

IP Office 5.0 System Status Application

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Introduction to SSA

Overview

The System Status Application (SSA) is a diagnostic tool for system managers and administrators, in order to monitor and check the status of IP Office systems. SSA shows both the current state of an IP Office system and details of problems that have occurred.

To assist with fault finding and diagnosis, the information reported is a combination of real-time and historical events as well as status and configuration data.

SSA provides real-time status, historic utilization and alarm information for ports, modules and expansion cards on the system.

SSA connects to all variants of IP Office 4.0 and higher software, using an IP connection that can be remote or local.

SSA provides information on the following:

Alarms

SSA displays all alarms which are recorded within IP Office for each device in error. The number of occurrences and the date and time of the last occurrence are recorded.

Call Details

Information on incoming and outgoing calls; including call length, call reference and routing information.

• Extensions

SSA details all extensions (including device type and port location) on the IP Office system. Information on the current status of a device is also displayed.

• Trunks

IP Office trunks and connections (VoIP, analog and digital) and their current status are displayed.

• System Resources

IP Office includes central resources that are utilized to perform various functions. Diagnosing these resources is often critical to the successful operation of the system. Those resources include:

- Voicemail Channels
- Conference Channels
- Data Channels
- VCM Channels
- Modem Channels

Notes

- SSA is not a configuration tool for IP Office systems. For information on configuration, refer to IP Office Manager.
- There can be up to two SSA clients connected to an IP Office unit at one time. However, two connections are not permitted from clients at the same IP address.
- SSA cannot be used from the same PC as the IP Office Customer Call Reporter application.

Installing the Application

SSA is a component of the IP Office 4.0+ suite of applications. This suite is supplied on the IP Office Applications DVD.

To install SSA:

- 1. If a pre-4.0 version of the IP Office Admin suite is installed, it must be removed. To do this:
 - a. From the Windows Control Panel, click Add or Remove Programs.
 - b. Click IP Office Admin Suite and then click Remove.
- 2. Insert the CD. The installation process should auto start. If it does not auto start, open the CD contents and doubleclick **setup.exe**.
- 3. Select the language you want to use for the installation process and click **Next**.
- 4. Select whether only the current Windows logon account should be able to run the Admin suite applications or whether they will be available to all users of the PC. Click **Next**.
- 5. If required, select the destination to which the applications should be installed. Avaya recommends that you accept the default destination. Click **Next**.
- 6. The following screen is used to select which applications in the suite should be installed:

🙀 IP Off	ice Ao	dmin Su	ite - InstallShiel	d Wizard			×
Custon Select	the pr	ip rogram fe	atures you want ir	nstalled.			4
Click on	an icor	n in the li	st below to change	how a feature is ins	talled.		
	■• ו ■•	System Feature Manage System	Monitor Key Server r Status Application		Feature Descript Monitors the stat system	tus of the	
		This feature will be installed on local hard drive. This feature, and all subfeatures, will be installed on local hard drive.					
	1 This feature will be installed when required.						
 Install tu	Install ty This feature will not be available.						
C:\Progr	am File	es\Avaya	\IP Office\System :	Status\		<u>⊂</u> hange	
InstallShie	eld —						
	Help	,	Space	< <u>B</u> ack	<u>N</u> ext >	Cancel	

Clicking on each application will display a description. To change the installation selection, click $\mathbf{\nabla}$ next to each application. When you have selected the installations required, click **Next**.

- 7. Click Install.
- 8. Following installation, you will be prompted whether you want to run the IP Office Admin Suite. To run the suite, click **Yes**.

Assigning Security Settings

For new IP Office installations or where the security settings have been defaulted, then the default IP Office service users (Administrator, Manager and Operator) I all have SSA access rights. For full details of security settings refer to the IP Office Manager application documentation or help.

For an IP Office service user to be able to use SSA to logon to a system, they must belong to a Rights Group on that system that has System Status Access enabled. In addition if they want to take snap shots that include a copy of the system configuration Read all configuration must be enabled.

File Edit View Iools Help	🜃 Avaya IP Office Manager 6.0.01.10	01.1031[security]		_ 🗆 🗵
	<u>File E</u> dit <u>V</u> iew <u>T</u> ools <u>H</u> elp	lp		
	2. 🖃 🖃 🔜 🔝 🖌 🖌			
Security Settings Rights Groups Rights Group Security Security </th <th>Security Settings Security General System Services Rights Groups Service Users</th> <th>Rights Groups Name Administrator Group Manager Group Operator Group System Status Group</th> <th>Rights Group : System Status</th> <th>< >]</th>	Security Settings Security General System Services Rights Groups Service Users	Rights Groups Name Administrator Group Manager Group Operator Group System Status Group	Rights Group : System Status	< >]
Ready	Ready			ا :

Starting the Application

SSA can be launched independently or via Manager.

- 1. Click the Windows Start icon and select Programs | IP Office | System Status.
 - From within the IP Office Manager application, select File | Advanced | System Status.
- 2. The following screen is displayed:

Offline Offline	
Logon	
Control Unit IP Address:	192.168.42.120 💌
Services Base TCP Port:	50804
Local IP Address:	192.168.42.200
User Name:	ssa
Password:	
Auto reconnect	
	Logon

• Control Unit IP Address

Enter the IP address of the IP Office control units LAN interface or use the drop down to select a previously used address.

• Services Base TCP Port This should match the Services Base TCP Port setting of the IP Office system, set in that systems security settings. The default is **50804**.

• Local IP Address: Default = Automatic

If the PC has more than one IP address assigned to its network card or multiple network cards, the address to use can be selected if necessary. This allows SSA to be run on a PC that is already running an SSI connection to the IP Office for the IP Office Customer Call Reporter application.

User Name/Password

Enter a user name and password that has been provided for SSA usage. This must be the name of an IP Office service user name that has been configured for system status access in the IP Office's security settings. See Assigning Security Settings.

Auto Reconnect

If selected, SSA will attempt to reconnect using the same settings if connection to the IP Office is lost.

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

Note

• If SSA fails to start up on Windows 2000 Advanced Server, run CMD and select the directory in which the SSA components are installed (by default this will be C:\Program Files\Avaya\IP Office\System Status). Then run the following command:

java -Dsun.java2d.noddraw=true -jar ssaviewer.jar

This disables the use of DirectX from Java. If SSA starts up, this suggests your system has a DirectX problem.

Possible reasons for DirectX problems:

- DirectX is not properly installed (e.g. an installation or a de-installation of a program has corrupted one or more DirectX files). Test the DirectX setup by calling the **dxdiag** tool from the command line. Re-install DirectX or the latest service pack for your system.
- The driver of the graphics card is not fully compatible with the installed DirectX version. Update to the latest driver version.

Snapshot

Snapshot allows the IP Office system status to be captured and saved. The snapshot can then be viewed offline at a later time.

To take a snapshot

- From SSA, click Snapshot:
 Select file content
 Image: Include switch configuration
 © Snapshot only
 © Continuous log
- 2. The options include switch configuration and Snapshot only are selected by default.

• Include switch configuration

The user must have **Read All Configuration** enabled in the System Status Rights Groups (see Assigning Security Settings). The same snapshot file can be opened in SSA (to examine the status of the system at the time of the snapshot) and in Manager (to examine the configuration of the system at the time of the snapshot).

Snapshot only/Continuous log

Select either a single snapshot of the current status or a continuous log of the status until logging is stopped. Note that with continuous logging, SSA must be left running and cannot be used for other activities without first stopping the logging.

Snapshot only

If this option is selected, when **OK** is clicked, SSA will request where you want to save the snapshot *.ssh* file. A default file name that includes the system name, date and time is shown but this can be replaced if required.

Continuous log

If this option is selected, when **OK** is clicked a further menu will ask for the logging settings to be used.

Select log file option	S			×
🔽 Start new log f	ile			
🔵 Daily at midnig	ght			
📀 After	20 🗢	MBytes dat	a logged	
A 20 Mbyte log file down to between	e can norma 2 and 4 Mk	ally be ZIPped sytes		
Disk space	500	🗘 MB per Se	ssion max	
			ок	

Select the settings required and click **OK**. SSA will then request where the .*slo* file should be saved. Once logging has started, the following menu is displayed. Selecting **LogOff** will close SSA

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

To open a snapshot

The menu options and buttons that relate to live information capture (such as **Refresh**) or that alter the IP Office state (such as Clear Alarms) are not available. The menu options **Snapshot** and **LogOff** are replaced by **Properties** and **Close**. Properties shows when the snapshot was taken and by whom.

1. From the Logon screen, click the **Offline** tab:

Online	Offline	
		Select a file

- 2. Click Select a file...
- 3. Locate the saved snapshot .*ssh* or .*slo* file and click **Open** to display the file.
- 4. For .slo continuous log files, the menu bar option **Replay** can be used to display a menu for controlling the playback of the log file.

Replay	×
Current View at Time : 28/08/07 13:48:01-507 ms (System uptime 1637659507 ms) ⊢Play forward	_
100 ms 1 s 10 s	
Play until 2007 - 08 - 28 13 : 48 : 01	
Stop Press a button to continue	
Move To StartOfUpdates 28/08/07 13:47:54-185 ms Set Marker Delete Marker	•

Using the Application

Overview

This section describes how to navigate and access the features available in SSA. The following screen shows the layout of the application:

ΔΥΔΥΔ	ID Office System Status						
-uryr.				nee bystem b	cucus		
elp Snapshot LogOff Exil	t About MENU	BAR					
-System - 🏜 Alarms (6) - Extensions (22)	You can get more ir	nformation about an e	xtension by double-clicking th	Extension Summary the Home Extension Number.	INFORMATIO	N PANEL	
-280 -299 -601	Home Extension Number	Current User Extension	Current User Name	Module/ Slot/ IP Address	Port Number/ MAC Address	Telephone Type	Number of New Messages
602 603	6747 6748	6747 6748	Extn6747 Extn6748	Module: 5 Module: 5	1 2	POT (CLI On) POT (CLI On)	0
	6749 6750 6751	6749 6750 6751	Extn6749 Extn6750 Extn6751	Module: 5 Module: 5 Module: 5	3 4 5	POT (CLI On) POT (CLI On) POT (CLI On)	0
-607 608	6752 6753	6752	Extnoros Extn6752 Extn6753	Module: 5 Module: 5	6 7	POT (CLI On) POT (CLI On) POT (CLI On)	0
-609 -610	6754 601	6754 601	Extn6754 Doris Salaam	Module: 5 Control Unit - Phone Ports	8	POT (CLI On) POT (CLI On)	0
—6667 —6747	603 604	603 604	Alice Ababa BorisAeris	Control Unit - Phone Ports Control Unit - DS Ports Control Unit - DS Ports	1	2420 2410	0
	605 606	605 606	TristramDaCunha Sam Jose	Control Unit - DS Ports Control Unit - DS Ports	3 4	9040 or 3810 2402	0
	607 608	607	Kate Cod	Control Unit - DS Ports Control Unit - DS Ports	5	Unsupported Classm unplugged	. 0
	609 610 280	280	MontyCarlo	Control Unit - DS Ports Control Unit - DS Ports	7 8 00.09.65.08.13.86	T3 Comfort unplugged	0
Trunks (26) Active Calls	299 6666	299 6666	Ben Becula Steven Edge	192.168.42.20	00-09-6E-07-B6-C9	5602 DECT IP	0
Resources	6667	6667	Peter Burrow	IP DECT module		DECT IP	0
	Refresh P	rint	TTON BAR				
				STATUS	BAR	10:14	45 AM

Navigation Panel

The Navigation Panel displays a list of items on which information can be selected and displayed in the .



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; click **Extensions** and the **Extension Summary** screen is displayed.

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.

Button Bar

The table below provides a description of the various buttons available from 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 absolute time at which the reported 15 minute period started (HH:MM in 24 hour clock format). See also Relative Time.			
Back	Returns to the previously selected screen.			
Call Details	Displays call details/traces. Only valid when a single row showing an active call is selected.			
Clear	Clears all the alarms that have been selected. Any alarm still active will remain with the count of 1.			
Clear Abandoned Calls	Clears all listed abandoned calls, updates the date and time and enables further abandoned calls to be logged.			
Clear All	Clears all listed alarms. Any alarm still active will remain with the count of 1.			
Conference Details	Available for call details when the call is connected to a conference.			
Details	Available from the IP 500 System Hardware Summary. Shows more information about the system, e.g. Loader, FPGA and PCB versions.			
Disconnect	Clears the current call.			
Full Details	Applies to Active Calls. Resumes the full display.			
Pause	Stops the screen from updating. Applies to screens that are continually updated. See also Resume.			
Ping	Pings the IP address of the displayed extension or trunk.			
Print	Prints all information available in the current screen (including any information currently scrolled off).			
Refresh	Updates the screen. Applies to screens that are not automatically updated, such as Extension Summary.			
Relative Time	Applies to the 24 Hour Performance History. Indicates how far into the 15 minute interval the line is (e.g. 3 minutes will show as 00:03). The times following that will be displayed in relationship to the current time as HH:MM (e.g. subtract 15 minutes from the current interval to get the next one).			
Reset	Applies to the Utilization Summary. Resets all counters and timers to 0.			
Resume	Resumes updating screen in real time.			
Save As	Saves all information that is available on the screen. By default, the information is saved as a .txt file. For screens that include traces, the trace only can be saved as a .csv file.			
Show Blanks	Applies to 24 Hour Performance History. 0 error values for each line appear as blanks.			
Show Zeros	Applies to 24 Hour Performance History. 0 error values for each line are displayed.			
Summary	Returns to the System Hardware Summary. See also Details.			
Trace	Starts a trace of the rows selected. The trace is displayed for each call associated with the selected trunk ports or extension button. See Tracing.			
Trace All	Starts a trace for the whole trunk group or extension. The trace is displayed for all calls associated with the trunk or extension.			
Trace Clear	Clears the trace and continues tracing.			

Menu Bar

Overview

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

- Help
- Opens the SSA help system.
- LogOff
 - Logs off of the control unit and returns to the login screen.
- Exit
 - Closes the SSA application.
- About

Displays the SSA version number and copyright information. To close, click OK.

Snapshot

Captures the complete status of an IP Office system at a particular time and saves this to file. SSA can then be used offline to browse this information.

Help

To open the help system, click $\ensuremath{\text{Help}}$ from the menu bar. Alternatively, click $\ensuremath{\text{F1}}.$

If applicable, the help will open at the page relating to the screen currently displayed, otherwise **About this Guide** is displayed.

Screens

System

System Hardware Summary

When you first log on to SSA, the System Hardware Summary screen is displayed, detailing information about the system modules.

The format and layout of the screen will vary according to the type of IP Office control unit. For IP Office 500 control units the **Details** button allows additional information to be displayed. This additional information can be hidden again by clicking on the **Summary** button.

D Office System Status - IP500 Site A (192.168.42.1)					
avaya	IP Office System Status				
Help Snapshot LogOff Exit	About				
■ > System ■ Control Unit (IP500)		System Hardware Sumr	nary		
I Slot 1 DS Phones I Slot 2 Trunk Mor	Control Unit: IP500	Current Firmware: 4.2 (11007)			
E Slot 3 POT Phon Slot 3 Trunk Mor	Mode: Professional	Compact Flash: CompactFlash	512M		
■ VolP Trunks (2) ■ H.323 Extensions	Control Unit Slots: Slot Number				
 ■ ▲ Alarms (10) ■ Extensions (17) 	1	Base: DS 8	Daughter card: None		
Trunks (10) Active Calls	2	Base: VCM64	Daughter card: Quad BRI		
Resources Licenses	3	Base: Phone 8	Daughter card: ATM4		
Directory Control Unit Audit	4		Empty		
Voicemail Mailboxes	External Modules:	1_			
IP Networking IP Pourtee	Module Number	Туре	Current Firmware		
Tunnels	1	not present			
	2	not present			
	3	not present	×		
<	Details				
			08:32:15 Online		

Click **Details** for more information.

