calls taken over by a system providing resilience do not appear in the call count.

Related links

Locations on page 122

Locations

This menu shows details of the locations configured in the system and activity for those locations.

Help Snapshot LogOff About									
E System									
Alarms (1) Configuration (0) A Service (1)	Total Number o	Locations Total Number of Administered Locations: 2							
Trunks (0) Link (0)	Name	Subnet Address	Subnet Mask	Parent Location	Total Maximum	Total Calls	External Calls	Internal Calls	Last Date of Congestion
Call Quality of Servic	New York	192.168.42.0	255.255.255.0		Unlimited	0	0	0	
🖽 Security (0)	London	192.168.43.0	255.255.255.0		Unlimited	0	0	0	
Extensions (3) Trunks (0) Active Calls Resources Voicemail IP Networking IP Routes SSL VPN Locations									
< III >	Pause	ar All Dynamic L	ocations Test	Location API	Close Locatio	n API			

Figure 54: The Locations Menu

Note that the information shown is applicable only to the system to which System Status is connected. For example, for servers in the same network and configured with the same locations, the call counters are not shared or combined. Note also that the call counters are not preserved even if call control temporarily passes to another server using resilience.

Calls are only counted from their beginning. Therefore, calls taken over by a system providing resilience do not appear in the call count.

Buttons

The following buttons can appear on this screen:

Button	Description
Pause	Stops the screen from updating. The button label and function changes to Resume when the screen is paused.
Resume	Resumes updating screen in real time. When pressed, the button label and function changes to Pause .
Clear All Dynamic Locations	Third-party applications can use the system's location API to dynamically set the location of extensions. This button clears the dynamic location information currently held for all extension.
Close Location API	Close the dynamic extension location API.
Test Location API	Test the location API by requesting the dynamic extension location information.

Related links

Locations on page 122

Part 3: Tracing and Troubleshooting

Chapter 12: Tracing

System Status can generate traces for particular calls, lines and extensions. It displays trace information at the bottom of the screen.

The Pause button and scroll bar enable you to view the information whilst the application continues to record new trace events. The Resume button displays all the events recorded when a trace is paused, as well as further new events as they occur.

Whilst displaying a trace, System Status provides options to Print and Save As. You can save a trace as either a TXT or CSV text file. If the trace is paused, System Status only saves or prints the currently displayed information.

This section provides examples and descriptions of traces generated for calls, lines and extensions.

If the viewer restarts during a trace, if the traced trunk/channel/extension/buttons remains valid, the viewer retains the trace from before loss of connection. System Status adds a line to the trace to indicate the restart.

Related links

Using Traces for Troubleshooting on page 125

Using Traces for Troubleshooting

To diagnose problems with a call, it is generally best to trace the source of the call; e.g. trace the trunk for an incoming call or the extension for an outgoing call. By following this guideline, you will see all trace information from the very start of the call. The initial events often contain the most important diagnostic information. Since a trace also shows events relating to parties that are on the same call as the trunk or extension, a trace from a trunk or extension will allow you to see the whole history of the call.

Related links

Tracing on page 125

Chapter 13: Call Traces

You can trace a call from the Call Details screen. The trace shows changes of state for the call and events relating to both ends of the call. For example, it indicates button presses on an extension or if a protocol message is sent or received for a trunk channel that is on the call. These events appear for as long as the extension or trunk remains associated with the call. For example, if one extension transfers a call to another, the trace shows the transfer carried out by the first extension and then events relating to the second extension.

Related links

Announcements on page 126

Announcements

The system allows calls that are either queuing or alerting, to hear announcements. When the system plays an announcement, the current state of the call changes to Connected Announcement. The call remains in that state until either answered or cleared. System Status displays the type of announcement and details of the queued or alerting parties.

Example:

- 1. Call 37 is alerting at two extensions, as well as listening to Announcement 2 for the hunt group 'just two'.
- 2. Call 38 is queuing for the hunt group 'just two', as well as listening to Announcement 2 for the hunt group 'just two'.
- 3. Call 39 is queuing for the hunt group 'just two'.

IP Office System Sta	atu	IP Office System Status												
Help Snapshot LogOff	E	xit Al	bout											
⊐–System ⊡– å Alarms (11)							Active	Calls: 3						
 Extensions (74) Trunks (10) Active Calls Resources 	¢ F	Call Ref 🛆	Call Length	Originator End	Party		Current State	Time in State	Incoming Caller ID	Destination End Party	Current State	Time in State	Connecte d Caller	
		37	00:00:46	Line: 9 H.323	192.168.42.1	Channel: 1	Connected Announcement	00:00:35	604, BorisAeris	Extn 6693, Extn6693 Extn 6694, Extn6694 Extn 4624, Extn4624 Announcement just two	Alerting Anno	00:00:06		
		38	00:00:42	Line: 9 H.323	192.168.42.1	Channel: 2	Connected Announcement	00:00:31	280, Ken Tucky	Group 302, just two Announcement just two	Queueing An	00:00:02		
		39	00:00:27	Line: 9 H.323	192.168.42.1	Channel: 3	Connected Announcement	00:00:15	299, Ben Becula	Group 302, just two	Queueing	00:00:07		
		Pause	Dis	connect	Call Details	Aban	doned Calls							
											18:4	6:38	Online	

The following trace shows the same call sequence, traced from the trunk from which the call originated:

	ID Office System Status	
FIVFIYFI	IP Office System Status	
elp Snapshot LogOff E	txit About	
i System 1 🎒 Alarms (12)	Status Litization Summary Alarms	
Extensions (74)	H.323 Trunk Summary	<u>^</u>
Line: 1	IP Address: 192.168.42.1	~
Line: 2	Trace Output - All Channels:	
Line: 4	2601/07/14/09 25-01/2ms Line = 9 Line Ref = 32840, Q-931 Message = Setup, Direction = To Switch, Calling Party Number = 604, Called Party Number = 302	
Line: 5	2601/07 14/03.20-024ms Life = 3, Charter Auduated, Charten i = 1, Can ret = 174, Life ret = 32040 2601/07 14/03.26-026ms Call Ret = 174, Originator States = Dialing, Type = Truck, Destination Type = none	
Lines: 13 - 16	250/10714/0922-031ms Line = 9, Channel = 1, 0.931 Message = SetupAck, Call Ref = 174, Direction = From Switch 260/10714/0922-031ms Call Ref = 174, Orienter State = Longence Alerting, Tune = Tunet, Decidenting State = Oueue	
Active Calls	2001/07 1+03.27-000m3 Can tet = 1 (rs, originatur state = incoming viewing, rype = indin, cestination state = adverting, rype = social 260/107 1+03.27-030m3 Can tet = 1 (rs, originatur state = incoming viewing, rype = indin, cestination state = adverting, rype = social	
	250/10714/09227-051ms Call Ref = 174, Originator State = Incoming Alerting, Type = Trunk, Destination State = Alerting, Type = Target List 26/10/1714/09227-051ms Call Ref = 174, Originator State = Incoming Alerting, Type = Trunk, Destination State = Alerting, Type = Target List	
	280/107 14:08:27-05/ms Call Ref = 174, Alerting, Extension = 4624, Button = 1	
	250/10714/0927-051ms Call Ref = 174, Alerting, Extension = 6694, Button = 1 260/10714/0925-347ws Line = 9 Line Ref = 3784, 0.031 Misseare = 541w, Direction = To Switch, Callion Party Number = 380, Called Party Number = 392	
	280/107 14:09:35-355ms Line = 9, channel Allocated, Channel ID = 2, Call Ref = 175, Line Ref = 32841	
	2601/07 14/09:35-353ms Call Ref = 175, Originator State = Dialing, Type = Trunk, Destination Type = none 2601/07, 14/09:35 269ms Line = 9, Champel = 2, Ogs Managemen = Statematic Acting Bef = 175, Direction = From Switch	
	260/107 14:05335-357ms Call Ref = 175, Originator State = Incoming Alerting, Type = Trunk, Destination State = Queueing, Type = Queue	
	250/10714/0936-360ms Line = 9, Channel = 2, 0.931 Message = Alerting, Call Ref = 175, Direction = From Switch	
	260/07 14:0537-37/ms Call Ref = 13, channel = juston message = connect, can ten = ref, precion = rein Switch	
	260/10714/0837-373ms Call Ref = 174, Originator State = Connected Announcement, Type = Trurk, Destination State = Alerting Announcement, Type = Target List 260/10714/0845-510mc Call Ref = 174, Originator State = Connected Announcement Tyme = Trurk, Destination State = Alerting Tyme = Target List	
	260/1071-100-1091/000 Call Ref = 173, originated state - contracted entractioners, type - toting contracted entracted entractioners, type - toting contracted entracted entracte	
	250/10714/0845519ms Call Ref = 174, Alerting, Extension = 4624, Button = 1 260/10714/0845519ms Call Ref = 174, Alerting, Extension = 6694, Button = 1	
	2801/07 14:094-86-537ms Line = 9, Channel = 2, 0:331 Message = Connect, Call Ref = 175, Direction = From Switch	
	2501/07 14/08 46-539ms Call Ref = 175, Announcement = just two, Number = 1 2601/07 14/08 46-541ms Call Ref = 175, Contrators Table = Connected Announcement Tyne = Trunk: Destination State = Queueina Announcement Tyne = Queue	
	26/01/07 14:09:54-677ms Call Ref = 175, Originator State = Connected Announcement, Type = Trunk, Destination State = Queueing, Type = Queue	
	250/107 14:09:55-5649ms Line = 9, Line Ref = 32642, 0:931 Message = Setup, Direction = To Swirch, Calling Party Number = 299, Called Party Number = 302 250/107 14:09:55-5690ms Line = 9, Channel Allocated Channel D = 3. Call Ref = 176 Line Ref = 32842	
	26/01/07 14:09:55-661ms Call Ref = 176, Originator State = Dialling, Type = Trunk, Destination Type = none	
	250/107 14:09 55-566ms Line = 9, Channel = 3, 0:331 Message = SetupAck, Call Ref = 176, Direction = From Switch 250/107 14:09 55-656ms Call Ref = 176, Originator State = Incoming Alerting. Type = Trunk. Destination State = Queue	
	26/01/07 14:09:56-669ms Line = 9, Channel = 3, Q.931 Message = Alerting, Call Ref = 176, Direction = From Switch	
	2801/07 14:10:05-871ms Call Ref = 174, Originator State = Connected Announcement, Type = Trunk, Destination State = Alerting Announcement, Type = Target List 2801/07 14:10:05-871ms Call Ref = 174. Announcement = list two. Number = 2	
	26/01/07 14:10:06-681ms Line = 9, Channel = 3, Q.931 Message = Connect, Call Ref = 176, Direction = From Switch	
	2501/07 14:10:06-584ms Call Ref = 176, Announcement = just two, Number = 1 2601/07 14:10:06-584ms Call Ref = 176, Originator State = Connected Announcement Tyne = Trunk Destination State = Queueing Announcement Tyne = Queue	
	26/01/07 14:10:13-833ms Call Ref = 174, Originator State = Connected Announcement, Type = Trunk, Destination State = Alerting, Type = Target List	
	260/107 14:10:13-833ms Call Ref = 174, Alerting, Extension = 6693, Button = 1 260/107 14:10:13-833ms Call Ref = 174, Alerting, Extension = 4624, Button = 1	
	26/01/07 14:10:13-833ms Call Ref = 174, Alerting, Extension = 6694, Button = 1	
	Trage Clear Ping Cal Details Print Save As	
		144042 Outre
		rational Online