🔝 IP Office System Status	- IP500 Site A	(192.168.42.1)							
AVAYA		IP Offic	e System S	itatus					
Help Snapshot LogOff Exit	About								
 System Control Unit (IP500) 	System Hardware Details								
E Slot 1 DS Phones	Control Unit:	IP500	Current Firmware:	4.2 (11007)					
 Slot 2 Trunk Mot Slot 3 POT Phone 	Loader Version:		CPU Version:	MPC8248 CPU Revision 0x0c10					
Slot 3 Trunk Mod VolP Trunks (2)	Board Version:	0×A0	PLD Version:	0x17					
H.323 Extensions	Options Present:	0x802	FPGA:	ld=0x1, lssue=0x0, Build=0x5E					
E Extensions (17)	NAND Flash:	64M, Hynix	RTC Battery:	present					
Trunks (10) Active Calls	RTC Last Update	: 05/02/2008 07:46:34							
	LAN1 MAC Addr	ess: 00-E0-07-02-6F-AC	LAN2 MAC Address	s: 00-E0-07-82-6F-AC					
Licenses Directory	Mode:	Professional	Compact Flash:	CompactFlash 512M, STI Flash 7.0.0 😑					
Incoming Call Route Control Unit Audit	Control Unit Slots:								
Voicemail	Slot Number	tot Number							
Mailboxes IP Networking		Dase. DS 6, Doard Version-0x0	CO, PED Version-0x5						
IP Routes Tunnels	2 E	Base: VCM64, Board version=0:	x1, PLD version=0x10	Daughter card: Quad BRI, Board version=0>					
Tainiois	3 E	8ase: Phone 8, Board version=(0x1, PLD version=0x3	Daughter card: ATM4, Board version=0x0					
	4	Empty							
	External Modules	y.							
	Module Number	ד	уре	Current Firmware					
	<	1	not preser	t 🖉					
<	Summary								
				08:34:19 Online					

Control Unit Port

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.



Extension Ports

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.

🗾 IP Office System Statu	is - IP500 Site A (192.168.42.1)		
avaya	IP Office System Status		
Help Snapshot LogOff Exi	t About		
 ■ System ■ Control Unit (IP500) ■ ► Slot 1 DS Phon ■ Slot 2 Trunk Moi ■ Slot 3 POT Phoni Slot 3 Trunk Koi ■ VoIP Trunks (2) ■ H.323 Extensions ■ ▲ Alarms (10) ■ Extensions (17) ■ Trunks (10) Active Calls ■ Resources Licenses Directory Control Unit Audit ■ Voieemail Mailboxes ■ IP Networking IP Routes Tunnels 	Select a port to display the Extension Status Port Number Port 1 Port 2 Port 3 Port 4 Port 5 Port 6 Port 7 Port 8		
		00:05:50	Online
		08:35:59	i Online

Select a device to display information on it.

🗾 IP Office System Statu	is - IP500 9	Site A (19	2.168.4	2.1)				
AVAYA		IP Office System Status						
Help Snapshot LogOff Exit	: About							
System					Extension S	tatus		
🗏 Slot 1 DS Pho	Extensio	n Number:		203				
Port 1 Port 2	Slot:			1				
Port 3	Port:			3				
Port 4	Telephor	ne Type:		5410				
Port 5	Current l	Jser Extens	ion Number	203				
Port 6	Current I	lser Name:		Extn203				
Port / Port 8	Eorward	ina:		0#				
F Slot 2 Trunk I	Turinging			011				
I Slot 3 POT Ph	De Net D	3. : - 4		011				
Slot 3 Trunk I	DO NOT D	Isturio:		Off				
TVoIP Trunks (2)	Message	e VValting:		On				
H.323 Extensions	Number	of New Mes	sages:	1				
H Alarms (10) Evtensions (17)	Phone M	anager Typ	B:	None				
Trunks (10)	Button	Button	Call Ref	Current State	Time in State	Calling Number	Direction	Other Party on Call
Active Calls	Number	Туре				or Called		
🗏 Resources	1	CA		ldle	00:29:35			
Licenses 📃	2	CA		Idle				
Directory Control Unit Aud	3	CA		ldle				
Voicemail								
~		1					i	
< <u> </u>	Trace	Trace .		ause <u>C</u> all	Details	Print Sa	ve As	
· · · · · · · · · · · · · · · · · · ·							Γ	08:38:41 Online

Trunk Ports

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.

💵 IP Office System Statu	s - IP500 Site A (192.168.42.1)		
avaya	IP Office System Status		
Help Snapshot LogOff Exi	: About		
System Control Unit (IP5(Slot 1 DS Pho Port 1 Port 2 Port 3 Port 4 Port 5 Port 6 Port 7 Port 8 Slot 2 Trun Slot 3 POT Ph Slot 3 Trunk I VolP Trunks (2) H H.323 Extensions Alarms (10) Extensions (17) Trunks (10) Active Calls Resources Licenses Directory Control Unit Audi Voicemail	Select a port to display the Trunk Summary Port Number Port 1 Port 2 Port 3 Port 4		
	Select		
		08:39:35	Online

Select a device to display information on it. For trunks this consists of a number of tabs. For full details refer to the **Trunks** section.

IP Office System Status	: - IP500 Si	te A (19	2.168.42.1))					
AVAYA		IP Office System Status							
Help Snapshot LogOff Exit	About								
System	Status I	tilization S	iummary Al	arms					
Slot 1 DS Pho				Digital Ti	unk Sumn	пагу			
Port 1 Port 2	Line: 5 Slo	t: 2 Port:	1						
Port 3 Port 4	Line Type:			BRI				I	
Port 5	Line Subty	oe:		ETSI					
Port 6	Number of	Channels:		2					
Port 7	Number of	Administe	red Channels:	2					
Slot 2 Trunk I	Number of	Channels	in Use:	0				I	
Port 1	Channel	Call	Current State	Time in State	Routing	Caller ID or	Other Party	Direction	
Port 2 Port 3	Number	Ref			Digits	Dialed Digits	on Call	of Call	
Port 4	1		Idle	21:54:08	tata				
E Slot 3 POT Ph			luie	21.3 <mark>_1111e_1115</mark>					
Slot 3 Trunk I								I	
H.323 Extensions									
🖽 🎂 Alarms (10)									
Extensions (17)									
Active Calls									
E Resources									
Licenses 👻	Trace	Trace	All Pause	<u>C</u> all Details	Print	<u>S</u> ave	As		
							08:40:	14 Online	





Expansion Modules

This screen lists the external expansion modules installed in the system.

💵 IP Office System Statu	ıs - IP500 Site A (192.16	8.42.1)		
AVAYA		IP Office Syst	tem Status	
Help Snapshot LogOff Exil	t About			
E System Control Unit (IP500)		Select a module to	o display its ports	
Module 1 (DS30)		Module Number	Туре	
🗉 VolP Trunks (2)		1	DS30 V2	
 H.323 Extensions Alarms (10)]
Extensions (47)				
Trunks (10) Active Calls				
E Resources				
Voicemail IP Networking				
M IF Networking				
	2			
<	Select			
				09:46:11 Online

To view details of an individual ports, use the navigation pane or select the port and click Select.

💵 IP Office System Statu	is - IP500 Site A (192.168.42.1)	
AVAYA	IP Office System Status	
Help Snapshot LogOff Exit	t About	
System	Select a port to display the Extension Status	
Expansion Modu	Port Number	
	Port 1	
Port 1	Port 2	
Port 2	Port 3	
	Port 4	
Port 6	Port 5	
Port 6	Port 6	
Port 7	Port 7	
Port 8	Port 8	
Port 9	Port 9	
Port 40	Port 10	
Port 14	Port 11	
Port 12	Port 12	
Port 13	Port 13	
Port 14	Port 14	
Port 15	Port 15	
Port 16	Port 16	
Port 17	Port 17	
Port 18	Port 18	
Port 19	Port 19	
Port 20	Port 20	
Port 21	Port 21	
Port 22		
	Select	
	09:46:49	Online

An individual port can then be selected to view its details.

H.323 Extensions

This screen will list the different types of IP phone devices being supported by the IP Office.

💷 IP Office System Statu	ıs - IP500 Site A (192.168.42.1)	
avaya	IP Office System Status	
Help Snapshot LogOff Exit	it About	ľ
Heip Snapshot LogUrr Exit ■ Control Unit (IP500) ■ VoIP Trunks (2) ■ > H.323 Extensions ■ > H.323 Extensions ■ > Avaya IP Phones 411 ■ ♣ Alarms (12) ■ Extensions (17) ■ Trunks (10) Active Calls ■ ■ Resources ■ Voicemail ■ IP Networking	Select an IP phone category Category Avaya IP Phones	
<	Select	
	09:39:57	Online

To see further detail use the navigation pane or select the type of phones required and click Select.

IP Office System Statu	s - IP500 Site A (192.168	.42.1)							
AVAYA		IP Office System Status							
Help Snapshot LogOff Exit	: About								
E System Control Unit (IP500)		Select an extension to dis	play the Extension Status						
H.323 Extensions	Home Extension Number	IP Address	MAC Address	Firmware Version					
💷 🕨 Avaya IP Phon	411	192.168.42.206	00-09-6E-04-31-01	2.300					
411 ■ Å Alarms (12) ■ Extensions (17) ■ Trunks (10) Active Calls ■ Resources ■ Voicemail ■ IP Networking									
< I I I I I I I I I I I I I I I I I I I									
				09:40:20 Online					

To view details of an individual extension port, use the navigation pane or select the port and click Select. See Extension Status.

The Reregister option can be used to force Avaya H.323 IP phones to both reregister with the IP Office and to restart, including checking their current firmware against that available on the configured TFTP or HTTP file server. Since this process is monitored in real-time by the SSA, it is recommended that only small groups, up to 15 phones, are forced to reregister at any time. Attempting to reregister larger numbers of phones will cause SSA to appear to paused.

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. See Status (VoIP Trunk)

Extension Selection

This screen will show extensions provided by a control unit (see Expansion Modules to access extension ports provided by an external expansion module).

IP Office System Status	- IP500 Site A (192.168.42.1)	
AVAYA	IP Office System Status	
Help Snapshot LogOff Exit	About	
 System Control Unit (IP500) ⇒ Slot 1 DS Phor Slot 2 Trunk Mot Slot 3 POT Phone Slot 3 Trunk Mot VolP Trunks (2) = H.323 Extensions ⇒ Avaya IP Phones ⇒ Alarms (12) ⇒ Extensions (17) ⇒ Trunks (10) Active Calls ⇒ Resources ⇒ Voicemail ⇒ IP Networking 	Port to display the Extension Status Port Number Port 2 Port 3 Port 4 Port 5 Port 6 Port 7 Port 8	
× · · · · · · · · · · · · · · · · · · ·		
	09:37:57	Online

To view details of an individual extension port, use the navigation pane or select the port and click Select. See Extension Status.

Alarms

Alarms

Alarms are recorded within IP Office for each device in error. The number of occurrences and the date and time of the last occurrence is recorded. Alarms are listed on the display, by category and by trunk. Trunk alarms have a separate count for each alarm that happens on a particular trunk.

SSA distinguishes between the following alarm types:

Active

Current alarms are displayed in red with a **b** symbol. If an alarm is no longer active, the alarm changes to black but the count will remain the same. When an alarm goes from historical to active, the count is increased by one.

• Historic

Alarms which are no longer occurring or which are instantaneous events are displayed in black. IP Office will hold at least 50 historic alarms. If historic alarms are discarded due to memory limitations, IP Office keeps a count of the number of discards and the corresponding number of occurrences. This is represented as 'Lost Alarms', which is displayed as a configuration alarm that is never automatically discarded.

Notes

- Alarms can be cleared using the Clear or Clear All buttons. If an alarm is still active, it will remain in the list with an occurrence count of 1.
- Alarms are not preserved after a control unit reboot.

To view the alarms in a specific category:

- 1. In the navigation panel, click + next to Alarms.
- 2. The alarm categories are displayed followed by the number of alarms (in brackets).
 - Last System Restart
 - **Configuration** (IP Office 4.2+) Shows alarms caused by potential problems with the IP Office 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 any trunk alarms. Trunk alarms can be further expanded to display alarms for individual trunks.

- Link
 - Shows alarms for non-trunk links to IP Office such as extensions and expansion modules.
- 2. To view a specific alarm, click the alarm or trunk type. The alarm details are displayed in the information panel.

Last System Restart

This screen list details of the last system restart. The Alarm History button can be pressed to display further alarms.

💵 IP Office System Statu	is - IP500 Sit	e A (192	2.168.42	2.1)			
avaya	IP Office System Status						
Help Snapshot LogOff Exit	: About						
 System System Alarms (12) Extensions (17) Trunks (10) Active Calls Resources Licenses Directory Control Unit Audit Voicemail IP Networking 	Date: Reason: User Name: Event Alarm o	06/02/200 Saved Cor Administra Type Service Service	3 09:15:31 nfiguration tor	2 Alarm Ev Date 06/02/2008 0	ast Syst	em Restart e 06/02/2008 09:27:52 Error Description Failed to load Hold Music source file Attempt to use a feature for which no license is installed. License Type: IP500 Universal PRI (Additional Channels)	
Refresh after config change dor	<u>Pause</u> (Print	Sav	e As) [<u>C</u>	lear Alarm	History 09:28:53 Online	

Date

Date and time the system was last restarted.

Reason

Why the system restarted. The reasons may be:

- User Initiated The user has selected File | Advanced | Reboot in Manager. The Manager operator name is displayed.
- Saved Configuration A configuration save has required a reboot. The Manager operator name is displayed.
- Software Upgrade
 - The software upgrade has caused a reboot.
- Normal Power-up The switch has restarted after power outage.
- Abnormal Termination The switch has restarted for any other reason. The stack trace is displayed.

Configuration Alarms

This screen display configuration alarms. These do not necessarily match errors listed by the IP Office Manager application when that application is used to view and edit the system configuration. They are configuration errors that arise during operation of the system. 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 which no valid routing has been configured.

Service Alarms

The Service Alarm screen contains an entry for each service error. Alarms that are a current problem are displayed in red. If an alarm is no longer active, it is displayed in black. Service alarms are updated in real time.

💵 IP Office System Statu	s - IP500 Site A (192.16	8.42.1)								
avaya		IP Office System Status								
Help Snapshot LogOff Exit	: About									
I E System I III Alarms (10)			Service Alarms							
Configuration (0) Image: Service (6)	Last Date Of Error	Occurrences	Error Description							
 A Trunks (3) A Link (1) 	06/02/2008 07:59:32	1	The following system resources are all in use: Modem Channels							
	06/02/2008 07:59:55	1	Attempt to use a feature for which no license is installed. License Type: RAS LRQ Support(Rapid Response)							
Active Calls	06/02/2008 07:59:56 06/02/2008 08:09:31	1	8kHz clock source changed. Previous source was Internal							
Voicemail IP Networking		3	Attempt to use a feature for which no license is installed. License Type: UMS Web Services							
	06/02/2008 08:09:31	3	Attempt to use a feature for which no license is installed. License Type: Additional Voicemail Pro (ports)							
	06/02/2008 09:04:26	12								
	Clear Cle <u>a</u> r All	<u>P</u> rint <u>S</u>	ave As							
			09:04:58	Online						

The following information is displayed:

- 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 control unit was last restarted or the alarm was last cleared.
- Error Description A description of the error that caused the alarm.

Note

• Some service alarms are also shown in the System Resources screen. Clearing the alarms from this screen will also clear them in the System Resources screen.

Logon Failure Due to User ID/Password

An alarm is displayed when attempted access has failed:

• Manager

A login has been attempted from Manager to the control unit with an invalid user ID or password.

Monitor

A login has been attempted from Monitor to the control unit with an invalid password.

User

The user has attempted to login with the wrong code.

• Voicemail Box

The user has attempted to access their voicemail box with the wrong code.

Voicemail System

VoiceMail Pro/Lite has failed to connect to the control unit due to invalid passcode.

SNMP

A management system has attempted to execute an SNMP request with the wrong community string.

H.323 Extension

An invalid extension or passcode has been entered on the telephone.

RAS

A dial-in user attempted to connect with the wrong password.

SSA

A login has been attempted from SSA with an invalid user ID or password.

If an alarm has additional information, the following is displayed:

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

The following table lists what is displayed as additional information:

Logon Failure	Information	
Manager	Operator name and the IP address of the PC running 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	
SSA	User name and the IP address of the host running SSA	

Feature Key Server Connection Failure

If the system cannot connect to the Feature Key Server, the following is displayed:

"The system was unable to connect to the Feature Key Server." Feature Key Server IP Address: XXX.XXX.XXX.XXX

Resources Not Available

This alarm is generated when a request is made to access a resource and is denied because there are no resources available. The following is displayed:

"The following system resources are all in use"

The following table lists what is displayed as additional information:

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"

* This occurs when all the lines associated with a particular shortcode have calls on them.

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.



Trunk 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. Trunk alarms are updated in real time.

The screen displays two tabs for digital trunks:

Alarms

Any current alarms are reported in red on the Alarm tab. If an alarm is no longer active, the alarm changes to black but the count will remain the same. When an alarm goes from historical to active, the count is increased by one.

• 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.

Alarms

AVAYA		IP Offi	ce System Status	
elp Snapshot LogOff Ex	it About			
Port 7 🔼		Alarma		
Port 8	Status Utilization Summa	ary Midillis		
Port 1		Alai	ms for Line: 8 Slot: 2 Port: 4	
Port 2		-		
Port 3	Last Date Of Error	Occurrences	Error Description	
POIL 4 ■ Slot 3 POT Ph	04/02/2008 10:46:36	1	Trunk out of Service	
Slot 3 Trunk I				
🗏 VolP Trunks (2)				
H.323 Extensions				
Configuration (0)				
🙆 Service (6)				
🗏 🎂 Trunks (3)				
Line: 5 (0)				
👗 Line: 7 (1)				
📥 Line: 8 (1) 💳				
Line: 9 (0)				
Line: 10 (0)				
Line: 12 (0)				
Line: 13 (0)				
Line: 14 (0)				
😃 Link (1) 📉 💆	Clear Clear All	Print S	ave As	

The following information is displayed:

- 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 control unit was last restarted or the alarm was last cleared.

•

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: <i>An incoming call arrived on the channel that is administered for Outgoing calls.</i> <i>Channel Number: XX (for digital lines)</i> <i>Port Number: XX (for analog lines)</i>
Trunk Went Out of Service	If the trunk is not administered to be out of service but goes down, the following is displayed: <i>Trunk out of service.</i>
Red Alarm Active on Trunk	When a red alarm is reported on a T1/PRI trunk, the following is displayed: <i>Red Alarm</i> A red alarm indicates lost synchronization.
Blue Alarm Active on Trunk	When a blue alarm is reported on a T1/PRI trunk, the following is displayed: <i>Blue Alarm</i> A blue alarm indicates a signal failure has occurred.
Yellow Alarm Active on Trunk	When a yellow alarm is reported on a T1/PRI trunk, the following is displayed: <i>Yellow Alarm</i> A yellow alarm indicates a transmission problem.
Loss of Signal on Trunk	When a loss of signal is reported, the following is displayed: Loss of Signal
Caller ID not received	For analog loop start trunks administered with ICLID.
Seize Failure	When there is no loop current detected when trying to seize the trunk.
Response Failure	This alarm is generated when IP Office sends a TCP Sync to the remote end of an H.323 trunk and fails to receive an acknowledgement from the remote end, also when IP Office sends an INVITE over a SIP trunk and times out on no response. <i>No response to IP trunk call request.</i> <i>IP Trunk Line Number: xxx</i> <i>Remote end IP address: yyy.yyy.yyy.yyy</i>

24 Hour Performance History

The first line in the table displays the current 15 minute interval and represents 0-15 minutes worth of data. Subsequent lines display the last 24 hours divided in to 15 minute intervals (fewer lines will be shown if the system has been running for less than 24 hours).



The table is displayed regardless of whether there are errors on the trunk.
Link Alarms

The Link Alarms screen contains an entry for devices linked to the IP Office contril unit such as expansion modules and extension devices. Alarms that are a current problem are displayed in red. If an alarm is no longer active, it is displayed in black. Link Alarms are updated in real time.

🗊 IP Office System Statu	s - IP500 Site A (192.16	8.42.1)		
avaya		IP Offic	e System Status	
Help Snapshot LogOff Exil	About			
I System I Alarms (12)			Link Alarms	
Configuration (0) <u> </u>	Last Date Of Error	Occurrences	Error Description	
Image: Barry Ba	06/02/2008 09:16:10	1	Detta Server down	
Extensions (17)				
Trunks (10) Active Calls				
E Resources				
Licenses Directory				
Control Unit Audit				
Voicemail IP Networking				
<>	Clear Cle <u>a</u> r All	Print Sav	/e As	
				09:33:03 Online

The following information is displayed:

- 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 control unit was last restarted.
- Error Description A description of the error that caused the alarm.

Call Quality of Service

Previous SSA only displayed QoS measurements for calls on IP trunks (H323, SIP, SES). IP Office 5.0 systems can be enabled to provide QoS reporting for extensions and also QoS alarms. This is configured by enabling the Enable RTCP Monitoring on Port 5005 within the IP Office configuration.

Once enabled, the SSA application will display QoS statistics for calls made by H323 IP extensions (1600 Series, 4600 Series and 5600 Series) registered to the IP Office. It will also display QoS statistics other extension types when the call being made by the extension involves an IP Office VCM channel. The QoS information for the extensions current call is displayed by SSA in the **Extension Status** screen.

Within the IP Office configuration, alarm thresholds can be configured for jitter (default 20ms), round trip delay (default 350ms) and packet loss (default 0.5%). If any of the thresholds is exceeded during a call segment, an alarm is generated reporting the device and call involved and the maximum values of the QoS measurements during the call.

• Round Trip Delay (msec): Default = 350.

Less than 160ms is high quality. Less than 350ms is good quality. Any higher delay will be noticeable by those involved in the call. Note that, depending on the compression codec being used, some delay stems from the signal processing and cannot be removed: G711 = 40ms, G723a = 160ms, G729 = 80ms.

• Jitter (msec): Default =20.

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.

IP Office System Status	- T1SiteF_IP0500 (1	92.168.4	2.123) - IP5	00 5.0 (11006)				
AVAYA	IP Office System Status							
Help Snapshot LogOff Exi	: About							
 System Å Alarms (6) 				Call Q	uality of Service Aları	ms		
Configuration (0)	Last Date Of Error	Call ID	Device	IP Address	Peer IP Address	Jitter	Round Trip Delay	Packet Loss
	Clear	All	Euur	bave As				
							10:	05:19 Online

- If the call involves another IP Office extension, separate alarms may occur for both extensions.
- No alarms are generated for QoS measurements during the first 5 seconds of a call.
- Alarms are output at the end of a call segment in which a threshold is exceeded. For example, if a call is held and then unheld, each part of the call is treated as a separate call segment.
- Only one alarm is generated, even if more than one threshold is exceeded. The alarm contains the maximum value of all 3 measured QoS values.

Extensions

Extensions

Information on the status of a specific extension can be accessed from the navigation panel either:

- 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.

Alternatively, double-click an extension from the **Extension Summary** screen.

The following is used to indicate an analog or digital extension:

- If the extension is on the control unit (except IP Office 500), 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 a module in an IP Office 500 slot, the designation is *Slot:* [1-4], followed by *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 IP Office 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

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.

Extension Status

The Extension Status screen provides specific details on an extension, depending on its configuration.

IP Office System State	atus	- IP500 \$	Site A (19	2.168.43	2.1)				
AVAYA			IP Office System Status						
Help Snapshot LogOff	Exit	About							
🔳 System 🛃	~ [Extension S	tatus		
🔳 🎒 Alarms (10)		Extensior	n Number:		203				
Extensions (17)		IP addres	ss:		192.168.	42.16			
201		MAC add	ress:		00-1B-4F	-06-F2-AA			
202		Firmware	Version:		1.042				
203		Telephon	e Type:		1608				
204		Current l	Jser Extens	ion Number	: 5802				
205		Current l	Jser Name:		Extn5802	2			
206		Forwardi	na:		OFF				
207		Twippipg			Off				
208		Do Not D	icturb:		OFF				
209		Do Not Disturb: Off							
210		Message	waiding; Galessia		011				
211			or New Mess	ages:	0				
212		Phone Ma	anager Type	9;	None				
213		PacketLo	SS:		0%				
214		Jitter:			17.4ms				
215		Round Tr	rip Delay:		4ms				
216		Button	Button	Call Ref	Current State	Time in State	Calling Number	Direction	Other Party on Call
411		Number	Туре				or Called		
🛨 Trunks (10) –		1	CA	31	Connected	00:00:49	5201	Outgoing	Extn 5201, Extn5201
Active Calls		2	CA		Idle				
💻 Resources		3	CA		Idle				
Licenses									
Directory									
<	* [Trace	Trace /		ause <u>B</u> ac	k <u>C</u> all De	etails Print	<u>S</u> ave	As
								0:	9:15:11 Online

The following information is displayed:

- Extension Number
- The default extension number for this telephone.
- Module/Slot/IP Address Module number, slot details or IP address.
- Port/MAC Address Port number or MAC address of the control unit.
- **Telephone Type** The telephone model.
- **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 one or more of the following options:
 - Forward Unconditional + Number
 - Forward On Busy + Number
 - Forward On No Answer + Number
 - Follow Me + Number
- Twinning

Set as 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
- Off
- **Do Not Disturb** Either On or Off.

- Message Waiting
 If the user has an unread message, this will be On. If the personal messages have been read, this will be Off.
- Number of New Messages The number of new messages for the current user. This does not include hunt group messages.
- Phone Manager Type Lite, Pro, IP or None - the Phone Manager type that is currently being used.

Extension Quality of Service Information

The following addition items are available for calls by H323 phones. They are also available for other extension types when the current call is using an IP Office VCM channel. The values required the Enable RTCP Monitoring on Port 5005 option to be selected in the IP Office 5.0+ configuration.

- Packet Loss
- Jitter
- Round Trip Delay

Call Information

The information displayed in the table below, will depend on whether the extension has call appearances. 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

Any call associated with a button.

- Current State Defined when there is a call associated with a button.
- **Time in State** Reset to 0 each time there is a state change.
- Calling Number or Called Number
 - Incoming Calls The Caller ID name and number. If there is no Caller ID, None is displayed.
 - Outgoing Calls

The digits that are sent to the central office (not including the dial-out code).

- Direction Incoming or outgoing.
 - 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 or announcement
Conference	Conference name
Trunk	Line ID/URI Group/Channel number as appropriate
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)

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.

When a trace is in progress, any calls on the extension 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.

Trunks Trunks

Trunk information (via the Status tab) can be accessed from the navigation panel by either:

- Double-clicking **Trunks** and then selecting a line from the navigation panel or the information panel.
- Clicking System and then Control Unit and double-clicking a trunk port.

Depending on the line selected, one of the following is displayed:

- Digital Trunk Summary
- Analog Trunk Summary
- H.323 Trunk Summary
- SIP Trunk Summary

Trunks Line Selection

Select and then double-click a line to display the trunk data.



Status (Digital Trunk)

The Digital Trunk Summary can be accessed by clicking **Trunks** on the navigation panel and is displayed under the **Status** tab. Alternatively, click **System** and then **Control Unit** and double-click the line. Digital trunks are reported on a per line basis.

💵 IP Office System Statu	s - IP500 Si	te A (19	2.168.42.1)					
AVAYA			IP	Office Sy	/ste n	Statu	S	
Help Snapshot LogOff Exit	About							
System A Alarms (10) Extensions (17) Trunks (10)	Status 🔐	ilization S	ummary Al	arms Digital Ti	runk Sumr	nary		
Line: 5 Line: 6 Line: 7 Line: 8 Line: 9 - 12 Line: 13 Line: 14	Line: 5 Slo Line Type: Line Subtyp Number of Number of	t: 2 Port: 1 be: Channels: Administe Channels	red Channels: in Use:	BRI ETSI 2 2				
Active Calls Resources Licenses Directory Control Unit Audit Voicemail Mailboxes	Channel Number 1 2	Call Ref	Current State Idle Idle	Time in State 00:49:18 22:45:41	Routing Digits	Caller ID or Dialed Digits	Other Party on Call	Direction of Call
E IP Networking IP Routes Tunnels	Trace	Tr <u>a</u> ce .	All <u>P</u> ause	<u>C</u> all Details	Print	<u>S</u> ave	As	
							09:31:	48 Online

The following information is displayed under the Status tab:

- Line/Slot/Port
 - The line, slot and port number.
- Line Type See Line Protocols.
- Line Subtype See Line Protocols.
- Number of Channels The number of channels that can be supported with a digital trunk.
- Number of Administered Channels Number of channels from the line form that are administered to be in service.
- Number of Channels in Use The total number of channels currently in use.

Below this information, a table displays the following details:

- **Channel Number** To view details of the call, click on the row.
- Call Ref Call reference, assigned by IP Office and associated with the line in use.
- **Current State** The state is defined when there is a call associated with a button. See Call States.
- **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
 - Incoming Calls
 - The Caller ID name and number. If there is no Caller ID, None is displayed.

• Outgoing Calls The digits that are 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)

Direction of Call

Displays the call as either **Incoming** or **Outgoing**.

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.

To display further information on a call, select one or more rows in the table and click the **Call Details** button. See Button Bar.

Status (Analog Trunk)

The Analog Trunk Summary is accessed by clicking **Trunks** on the navigation panel and is displayed under the **Status** tab. Alternatively, click **System** and then **Control Unit** and click on a row to show the call details.

Analog trunks are displayed by card or module. Therefore, the number of trunks on a card is reported.

💵 IP Office System Statu	s - IP500 Site A (192.168.42.1)	
AVAYA	IP Office System Status	
Help Snapshot LogOff Exit	About	i i
System Kateria System Kater	Status Utilization Summary Alarms Analog Trunk Summary Slot: 3 Slot: Module: Slot: 3 Number of Trunks: 4 Number of Administered Trunks: 4	
Line: 8 Lines: 9 - 12 Line: 13 Line: 14 Active Calls	Number of Trunks in Use: O Port Line Line Type Call Current State Time in State Caller ID or Other Party ID Ref Call Dialed Digits on Call	Direction of Call
E Resources Licenses Directory Control Unit Audit	9 Line: 9 Slot: 3 P Loop Start CLI Idle 22:46:29 10 Line: 10 Slot: 3 Loop Start CLI Idle 22:46:29 11 Line: 11 Slot: 3 Loop Start CLI Idle 22:46:29 12 Line: 12 Slot: 3 Loop Start CLI Idle 22:46:29	
Voicemail Mailboxes IP Networking IP Networking IP Routes Tunnels		
	Irace Trace All Pause Call Details Print Save As	Online

The following information is displayed under the Status tab:

- Slot/Module Slot or module number.
- Number of Trunks Total number of trunks.
- Number of Administered Trunks Number of channels from the line form that are administered to be in service.
- Number of Trunks in Use

Below this information, a table displays the following details:

- Port
 - The port number.
- Line ID
 - The line, module and port number.
- Line Type The type of line protocol. See Line Protocols.
- Call Ref Call reference assigned by IP Office and associated with the line in use.
- Current State See Call States.
- Time in State Reset to zero each time there is a state change.
- Caller ID or Dialed Digits
 - Caller ID The Caller ID name and number. If there is no Caller ID, None is displayed.
 - **Dialed Digits** The digits that are 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)

Direction of Call

Incoming or Outgoing.

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.

To display further information on a call, select one or more rows in the table and click the **Call Details** button. See Button Bar.

Status (VoIP Trunk)

The VoIP Trunk Summary is accessed by clicking **Trunks** on the navigation panel and is displayed under the **Status** tab as either H.323 Trunk Summary or SIP Trunk Summary. Alternatively, click **System** and then **Control Unit** and double-click the line.

H.323 Trunk

IP Office System Statu	- IP500 Site A (192,168,42,1)							
AVAYA	IP Office System Status	IP Office System Status						
Help Snapshot LogOff Exit	: About							
 System Å Alarms (10) Extensions (17) 	Status Utilization Summary Alarms							
Trunks (10) Line: 5	IP Address: 192.168.46.1							
Line: 6 Line: 7	Line Number: 14 Number of Administered Channels: 20							
Line: 8 Lines: 9 - 12	Number of Channels in Use: 0							
Line: 14	Administered Compression: Auto Small Community Networking: Up							
Resources	Direct Media Path: On Enable Faststart: Off							
Directory Control Unit Audit	Silence Suppression: Off							
🗏 Voicemail Mailboxes	Channi Call Curren Time in Remote Code Connei Caller II Other Party Directic Round Receiv Receiv Transm Numbe Ref State State Address Type Dialed I on Call of Call Delay Jitter Loss F Jitter	Transn Loss F						
IP Networking IP Routes	1 1000 22.4 2 Idle 22:4							
Tunneis	J Lute 22.4 4 Idle 22:4 5 Idle 22:4							
	6 Idle 22:4	~						
<	Trace All Pause Ping Call Details Print Save As							
	09:33:07	Online						

IP Address

The gateway IP address from the VoIP form.