IP Office supports both synchronous and asynchronous announcements. The examples in this section are typical of asynchronous announcements. For synchronous announcements, IP Office sets up a call between voicemail and a multicasting point. Each call that is listening to the same announcement connects to the same multicasting point.

The multicasting call is set up as soon as there is a call that will require it, even if it is not yet time to play the announcement. A multicasting call that is currently playing an announcement will show the announcement details and a state of 'Connected'. A multicasting call that is waiting to play an announcement will show the announcement details and a state of 'Waiting Announcement'.

The trace of a call hearing an announcement indicates the call reference of the multicasting call.

Example:

- 1. Call 47 is the multicasting call for Announcement 1 of the hunt group 'just one'. This announcement is being played on call 49, which is queuing for hunt group 'just one'.
- Call 49 is the multicasting call for Announcement 2 of the hunt group 'just two'. It has been created in readiness to play to call 45. Call 45 is alerting at two extensions. Announcement 1 of the hunt group 'just one' has already been played to it and it is waiting for Announcement 2 to begin.

J IP Office System St	atus - F-O	75-IP500-1 (192.168.42.120)							_ 8 ×
AVAYA				IP	Office \$	System	Status			
Help Snapshot LogOff	Exit Ab	oout								
III-System IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII					Acti	ve Calls: 4				
E-Extensions (74) Trunks (10)	Call Ref	Call Length	Originator End Party	Current State	Time in State	Incoming Caller ID	Destination End Party	Current State	Time in State	Connected Caller ID
Active Calls Resources	45	00:00:30	Line: 9 H.323 192.168	Connected An	00:00:19	604, BorisAe	Extn 6693, Extn6693 Extn 4624, Extn4624	Alerting	00:00:12	
	47	00:00:12	Line: 9 H.323 192.168	Connected An	00:00:01	280, Ken Tuc	Group 301, just one Announcement Call Ref 49	Queueing Ann	00:00:01	
	48	00:00:12	Multicast				Announcement just one, N	Waiting Annou	00:00:12	
	49	00:00:11	Multicast				Announcement just one, N	Connected	00:00:01	
	Pause	Disconne	ct Call Details	Abandoned Call	S					
									18:54:50	Online

The following trace shows the same call sequence, traced from the trunk from which the calls originated:

IP Office System Stat	us - F-075-IP500-1 (192.168.42.120)	
avaya	IP Office System Status	
Help Snapshot LogOff Ex	kit About	
I System I & Alarms (12) I Extensions (74) I Trunks (10) Line: 1 Line: 2 Line: 3 Line: 5 ▶ Line: 9 Line: 13 - 16 Active Calls Resources	Strette Litization Summary P Address: 192168.42.1 Trace Output - All Channels: 2001107 14:1933-935ms: Line = 9, Line Ref = 32847, 0.931 Message = Setup, Direction = To Switch, Calling Party Number = 604, Called Party Number = 301 2001107 14:1933-949ms: Line = 9, Channel Holocated, Channel De 1, Cal Ref = 168, Line Ref = 32847 2001107 14:1933-949ms: Line = 9, Channel = 1, 0.931 Message = Setup, All Ref = 166, Direction = From Switch 2001107 14:1933-949ms: Line = 9, Channel = 1, 0.931 Message = SetupAR, Call Ref = 166, Direction = From Switch 2001107 14:193-9459ms: Line = 9, Channel = 1, 0.931 Message = SetupAR, Call Ref = 166, Direction = From Switch 2001107 14:193-9459ms: Line = 9, Channel = 1, 0.931 Message = SetupAR, Dyree = Trunk, Destination State = Alerting, Type = Target List 2001107 14:193-9459m 2001107 14:193-9459ms Call Ref = 168, Originator State = Inoming Alerting, Type = Trunk, Destination State = Alerting, Call Ref = 186, Direction = From Switch 2001107 14:193-9459ms Call Ref = 188, Originator Type = Multicast, Destination State = Connected All Type = Announcement 1992 2001107 14:194-949ms Call Ref = 188, Originator State = Connected All Type = Toruk, Destination State = Alerting Announcement 1992 2001107 14:194-949ms Call Ref = 188, Originator State = Diale Message = Setup, Direction = From Switch 2001107 14:194-940ms Call Ref = 188, Originator State = Diale Missage = SetupAll Type = Toruk, Destination State = Calling All Type = Toruk 200	
	14:20:05 0	

Call Traces on page 126

Chapter 14: Extension Traces

You can trace all or any selection of appearance buttons on an extension. For extensions without appearance buttons, you can trace all or any calls currently associated with the extension.

The trace for an extension will show events relating to that extension (e.g. button presses) and traces of all calls associated with the selected buttons, for as long as they are associated.

The trace information for a call which is associated with an extension button will show the same information as for a call traced from the Call Details screen. In other words, it will show changes of state for that call and events relating to both ends of the call.

Related links

Incoming Outside Call on page 130 Extension Button Selection on page 132 Call Disconnected by Internal User on page 135 Call Disconnected by Outside Caller on page 137

Incoming Outside Call

Disconnected by Outside Caller

The following example shows an incoming call answered and then dropped by the outside caller:

🗾 IP Office System Status -	Australia (192.16	8.42.9)							_ 🗆 ×			
AVAVA				IP Of	fice System	Status						
Help Snapshot LogOff Exit	About											
■ System ■ Alarms (0)		Extension Status										
■ Extensions (12) 209 ≥10 211 3001 3002 3003 3004 3008 3008 3009 3010	Extension Numbe Module: Port: Current User Ext Current User Nar Forwarding: Twinning: Do Not Disturb:	r: ension Number: ne:	210 Control Unit - DS 2 5410 210 Extn210 Off Off Off	Ports								
3011 3012 Trunks (7) Lines: 1 - 4 Line: 25 Line: 50 Actine Calls	Message Waiting: Number of New Messages: Phone Manager Type: Button Number Button Type		Off 0 None Call Ref	Other Party on Call								
Resources	2 3	CA CA CA		Idle Idle Idle	00:00:26							
Call rings at Ext 210 Extension 210 answers call Caller hangs up Ext 210 goes back on hook	Trace Output - All E 26/01/07 11:48:52- 26/01/07 11:48:54- 26/01/07 11:48:54- 26/01/07 11:48:54- 26/01/07 11:48:58- 26/01/07 11:48:58- 26/01/07 11:48:58- 26/01/07 11:48:58- 26/01/07 11:48:58- 26/01/07 11:48:58-	uttons: 116ms Call Ref = 1 117ms Call Ref = 1 207ms Extension - 316ms My buttons 316ms Call Ref = 1 724ms My buttons 724ms Call Ref = 1 744ms Extension - 746ms Extension - 750ms Extension -	18, Originator State - 18, Originator State - 210, Switchhook, - = 1, Call Ref = 18, - 18, Answered, Exte - = 1, Call Ref = 18, - 18, Disconnect from = 10, Button = 1, idi = 210, State = Busy = 210, State = Ixile	Incoming Alerting, Typ n = 210, Button = 1 Status = Off Vriginator State = Conne ssion = 210 Originator State = Cleari Originator State = Cleari Originator End nnected e Wirap Up	e = Trunk, Destination Sta cted, Type = Trunk, Desti ng, Type = Trunk, Destina	te = Alerting, Type = Target nation State = Connected, T tion State = Connected, Typ	List ype = User e = User					
	Tra <u>c</u> e Clear	<u>P</u> ause <u>B</u> a	ck <u>C</u> ali Detai	s <u>P</u> rint	Save As			11:49:27	Online			

- The outside call rings at extension 210.
- Extension 210 answers the call.
- The outside call (originator of the call) hangs up.
- Extension 210 goes back on hook.