Line Number

Fixed line number, defined by the user.

- 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 Networking One of the following is displayed:
 - If this feature is not administered in Manager, (Voice Networking option on the VoIP form is off), **Disabled** is displayed.
 - If the feature is administered and the other end is responding, **Up** is displayed.
 - If the feature is administered and the other end is not responding, **Down** is displayed.
- Direct Media Path Either On or Off.
- Enable Faststart Either On or Off.
- Silence Suppression Either On or Off.

Below this information, a table containing the following information is displayed:

• Channel Number Click on the row to view details of the call.

System Status Application

- Call Ref
 Call reference assigned by IP Office and associated with the line in use.
- Current State See Call States.
- 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 Digits
 - Caller ID The Caller ID name and number. If there is no Caller ID, None is displayed.
 - Dialed Digits
 - The digits that are 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)

Direction of Call

Incoming or Outgoing.

• QoS

Receive and transmit details. Normal data packets can prevent or delay voice data from getting across the link, causing unacceptable speech quality. The QoS settings are:

- Round Trip Delay
- Receive Jitter
- Transmit Jitter
- Receive Packet Loss
- Transmit Packet Loss

To display further information on a call, select one or more rows in the table and click on one of the buttons at the bottom of the screen.

SIP Trunk

For SSA and IP Office 5.0, SSA will display the configured and free SIP Channel license count in the top of the SIP trunk screen. Also where the SIP Trunk requires registration, the status of the Primary and secondary registration will also be displayed in the top/summary section of the Trunk Status Screen for the SIP trunk.

AVAYA		IP Office System Status																
lp Snapshot LogOff E	xit 4	About																
-System - 🌡 Alarms (7) - Extensions (22)		Status (Utilizat	tion Su	immary	Alarms												
Trunks (26)									5	SIP Trunk Su	mmary							
Line: 1		Peer Dom	ain Na	ame:		Fre	eeCallsRUs.co	o.uk										
Line: 2		Gateway	Addre	ess:		19	2.168.42.251											
Line: 4		Line Numb	oer:			3												
Lines: 5 - 8		Number of	f Adm	inister	ed Channe	ls: 40												
Line: 9		Number of	f Char	nnels i	n Use:	1												
Line: 10		Administe	red C	ompre	ssion:	Au	<i>i</i> to											
-Active Calls		Silence Su	uppre	ssion:		Of	f											
Resources		Channel		Call	Current	Time in	Remote RTP	Codeo	Connectio	Caller ID or	Other Party	Direction	Round Tri	Receive	Receive P	Transmit	Transm	ſ
		Number	Grou	Ref	State	State	Address		Туре	Dialed Digits	on Call	of Call	Delay	Jitter	Loss Frac	Jitter	Loss Fr	
		1	4	50	Connect	. 00:00:48	192.168.4	G72	RTP Relay	Vickie@SIP	Extn 299, Ben E	Incoming						ļ
		2			Idle	2 days											<u> </u>	-
		3			Idle	2 days												-
		4			Idle	2 days												•
		6			Idle	2 days												1
		7			Idle	2 days												1
		8			Idle	2 days											<u> </u>	_
		9			Idle	2 days												-
		10			Idle	2 days												-
		12			Idle	2 days												•
		13			Idle	2 days												1
	Ľ		+ +		ł	1	+	1	1	1	1	ł	i		1			ì
		Troco All		Dipor	1 0	II Dotoilo	Drint	1.	Coup Ap									
		Hace Air	_	Filly	Ca	ii Detaiis	FIII		Save As									

- Peer Domain Name The name of the service from the line form.
- Gateway Address Gateway IP address from the VoIP form.
 - Line Number Fixed line number, defined by the user.
- Number of Administered Channels The number of channels from the line form.
- Total Channels in Use The total number of channels that have associated call references.
- Administered Compression The compression mode from the VoIP form.
- Silence Suppression Either On or Off.

Either Off of Off.

Below this information, a table displays the following details:

- Channel Number Click on the row to view details of the call.
- URI Group The URI Group via which the call was routed in or out of the trunk. If there is no Call Ref, the URI Group is blank.
- Call Ref Call Ref associated with the line in use.
- Current State See Call States.
- 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 SIP message and may change throughout the call.
- Connection Type Either RTP Relay or VCM.
- Caller ID or Dialed Digits
 - Caller ID
 - The Caller ID name and number. If there is no Caller ID, None is displayed.
 - Dialed Digits
 - The digits that are 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 (not alerting)

Direction of Call

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. SSA provides the following information about the VoIP connection and how it is being impacted by other traffic. These statistics are calculated as defined in RFC 1889.

- Round Trip Delay
- Receive Jitter
- Transmit Jitter
- Receive Packet Loss
- Transmit Packet Loss

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:

🔝 IP Office System Status - F-075-IP406-1 (192.168.42.1) _ 8 × AVAVA **IP Office System Status** apshot LogOff Exit About 🗾 Information Snapshot for Call Ref 54 × System 🎒 Alarms (7) Extensions (22) Call Ref: 54 Call length: 00:00:11 Н.: Trunks (26) Originator Line: 1 IP Address: 192.168.42.120 Current State: Connected Time in State: 00:00:04 Line: 2 Line Number: 9 Line: 3 Currently at: Extn 604, BorisAeris Number of Administered Channels: 20 Line: 4 Button Number: 1 Lines: 5 - 8 Number of Channels in Use: Button Type: Call Appearance (CA) Line: 9 Administered Compression: Auto Dialed Digits: 6704 Line: 10 Small Community Networking: Up Lines: 901 - 916 Destination Direct Media Path: On Active Calls Current State: Connected Time in State: 00:00:04 Enable Faststart: On Resources Trunk Used: Line: 9 H.323 192.168.42.120 Channel: 1 Silence Suppression Off Digits sent to Central Office: 6704 Channel Call Current Time in emote RTF ode onneo Caller ID sent from Central Office: 6704 State Number State Address Туре 54 Connect 00:00:04 192.168.4 VCN Codec: G729 A **3**72 00:37:46 Idle 2 Round Trip Delay: Oms ldle 00:01:17 З Receive Jitter: Oms Idle 2 days 0. 4 Receive Packet Loss Fraction: 0% Idle 2 days 0. 5 Transmit Jitter: Oms 2 days 0. Idle -6 Transmit Packet Loss Fraction: 0% race Output - All Channels: Call target / Routing information 1/11/07 4:47:17 PM-753ms Line = 9, Channel = 1, Line Ref = 1172, Q.931 Me . 1/11/07 4:47:17 PM-781ms_Line = 9, Channel = 1, Q.931 Message = SetupAd RTP Connection Type: VCM 1/11/07 4:47:17 PM-784ms_Call Ref = 54, Originator State = Dialling, Type = L Call Recording: No I/11/07 4:47:18 PM-793ms Line = 9, Channel = 1, Q.931 Message = Alerting, Redirected to Twin: No 1/11/07 4:47:18 PM-798ms_Call Ref = 54, Alerting, Line = 9, Channel = 1 1/11/07 4:47:18 PM-800ms Call Ref = 54, Originator State = Ringback, Type Routed across SCN trunk: Yes I/11/07 4:47:21 PM-484ms Line = 9, Channel = 1, Q.931 Message = Connect 0 Retargeting Count: l/11/07 4:47:21 PM-502ms_Call Ref = 54, Originator State = Connected, Type /11/07 4:47:21 PM-502ms Call Ref = 54, Answered, Line = 9, Channel = 1 ОК Call Details Trace Clear Ping Print. Save As...

The pop-up shows the state of the call at the time of selection and does not update.

Utilization Summary

The Utilization Summary tab is accessed by clicking **Trunks** on the navigation panel. Alternatively, click **System** and then **Control Unit** and double-click an expansion module or VoIP trunk.

The Utilization Summary provides a usage history for each trunk. The counts are reset either when the **Reset** button is clicked (at which point all values are reset to zero) or when the system reboots.

💵 IP Office System Statu	s - IP500 Site A (192.168.42.1)		
AVAYA	IP C	Office System Stat	us
Help Snapshot LogOff Exit	: About		
System A Alarms (10) Extensions (17) Trunks (10)	Status Utilization Summary Alarr	ns Utilization Summary for Line: 5	
Line: 6	Module: Quad BRI		
Line: 7 Line: 8 Lines: 9 - 12 Line: 13	Line: 5 Stot: 2 Port: 1 Line Type: BRI Line Sub Type: ETSI	Incoming Outgoing Abandor	ed <
Line: 14 Active Calls	Counters started: 04/02/2008 10:46:35	3	99%
E Resources Licenses	Call Type	Number of Calls	Total Call Duration
Directory Control Unit Audit	Outgoing	0	0:00:00
Control Unit Audit Voicemail Mailboxes	Incoming Abandoned	3	0.00.00
IP Networking IP Routes Tunnels			
		Ш	
< >	<u>R</u> eregister		
			09:31:02 Online

The following information is shown:

- Module Type of trunk module.
- Line
 Line ID.
- Line Type See Line Protocols.
- Line Sub Type See Line Protocols.
- Counters Started Date and time the counts began.

Below this information, a table displays the following details:

Call Type

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 call was answered. Total Call Duration is blank for Incoming Abandoned calls.

Number of Calls

Total number of calls by Call Type.

Total Call Duration

Hours, minutes and seconds format. For Outgoing calls, measured from the start of the call. For Incoming calls, measured from when the call was answered.

Total Ring Time

Hours, minutes and seconds format.

Trunk 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. Trunk alarms are updated in real time.

The screen displays two tabs for digital trunks:

Alarms

Any current alarms are reported in red on the Alarm tab. If an alarm is no longer active, the alarm changes to black but the count will remain the same. When an alarm goes from historical to active, the count is increased by one.

• 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.

Alarms

🗾 IP Office System Statu	s - IP500 Site A (192.16	8.42.1)		
avaya		IP Offi	ce System Status	
Help Snapshot LogOff Exit	: About			
Port 7 Port 8 E Slot 2 Trunk I Port 1 Port 2	Status Utilization Summa	ry Alarms Alar	ms for Line: 8 Slot: 2 Port: 4	
Port 3	Last Date Of Error	Occurrences	Error Description	
 ▶ Port 4 ■ Slot 3 POT Ph Slot 3 Trunk I ■ VoIP Trunks (2) ■ H.323 Extensions ■ ▲ Alarms (10) Configuration (0) ▲ Service (6) ■ ▲ Trunks (3) Line: 5 (0) ▲ Line: 6 (1) ▲ Line: 6 (1) ▲ Line: 8 (1) Line: 9 (0) Line: 10 (0) Line: 12 (0) Line: 13 (0) 	04/02/2008 10:46:36	1	Trunk out of Service	
🎒 Link (1) 🗹	Clear Clear All	<u>P</u> rint S	ave As	
				08:42:46 Online

The following information is displayed:

- 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 control unit was last restarted or the alarm was last cleared.

•

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 that is administered for Outgoing calls. 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: <i>Trunk out of service.</i>
Red Alarm Active on Trunk	When a red alarm is reported on a T1/PRI trunk, the following is displayed: <i>Red Alarm</i> A red alarm indicates lost synchronization.
Blue Alarm Active on Trunk	When a blue alarm is reported on a T1/PRI trunk, the following is displayed: <i>Blue Alarm</i> A blue alarm indicates a signal failure has occurred.
Yellow Alarm Active on Trunk	When a yellow alarm is reported on a T1/PRI trunk, the following is displayed: <i>Yellow Alarm</i> A yellow alarm indicates a transmission problem.
Loss of Signal on Trunk	When a loss of signal is reported, the following is displayed: Loss of Signal
Caller ID not received	For analog loop start trunks administered with ICLID.
Seize Failure	When there is no loop current detected when trying to seize the trunk.
Response Failure	This alarm is generated when IP Office sends a TCP Sync to the remote end of an H.323 trunk and fails to receive an acknowledgement from the remote end, also when IP Office sends an INVITE over a SIP trunk and times out on no response. <i>No response to IP trunk call request.</i> <i>IP Trunk Line Number: xxx</i> <i>Remote end IP address: yyy.yyy.yyy.yyy</i>

24 Hour Performance History

The first line in the table displays the current 15 minute interval and represents 0-15 minutes worth of data. Subsequent lines display the last 24 hours divided in to 15 minute intervals (fewer lines will be shown if the system has been running for less than 24 hours).



The table is displayed regardless of whether there are errors on the trunk.

Active Calls

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

IP Office System Status	s - IP500 Site A (192,168,42,1)	
AVAYA	IP Office System Status	
Help Snapshot LogOff Exit	About	
System Alarms (10) Extensions (17) Trunks (10) Line: 5 Line: 6 Line: 7 Line: 8 Line: 9 - 12 Line: 13 Line: 14 Active Calls Resources	Active Calls: 1 Call Originator End Current Time in Incoming Destination End Current Time in Ref Length Party State State Caller ID Party State State 6 00:00:09 Line: 5 Slot: 2 Connected 00:00:06 Extn 203, Extn2 Connected 00:00:06	Dialed Digits
Cinterises Directory Control Unit Audit Voicemail Mailboxes I IP Networking IP Routes Tunnels	Pause Disconnect Call Details	
	09:34:47	Online

The following information is displayed:

Call Ref

Call reference for incoming trunks, assigned by IP Office and associated with the line in use.

• Call Length Total length of the call.

The following information is displayed for the call **originator**:

- Originator End Party
 Trunk or 'Currently At' information. See Call Details.
- Current State
 The originator's current state. See Call States.
- **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.

The following information is displayed for the call **destination**:

- **Destination End Party** Trunk or 'Currently At' information. See Call Details.
- Current State The destination's current state. See Call States.
- **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.

Note

• The **Disconnect** button cannot be used to stop alerting calls for calls on Loop Start, T1 Loop Start and T1 Ground Start lines.

Abandoned Calls

If the Abandoned Calls button is selected, the Active Calls screen splits to display a list of Abandoned Calls (below the Active Calls list).

The Abandoned Calls table lists incoming calls on a trunk where the caller disconnected before the call was first answered.

IP Office System Status	s - IP500 Site A (19	92.168.42.1)				
AVAYA		IP Offic	e Syste	em Stat	tus	
Help Snapshot LogOff Exit	About					
■ System ■ & Alarms (10) ■ Extensions (17) ■ Trunks (10) Line: 5 Line: 6 Line: 7 Line: 8	Call Call Orig Ref Length Part () 9 00:00:05 Line	inator End Current y State : 5 Slot: 2 Connected	Active Call Time in Incor State Calle 00:00:04	lis: 1 ming Destinatio r ID Party Extn 203,	n End Current Ti State Si Extn2 Connected 0	me in Dialed Late Digits 0:00:04
Lines: 9 - 12 Line: 13 Line: 14 Active Calls Resources Licenses						
Control Unit Audit		1 Abandon	ed Calls since	05/02/2008 12	2:37:53	
🗏 Voicemail	Date and Time	From Trunk	Incoming Caller	Incoming DID	Ringing/Queueing At	vVait
Mailboxes	05/02/2008 12:38:05	Line: 5 Slot: 2 Port: 1		200	Extn 203, Extn203	00:00:03
IP Routes Tunnels	Pause	inect Call Details	Clear Abar	ndoned Calls		
					12:38:2	10 Online

The following information is displayed for disconnections that have occurred since the time the Abandoned Calls button was selected:

- 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 Call Details.

- **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.

Clicking the **Clear Abandoned Calls** button clears the Abandoned Calls list, updates the date and time and enables further abandoned calls to be logged.

Note

• If the viewer restarts whilst an Abandoned Calls list is displayed, the list is cleared. After the restart, the viewer updates the time in the header to indicate that the list displays Abandoned Calls since the time of the restart.

Reduced Active Calls

If you are viewing the Active Calls information for a heavily loaded IP Office (using a communications link with insufficient bandwidth or running SSA with insufficient CPU power), SSA will automatically reduce the amount of information displayed, to accommodate the high call rate.