Disconnected by System User

The following example details an incoming call answered and dropped by an internal user.

🔝 IP Office System St	atus - Austr	alia (192.168.4	12.9)						_ 🗆 X
AVAYA				IP O	ffice Sys	stem Stat	tus		
Help Snapshot LogOff	f Exit Abou	ıt							
System					F. d	04-4			
 Alarms (0) Extensions (12) 					Extension	Status			
209	Extension	Number:		210					<u> </u>
≥ 210	Module:			Control Unit - DS	Ports				
211	Port:	_		2					
3001	Telephone	e Type:		5410					
3002	Current U:	ser Extension Nu	mber:	210					
3004	Current U	ser Name:		Extn210					
3008	Forwardin	g:		Off					
3009	Twinning:			Off					
3010	Do Not Dis	sturb:		Off					
3011	Message \	Waiting:		Off					
3012	Number of	New Messages:		0					
Outside call rings Ext	Phone Mar	nager Type:		None					
210	Dutter	Dutter Turn C	- 110-6		Time in Chaba	Colline Musicher au	Diversion		
Ext 210 answers call	Number	button type c		current state	Time in State	Called Number of	Direction	Other Party on Call	
		CA		Idle	00:00:15				-
Resources	Ace Ottou	t - All Buttons:					• •		
Ext 210 hangs up	26001/07 00	23:51-362ms C	all Ref = 31,	Originator State :	= Incoming Alerting	g, Type = Trunk, Des	tination State = Al	erting, Type = Target L	_ist
Elik E to hango ap	26/01/07 07:	23:51-363ms C	all Ref = 31,	Alerting, Extension	on = 210, Button =	:1			
	26/01/07 07:	:23:53-260ms E	dension = 2	10, Switchhook,	Status = Off				
Outside call is	26/01/07/07:	:23:53-274ms M :23:53-274ms C	y buttons = 1 all Ref = 31	1, Call Ret = 31, (Answered, Exter	Driginator State = i nsion = 210	Connected, Type = 1	runk, Destination :	State = Connected, Ty	pe = User
disconnected	26/01/07 07:	:23:55-246ms E	dension = 2	10, Switchhook,	Status = On				
	26/01/07 07:	:23:55-250ms M	y buttons = "	1, Call Ref = 31, 0	Originator State = (Connected, Type = 1	frunk, Destination :	State = Clearing, Type	= User
Ext 210 goes back on	26/01/07 07:	:23:55-250ms C	all Ref = 31,	Disconnect from	Destination End				
hook	26/01/07 07:	:23:55-253ms E :23:55-275ms E	ctension = 2 dension = 2	10,State = Disco 10 Button = 1 Idi	nnected Ie				
	26/01/07 07:	:23:55-277ms E: :23:57-279ms E:	tension = 2 tension = 2 tension = 2	10, State = Busy 10, State = Idle	Wrap Up	- 1	-		
	Trace Clea	r <u>P</u> ause	Back	<u>C</u> all Detai	is <u>P</u> rint	Save As			
								07:24:12	Online

- The outside call (originator) rings at extension 210.
- Extension 210 (destination end) answers the call.
- Extension 210 hangs up.
- The outside call is disconnected.
- Extension 210 goes back on hook.

Extension Traces on page 130

Extension Button Selection

System Status can trace the buttons on a particular extension. The following example details a trace of button activity at an extension:

🗊 IP Office System Status	- Australia (192.168.42.9)				×
AVAVA		IP	Office Syste	m Status	
Help Spanshot LogOff Ex	t About				
 Alarms (0) 			Extension S	tatus	
Extensions (12)	Extension Number:	209			
210	Module:	Control Unit - DS Ports			
211	Port:	1			
3001	Telephone Type:	5410			
3002	Current User Extension Number:	209 Evto200			
3004	Forwarding:	Off			
3008	Twinning:	Off			
3010	Do Not Disturb:	Off			
3011	Message Waiting:	Off			
3012	Number of New Messages:	0			_
Active Calls	Phone Manager Type:	None			
Resources	Button Number Button Type	Call Ref Current State	Time in State	Calling Number or Called Direction	Other Party on Call
Call rings in to IP Office				Number	•
	Trace Output - All Buttons: DSI01/07/11/33/51_916ms_Call Ref -	3 Originator State - Ringback Type	- User Destination State - A	Jerting Type - Terget List	
Call rings at Ext 209	26/01/07 11:33:51-917ms Call Ref =	3, Alerting, Extension = 209, Button =	1	ierting, rype – raiger List	
Fut 200 sussess the sell	26/01/07 11:33:53-985ms Extension	= 209, Pressed Programmed Button,	Button Number = 1, Label = /	Appearance	
Ext 209 answers the call	26/01/07 11:33:53-996ms My buttor 26/01/07 11:33:53-996ms Call Ref =	3, Answered, Extension = 209	connected, Type = User, De	stination State = Connected, Type = Oser	
First 200 meeting the sealling	26/01/07 11:33:59-298ms Extension	= 209, Pressed Programmed Button,	Button Number = 4, Label = 0	Call Park	
Ext 209 parks the call on park 1	26/01/07 11:33:59-307ms Extension 26/01/07 11:33:59-310ms Extension	i = 209, State = Busy i = 209, Button = 1, Idle			
	26/01/07 11:33:59-312ms Extension	= 209, State = Busy Wrap Up			
Fut 200 takes the call off	26/01/07 11:34:01-315ms Extension	i = 209, State = Idle	Putton Number = 4. Lebel = (Call Davk	
of Park 1	26/01/07 11:34:03-309ms Call Ref =	3, Originator State = Connected, Typ	e = User, Destination State =	Connected, Type = User	
	26/01/07 11:34:08-385ms Extension	= 209, Pressed Fixed Feature, Buttor	n = Transfer		
Ext 209 pushes Transfer	26,01,07 11:34:08-391ms My buttor 26,01,07 11:34:08-394ms Extension	is = 1, Call Ret = 3, Originator State = i = 209, State = Busy Wrap Up	Holding, Type = User, Destin	ation State = Held for Transfer/Conference, Type	e = User
	26/01/07 11:34:08-404ms Extension	i = 209, State = Idle			
Ext 209 hangs up	26/01/07 11:34:08-428ms Call Ref = 26/01/07 11:34:10-413ms Extension	4, Originator State = Seized, Type = I = 209 Digit dialed Digit = 2	Jser, Destination Type = non	e	
· · ·	26/01/07 11:34:10-416ms My buttor	is = 2, Call Ref = 4, Originator State =	Dialling, Type = User, Destina	ation Type = none	
	26/01/07 11:34:10-800ms Extension	i = 209, Digit dialed, Digit = 1			
	26/01/07 11:34:12-486ms Call Ref =	4, Alerting, Extension = 210, Button =	1		
	26/01/07 11:34:12-488ms My buttor	is = 2, Call Ref = 4, Originator State =	Ringback, Type = User, Dest	ination State = Alerting, Type = Target List	
	26/01/07 11:34:14-847ms Extension 26/01/07 11:34:14-858ms Extension	i = 209, Pressed Fixed Feature, Buttor i = 209, Button = 1, Idle	n = Transfer		
	26/01/07 11:34:14-882ms Extension	= 209, State = Busy			
	26/01/07 11:34:14-884ms Extension 26/01/07 11:34:14-886ms Extension	i = 209, Button = 2, Idle i = 209, State = Busy Mran Lin			
	26/01/07 11:34:16-888ms Extension	i = 209, State = Idle			
	L				
	Trace Clear Pause E	ack Call Details Print	. Save As		
					11:35:35 Online

- A call rings at extension 209.
- Extension 209 answers by pressing a call appearance.
- Extension 209 parks the call on Park 1.
- Extension 209 takes the call off Park 1.
- Extension 209 selects the Transfer button.
- Extension 209 dials extension 210 and selects the Transfer button again.
- Extension 209 hangs up.

Many trace events relating to an extension that has appearance buttons, will indicate a button number against the event. When troubleshooting, this allows you to understand why, for example; a call alerted on a particular extension.

If you are tracing from the **Extension Status** screen, you also see **My buttons** marked against call state changes.

🗊 IP Office System State	us - F-075-IP50	0-1 (192.16	3.42.120)									
AVAYA				IP Off	ice Systen	n Status						
Help Snapshot LogOff Ex	it About											
🛨 System 📤 🗄 🏝 Alarms (12)		Extension Status										
Extensions (74) 4624	Extension Nun	nber:	6693									
6666	Slot:		3									
6667	Port:		1									
6668	Telephone Typ	oe:	6424									
6670	Current User B	Extension Numbe	r: 6693									
6671	Current User 1	Name:	Extn6693									
6672	Forwarding:		Off									
6673	Twinning:		Off									
6674	Do Not Disturk	C	Off									
6676	Message Wait	ing:	On									
6677	Number of Ne	w Messages:	14									
6678	Phone Manage	er Type:	None									
Call alerts on Button 1		I										
(Ext 6693) and Button 5 (Evt 4624) Evt 4624	Button Number	Button Type	Call Ref	Current State	Time in State	Calling Number or	Direction	Other Party on Call				
is a Bridged	1	CA		Idle	00:01:37							
Appearance for Ext	2	CA		Idle								
6693	3	CA		ldle								
6686	8	BA		Idle								
6687	9	LA		Idle								
6688												
6689	Virace Output - A	Il Buttons: 12.059ma Call R	of = 192. Originate	or State – Incoming Ale	ating Tune - Trunk De	astination State – Alerti	na Tune – Teraet List					
Ext 4624 answers the	26/01/07 15:38:0	02-058ms Call R 02-058ms Call R	ef = 192, Oliginati ef = 192, Alerting,	, Extension = 4624, Bu	tton = 5	estination state - Alerti	ig, type – targer List					
call, so Button 1 goes	26/01/07 15:38:0	02-058ms Call R	ef = 192, Alerting	Extension = 6693, Bu	tton = 1							
to state 'In Use	26/01/07 15:38:0	09-699ms Exten 19 702ms Mulau	sion = 4624, Swit Hone = 1. Cell Rei	chhook, Status = Off f = 192, Originator Stat	e – Incomina Alertina	Tuna – Trunk Destinati	on State – Alertina, Tur	e – Lleer				
becomes idle	26/01/07 15:38:0	09-705ms Exten	sion = 6693, State	e = Busy Wrap Up	c - incoming Aicruing,	rype – manic, bestinati	Should - Alcrung, Typ	0.000				
	26/01/07 15:38:0	09-706ms Exten	sion = 6693, State	e = Idle								
The caller clears	26/01/07 15:38:0	09-716ms Exten 09-720ms Line -	sion = 6693, Butto 9. Chennel = 1. C	n = 1, State = In Use E 931 Message = Conn	ilsewhere eat Cell Ref = 192 Div	ection - From Switch						
state is reported since	26/01/07 15:38:0	09-725ms Mybu	ttons = 1, Call Ret	f = 192, Originator Stat	e = Connected, Type =	Trunk, Destination Sta	te = Connected, Type =	= User				
the call is still being	26/01/07 15:38:0	09-725ms Call R	ef = 192, Answer	ed, Extension = 4624								
tracked by the call	26/01/07 15:38:2	22-867ms Exten	sion = 4624, Swit	chhook, Status = On (= 400, Originator Stat	a - Connected Tune -	Turnic Destinction Oter	ka – Classing Tuna – U					
the state is marked as	26/01/07 15:38:2	22-009mis iwybu 22-869mis Call R	aons = 1, call rei ef = 192, Disconn	ect from Destination E	e – connecteu, i ype = nd	 munk, Destination Sta 	ie – cleanng, rype = U:	201				
'My buttons=1'	26/01/07 15:38:	22-884ms Exten	sion = 6693, Butto	on = 1, Idle								
6704	/											
With the call cleared,						1						
Button 1 returns to idle 📈	Trace Clear	Pause	<u>B</u> ack <u>G</u>	all Details	<u>S</u> ave As	J						
								15:39:46 Online				

In some cases, a call may alert on more than one button on the same extension. For example, the extension might have a line appearance for the line originating the call and a coverage appearance for the destination of the call. In this case, the trace only shows the first alerting button.

💵 IP Offic	e Syste	m Sta	atus	- F-075-IP500)-1 (192.168	3.42.120)					
AVA	4Y/	4					IP Offi	ice Systen	n Status		
Help Snaps	shot Log	jOff B	Exit	About							
6696 6697								Extension Stat	115		
6698								Extension 3tat	us		
6699				Extension Numi	oer:	6728					
6700				Module:		6					
6702				Port:		20					
6703				Telephone Type	8:	6424					
6704				Current User E:	dension Number	r: 6728					
6705				Current User N	ame:	Extn6728					
6706				Forwarding:		Off					
6707				Twinning:		Off					
6709				Do Not Disturb:		Off					
6710				Message Waitir	ng:	On					
6711				Number of New	Messages:						
6712				Phone Manager	Type:	None					
6713											
6714				Button Number	Button Type	Call Ref	Current State	Time in State	Calling Number or	Direction	Other Party on Call
6716				1	CA		Idle		Calica Namber		
6717				2	CA		Idle				
6718				3	CA		Idle				
6719				4	LA	(1) 201	In Use Elsewhere	00:00:14			
A call alerts	s on the			6	CC	(1) 201	Connected	00:00:14		Incoming	Line: 13 Slot: 4 Port: 9
line appear	ance			Turne Ordenda Al	D:#						
6723				Pace Output - Al	Buttons: 9-137ms Call Re	ef = 201. Originat	or State = Incoming Ale	rting Type = Trunk De	stination State = Alerti	na Type = Taraet List	
6724				26/01/07 15:51:0	9-138ms Call Re	ef = 201, Alerting	, Extension = 6693, But	tton = 1		ng, ngo - nargor zior	
Later, it als	so alerts	; on		26/01/07 15:51:0	9-1 38m s Call Re	ef = 201 , Alerting	Extension = 6728, But	tton = 4			
the covera	ge			26/01/07 15:51:0	9-138ms Call Re 0.058ma Enterna	ef = 201, Alerting	, Extension = 4624, But	tton = 5 n. Butten Muscher - 6 I	lehel - Ceuerene Ann		
appearanc	e (wher	e it		26/01/07 15:51:2	2-056mis Externs 2-069mis Call Re	sion = 6726, Pres ef = 201. Originat	sed Programmed Bullo or State = Connected.	rn, bullon Number = 6,1 Type = Trunk. Destinati	caper = coverage App on State = Connected.	earance Type = User	
the line and	eu), so tr nearanc	nat o		26/01/07 15:51:2	2-069ms Call Re	ef = 201, Answer	ed, Extension = 6728	.,,		.,,	
shows 'In L	Jse		/	26/01/07 15:51:2:	2-073ms Extens	sion = 6728, Butto	on = 4, State = In Use E	ilsewhere			
Elsewhere	'. 'My		1								
buttons' sh	nows that	at hot	C C								
with both o	issocial of the	cu 💽	1	Tra <u>c</u> e Clear	Pause	Call Details	Print Sav	e As			
appearanc	es										15:51:36 Online:

Extension Traces on page 130

Call Disconnected by Internal User

The following example shows an extension dialling out on an analog trunk:

AVAYA	IP Office System Status	
Help Snapshot LogOff	Exit About	
–System – 🖞 Alarms (2)	Extension Status	
Ext 210 dials the	Current User Extension Number: 210	
digit '8' for	Trace Output - All Buttons:	
204 IP Office matches the	*244Q1.07 16:25:37-955ms Extension = 210, Digit dialed, Digit = 8 24/01/07 16:25:39-012ms My buttons = 1, Call Ref = 21, Originator State = Dialling, Type = User, Destination State = Seized, Type = Target List 24/01/07 16:25:39-013ms Call Ref = 21, Short Code Matched = System, 8N	
shortcode '8N' 207 Analog Line 4 is	1240+107716:25:39-030ms Line = 4, Seized, Call Ref = 21 24/01/0716:25:39-224ms My buttons = 1, Call Ref = 21, Originator State = Dialling, Type = User, Destination State = Seized, Type = Trunk 24/01/0716:25:39-725ms Line = 4. Wait for Diatione Ended. Call Ref = 21	
seized	44001/07 16:25:39-728ms Line = 4, Dialing, Call Ref = 21, Digits = 24001/07 16:25:39-747ms Call Ref = 21, Alerting, Line = 4 24001/07 16:25:39-747ms Call Ref = 21, Alerting, Line = 4 24001/07 16:25:39-757ms My buttons = 1, Call Ref = 21, Originator State = Connected, Type = User, Destination State = Connected, Type = Trunk	
'123456789' is dialed on Analog line 4 Active Calls	24/01/07 16:25:40-254ms Extension = 210, Digit dialed, Digit = 2 24/01/07 16:25:40-254ms Extension = 210, Digit dialed, Digit = 2 24/01/07 16:25:40-755ms Extension = 210, Digit dialed, Digit = 3	
Call in disconnected	24/01/07 16:25:41-026ms Extension = 210, Digit dialed, Digit = 4 24/01/07 16:25:41-316ms Extension = 210, Digit dialed, Digit = 5 24/01/07 16:25:41-566ms Extension = 210, Digit dialed, Digit = 6 24/01/07 16:25:41-866ms Extension = 210, Digit dialed, Digit = 7	
	24/01/07 16:25:42-126ms Extension = 210, Digit dialed, Digit = 8 24/01/07 16:25:42-367ms Extension = 210, Digit dialed, Digit = 9 24/01/07 16:25:44-899ms Extension = 210, Switchhook, Status = On	
Ext 210 hangs up	248(10716:25:44-903ms My buttons = 1, Call Ref = 21, Originator State = Clearing, Type = User, Destination State = Connected, Type = Trunk 24/01/0716:25:44-903ms Call Ref = 21, Disconnect from Originator End 24/01/0716:25:44-907ms Extension = 210, State = Disconnected 24/01/0716:25:44-917ms Extension = 210, Button = 1, Idle 24/01/0716:25:44-920ms Extension = 210, State = Busy Wrap Up 24/01/0716:25:46-922ms Extension = 210, State = Idle	
	Trace Clear Pause Call Details Print Save As	
		16:25:52 Online

- Extension 210 dials 8123456789.
- The trace shows Extension = 210, Digit dialed, digit = 8.
- The system matches the dialed 8, to the system short code 8N.
- The trace shows that the system seized analog line 4 and dialed 123456789 on the line.
- The trace shows that extension 210 goes back on hook.
- The system disconnects the call.