Reduced information similar to the following is displayed:

🗾 IP Office System Statu	s - F-075-IP500-1 (192.168.42.120)	
avaya	IP Office System Status	
Help Snapshot LogOff Exil	: About	
■ System ■ À Alarms (12) ■ Extensions (74) ■ Trunks (10) ► Active Calls Resources	Active Calls: 6 Calls initiated in last 5 seconds: 3 Calls cleared in last 5 seconds: 1	
	<u>Full Details</u>	
	14:00:53	Online

When the call initiation/setup rate has reduced, the **Full Details** button can be selected to resume the full display. If you want to view IP Office activity during the high load, the snapshot facility can be used to obtain a complete instantaneous view of the system.

Call Details

The Call Details screen is only displayed if a call is active. The Call Details screen can be accessed as follows:

- 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 State	ıs - IP500 Site A (192.168.42.1)	
AVAYA	IP Office System Status	
Help Snapshot LogOff Exi	t About	
🗄 System 🗄 🎂 Alarms (10)	Call Details	
Extensions (17) Trunks (10)	Call Ref: 7 Call length: 00:00:21	<u>^</u>
Line: 5 Line: 6 Line: 7	Criginator Current State: Connected Time in State: 00:00:17	=
Line: 8 Lines: 9 - 12	Trunk: Line: 5 Slot: 2 Port: 1 Channel: 1 Incoming Caller ID:	
Line: 13 Line: 14	Destination	
Call Details for Ca	Current State: Connected Time in State: 00:00:17	
Licenses Directory	Button Number: 1	~
Control Unit Audit	Trace Output:	
IP Routes		
Tunnels		
<	Trace Clear Pause Back Disconnect Conference Details	Print Save As
		09:41:16 Online

The following information is displayed:

- Call Ref
 - Call reference assigned by IP Office and associated with the line in use.
- Call Length Total length of the call.
- For further details see the following sections:
 - Originator Information.
 - Destination Information.
 - Call Target Information.
 - Conference Details.
 - Call States (Extension Ports).
 - Call States (Trunk Ports).
 - Callback and Returning Calls.

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 Tracing.

Notes

- The names shown for voicemail destinations are those supplied by IP Office to voicemail, when the connection is made. Any subsequent activities within the voicemail Telephone User Interface (TUI), for example; logging in to an alternative mailbox, will not be reflected in the information shown for the destination.
- A call that is both alerting/queuing and listening to an announcement will indicate information about both.

Conference Details

When a call is connected to a conference, an additional **Conference Details** button shows all connected calls on the conference. The screen also displays whether the conference is a Conferencing Center or ad-hoc type and whether the conference is being recorded.

IP Office System Status	s - IP500 Site A (192.168.42.1)		
avaya		IP Offic	e System Status	
Help Snapshot LogOff Exit	About			
 System Å Alarms (10) Extensions (17) Trunks (10) Active Calls Call Details for Call f 	Name: Type: Call Recording:	Conf 100 Ad Hoc No	Conference Details	
Conterence C E Resources Voicemail	Call Ref	State	Party	
IP Networking	3	Connected	Extn 411, Extn411	
	4	Connected	Extn 201, Extn201	
	5	Connected	Extn 203, Extn203	
<	Pause Bac	k Print Save	As	
			08:26:23	Online

Call Information

Originator Information

The following information displayed is based 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.

The following is reported for the **Originator** (trunk):

- Trunk
 Includes fixed line number, URI group (SIP lines) and channel (for digital and VoIP lines).
- Current State and Time in State See Call States.
- 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.
- VoIP Trunk (H.323, SCN or SIP) Normal data packets can prevent or delay voice data from getting across the link, causing unacceptable speech quality. SSA provides the following information about the VoIP connection and how it is being impacted by other traffic. These statistics are calculated as defined in RFC 1889.
 - Round Trip Delay
 - Receive Jitter
 - Transmit Jitter
 - Receive Packet Loss
 - Transmit Packet Loss

Originating End is not a Trunk

The following information is reported for the **Originator**:

- Current State and Time in State The state is defined when there is a call associated with a button.
- Currently At:
 - Users

The user name and number is listed. For multi-line sets, the button number and button type (Call, Line and Bridged Appearance or Call Coverage) are displayed.

- Voicemail Call flow When voicemail is the originator end, no call flow name will be shown.
- **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.

Destination Information

The information displayed is based on whether the destination end 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

The following information is reported for the **Destination**:

- 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 is defined when there is a call associated with a button.
- **Digits sent to Central Office** These are the digits that IP Office has 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 (versus who was called).
- Codec

Selected via H.323/SIP messages and may change during the call.

• VoIP Trunk (H.323, SCN or SIP)

Normal data packets can prevent or delay voice data from getting across the link, causing unacceptable speech quality. SSA provides the following information about the VoIP connection and how it is being impacted by other traffic. These statistics are calculated 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 following information is reported for the **Destination**:

- Current State and Time in State The state is defined when there is a call associated with a button.
- Currently At
 - One of the following:
 - Group of Users For paging and some hunt group calls, listed by user name and number. If the call is alerting/connected for both users and SCN trunks, all will be listed.
 - User

The user name and number are listed. For multi-line sets the button number and button type (Call, Line and Bridged Appearance and Call Coverage) are displayed.

- 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.

- Conference The conference name. See Conference Details.
- 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 Target Information

Call Target/Routing Information

- **RTP Connection Type** (if applicable) DirectMedia, RTPRelay or VCM.
- **Shortcode Matched** (if applicable) Includes the shortcode name, feature and the type (System, User, LCR, Line).
- **Original Target** (if applicable) One of the following:
 - **Destination is a User** The user name or extension number is listed.
 - **Destination is a Hunt Group** The hunt group name or extension number is listed.
 - **Destination is a shortcode** The shortcode and feature are listed along with the type (System, User, LCR, Line).
 - **Destination is an embedded Automated Attendant** The string *Automated Attendant*, followed by the Automated Attendant number is listed.
- Call Recording Call recording in progress (Yes or No).
- Call was Redirected to a Twin Yes or No.
- Call Routed Across SCN Trunk Yes or No. Set to Yes only when the call becomes connected.
- **Retargeting Count** The number of times the call has been retargeted. A call is retargeted, for example; on expiry of a no answer timeout. Retargeting means that the current destination(s) stop alerting and a new destination is selected instead.
- **Transfer Count** (if appropriate) The number of times a call has been transferred.
- **Redirecting Station** (if appropriate) The station from which a call was re-directed on Forwarding, Follow Me, coverage or twinning.

Call States

Call States are shown for both ends of a call. The valid states for extension ports are listed in the following table:

State	Extension
Idle	There is no call or call attempt on this extension or button.
Connected	A call is connected on this port.
Held	The call is on regular hold. This could be the result of pressing the Hold button, or a flash hook.
Held for Transfer/Conference	The call is on hold as the result of a user pressing the fixed Transfer or Conference button.
Parked	The call has been parked at a park slot.
Seized	A call is being originated, the port has been seized but the call is not yet connected. No digits have been dialed.
Dialling	A call is being originated, the port has been seized but the call is not yet connected. At least one digit has been dialed.
WrapUp	The user on this port is in the Wrapup state. This might be the automatic call time or set for call center agent.
In Use Elsewhere	This means that another person is active on a Call or Bridged Appearance. For Line Appearance, this means that another user is active on the call.
On Hold Elsewhere	This means that another person has placed a call on hold at a Call or Bridged Appearance. For Line Appearance, this means another user has placed a call on hold.
In Use Inaccessible	 This means that the Call or Bridged Appearance cannot be accessed. For example: The Call Appearance on the chain is associated with a user who is not logged in. The longest internal member on the call has Cannot Be Intruded active. The Call Appearance on the chain is on a button that has no LEDs. A Line Appearance cannot be accessed. For example: The longest internal member on the call has Cannot Be Intruded active. The longest internal member on the call has Cannot Be Intruded active. The longest internal member on the call has Cannot Be Intruded active.
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	A surrogate call is being used to record the call whose ID is indicated.
Hold Reminder	Extension is alerting with a hold reminder notification.
Park Reminder	Extension is alerting with a park reminder notification.
Transfer Return	Extension is alerting with a transfer return call notification.
Voicemail Ringback	Extension is alerting with a voicemail ringback notification.
Auto Callback	Extension is alerting with a callback/reminder notification.
Held at Central Office	For European ISDN lines, the central office has the call on hold. It will free the B-channel which will be seen as idle in SSA.

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 call is held in a hunt group queue and is not alerting at any extension. The other end will be in Ringback/Incoming Alerting or Connected Announcement state.
Alerting Announcement	Indicates that the call is alerting at one or more extensions or trunks and is also currently connected to voicemail for a queuing announcement.
Queuing Announcement	Indicates that the call is held in a hunt group queue, is not alerting at any extension and is currently connected to voicemail for a queuing announcement.
Connected Announcement	Indicates that this end of the call is connected because the call is or has been listening to a queuing announcement.
Number Unobtainable	States that an extension can be left in by a failed/cleared call.
Busy	States that an extension can be left in by a failed/cleared call.
Disconnected	States that an extension can be left in by a failed/cleared call.

* When a call is alerting, one endpoint will be in the alerting state and the other will be in the ringback state. From the view of the call model, Ringback and Incoming Alerting are equivalent states. Also, Alerting and Outgoing Alerting are equivalent states.

Trunk Summary and Extension Status screens will show a direction for each call. For a trunk, the call is shown as outgoing (if IP Office initiated the call) and incoming (if the central office or network initiated the call). For an extension, the call is shown as outgoing (if the extension initiated the call) and incoming (if another party initiated the call).

For examples of call sequences that include announcements, see Tracing.

Call States (Trunk)

Call States are shown for both ends of a call. The valid states for trunk ports are listed in the following table:

State	Trunk			
Idle	There is no call or call attempt on this port or channel.			
Out of Service	The port has been set to Out of Service or the digital circuit (that this channel is on) is down.			
Connected	A call is connected on this port.			
Connected WAN	This time slot in use to deliver WAN interface - digital trunks only.			
Parked	The call has been parked at a park slot.			
Seized	A call is being made and the system selects a particular line.			
Dialling	A call is being originated from this port, the trunk has been seized but the call is not yet connected. On analog trunks, 'connected' may be an implied state based on a timeout.			
Clearing	The call is in the process of terminating or is in the post call timeout period.			
Pre-Alert	This is when an incoming call arrives on a trunk and the system is waiting for Caller ID.			
Outgoing Alerting	When an outgoing call is being made and the far end is alerting.			
Incoming Alerting	When an incoming trunk call is visually or audibly alerting or is in a hunt group queue.			
Paging	Indicates one or more output points of a paging call.			
Recording	A surrogate call is being used to record the call whose ID is indicated.			
Held at Central Office	For European ISDN lines, the central office has the call on hold. It will free the B-channel which will be seen as idle in SSA.			
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 call is held in a hunt group queue and is not alerting at any extension. The other end will be in Ringback/Incoming Alerting or Connected Announcement state.			
Alerting Announcement	Indicates that the call is alerting at one or more extensions or trunks and is also currently connected to voicemail for a queuing announcement.			
Queuing Announcement	Indicates that the call is held in a hunt group queue, is not alerting at any extension and is currently connected to voicemail for a queuing announcement.			
Connected Announcement	Indicates that this end of the call is connected because the call is or has been listening to a queuing announcement.			

* When a call is alerting, one endpoint will be in the alerting state and the other will be in the ringback state. From the view of the call model, Ringback and Incoming Alerting are equivalent states. Also, Alerting and Outgoing Alerting are equivalent states.

Trunk Summary and Extension Status screens will show a direction for each call. For a trunk, the call is shown as outgoing (if IP Office initiated the call) and incoming (if the central office or network initiated the call). For an extension, the call is shown as outgoing (if the extension initiated the call) and incoming (if another party initiated the call).

For examples of call sequences that include announcements, see Tracing.

Callback and Returning Calls

The following table shows what is reported as the originator:

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

* While alerting at the telephone who originated the callback.

Resources

System Resources

The System Resources screen provides a summary of key sources and their current usage in the system.

IP Office System Status	- IP500 Site A (192.168.	42.1)						
avaya	IP Office System Status							
Help Snapshot LogOff Exit	About							
■ System ■ Control Unit (IP500) ■ VoIP Trunks (2) ■ H.323 Extensions ■ ♣ Alarms (10) ■ Extensions (17) ■ Trunks (10) Active Calls ■ ▶ Resources Licenses	System Resources Primary Music on Hold Source (1): Internal Alternate Music on Hold Source (2): 1234567890123456789012345678901 Configuration Size: 1024K Configuration Used: 32K Memory Free: 73189K				File Status: Loaded File Status: Failed to Load			
Directory								
Voicemail	Channels	Number of Channels	Number in Use	Usage	Congestion Count	Last Date of Congestion		
	Data	48	0	0%	o			
	VCM	64	0	0%	0			
	VM	4	0	0%	o			
	Modem	0	0	0%	1	04/02/2008 1		
	Conference	64	0	0%	0			
<	Pause							
					07:39:04	Online		

The following information is displayed:

• Music on Hold Source

Music on Hold (MOH) is provided by IP Office as either an internally stored file or an externally connected audio input. For IP Office 4.2+ details of the configured alternate music on hold sources are also shown.

- Configuration Size The maximum available Kbytes size available for a configuration file. This varies depending on the control unit.
- **Configuration Used** The total number of Kbytes that have been used in the configuration file.
- Memory Free The number of free Kbytes in IP Office.
- 8kHz Clock Source

For systems with digital trunks this will indicate the trunk being used as the clock source for the IP Office system. If no clock source has been configured the IP Office will default to using its own clock.
Channels

One of the following:

VCM Channels

Voice compression channels are used for calls between IP and non-IP devices (trunks and or extensions). For most control units, voice compression channels are provided by the installation of VCM cards.

Data Channels

Data Channels is used for Remote Access (RAS), Internet Access, and Voicemail sessions. A data channel is an internal signaling resource used whenever a call is made from the IP network to an exchange line (Central Office). 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) varies with the IP Office control unit type. These channels are used 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. For Voicemail Pro the number available is based on the voicemail licenses installed.

• 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 all of the resources were in use. For example; if there are 4 voicemail channels and there has been an attempt to access this channel, the congestion count will display 1.

Last Date of Congestion

When a request for a resource has failed.

Licenses

IP Office 4.2+. This screen shows the current installed licenses and the status of those licenses. The type and serial number of the Feature Key Dongle is also shown.

IP Office System Status	s - IP500 Site A (1	92.168.4	42.1)							
avaya		1	IP O	ifice S	ystem	Status				
Help Snapshot LogOff Exit	About									
■ System ■ Control Unit (IP500) ■ VoIP Trunks (2) ■ H.323 Extensions	Feature Key Detec	ted: Li	ocal, Seria	Number 510	Licenses 0691					
 Å Alarms (10) Extensions (17) Trunks (10) 	License Type	Available Instances	Number of Licenses	Congestion Count	Last Date of Congestion	License Key	Status	Instances	License Expiration Date	
Active Calls	Unused (1)	Unlimited	0			TvKLBSd49dOTZ	Valid	Unlimited	Never	^
	CTI Link Pro	Unlimited	0			QXzkbho8LKPi3fl	Valid	Unlimited	Never	
Directory	Wave User	Unlimited	0			CKyLJ3vd9SGKn	Valid	Unlimited	Never	
Control Unit Audit	Integrated Messa	Unlimited	0			BUSMBCLCGUMBU	Valid	Unlimited	Never	
🗷 Voicemail	Microsoft CRM Int	Unlimited	0			HGDPfha35LlaDV	Valid	Unlimited	Never	
IP Networking	CCC Spectrum W	Unlimited	0			vtHT@Sd95XDec	Valid	Unlimited	Never	
	DECT Integration (Unlimited	0			Q35k76dovNs1bt	Valid	Unlimited	Never	
	Pause									
								07:48:10	Onlin	е

• Note that the consumption of some licenses (ie. the difference between and Available Instances and Instances) is not controlled by the IP Office itself, for example CCC licenses. In those cases the Available Instances and congestion events are not know.

Directory

For IP Office 5.0, this screen is split several parts.

The first part is a table indicating the system directory number sources being used by the IP Office.