Note:

- Analog lines do not provide call progress signalling. Therefore, they go directly from the 'seized' to the 'connected' state.
- The trace will not show the digits dialed on an analog trunk after short code matching, if the pause between digits dialed exceeds an 'inter-digit' timeout.

Related links

Extension Traces on page 130

Call Disconnected by Outside Caller

This type of trace is useful when a customer reports disconnected calls. The following example shows an outgoing call on an analog line where the external party disconnects the call.

🗾 IP Office System Status	- F-075-50E-1 (192.168.42.250)	_ 8 ×
AVAYA	IP Office System Status	
Help Snapshot LogOff Exi	t About	
System ∰ Alarms (2)	Extension Status	
Extensions (12) Ext 210 goes 'Off Hook'	Extension Number: 210	×.
202 Ext 210 dials the digit '8' for secondary dial tone	Trace Output - All Buttons: 24/01/07 17:36:49-890ms Extension = 210, Switchhook, Status = Off 24/01/07 17:36:52-810ms Extension = 210, Digit dialed, Digit = 8 24/01/07 17:36:52-810ms Mv buttons = 1. Call Ref = 28. Originator State = Dialling, Type = User, Destination Type = none	<u> </u>
-206 -207 IP Office matches the	24/01/07 17:36:53-838ms My buttons = 1, Call Ref = 28, Originator State = Dialling, Type = User, Destination State = Seized, Type = Target List 24/01/07 17:36:53-838ms Call Ref = 28, Short Code Matched = System, 8N 24/01/07 17:36:53-856ms Line = 4, Seized, Call Ref = 28 24/01/07 17:36:54-04/tms My buttons = 1, Call Ref = 28, Originator State = Dialling, Type = User, Destination State = Seized, Type = Trunk	
shortcode '8N' for secondary dial tone Analog Line 4 is seized	24/01/07 17:38:54-544ms Line = 4, Wait for Dialtone Ended, Call Ref = 28 24/01/07 17:36:54-547ms Line = 4, Dialing, Call Ref = 28, Digits = 24/01/07 17:36:54-567ms Call Ref = 28, Alerting, Line = 4 /24/01/07 17:36:54-575ms My buttons = 1, Call Ref = 28, Originator State = Connected, Type = User, Destination State = Connected, Type = Trunk	
Active Calls 123456789' is dialed on Analog Line 4	24/01/07 17:36:54-575ms Call Ref = 28, Answered, Line = 4 24/01/07 17:36:56-252ms Extension = 210, Digit dialed, Digit = 1 24/01/07 17:36:56-802ms Extension = 210, Digit dialed, Digit = 2 24/01/07 17:36:57-411ms Extension = 210, Digit dialed, Digit = 3	
Call is disconnected by	2401/07 17:36:58-77 Ims Extension = 210, Digit dialed, Digit = 5 2401/07 17:36:58-421 ms Extension = 210, Digit dialed, Digit = 5 2401/07 17:37:00-471 ms Extension = 210, Digit dialed, Digit = 6 2401/07 17:37:01-012ms Extension = 210, Digit dialed, Digit = 8	
the outside caller	24/01/07 17:37:01-811ms Extension = 210, Digit dialed, Digit = 9 24/01/07 17:37:06-420ms My buttons = 1, Call Ref = 28, Originator State = Connected, Type = User, Destination State = Clearing, Type = Trunk 24/01/07 17:37:06-420ms Call Ref = 28, Disconnect from Destination End	
Ext 210 nangs up	24/01/07 17:37:06-448ms Extension = 210, State = Discontracted 24/01/07 17:37:06-450ms Extension = 210, State = Busy Wrap Up 24/01/07 17:37:08-455ms Extension = 210, State = Iule	_
	Trace Clear Pause Call Details Print Save As	
	173	37:09 Online

- Extension 210 dials 8123456789.
- The trace shows Extension = 210, Digit dialed, digit = 8.
- The system matches the dialed 8, to the system shortcode 8N.
- The system seizes analog line 4 and dials 123456789.
- The trace shows that external party disconnecting the call.
- The system disconnects the internal user.

😵 Note:

- Extension 210 is the 'Originator' of the call, the extension dialed out and the outside party is the 'Destination End'.
- The trace does not display what occurs to digits collected after extension 210 dials 8.
- The trace does not display calls answered on analog lines.

Related links

Extension Traces on page 130

Chapter 15: Trunk Traces

You can trace all or any selection of channels on a trunk. The trace will show events relating to these channels (such as protocol messages), plus traces of all calls associated with these channels, for as long as they are associated.

The trace information for a call which is associated with a trunk channel will show the same information as a call traced from the Call Details screen. In other words, it will show changes of state for that call, plus events relating to both ends of the call.

In some territories, the central office can hold calls. In such cases, the call is no longer associated with a particular channel. When un-held, it may become associated with the same or a different channel. If such a call is initially associated with a traced trunk channel, it continues in the trace, even if re-associated with a different channel or associated with no channel.

Related links

Tracing Incoming Calls on Analog Lines on page 138

Tracing Incoming Calls on Analog Lines

The following example shows an incoming call which rings at an extension and then transfers to voicemail:

🚺 IP Office System Status -	Australia (192.168.42.9)								_ 🗆 ×	
AVAVA			TP	Office Syste	em Status					
Hole Separate LogOff Evit	ábout.									
	ADUUL									
 System Alarms (2) 	Status Utilization Summary A	larms								
Extensions (12)	Analog Trunk Summary									
Lines: 1 - 4	Slot/Module: Front Panel									
Line: 25	Number of Trunks:	4								
Line: 50	Number of Administered Trunks:	4								
Active Calls Resources	Number of Trunks in Use:	0								
	Port Line ID	Line Type	Call Ref	Current State	Time in State	Caller ID or Dialed Digits	Other Party on Call	Dire of C	ction all	
	1 Line: 1 Front Panel Port: 1	Loop Start CLI		Idle	00:43:22					
	2 Line: 2 Front Panel Port: 2	Loop Start CLI		Idle	00:44:31					
	Line: 3 Front Panel Port: 3 Line: 4 Eropt Panel Port: 4	Loop Start CLI		Idle	02:54:18					
		Loop Start CEI		100	02101110					
Incoming call Call rings at Ext 211 Call routes to mailbox for Extn 210 Caller disconnects	Trace Output - All Ports: 2601/07 13:42 24-263ms Line = 1, P 2601/07 13:42 24-263ms Line = 1, A 2601/07 13:42 24-239ms Call Ref = (2601/07 13:42 24-295ms Call Ref = (2601/07 13:42 24-295ms Call Ref = (2601/07 13:42 38-303ms Call Ref = (2601/07 13:42 38-303ms Call Ref = (2601/07 13:42 45-711ms Call Ref = (re-Alerting lerting, Call Ref = 63, Caller 33, Originator State = Dialli 33, Alerting, Extension = 21 33, Originator State = Incon 33, Retargeting 33, Originator State = Colear 33, Drisconnect from Origina	r ID Name - ng, Type = 10, Button ning Alertin nected, Tyş xtn210 ing, Type - ator End	= Extn211, Number = 211 Trunk, Destination State = = 1 g, Type = Trunk, Destinati e = Trunk, Destination State = = Trunk, Destination State =	Alerting, Type = Targe on State = Alerting, Typ te = Connected, Type = = Connected, Type = M	t List be = Target List = Mailbox Iailbox				
	Trace Clear Call Details	Print Save As.								
							Γ	14:26:08	Online	

- The system receives an incoming call.
- The system assigns a Call Ref of 63.
- The call rings at extension 211.
- The system redirects the call to the user's voicemail box.
- The external caller disconnected the call.

Trunk Traces on page 138

Chapter 16: Hunt Group

The trace examples in this section show which extensions are ringing but not the call the system delivers to the hunt group. To view details of the call, including the name of the targeted hunt group, see <u>Call Details</u> on page 93.

Related links

<u>Hunt Group Calls Sent to Voicemail</u> on page 140 <u>Answered Hunt Group Call</u> on page 141 <u>Hunt Group Queued Call Sent to Voicemail</u> on page 142 <u>Call Being Abandoned</u> on page 143 <u>Hunt Group Call Overflowing</u> on page 144

Hunt Group Calls Sent to Voicemail

The following example details a call received on the system and re-directed to voicemail:

🗊 IP Office System Sta	atus - A	Australia (192.168.4	42.9)							
AVAYA				IP C	offic	e Syste	m Status	5		
Help Snapshot LogOff	Exit	About								
SystemAlarms (0)	Stat	us Utilization Summa	ary Alarm:	5						
Extensions (12)	Analog Trunk Summary									
205	Slot/	Module:	Fro	Front Panel						
211	Num	ber of Trunks:	4							
3001 3002	Num	ber of Administered Tri	unks: 4							
3002	Num	ber of Trunks in Use:	0							
3004	Port	Line	Line	Түре	Call	Current State	Time in State	Caller ID or	Other Party	Direction
3008		ID		<i>"</i>	Ref			Dialed Digits	on Call 🧴	of Call
3010	1	Line: 1 Front Panel P	ort: 1 Loop	Start CLI		Idle	00:06:03			
3011	2	Line: 2 Front Panel P	ort: 2 Loop	Start CLI		Idle	01:53:50			
3012	3	Line: 3 Front Panel P	ort: 3 Loop	Start CLI		Idle	01:53:50			I
Outside call rings	4	Line: 4 Front Panel P	ort: 4 Loop	Start CLI		Idle	01:53:50			
In to the IP Office	<u> </u>									
Line: 25	Trace	Output - All Ports:	4 Due 01							
Ext 209 and 210	25/01/07 08:22:10-927ms Line = 1, Pre-Alerting									
ring ,	26/01	/07 08:22:11-576ms C	Call Ref = 45. O	riginator State	e = Incon	ning Alerting, Type	e = Trunk. Destinati	on State = Que	ueina. Type = I	Queue
Resources	26/01	/07 08:22:11-627ms C	Call Ref = 45, O	riginator State	e = Incon	ning Alerting, Type	e = Trunk, Destinati	on State = Aler	ting, Type = Ta	arget List
Call is redirected	26/01/07 08:22:11-627ms Call Ref = 45, Alerting, Extension = 209, Button = 1									
	26/01	/07 08:22:11-627ms C	Call Ref = 45, A	lerting, Exten:	sion = 21	0, Button = 1			1 T	
	26/01	/07/08:22:41-511fms/C /07/08:22:53_464ms/C	.all Ref = 45, ∪ `all Ref = 45, 0	riginator State riginator State	e = Clear e = Clear	ected, Type = Tru ing Type = Trunk	nk, Destination State	te = Connected = Connected, T	x, Type = Malib Type = Mailbox	ox
Call is routed to	26/01	/07 08:22:53-464ms C	Call Ref = 45, D	isconnect fro	m Origina	ator End	Dootination otato) po = mailbox	
Voicemail					-					×
						_				
	Trac	e Clear ⊆all Det	tails <u>P</u> ri	nt	<u>5</u> ave As.					
									08:28:56	Online

- The system receives an external call.
- The call rings at extension 209 and extension 210.
- The system re-directs the call to voicemail.

Hunt Group on page 140

Answered Hunt Group Call

The following example details a call received and answered by a hunt group member:

🚺 IP Office System Stat	:us - Australia (192.168.42.9)											
AVAYA		IP O	ffice	System	Status							
Help Snapshot LogOff	Exit About											
 System Alarms (0) Extensions (12) 	Status Utilization Summary	Alarms	A	T 1.0								
Trunks (6)	Anaiog Trunk Summary											
Lines: 1 - 4	Slot/Module:	Front Panel										
Line: 25	Number of Trunks:	4										
Line: 50 Active Calle	Number of Administered Trunks:	4										
Resources	Number of Trunks in Use:	0										
	Port Line ID	Line Type	Call Ref	Current State	Time in State	Caller ID or Dialed Digits	Other Party on Call	Direction of Call				
	1 Line: 1 Front Panel Port: 1	Loop Start CLI		Idle	00:03:09							
	2 Line: 2 Front Panel Port: 2	Loop Start CLI		Idle	00:07:01							
	3 Line: 3 Front Panel Port: 3	Loop Start CLI		Idle	00:07:01							
	4 Line: 4 Front Panel Port: 4	Loop Start CLI		Idle	00:07:01							
	Trace Output - All Ports:	Trace Output - All Ports:										
	26/01/07/06:18:22-494ms_Line = 1 26/01/07/06:18:23-118ms_Line = 1	, Pre-Alerting Alerting: Call Ref = 5 (Caller ID N	ame = Exto211 Nur	mber = 211							
Call rings at Ext 209	26/01/07 06:18:23-143ms Call Ref	= 5, Originator State = I	ncoming /	Alerting, Type = Tru	nk, Destination Sta	te = Queueing, T	ype = Queue					
and Ext 210 🔹	26/01/07 06:18:23-194ms Call Ref	= 5, Originator State = I	ncoming /	Alerting, Type = Trui	nk, Destination Sta	te = Alerting, Ty	pe = Target Lis	t				
	26/01/07 06:18:23-194ms Call Ref	= 5, Alerting, Extension	i = 209, Bi	utton = 1								
Ext 209 answers the	26/01/07/06:16:23-194ms Call Ret 26/01/07/06:18:27-746ms Extensio	= 5, Alerting, Extension on = 209, Switchhook, 9	і = 210, Бі Status = О	utton = 1 ff								
call	26/01/07 06:18:27-781ms Call Ref	= 5, Originator State =	Connecte	 1, Type = Trunk, De:	stination State = Co	onnected, Type	= User					
5 4 999 1	26/01/07 06:18:27-781 ms Call Ref	= 5, Answered, Extens	ion = 209									
Ext 209 hangs up	26/01/07 06:18:36-696ms Extensio	on = 209, Switchhook, S	Status = 0	n 								
	26/01/07/06:18:36-700ms_Call Ref 26/01/07/06:18:36-700ms_Call Ref	= 5, Originator State = 4 = 5. Disconnect from D	connecte: estination	3, Type = Trunk, De: End	stination State = Ci	earing, Type = C	Iser					
Outside call is	20/01/07/00.10.30-700his Cainten	- 5, Disconnect from D	estination	Ena								
นเอะบาและเลน	/ L											
	Tra <u>c</u> e Clearali Details	Print Sa	ve As									
							06:21:46	Online				

- An outside call (originator) rings at extension 209 and extension 210.
- Extension 209 (destination end) answers the call.
- Extension 209 hangs up the call.
- The system disconnects the external caller.

Hunt Group on page 140

Hunt Group Queued Call Sent to Voicemail

The following example details an incoming call, sent to the hunt group's queue and then redirected to voicemail:

🗊 IP Office System Statu	us - <mark>A</mark>	ustralia (19	92.1 <mark>68.42.9)</mark>								_ 🗆 🗵	
AVAYA	A IP Office System Status											
Help Snapshot LogOff E	Exit	About										
 System Alarms (0) 	Status Utilization Summary Alarms											
Extensions (12)	Analog Trunk Summary											
Lines: 1 - 4	SI	lot/Module:		Front Panel								
Line: 25	N	umber of Trur	nks:	4								
Line: 50	N	umber of Adm	inistered Trunks:	4								
Active Calls	N	umber of Trur	nks in Use:	0								
Resources					- II			c II - ro				
	PO	art Line ID		Line Type	Call Ref	Current State	Time in State	Caller ID or Dialed Digits	Other Party on Call	Direction of Call		
		1 Line: 1 Fr	ront Panel Port: 1	Loop Start CLI		Idle	00:01:41					
		2 Line: 2 Fr	ront Panel Port: 2	Loop Start CLI		Idle	00:14:11					
		3 Line: 3 Fr	ront Panel Port: 3	Loop Start CLI		Idle	00:14:11					
		4 Line: 4 Fr	ront Panel Port: 4	Loop Start CLI		Idle	00:14:11					
Outside call rings in to												
the IP Office												
		0. t t - 1	ll Davidas									
The call is sent to	Nira Pro	Ce Output - A	III Ports:	Due Alextien								
Queue	20.	/01/07/06:47:1 /01/07/06:47:4	14-097ms Line = 1, 15-521ms Line = 1	Alerting Call Ref :	= 9. Caller ID N	ame = Evto211 Nur	nher = 211					
	-26	/01/07 06:47:1	15-546ms Call Ref =	9, Originator Stal	te = Incoming /	Alerting, Type = Trur	nk, Destination State	= Queueing, Typ	e = Queue			
Queue message is	26	/01/07/06:47:1	15-580 ms Call Ref	9, Announcemer	nt = Main, Num	ber = 1		2				
played	26	/01/07 06:47:1	15-582m s Call Ref =	= 9, Originator Stat	te = Connecte	d Announcement, Ty	ype = Trunk, Destina	tion State = Queu	ueing Announc	ement, Type = Qi	Jeue	
	26	/01/07 06:47:2	23-738ms Call Ref =	 9, Originator Stat 	te = Connecte	Announcement, Ty	ype = Trunk, Destina	tion State = Queu	ueing, Type = G)ueue		
Call is redirected to	26	/01/07/06:47:2 /01/07/06:47:1	25-556m S Call Ref = 35-999m s Call Ref =	= 9, Originator Stat = 9, Originator Stat	te = Connecte te = Clearing 1	a Announcement, Ty Ivne = Trunk, Destin	ype = Trunk, Destina pation State = Conne	tion State = Conr cted: Type = Mail	iectea, Type = box	Malibox		
voicemail	V_{26}	/01/07 06:47:0	35-999ms Call Ref =	 9. Disconnect from 	om Oriainator I	ind	Idition State - Connes	otou, 13pc - mui	507			
1					-							
		_1	5 11 D 1 1			1						
	T	ra <u>c</u> e Clear	<u>C</u> all Details	Print	<u>S</u> ave As							
										06:49:17	Online	

- The system receives an external call.
- The system sends the call to the hunt group's queue.
- The system plays the queue message.
- The system re-directs the call to voicemail.