System

Directory entries stored as part of the IP Office configuration. These are entered and edited using IP Office Manager. They can also be edited by a system phone user using a 1608/1616 phone

LDAP

Directory entries imported using LDAP from an LDAP server. The IP Office needs to be configured to use LDAP Directory Services and how often to import using LDAP.

HTTP

Directory entries imported using HTTP from another IP Office. The IP Office needs to be configured to use HTTP Directory Services and how often to import using HTTP.

Total

The total number of current directory entries and the overall system maximum.

For LDAP and HTTP directories; the time, date and status of the last import are shown. Also the number of records imported and the number discarded. Records are discarded if they have a blank name or number, match an existing record or exceed the total capacity of the IP Office system.

Last Update

The last time the Update Status (below) was changed.

- Update Status
 - The status or result of the last update:
 - Success: The last update was successful.
 - **Success with Overflow:** The last update was successful but some entries were not imported because the maximum was exceeded.
 - Failure: The last update attempt was not successful.
 - In Progress: The IP Office is currently importing records.
 - Not Configured: The IP Office does not have an import source has been configured.
- Imported

The number of entries imported during the last successful update.

Discard

The number of entries discarded, due to being invalid or duplicate, during the last successful update.

For hunt groups, the hunt group can be selected and the **Membership** button pressed to display the users who are members of that hunt group.

If there are conflicting Small Community Network entries, the Conflicts button can be used to locate those entries.

IP Office System Status	- System5 (19	2.168.42.1) -	IP500 5.0 (110	012)				
AVAYA		1	P Office	System	Status			
Help Snapshot LogOff Exit	About							
 System Alarms (4) Extensions (9) 	Sources:			Directory				
Trunks (7) Active Calls	Directory	Running	Maximum	Last Update	Update Status	Imported	Disca	rded
🗏 Resources	System	3	2500					
Licenses	LDAP	0	5000	10/03/2009 09	Not Configured	0		0
Directory	HTTP	0	5000	10/03/2009 09	Not Configured	0		0
Control Unit Audit	Total	3	5000					
Voicemail IP Networking	Number of Rem	ote Small Communi	ty Network Sites:	Not Networke	1			
	Number of Loca	User Entries:		15				
	Number of Loca	Group Entries:		2				
	Number of Rem	ote Liser Entries		0				
	Number of Rem	oto Osor Entrios.		0				
		ote Group Entries:		0				
	Total Number of	User and Group E	ntries:	17				
	Users and Groups	:						
	Name	Number	Туре	Source of Entry			Current Location	
	RemoteManager		User		Local			~
	NoUser		User		Local			
	Extn201	201	User		Local			
	Extn202	202	User		Local			
	Extn203	203	User		Local			
	Extn204	204	User		Local			
	Extn205	205	User		Local			
	Extn206	206	User		Local			
	Extn207	207	User		Local			
	Extn208	208	User		Local			
	Extn299	299	User		Local			
	Extn298	298	User		Local			V
	Refresh	Membership	⊆onflicts			00.20	1.26	Opline -

Control Unit Audit

IP Office 4.2+. This screen displays the control unit audit trail. It shows who has accessed the system configuration and the type of actions they have been performing.

💵 IP Office System Statu	s - IP500 Site A (192.168.42.1)		
AVAYA	IP O	ffice System Status	5
Help Snapshot LogOff Exit	About		
 System Control Unit (IP500) VoIP Trunks (2) 		Control Unit Audit	
H.323 Extensions	Date and Event Type Item Char	nged Outcome IP Office PC IF	PC MAC PC Login
🔳 🍓 Alarms (10)	Time	Account Add	ress Address Username
Extensions (17)	21/06/2007 Security Login	Success Operator	
I Trunks (10)	18/01/2008 Write with I System	Success Administrator 192.	168.42 00-01-6C-E Administrator
Active Calls	18/01/2008 Write with I System	Success Administrator 192.	168.42 00-01-6C-E Administrator
E Resources	18/01/2008 Warm Start	Success System Re	
Licenses	18/01/2008 Write with I System	Success Administrator 192.	168.42 00-01-6C-E Administrator
Directory	18/01/2008 VVarm Start	Success System Re	
Control Unit Audi	18/01/2008 Write with M System	Success Administrator 192.	168.42 00-01-6C-E Administrator
🗷 Voicemail	23/01/2008 Write with M User Extr	1203 Success Administrator 192.	168.42 00-01-6C-E Administrator
IP Networking	23/01/2008 Write with M User Extr	1203 Success Administrator 192.	168.42 00-01-6C-E Administrator
	23/01/2008 Write with M	Success Administrator 192.	168.42 00-01-6C-E Administrator
	23/01/2008 Write with M User Extr	1203 Success Administrator 192.	168.42 00-01-6C-E Administrator
	23/01/2008 Write with M User Extr	1203 Success Administrator 192.	168.42 00-01-6C-E Administrator
	29/01/2008 Write with I User Extr	203 Success Administrator 192.	168.42 00-01-6C-E Administrator
	29/01/2008 VVarm Start	Success System Re	
	04/02/2008 Upgrade	Success	
	04/02/2008 VVarm Start	Success System Re	
	Refresh		
			07:50:14 Online

Voicemail Voicemail

IP Office 4.2+. This screen displays the status of the voicemail server configured for the IP Office. The details shown will vary according to the type of voicemail server.

💷 IP Office System Statu	s - IP500 Site	e A (192.168.42	.1)							
avaya		IP Office System Status								
Help Snapshot LogOff Exit	About									
System Control Unit (IP500) VolP Trunks (2) H.323 Extensions Alarms (10)	V Voicemail Typ Licenses:	ioicemail Status e:	Voice Mail Pr	0						
Extensions (17) Trunks (10)	License Type		A	vailable Instances		Number of Lic	enses in use			
Active Calls		Voicemail Pro (4 Por	ts)	Unlimited			0			
 ■ Resources Licenses Directory Control Unit Audit ■ Voicemail Mailboxes ■ IP Refunctions 	Total Number of Total Number of Last date and	of Voicemail Ports: of Voicemail Ports in time port allocation f	4 use: 1 ailed:	25%			<u> </u>			
A in networking	Call Ref	Service Type	Name	Call State	Time in State	Direction	Other Party on Call			
	1	Mailbox	?Extn203	Connected	00:00:05	Incoming	Extn 203, Extn203			
	Pause	<u>Call Details</u>				08.08	.32 Online			

Mailboxes

IP Office 4.2+. This screen displays details of the voicemail mailboxes on the voicemail server. It includes the number of messages and the current status of basic voicemail settings for the associated mailbox user or hunt group.

🗾 IP Office System Status	s - IP500 Site	e A (192.	168.42.1)							
AVAYA			IP (Offic	e Syst	tem S	tatus			
Help Snapshot LogOff Exit	About									
System Control Unit (IP500) VoIP Trunks (2) H.323 Extensions	Number of M	1ailboxes:	26		Mailbox	Status				
 ■ Å Alarms (10) ■ Extensions (17) ■ Trunks (10) 	Name	Voicemail Status	Hunt Group Broadcast	Email Options	Email Address	Text to Speech	Number of New Messages	Number of Read Messages	Numberof Saved Messages	
Active Calls Resources	RemoteMan NoUser	On On	Not Applica Not Applica	Off Off		Off Off	0	0	0	
Licenses Directory	Extn201 Extn202	Off On	Not Applica Not Applica	Off Off		Off Off	0	0	0	
Control Unit Audit	Extn203 Extn204	On On	Not Applica Not Applica	Off Off		Off Off	1 0	2	2	-
Mailboxes	Extn205 Extn206	On On	Not Applica Not Applica	Off Off		Off Off	0	0	0	-
	Extn207 Extn208	On On	Not Applica Not Applica	Off Off		Off Off	0	0	0	
	Extn209 Extn210	On On	Not Applica Not Applica	Off Off		Off Off	0	0	0	
	Extn211 Extn212	On On	Not Applica Not Applica	Off Off		Off Off	0	0	0	-
	Extn213 Extn214	On On	Not Applica Not Applica	Off Off		Off Off	0	0	0	-
	Extn215 Extn216	On On	Not Applica Not Applica	Off Off		Off	0	0	0	-
<	Pause									
/								08:09:0	5 Onlir	ne

IP Networking

IP Routes

IP Office 4.2+. This screen shows the IP routes known by the IP Office. This includes both configured static routes and routes learnt through RIP if enabled.

💷 IP Office System Status	- IP500 Sit	e A (192.1	68.42.1)						
avaya			IP C	office S	Systei	m Stat	tus		
Help Snapshot LogOff Exit	About								
System Control Unit (IP500) VolP Trunks (2) H.323 Extensions E & Alarms (10) Extensions (17)	Total Numbe Total Numbe Route Prioril	er of Administe er of IP Routes y:	ered IP Routes	∷ 5 5 Prefer	IP Routes				
Active Calls	Destination	Subnet Mask	Next Hop IP Address	Interface Name	Interface Type	Metric	IP Route Type	Source IP Address	Source IP Mask
Licenses	192.168.42.0 192.168.43.0	255.255.25 255.255.25		LAN1 LAN2(WAN)	LAN LAN		Directly Att		
Control Unit Audit	192.168.99.0 192.168.44.0	255.255.25 255.255.25	192.168.44.1	RemoteMa	DialUp LAN	1	Static		
Mailboxes	192.168.46.0	255.255.25	192.168.46.1	LAN1	LAN	1	Static		
A IP Networking ▶ IP Routes Tunnels	Pause	Ping							
		I ÜIG						09-40-00	Online
							L	00.10.00	Online

Tunnels

IP Office 4.2+. This screen display details of the VPN tunnels (IPSec and L2TP) configured on the IP Office.

💵 IP Office System Statu	ıs - IP500 Site A (192.168.4	2.1)		
AVAYA	1	IP Office Syste	m Status	
Help Snapshot LogOff Exi	t About			
 System Å Alarms (9) Extensions (17) Trunks (10) 	Total Number of Administered T	Tunnel Stat	tus	
Active Calls Resources	Tunnel Name	Tunnel Type	Remote Tunnel Endpoint	Association
I Voicemail	Site B	L2TP	192.168.50.1	None
IP Networking	RemoteD	IPSec	192.168.56.1	None
Tunnels	Pause			
			08:0	00:24 Online

Tracing

Overview

SSA enables traces to be generated for calls, lines and extensions.

Trace information is presented 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.

When a trace is displayed, the option to **Print** and/or **Save As** are available. A trace can be saved to file either as a *.txt* or *.csv* file. If the trace is paused, only the information currently displayed will be saved and/or printed.

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

• If the viewer restarts whilst a trace is being generated and the trunk/channel/extension/buttons being traced are still valid, the viewer retains the trace before loss of connection. A line is added to the trace as follows: [time and date] Connection to the Control Unit restarted. The trace continues to generate.

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.

Call Traces

You can trace a call from the Call Details screen. The trace of a call will show changes of state for that call and events relating to both ends of the call. For example; it will indicate if a button is pressed on an extension that is on the call or if a protocol message is sent or received for a trunk channel that is on the call. These events will be shown for as long as the extension/trunk is associated with the call. For example; if one extension transfers a call to another, you will see the transfer being carried out by the first extension; events relating to the second extension will then be shown.

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.

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, a call can be held at the central office rather than IP Office. In such cases, the call stops being associated with a particular channel; it may then be un-held and become associated with the same or a different channel. If such a call is initially associated with a trunk channel that is being traced, it will continue to be shown in the trace for as long as it is associated with the trunk, even if it is re-associated with a different channel or is associated with no channel at all.

Analog Trunk

Tracing Incoming Calls on Analog Lines

SSA can be used to troubleshoot calls that are being disconnected.

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

🗊 IP Office System Status	- Australia (192.168.42.9)							_ 🗆 ×
AVAVA			IP	Office Syste	em Status	;		
Help Snapshot LogOff Exi	t About							
 System Alarms (2) 	Status Utilization Summary	Alarms						
Extensions (12)				Analog 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	00:43:22			
	2 Line: 2 Front Panel Port: 2	Loop Start CLI		Idle	00:44:31			
	4 Line: 4 Front Panel Port: 4	Loop Start CLI		Ide	02:54:18			
Incoming call								
	Paint International Ports:	Pre-Alerting						
Call rings at Ext 211	26/01/07 13:42:24-263ms Line = 1, 4	Alerting, Call Ref = 63, Calle	r ID Name	= Extn211, Number = 211				
Call routes to mailboy for	26/01/07 13:42:24-289ms Call Ref =	63, Originator State = Dialli	ng, Type =	Trunk, Destination State =	Alerting, Type = Targe	et List		
Extn 210	26/01/07 13:42:24-205ms Call Ref =	63, Originator State = Incor	ning Alertir	- i ng, Type = Trunk, Destinati	on State = Alerting, Ty	pe = Target List		
	26/01/07 13:42:39-279ms Call Ref =	63, Retargeting				N.4. 19		
Caller disconnects	26/01/07 13:42:39-303ms Call Ref =	63, Originator State = Conr 63, Answered, Mailbox #E	xtn210	e = Trunk, Destination Sta	te = Connected, Type	= Malibox		
	26/01/07 13:42:45-711ms Call Ref =	63, Originator State = Clea	ring, Type	= Trunk, Destination State :	= Connected, Type = N	failbox		
	26/01/07 13:42:45-711ms Call Ref =	63, Disconnect from Origin	ator End					
	Trace Clear	Print Save As						
							1	1:26:08 Online

- 1. The call rings in to IP Office.
- 2. The call is assigned a Call Ref of 63.
- 3. The call rings at extension 211.
- 4. The call is redirected to the user's voicemail box.
- 5. The call is then disconnected by the outside caller (originator) of the call.

_ 8 ×

Tracing Outgoing Call - Call Disconnected by the IP Office User

The following example shows an extension dialling out on an analog trunk: IP Office System Status - F-075-S0E-1 (192.168.42.250)

AVAYA

IP Office System Status

Help Snapshot LogOff	Exit About	
System	Extension Status	
Extensions (12) Ext 210 dials the	Current User Extension Number: 210	*
digit '8' for secondardy dial tone	Trace Output - All Buttons:	
204	™24401/07 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	
IP Office matches the shortcode '8N'	24/01/07 16:25:39-013ms Call Ref = 21, Short Code Matched = System, 8N	
207	24/01/07 16:25:39-030ms Line = 4, Seized, Cail Ref = 21 24/01/07 16:25:39-224ms My buttons = 1, Cail Ref = 21, Originator State = Dialling, Type = User, Destination State = Seized, Type = Trunk	
Analog Line 4 is seized	24/01/07 16:25:39-725ms Line = 4, Wait for Dialtone Ended, Call Ref = 21	
210	24/01/07 16:25:39-747ms Call Ref = 21, Alerting, Line = 4	
-211 123456790' is dialod	24/01/07 16:25:39-757ms My buttons = 1, Call Ref = 21, Originator State = Connected, Type = User, Destination State = Connected, Type = Trunk 24/01/07 16:25:39-757ms Call Ref = 21, Answered, Line = 4	
on Analog line 4	24,01/07 16:25:40-254ms Extension = 210, Digit dialed, Digit = 1	
Active Calls	24/01/07 16:25:40-516ms Extension = 210, Digit dialed, Digit = 2 24/01/07 16:25:40-755ms Extension = 210, Digit dialed, Digit = 3 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	
Call is disconnected	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	
	724/01/07 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	24/01/07 16:25:44-903ms My buttons = 1, Call Ref = 21, Originator State = Clearing, Type = User, Destination State = Connected, Type = Trunk	
	24/81/07 16:25:44-907ms Extension = 210, State = Disconnected	
	24/01/07 16:25:44-917ms Extension = 210, Button = 1, Idle 24/01/07 16:25:44-920ms Extension = 210, State = Busy Wrap Up	
	24/01/07 16:25:46-922ms Extension = 210, State = Idle	
	Trace Clear Pause Call Details Print Save As	
	16:25:52 Onli	ine

- 1. Extension 210 dials 8123456789.
- 2. The trace shows Extension = 210, Digit dialed, digit = 8.
- 3. IP Office matches the dialed 8, to the system shortcode 8N.
- 4. The trace shows that the analog line 4 is seized and **123456789** is dialed on the line.
- 5. The trace shows that extension 210 goes back on hook.
- 6. The call is then disconnected by IP Office (Originator).