Hunt Group on page 140

Call Being Abandoned

The following example details an incoming call sent to the hunt group's queue and then disconnected by the outside caller (Originator):

🗾 IP Office System Statu	ıs - Australia (192.168.42.9)							_ 🗆	×		
AVAVA	IP Office System Status										
Help Snapshot LogOff E	ixit About			-							
 System Alarms (0) 	Status Utilization Summary	Alarms									
Extensions (12)	Analog Trunk Summary										
L Trunks (6)	Slot/Module: Front Panel										
Line: 25	Number of Trunks:	4							Ш		
Line: 50	Number of Administered Trunks:	4							Ш		
Active Calls Resources	Number of Trunks in Use:	0							Ш		
	Port Line	Line Type	Call	Current State	Time in State	Caller ID or	Other Party	Direction	ſ		
	ID 1 Line: 1 Front Papel Port: 1	Loop Start CLI	Ref	Idle	00:00:23	Dialed Digits	on Call	of Call	41.		
	2 Line: 2 Front Panel Port: 2	Loop Start CLI		Idle	00:00:23						
	3 Line: 3 Front Panel Port: 3	Loop Start CLI		Idle	00:19:53						
	4 Line: 4 Front Panel Port: 4	Loop Start CLI		Idle	00:19:53						
Outside call rings in to IP Office	Trace Output - All Ports:										
The call is sent to	26/01/07 06:54:28-284ms Line = 1 26/01/07 06:54:28-908ms Line = 1	l, Pre-Alerting Alerting Call Ref = 1	3 Caller II) Name = Evto211_N	lumber = 211				Ш		
Queue	26/01/07 06:54:28-932ms Call Ret	f = 13, Originator State	= Incomin	g Alerting, Type = Ti	runk, Destination Sta	te = Queueing, T	ype = Queue				
Queue message is	26/01/07 06:54:28-967ms Call Ret	= 13, Announcement	= Main, N	umber = 1							
played	26/01/07 06:54:28-969ms_Call Ret 26/01/07 06:54:36-186ms_Call Ret	r = 13, Originator State f = 13, Originator State	: = Connec : = Cleario:	ted Announcement, Type = Trunk Des	, Type = Trunk, Destin stination State = Ouer	nation State = Qu Jeing Announces	ieueing Annou ment: Type = 0	ncement, Type = Queue			
	26/01/07 06:54:36-186ms Call Ret	f = 13, Disconnect from	n Originato	or End	Annahori State - Guet	ading Announcer	nona, rypo – G				
Outside caller hangs	1		-								
up											
									_		
	Trace Clear Call Details	Print	jave As								
								06:54:59 Online			

- The system receives an external call.
- The system sends the call to the hunt group's queue.
- The system plays the queue message.
- The external caller disconnects the call.

Hunt Group on page 140

Hunt Group Call Overflowing

The following example details a call received at one hunt group, re-directed to a second hunt group and then redirected to voicemail:

Hunt group call overflowing to a second hunt group and then answered by Voicemail:
🗊 IP Office System Status	- Australia (192.168.42.9)							
AVAYA			IP	Office Syste	em Status			
Help Snapshot LogOff Exi	t About							
System	Status Utilization Summary	Alarms						
Extensions (12)				Analog Trunk	Summary			
Trunks (7) Lines: 1 - 4	Slot/Module:	Front Panel		-	-			
Line: 25	Number of Trunks:	4						
Line: 50	Number of Administered Trunks:	4						
Resources	Number of Trunks in Use:	0						
	Port Line ID	Line Type	Call Ref	Current State	Time in State	Caller ID or Dialed Digits	Other Party on Call	Direction of Call
	1 Line: 1 Front Panel Port: 1	Loop Start CLI		Idle	00:04:45			
	2 Line: 2 Front Panel Port: 2 3 Line: 3 Front Panel Port: 3	Loop Start CLI	_	Idle	01:04:43			
	4 Line: 4 Front Panel Port: 4	Loop Start CLI		Idle	01:04:43			
Outside call rings in to IP Office The call rings at Ext 209 and Ext 210	Trace Output - All Ports:							
	26/01/07 12:31:22-730ms Line = 1, A	Alerting, Call Ref = 37, Calle	r ID Name	= Extn3008, Number = 300	18			
Queue message is played The call is being redirected to the Overflow group The call is sent to the Mailbox of the hunt group	28/01/07 12.31:22-785ms Call Ref = 37, Originator State = Incoming Alerting, Type = Trunk, Destination State = Queueing, Type = Queue 26/01/07 12.31:22-2820ms Call Ref = 37, Alerting, Extension = 210, Button = 1 26/01/07 12.31:22-2830ms Call Ref = 37, Alerting, Extension = 209, Button = 1 26/01/07 12.31:22-2830ms Call Ref = 37, Originator State = Connected Announcement, Type = Trunk, Destination State = Alerting Announcement, Type = Target List 20/01/07 12.31:32-930ms Call Ref = 37, Originator State = Connected Announcement, Type = Trunk, Destination State = Alerting, Type = Target List 20/01/07 12.31:30-930ms Call Ref = 37, Originator State = Connected Announcement, Type = Trunk, Destination State = Alerting, Type = Target List 20/01/07 12.31:30-930ms Call Ref = 37, Alerting, Extension = 201, Button = 1 26/01/07 12.31:30-930ms Call Ref = 37, Alerting, Extension = 201, Button = 1 26/01/07 12.31:30-930ms Call Ref = 37, Alerting, Extension = 201, Button = 1 26/01/07 12.31:30-930ms Call Ref = 37, Alerting, Extension = 201, Button = 1 26/01/07 12.31:30-930ms Call Ref = 37, Alerting, Extension = 201, Button = 1 26/01/07 12.31:30-930ms Call Ref = 37, Alerting, Extension = 201, Button = 1 26/01/07 12.31:42-794ms Call Ref = 37, Originator State = Connected Announcement, Type = Trunk, Destination State = Connected, Type = Mailbox 26/01/07 12.31:42-794ms Call Ref = 37, Originator State = Connected Announcement, Type = Trunk, Destination State = Connected, Type = Mailbox 26/01/07 12.31:42-794ms Call Ref = 37, Originator State = Connected Announcement, Type = Trunk, Destination State = Connected, Type = Mailbox 26/01/07 12.31:42-794ms Call Ref = 37, Originator State = Connected Announcement, Type = Trunk, Destination State = Connected, Type = Mailbox 26/01/07 12.31:48-282ms Call Ref = 37, Originator State = Centring, Type = Trunk, Destination State = Connected, Type = Mailbox 26/01/07 12.31:48-282ms Call Ref = 37, Originator State = Centring, Type = Trunk, Destination State = Connected, Type = Mailbox							
	Trace Clear Call Details	Print Save As						
							12	2:36:33 Online

- 1. The system receives an outside call.
- 2. The call rings at extension 209 and extension 210.
- 3. The system plays a queue message.
- 4. The system redirects the call to an overflow hunt group.
- 5. The call rings at extension 211 (a member of the overflow hunt group).
- 6. The system redirects the call to the original hunt group's voicemail.

Hunt Group on page 140

Chapter 17: Troubleshooting

The following are examples of using the application to diagnose issues.

Related links

ISDN Calls Cutting Off on page 146 Delay between Analog Line and Extension on page 147 Expansion Units Constantly Rebooting on page 148 User Receives Busy When Calling on page 148 SCN VoIP Calls Echo or Have Poor Speech Quality on page 149 Phone User Unable to Dial Out on page 149 PRI Line is Out of Service on page 150

ISDN Calls Cutting Off

Issue

The user experiences call cut offs.

Action

Check the system configuration in IP Office Manager to make sure that all trunk parameters are correct. Ensure the parameters match those provided by the central office/network provider.

Procedure

- 1. Ensure there are no alarms on the trunks. If alarms are present on the trunks, contact your service provider.
- 2. If no alarms are present, click Trace All to establish the reasons for the call cut off..

Performing a trace should enable you to view the reason why the calls are cutting off.