Notes

- Analog lines will go directly from a 'seized' state to a 'connected' state, since the line provides no call progress signalling to IP Office.
- The trace will not show the digits dialled on an analog trunk after shortcode matching, if the pause between digits dialled exceeds an 'inter-digit' timeout.

IP Office System Status - E-075-SDE-1 (192.168.42.

Tracing Outgoing Call - Call Disconnected by Outside Caller

The following example describes an outgoing call on an analog line, where the call is disconnected by an outside caller:

🗊 IP Office System Status	- F-075-50E-1 (192.168.42.250)	<u>_ 8 ×</u>
AVAYA	IP Office System Status	
Help Snapshot LogOff Exit	t About	
⊐⊢System ⊐⊣∰ Alarms (2)	Extension Status	
Ext 210 goes 'Off Hook'	Extension Number: 210	*
202 Ext 210 dials the digit '8' for secondary dial tone	Trace Output - All Buttons: 2001/07 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 17:36:52-814ms Mv buttons = 1. Call Ref = 28. Originator State = Dialling, Type = User, Destination Type = none	A
-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 17:36:53-859ms 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 ms Mv buttons = 1. Call Ref = 28 24/01/07 17:36:54-04 ms Mv buttons = 1. Call Ref = 28	
shortcode '8N' for secondary dial tone	24/01/07 17:36:54-544ms Line = 4, Wait for Diatione Ended, Call Ref = 28 24/01/07 17:36:54-547ms Line = 4, Dialing, Call Ref = 28, Digits = 24/01/07 17:36:54-566ms Call Ref = 28, Alerting, Line = 4	
Analog Line 4 is seizeu Active Calls '123456789' is dialed on	24/01/07 17:36:54-575ms My buttons = 1, Call Ref = 28, Onginator State = Connected, Type = User, Destination State = Connected, Type = Trunk 24/01/07 17:36:54-575ms Call Ref = 28, Answered, Line = 4 24/01/07 17:36:56-802ms Extension = 210, Digit dialed, Digit = 1 24/01/07 17:36:56-802ms Extension = 210, Digit dialed, Digit = 2	
Analog Line 4	24/01/07 17:36:58-411ms Extension = 210, Digit dialed, Digit = 3 24/01/07 17:36:58-212ms Extension = 210, Digit dialed, Digit = 4 24/01/07 17:36:59-471ms Extension = 210, Digit dialed, Digit = 5 24/01/07 17:36:59-471ms Extension = 210, Digit dialed, Digit = 6 24/01/07 17:37:00-471ms Extension = 210, Digit dialed, Digit = 7	
Call is disconnected by the outside caller	24/01/07 17:37:01-012ms Extension = 210, Digit dialed, Digit = 8 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 hangs up	24/01/07 17:37:06-444ms Extension = 210, State = Disconnected 24/01/07 17:37:06-448ms Extension = 210, State = Busy Wrap Up 24/01/07 17:37:08-455ms Extension = 210, State = Idle	•
	Trace Clear Pause Call Details Print Save As	
	17:37:09	Online

- 1. Extension 210 dials 8123456789.
- 2. The trace shows Extension = 210, Digit dialed, digit = 8.
- IP Office matches the dialed 8, to the system shortcode 8N. 3.
- 4. The trace shows that the analog line 4 is seized and **123456789** is dialed on the line.
- 5. The trace shows that the call is disconnected by the outside caller (Destination End).
- 6. Extension 210 is disconnected.

This type of trace is useful when customer report calls are being disconnected.

Notes

- 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. .

Extension

Incoming Outside Call - Disconnected by Outside Caller

The following example details an incoming call that has been answered and then dropped by the outside caller:

🗾 IP Office System Status -	- Australia (192.16	8.42.9)							- 🗆 ×
AVAYA				IP Off	ice System	Status			
Help Snapshot LogOff Exit	: About								
 System Alarms (0) 					Extension Status	:			
Extensions (12) 209 ▶ 210 211 3001 3002 3003 3004 3008 3009	Extension Numbe Module: Port: Telephone Type: Current User Ext Current User Nai Forwarding: Twinning:	er: tension Number: me:	210 Control Unit - DS 2 5410 210 Extn210 Off Off	5 Ports					
3010 3011 3012 Trunks (7) Lines: 1 - 4 Line: 25	Do Not Disturb: Message Waiting Number of New I Phone Manager	i: Messages: Type: Button Type	Off Off O None Call Ref	Current State	Time in State	Calling Number or Called	Direction	Other Party on Call	
Line: 50 Active Calls Resources	1 2 3	CA CA CA		Idle Idle Idle	00:00:26	Number			
Call rings at Ext 210	Trace Output - All E 26/01/07 11:48:52- 26/01/07 11:48:52- 26/01/07 11:48:52- 26/01/07 11:48:54-	Buttons: 116ms Call Ref = 117ms Call Ref = 307ms Extension	18, Originator State 18, Alerting, Extensi = 210, Switchhook,	= Incoming Alerting, Type on = 210, Button = 1 Status = Off	= Trunk, Destination State	e = Alerting, Type = Target	List		_
Extension 210 answers call	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-	318ms My buttons 318ms Call Ref = 724ms My buttons 724ms Call Ref = 742ms Extension	s = 1, Call Ref = 18, (18, Answered, Exte s = 1, Call Ref = 18, (18, Disconnect from = 210, State = Disco	Originator State = Connec .nsion = 210 Originator State = Clearing Originator End onnected	ted, Type = Trunk, Destina g, Type = Trunk, Destinatio	ation State = Connected, T on State = Connected, Typ	ype = User e = User		
Ext 210 goes back on hook	26/01/07 11:48:58- 26/01/07 11:48:58- 26/01/07 11:49:00-	744ms Extension 746ms Extension 750ms Extension	= 210, Button = 1, ld = 210, State = Busy = 210, State = Idle	lle Wrap Up					
	Tra <u>c</u> e Clear	Pause Ba	ack <u>⊆</u> all Detai	ils Print	Save As			11:49:27 0	nline

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

Incoming Outside Call - Disconnected by IP Office User

The following example details an incoming call that has been dropped by extension 210:



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

Extension Button Selection

SSA is useful in tracing buttons that are pressed at a particular extension.

The following example details a trace of button activity at an extension:

🗊 IP Office System Status - Australia (192.168.42.9)
--

🗊 IP Office System Status	- Australia (192.168.42.9)				
AVAYA		IP C	Office Syster	n Status	
Help Snapshot LogOff E>	kit About				
System			F.4		
Alarms (0)			Extension Sta	nus	
209	Extension Number:	209			<u> </u>
210	Module:	Control Unit - DS Ports			
211	Port:	1			
3001	Telephone Type:	5410			
3002	Current User Extension Number:	209			
3003	Current User Name:	Extn209			
3008	Forwarding:	Off			
3009	Twinning:	Off			
3010	Do Not Disturb:	Off			
3011	Message Waiting:	Off			
3012 Trunke (7)	Number of New Messages:	0			L.
Active Calls	Phone Manager Type:	None			
Resources	Putton Number – Putton Tune	Call Def Current State	Time in State	Calling Number or Called Direction	Other Barty on Call
Call rings in to IP Office	battor wantber battor rype		nine in state	Number	
	Trace Output - All Buttons:				
Call rings at Ext 209	26/01/07 11:33:51-916ms Call Ref = 3	8, Originator State = Ringback, Type = U	ser, Destination State = Ale	rting, Type = Target List	
	26/01/07 11:33:51-917ms Call Ref = .	= 209. Pressed Programmed Button. But	ton Number = 1. Label = Ap	pearance	
Ext 209 answers the call	26/01/07 11:33:53-996ms My buttons	= 1, Call Ref = 3, Originator State = Cor	nected, Type = User, Desti	nation State = Connected, Type = User	
	26/01/07 11:33:53-996ms Call Ref = :	3, Answered, Extension = 209			
Ext 209 narks the call on	25/01/07 11:33:59-298ms Extension	= 209, Pressed Programmed Button, But - 209, State - Busy	ton Number = 4, Label = Ca	ll Park	
park 1	26/01/07 11:33:59-310ms Extension	= 209, Button = 1, Idle			
	26/01/07 11:33:59-312ms Extension	= 209, State = Busy Wrap Up			
	26/01/07 11:34:01-315ms Extension	= 209, State = Idle			
Ext 209 takes the call off of Dark 4	25/01/07 11:34:03-285ms Extension	= 209, Pressed Programmed Button, But 3. Originator State = Connected, Type =	ton Number = 4, Label = Ca User. Destination State = C	II Park oppected Type = Liser	
UI PAIK I	26/01/07 11:34:08-385ms Extension	= 209, Pressed Fixed Feature, Button =	Transfer	onnected, rype - esci	
	26,01/07 11:34:08-391ms My buttons	= 1, Call Ref = 3, Originator State = Hol	ding, Type = User, Destinati	ion State = Held for Transfer/Conference, Typ	e = User
Ext 209 pushes Transfer	26/01/07 11:34:08-394ms Extension	= 209, State = Busy Wrap Up			
	26/01/07 11:34:08-404ms Extension	= 209, State = Idle 4. Originator State = Seized. Type = Use	r. Destination Type = none		
Ext 209 hangs up	26/01/07 11:34:10-413ms Extension	= 209, Digit dialed, Digit = 2			
	26/01/07 11:34:10-416ms My buttons	= 2, Call Ref = 4, Originator State = Dial	ling, Type = User, Destinatio	on Type = none	
	26/01/07 11:34:10-800ms Extension	= 209, Digit dialed, Digit = 1 = 200, Digit dialed, Digit = 0			
	26/01/07 11:34:11-465ms Extension	- 209, Digit dialed, Digit = 0 4. Alerting, Extension = 210, Button = 1			
	26/01/07 11:34:12-488ms My buttons	= 2, Call Ref = 4, Originator State = Rin	gback, Type = User, Destina	ation State = Alerting, Type = Target List	
	26/01/07 11:34:14-847ms Extension	= 209, Pressed Fixed Feature, Button =	Transfer		
	26/01/07 11:34:14-858ms Extension = 26/01/07 11:34:14 882ms Extension =	= 209, Button = 1, Idle - 209, State - Busy			
	26/01/07 11:34:14-884ms Extension	= 209, Button = 2, Idle			
	26/01/07 11:34:14-886ms Extension	= 209, State = Busy Wrap Up			
	26/01/07 11:34:16-888ms Extension	= 209, State = Idle			
	1 ¹				
	Trace Clear Pause Ba	ick Call Details Print	Save As		
					11:35:35 Online

- 1. A call rings at extension 209.
- 2. Extension 209 answers by pressing a call appearance.
- 3. Extension 209 parks the call on Park 1.
- 4. Extension 209 takes the call off Park 1.
- 5. Extension 209 selects the Transfer button.
- Extension 209 dials extension 210 and selects the Transfer button again. 6.
- 7. Extension 209 hangs up.

System Status Application

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 will also see **My buttons** marked against call state changes. This allows you to understand why this call is being reported in the trace:

💵 IP Office System Statu	s - F-075-IP50	0-1 (192.168	.42.120)						
AVAYA				IP Off	ice Systen	n Status			
Help Snapshot LogOff Exit	About								
E System					Extension Stat	us			
Extensions (74)	Extension Num	iber:	6693						
4624 6666	Slot:		3						
6667	Port:		1						
6668	Telephone Typ	ie:	6424						
6670	Current User E	xtension Number	: 6693						
6671	Current User N	lame:	Extn6693						
6672	Forwarding:		Off						
6673	Twinning:		Off						
6674	Do Not Disturb	:	Off						
6676	Message Waiti	ing:	On						
6677	Number of Nev	v Messages:	14						
6678	Phone Manage	r Type:	None						
Call alerts on Button 1							let u		
(Ext 6693) and Button 5 (Ext 4624) Ext 4624	Button Number	Button Type	Call Ref	Current State	lime in State	Calling Number or Called Number	Direction	Other Party on Call	
is a Bridged	1	СА		ldle	00:01:37				
Appearance for Ext	2	CA		Idle					
6693	3	CA		Idle					
6686	8	BA		Idle					
6687	9	LA		Idle					
6688									ITCO COMPANYA
6689	Trace Output - A	II Buttons: 12 058ms Call Re	af = 192 Originat	or State - Incoming Ale	rting Tune – Trunk De	estination State - Alertin	na Tune – Teraet List		
Ext 4624 answers the	26/01/07 15:38:0	12-058ms Call Re	f = 192, Alerting	, Extension = 4624, Bu	ton = 5	Stillioton State - Alertin	ig, type – target List		
call, so Button 1 goes	26/01/07 15:38:0	12-058ms Call Re	f = 192, Alerting	Extension = 6693, Bu	ton = 1				
to state 'In Use	26/01/07 15:38:0	19-699ms Extens 19.700ma Mulaud	ion = 4624, Swit	chhook, Status = Off f = 193, Originator Stat	o – Incoming Alerting -	Tuno – Trunk Doctingtis	on State - Alerting Turn	o – Lloor	
becomes idle	26/01/07 15:38:0	9-705ms Extens	ion = 6693, State	e = Busy Wrap Up	e - Incoming Alerting,	rype – munic, bestinatio	n State - Alerting, Typ	6 - 036	
0000	26/01/07 15:38:0	9-706ms Extens	ion = 6693, State	e = Idle					
The caller clears	26/01/07 15:38:0	19-716ms Extens	ion = 6693, Butto 9. Chennel = 1. C	on = 1, State = In Use E 0 931 Message = Com	isewhere oct. Coll Rof = 193. Dir	action - From Switch			
state is reported since	26/01/07 15:38:0	19-725ms Mybut	tons = 1, Call Re	f = 192, Originator Stat	e = Connected, Type =	Trunk, Destination Stat	e = Connected, Type =	User	
the call is still being	26/01/07 15:38:0	9-725ms Call Re	ef = 192, Answer	ed, Extension = 4624					
tracked by the call	26/01/07 15:38:2	2-867ms Extens 12 860ma Mulaid	ion = 4624, Swit	chhook, Status = On (= 193, Originator Stat	a - Connected Tune -	Truck Dectination Stat	o – Clearing, Tuna – Us	or an	
the state is marked as	26/01/07 15:38:2	2-869ms Call Re	f = 192, Disconn	ect from Destination El	e – connected, rype – nd	Trunk, Destination Stat	e – cleaning, rype – os	5CI	
'My buttons=1'	26/01/07 15:38:2	2-884ms Extens	ion = 6693, Butto	on = 1, Idle					
6704	/								
With the call cleared,	Turn Olar					1			
Button 1 returns to idle 🔏	Trace Clear	Pause				1			
								15:39:46 On	iline

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, only the first alerting button will be shown.

The states of all the buttons on the extension can be examined in the top half of the Extension Status screen.

IP Office System	Statu	ıs - F-075-IP50	0-1 (192.168	3.42.120)					
AVAYA	. 1				IP Off	ice Systen	n Status		
Help Snapshot LogOff	Exi	t About							
6696 6697	^					Extension Stat	us		
6699		Extension Num	ber:	6728					
6700		Module:		6					
6701		Port:		20					
6702		Telephone Typ	e:	6424					
6703 6704		Current User E	xtension Number	r: 6728					
6705		Current User N	lame:	Extn6728					
6706		Forwarding:		Off					
6707		Twinning		Off					
6708		Do Not Disturb		Off					
6709		Messarie Maiti	pa:	On					
6711		Number of Nev	v Messages:	011					
6712		Phone Manage	r Type:	None					
6713						1	1		
6714		Button Number	Button Type	Call Ref	Current State	Time in State	Calling Number or	Direction	Other Party on Call
6715			<u></u>		Letter		Called Number		
6717		2	CA		Idle				
6718		3	CA		idle				
6719		4	LA	(1) 201	In Use Elsewhere	00:00:14			
A call alerts on the		6	cc	(1) 201	Connected	00:00:14		Incoming	Line: 13 Slot: 4 Port: 9
line appearance							manananananananananananana	nananananana ya kwaka kwa kwa katu	
6723		Trace Output - A	Il Buttons: 0 127ma Coll Pa	of = 201 Originat	or State - Incoming Ala	uting Tuno – Trunk Da	stingtion State - Alerti	na Tuno - Toract List	
6724		26/01/07 15:51:0	9-138ms Call Re	ef = 201, Oliginal ef = 201, Alerting	, Extension = 6693, But	tton = 1	Stination State - Alerti	ng, rype – rarget List	
l ater, it also alerts on		26/01/07 15:51:0	9-138ms Call Re	ef = 201, Alerting	Extension = 6728, But	tton = 4			
the coverage		26/01/07 15:51:0	9-138ms Call Re	of = 201, Alerting	Extension = 4624, But	tton = 5			
appearance (where it		26/01/07 15:51:2	2-056ms Extens 2-069ms Call Re	sion = 6726, Pres ef = 201_Originati	sed Programmed Butto or State = Connected	n, Button Number = 6,1 Type = Trunk Destinati	Label = Coverage App on State = Connected	earance Type = User	
is answered), so that the line annearance		26/01/07 15:51:2	2-069ms Call Re	ef = 201, Answer	red, Extension = 6728	, , , , , , , , , , , , , , , , , , ,	on oraco occanooroa,	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
shows 'In Use		26/01/07 15:51:2	2-073ms Extens	sion = 6728, Butto	on = 4, State = In Use E	ilsewhere			
Elsewhere'. 'My	V								
buttons' shows that									
with both of the	~	Trace Clear	Pause	<u>C</u> all Details	Print Sav	e As			
appearances									15:51:36 Online

Hunt Group

The trace examples in this section, show which extensions are ringing but not the call being delivered to the hunt group 'Main'. To view details on the call (including the name of the targeted hunt group), see Call Details.