For example:

In the following screen, the call was set up on Line 1, Channel 1 and the direction was to the switch (originating party):

26/01/07 12:31:38-156ms Line = 1, Channel = 1, Q.931 Message = Setup, Direction = To Switch, Calling Party Number = 909, Called Party Number = 2211 26/01/07 12:31:38-204ms Call Ref = 9, Alerting, Extension = 603, Button = 1 26/01/07 12:31:38-206ms Call Ref = 9, Originator State = Incoming Alerting, Type = Trunk, Destination State = Alerting, Type = Target List

In the following screen, the disconnect direction is to the switch (Cause Code 16 - call was cleared from the originator):

```
26/01/07 12:31:43-270ms Call Ref = 9, Answered, Extension = 603
26/01/07 12:31:49-760ms Line = 1, Channel = 1, Q.931 Message = Disconnect, Call Ref = 9, Direction = To Switch, Cause Code = 16
26/01/07 12:31:49-763ms Line = 1, Channel = 1, Q.931 Message = Release, Call Ref = 9, Direction = From Switch
26/01/07 12:31:49-959ms Line = 1, Channel = 1, Q.931 Message = ReleaseComplete, Call Ref = 9, Direction = To Switch
26/01/07 12:31:49-964ms Call Ref = 9, Originator State = Clearing, Type = Trunk, Destination State = Connected, Type = User
26/01/07 12:31:49-964ms Call Ref = 9, Disconnect from Originator End
26/01/07 12:31:49-985ms Line = 1, Idle, Channel ID = 1
```

If another cause code is shown, it indicates that there is an error condition on the line.

Related links

Troubleshooting on page 146

Delay between Analog Line and Extension

Issue

An incoming analog line rings several times before presenting the call to an extension.

Action

- 1. If the analog trunk is configured to wait for caller ID (CLI/ICLID) information from the central office and the information is not being provided, there will be a delay between the time the line/trunk rings and the call being presented to the extensions.
- 2. Check the system configuration in IP Office Manager and ensure the analog trunk parameters are correct and that they match those provided by the central office.

Procedure

 In the Analog Trunk Summary, click the Alarms tab. If the central office is not providing Caller ID information, System Status displays No Caller ID received under Error Description.

🔝 IP Office System Status - F-0	075-IP500-1 (192.168.42.120)			
AVAYA		IP Office	System Status	
Help Snapshot LogOff Exit Ab	About			
►-System ▲ 	Status Utilization Summary Alarn	15		
		Alar	ms for Lines: 13 - 16 Slot: 4	
4 Line: 2 (1) 4 Line: 3 (1)	Last Date Of Error	Occurrences	Error Description	
	25/01/2007 18:31:02	1	No Caller ID received Port Number: 10	
Line: 9 (0) Line: 13 (0)				
Line: 14 (1) Line: 15 (0) Line: 16 (0)				
Link (1) E-Extensions (73)	Clear Clear All Print	Save As		
				18:32:55 Online

- 2. From IP Office Manager, change the configuration to Loop Start only, as follows:
 - a. Log on to IP Office Manager and open the system configuration.
 - b. From the configuration tree, select **Line** and double-click the analog trunk in question.

- c. On the Line tab, change Line SubType to Loop Start.
- d. Alternatively, have the central office enable CLI/ICLID on the trunks.

Troubleshooting on page 146

Expansion Units Constantly Rebooting

lssue

Expansion units constantly reboot.

Action

- 1. Check the power supply for failure or faulty power bricks.
- 2. As a precaution, replace the power brick.
- 3. Check that the cable between the control unit and the resetting module.
- 4. Change the module with another module or plug the TDM cable in to another spare slot.

Procedure

- 1. View error messages by clicking **Alarms** and then the link.
- 2. The total number of times that system has lost contact with the module is displayed in the Occurrences column.

Related links

Troubleshooting on page 146

User Receives Busy When Calling

Issue

User receives Busy when calling voicemail (internal and external).

Action

- 1. Check that Voicemail Pro/Embedded is running.
- 2. If you are running Voicemail Pro, check that you have correctly configured Voicemail Channel Reservation:

Procedure

- 1. To view the number of times all voicemail channels have been in use, click **Resources**:
- 2. When all voicemail channels are in use, the system returns Busy to the caller.
- 3. Inform the user that they need to purchase more voicemail channels.

Troubleshooting on page 146

SCN VoIP Calls Echo or Have Poor Speech Quality

Issue

Calls over Small Community Network (SCN) VoIP trunks, echo or have poor speech quality.

Action

Check the system configuration in IP Office Manager and make sure all VoIP trunk parameters are correct and that they match the remote end of the SCN.

Procedure

- 1. Click System and then VoIP Trunks.
- 2. To view the details of the call, click one of the channels:
- 3. Check the **Originator** figures for the following:
 - Round Trip Delay
 - Receive Jitter
 - Receive Packet Loss
 - Transmit Jitter
 - Transmit Packet Loss
- 4. Open another System Status Application and click on the channel to monitor the **Destination** figures:
- 5. If the figures are high, consult your network administrator to make the necessary changes to the network to improve the situation.

Related links

Troubleshooting on page 146

Phone User Unable to Dial Out

lssue

Phone user without caller display is unable to dial out.

Action

From IP Office Manager, check that the user is not barred from making outside calls.

Procedure

Click Extensions and then double-click the specific extension.

Troubleshooting on page 146

PRI Line is Out of Service

lssue

PRI lines (set for N12 protocol) experience out of service and callers are unable to dial out or place a call into the system.

Action

Unplugging and plugging the PRI cord from the PRI slot will bring the line back in to service and allow calls to go out.

Procedure

- 1. Click Alarms and then Trunks.
- 2. Click the line number of the PRI.
- 3. Select the 24-Hour Performance History tab.

The example above shows that the PRI line experienced clock slips and missed frames. This issue may be resolved by replacing the wiring from the PRIs smart jack and the system.

Related links

Troubleshooting on page 146

Part 4: Further Help

Chapter 18: Additional Help and Documentation

The following pages provide sources for additional help.

Related links

Additional Manuals and User Guides on page 152 Getting Help on page 152 Finding an Avaya Business Partner on page 153 Additional IP Office resources on page 153 Training on page 154

Additional Manuals and User Guides

The <u>Avaya Documentation Center</u> website contains user guides and manuals for Avaya products including IP Office.

- For a listing of the current IP Office manuals and user guides, look at the <u>Avaya IP Office[™]</u> <u>Platform Manuals and User Guides</u> document.
- The <u>Avaya IP Office Knowledgebase</u> and <u>Avaya Support</u> websites also provide access to the IP Office technical manuals and users guides.
 - Note that where possible these sites redirect users to the version of the document hosted by the <u>Avaya Documentation Center</u>.

For other types of documents and other resources, visit the various Avaya websites (see <u>Additional IP Office resources</u> on page 153).

Related links

Additional Help and Documentation on page 152

Getting Help

Avaya sells IP Office through accredited business partners. Those business partners provide direct support to their customers and can escalate issues to Avaya when necessary.

If your IP Office system currently does not have an Avaya business partner providing support and maintenance for it, you can use the Avaya Partner Locator tool to find a business partner. See <u>Finding an Avaya Business Partner</u> on page 153.

Related links

Additional Help and Documentation on page 152

Finding an Avaya Business Partner

If your IP Office system currently does not have an Avaya business partner providing support and maintenance for it, you can use the Avaya Partner Locator tool to find a business partner.

Procedure

- 1. Using a browser, go to the Avaya Website at https://www.avaya.com
- 2. Select **Partners** and then **Find a Partner**.
- 3. Enter your location information.
- 4. For IP Office business partners, using the Filter, select Small/Medium Business.

Related links

Additional Help and Documentation on page 152

Additional IP Office resources

In addition to the documentation website (see <u>Additional Manuals and User Guides</u> on page 152), there are a range of website that provide information about Avaya products and services including IP Office.

<u>Avaya Website (https://www.avaya.com)</u>

This is the official Avaya website. The front page also provides access to individual Avaya websites for different regions and countries.

Avaya Sales & Partner Portal (https://sales.avaya.com)

This is the official website for all Avaya business partners. The site requires registration for a user name and password. Once accessed, you can customize the portal to show specific products and information type that you want to see.

• Avaya IP Office Knowledgebase (https://ipofficekb.avaya.com)

This site provides access to an online, regularly updated version of IP Office user guides and technical manual.

• Avaya Support (https://support.avaya.com)

This site provide access to Avaya product software, documentation and other services for Avaya product installers and maintainers.

- Avaya Support Forums (https://support.avaya.com/forums/index.php)

This site provides forums for discussing product issues.

International Avaya User Group (https://www.iuag.org)

This is the organization for Avaya customers. It provides discussion groups and forums.

Avaya DevConnect (https://www.devconnectprogram.com/)

This site provides details on APIs and SDKs for Avaya products, including IP Office. The site also provides application notes for third-party non-Avaya products that interoperate with IP Office using those APIs and SDKs.

• Avaya Learning (https://www.avaya-learning.com/)

This site provides access to training courses and accreditation programs for Avaya products.

Related links

Additional Help and Documentation on page 152

Training

Avaya training and credentials ensure our Business Partners have the capabilities and skills to successfully sell, implement, and support Avaya solutions and exceed customer expectations. The following credentials are available:

- Avaya Certified Sales Specialist (APSS)
- Avaya Implementation Professional Specialist (AIPS)
- Avaya Certified Support Specialist (ACSS)

Credential maps are available on the Avaya Learning website.

Related links

Additional Help and Documentation on page 152

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