Hunt Group Calls Sent to Voicemail After Ringing Hunt Group Members

The following example details a call received on IP Office and re-directed to voicemail:

🗊 IP Office System St	tatus -	Australia	(192.168.42.9)							- O ×
AVAYA	6 - 1			IP	Offic	e Syste	m Status	5		
Help Snapshot LogOfi	f Exit	About				-				
 System Alarms (0) 	Sta	i tus Utiliza	tion Summary	Alarms						
Extensions (12)					Analo	g Trunk Sumi	mary			
209	Slot	(Module:		Front Panel						
211	Nur	nber of Trur	ıks:	4						
3001	Nur	mber of Adm	inistered Trunks:	4						
3002	Nur	mber of Trun	aks in Use:	0						
3003	1401									
3004	Por	t Line		Line Type	Call	Current State	Time in State	Caller ID or	Other Party	Direction
3000		ID			Ref			Dialed Digits	on Call	of Call
3010	1	Line: 1 Fro	ont Panel Port: 1	Loop Start CLI		Idle	00:06:03			
3011	2	Line: 2 Fro	ont Panel Port: 2	Loop Start CLI		Idle	01:53:50			
3012	3	Line: 3 Fr	ont Panel Port: 3	Loop Start CLI		Idle	01:53:50			I I
Outside call rings	<u>–</u>		UNCEANER FUIL 4	poop start cer		Tule	01.33.30			
		- Out-ut - A	II Daubar							
Line: 25	Bein	3 Output - A	ill Ports: LO 927mo Lico - 1	Dro. Alorting						
EXt 209 and 210	26/0	1/07 08:22:1 1/07 08:22:1	10-927ms Line = 1 11-551ms Line = 1	Alerting Call Ref =	: 45. Calle	r ID Name = Extn2:	11 Number = 211			- A
ring	26/0	1/07 08:22:1	11-576ms Call Ref	= 45, Originator Sta	ate = Incor	ning Alerting, Type	e = Trunk, Destinati	ion State = Que	ueing, Type = •	Queue
Resources	26/0	1/07 08:22:1	l 1-627ms Call Ref	= 45, Originator Sta	ate = Incor	ning Alerting, Type	e = Trunk, Destinati	ion State = Aler	ting, Type = Ta	arget List
Call is redirected	26/0	1/07 08:22:1	l 1-627m s Call Ref	= 45, Alerting, Exte	nsion = 20)9, Button = 1				
	26/0	1/07 08:22:1	l 1-627mis Call Ref 14 Stating Call Ref	= 45, Alerting, Exte	nsion = 21 to = Copp	0, Button = 1	ek Destination Sta	to - Connorto	d Tusse – Meille	
	86/0	1/07 06.22.4 1/07 08:22:5	+i-oiinnis Cail Rei 53-464mis Call Ref	= 45, Originator Sta = 45, Originator Sta	ate = Conin ate = Clear	ing Type = Trunk	Destination State	= Connected 1	a, Type = Mailbi [yne = Mailbox	UX
Call is routed to	26/0	1/07 08:22:5	53-464ms Call Ref	= 45, Disconnect fr	om Origin	ator End	, bootination otato	- connociou,	,) po = mailbox	
										<u> </u>
l l										
	Tra	i <u>c</u> e Clear	⊆all Details	Print	<u>S</u> ave As					
									08:28:56	Online

- 1. An outside call is received on IP Office.
- 2. The call rings at extension 209 and extension 210.
- 3. The call is re-directed and answered by voicemail.

Hunt Group Calls Being Answered by Hunt Group Member

The following example details a call received on IP Office 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						1
Trunks (6)			Analog) Trunk Summa	ary			
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	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:	Due Alextic a						
	26/01/07 06:18:22-494ms Line = 1, 26/01/07 06:18:23-118ms Line = 1	Pre-Alerting Alerting Call Ref = 5 (°allar ID N	ame – Evto211. Nu	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 = Tru	nk, Destination Sta	te = Alerting, Ty	pe = Target Lis	t
	26/01/07 06:18:23-194ms Call Ref	= 5, Alerting, Extension	= 209, B	utton = 1				
Ext 209 answers the	26/01/07 06:18:23-194ms Call Ref : 26/01/07 06:18:27-746ms Extensio	= 5, Alerting, Extension n = 209, Switchbook, S	i = 210, Bi Status = C	utton = 1 iff				
call	26/01/07 06:18:27-781ms Call Ref	= 5, Originator State = (Connecte:	d, Type = Trunk, De	stination State = C	onnected, Type	= User	
	26/01/07 06:18:27-781ms Call Ref	= 5, Answered, Extens	ion = 209					
Ext 209 hangs up	26/01/07 06:18:36-696ms Extensio	n = 209, Switchhook, S	Status = C	n				
	26/01/07 06:18:36-700ms Call Ref	= 5, Originator State = (= 5, Disconnect from D	Connecte: actination	d, Type = Trunk, De Fod	stination State = Cl	earing, Type = L	lser	
Outside call is disconnected	20/01/07/06.16.36-700ms Call Ref 1	= 5, Disconnect from D	esunation	Ena				
	Tra <u>c</u> e Clear <u>C</u> all Details	<u>P</u> rint <u>S</u> a	ve As					
							06:21:46	Online

- 1. An outside call (originator) rings at extension 209 and extension 210.
- 2. Extension 209 (destination end) answers the call.
- 3. Extension 209 hangs up the call.
- 4. The outside caller is disconnected.

Hunt Group Call Being Directed into a Hunt Group's Queue and then Sent to Voicemail

The following example details an incoming call to IP Office, sent to the hunt group's queue and then re-directed to voicemail:

🗾 IP Office System State	us - <mark>Au</mark> s	stralia (192.168.42.9)								_ 🗆 ×
avaya			:	IP Of	ice Syste	m Status	5			
Help Snapshot LogOff I	Exit At	bout								
 System Alarms (0) Extensions (12) 	Sta	tus Utilization Summary	Alarms		Analog Trunk Si	unan arw				
Trunks (6) Lines: 1 - 4 Line: 25 Line: 50 Active Calls Resources	Slot, Num Num Num	/Module: nber of Trunks; nber of Administered Trunks; nber of Trunks in Use;	Front Panel 4 4 0	,	analog fromk Sc	линнагу				
	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 2 3 4	Line: 1 Front Panel Port: 1 Line: 2 Front Panel Port: 2 Line: 3 Front Panel Port: 3 Line: 4 Front Panel Port: 4	Loop Start CLI Loop Start CLI Loop Start CLI Loop Start CLI		Idle Idle Idle Idle	00:01:41 00:14:11 00:14:11 00:14:11				
Outside call rings in to the IP Office	Trace	: Outout - All Ports:								
The call is sent to Queue	26/01 26/01	1/07 06:47:14-897ms Line = 1, 1/07 06:47:15-521ms Line = 1, 1/07 06:47:15 548ms Call Ref -	Pre-Alerting Alerting, Call Ref = - 9. Originator State	9, Caller ID N	lame = Extn211, Num Alerting, Type = Trup	iber = 211 k. Destination State	- Oueueipa, Typ	e - Oueue		
Queue message is played Call is redirected to	26/01/07 06:47:15-546ms Call Ref = 9, Originator State = Incoming Alerting, Type = Trunk, Destination State = Queueing, Type = Queue 26/01/07 06:47:15-580ms Call Ref = 9, Originator State = Connected Announcement, Type = Trunk, Destination State = Queueing Announcement, Type = Queue 26/01/07 06:47:15-582ms Call Ref = 9, Originator State = Connected Announcement, Type = Trunk, Destination State = Queueing, Type = Queue 26/01/07 06:47:23-738ms Call Ref = 9, Originator State = Connected Announcement, Type = Trunk, Destination State = Queueing, Type = Queue 26/01/07 06:47:25-556ms Call Ref = 9, Originator State = Connected Announcement, Type = Trunk, Destination State = Connected, Type = Mailbox 26/01/07 06:47:35-399ms Call Ref = 9, Originator State = Clearing, Type = Trunk, Destination State = Connected, Type = Mailbox									
voicemaii	26/01 Trag	1/07 06:47:35-999ms Call Ref =	= 9, Disconnect from	n Originator I Save As	End					
									06:49:17	Online

- 1. An outside call is received on IP Office.
- 2. The call is sent to the hunt group's queue.
- 3. The queue message is played.
- 4. The call is re-directed to voicemail.

Call Being Abandoned While in a Hunt Group's Queue

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

🚺 IP Office System Sta	tus - Australia (192.168.42.9)								_ 🗆 ×
AVAYA			IP Of	fice Syste	em Statu	S			
Help Snapshot LogOff	Exit About								
 System Alarms (0) Extensions (12) Trunks (6) Lines: 1 - 4 Line: 25 Line: 50 Active Calls 	Status Utilization Summary Slot/Module: Number of Trunks: Number of Administered Trunks: Number of Trunks in Lice:	Alarms Front Panel 4 4		Analog Trunk Si	ummary				
Resources	Port Line ID 1 Line: 1 Front Panel Port: 1 2 Line: 2 Front Panel Port: 2 3 Line: 3 Front Panel Port: 3 4 Line: 4 Front Panel Port: 4	Line Type Loop Start CLI Loop Start CLI Loop Start CLI Loop Start CLI	Call Ref	Current State Idle Idle Idle Idle	Time in State 00:00:23 00:19:53 00:19:53 00:19:53	Caller ID or Dialed Digits	Other Party on Call	Direction of Call	
Outside call rings in to IP Office The call is sent to Queue	Trace Output - All Ports: 26/01/07 06:54:28-284ms Line = 1 26/01/07 06:54:28-908ms Line = 1	, Pre-Alerting , Alerting, Call Ref =	13, Caller I	D Name = Extn211, N	umber = 211				
Queue message is played Outside caller hangs up	26/01/07 06:54:28-932ms Call Ref 26/01/07 06:54:28-967ms Call Ref 26/01/07 06:54:28-969ms Call Ref 26/01/07 06:54:36-186ms Call Ref 26/01/07 06:54:36-186ms Call Ref	= 13, Originator Sta = 13, Announceme = 13, Originator Sta = 13, Originator Sta = 13, Disconnect fr	te = Incomir nt = Main, N te = Conne te = Clearin om Originat	ng Alerting, Type = Tr lumber = 1 cted Announcement, g, Type = Trunk, Des or End	unk, Destination Stat Type = Trunk, Destir tination State = Queu	te = Queueing, T nation State = Qu ueing Announcei	ype = Queue ieueing Annou ment, Type = G	ncement, Type = ueue	: Queue
	Call Details	Print	Save As					06:54:59	Online _

- 1. An outside call is received on IP Office.
- 2. The call is sent to the hunt group's queue.
- 3. The queue message is played.
- 4. The call is disconnected by the outside caller.

Hunt Group Call Overflowing to a Second Hunt Group and then Answered by Voicemail

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

🗾 IP Office System Status -	- Australia (192.168.42.9)							
AVAYA			IP	Office Syste	em Status			
Help Snapshot LogOff Exit	: About							
 System Alarms (0) 	Status Utilization Summary	Alarms						
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	Direction of Call
	1 Line: 1 Front Panel Port: 1	Loop Start CLI		Idle	00:04:45			
	2 Line: 2 Front Panel Port: 2	Loop Start CLI		Idle	01:04:43			
	3 Line: 3 Front Panel Port: 3 4 Line: 4 Front Panel Port: 4	Loop Start CLI		Idle	01:04:43			
Outside call rings in to IP Office	N							
and Ext 210	Trace Output - All Ports:							
N N	26/01/07 12:31:22-150ms Line = 1, P	re-Alerting			_			
Quouo mossago is	26/01/07 12:31:22-772ms Line = 1, A 26/01/07 12:31:22-785ms Call Ref =	Verting, Call Ref = 37, Caller 37, Originator State = Incor	'ID Name = vinc Alertin	: Extn3008, Number = 300 n. Type = Trupk: Destination	8 on State = Queueina, Tr	vne = Queue		
played	26/01/07 12:31:22-828ms Call Ref =	37, Alerting, Extension = 21	0, Button =	:1	on oldic - addading, r	ype - adodo		
	26/01/07 12:31:22-828ms Call Ref =	37, Alerting, Extension = 20	9, Button =	1				
	26/01/07 12:31:22-836ms Call Ref = 26/01/07 12:31:22-839ms Call Ref =	37, Announcement = Main, 37, Originator State = Conn	Number = " ected App	l puncement Type = Trunk	Destination State = Ale	erting Appouncement	Ivne = Target List	
The call is being	26/01/07 12:31:30-993ms Call Ref =	37, Originator State = Conn	ected Anni	ouncement, Type = Trunk,	Destination State = Ale	erting, Type = Target Li	st	
Diverflow aroun	26/01/07 12:31:30-993ms Call Ref =	37, Alerting, Extension = 21	0, Button =	:1				
Stornov group	26/01/07 12:31:30-993ms Call Ref =	37, Alerting, Extension = 20 37, Alerting, Extension = 21	19, Button = 1	:1				
	26/01/07 12:31:37-834ms Call Ref =	37, Retargeting						
The call is sent to the	26/01/07 12:31:42-794ms Call Ref =	37, Originator State = Conn	ected Anno	ouncement, Type = Trunk,	Destination State = Co	nnected, Type = Mailbo	x	
Mailbox of the hunt group	26/01/07 12:31:48-282ms Call Ref =	37, Originator State = Clear	ing, Type =	Trunk, Destination State :	= Connected, Type = M	ailbox		
	26/01/07 12:31:46-262ms Call Ref =	37, Disconnect from Origina	ator End					
	Tra <u>c</u> e Clear 🤇 Call Details	Print Save As.						
							. 1	2:36:33 Online

- 1. A outside call is received on IP Office.
- 2. The call rings at extension 209 and extension 210.
- 3. The queue message is played.
- 4. The call is re-directed to an overflow hunt group.
- 5. The call rings at extension 211 (a member of the overflow hunt group).
- 6. The call is then re-directed to the original hunt group's voicemail.

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Announcements

IP Office 4.0 allows calls that are either queuing or alerting, to be played announcements in a pattern that is configured using Manager. When an announcement is heard on a call, the current state is displayed as Connected Announcement and this state will remain until the call is either answered or cleared. SSA displays the type of announcement as well as details of the queue 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'. The originator state is Connected Announcement because an announcement has played to this call but at present no announcement is being played.

IP Office System Status - F-075-IP500-1 (192.168.42.120)

ΑνΑγΑ						IP Office Sy	rsten	n Status				
Help Snapshot LogOff	Exit Al	bout										
■–System ■– å Alarms (11)	Active Calls: 3											
E-Extensions (74) Trunks (10)	Call Ref	Call Length	Originator En	d Party		Current State	Time in State	Incoming Caller ID	Destination End Party	Current State	Time in State	Connecte d Caller
E-Resources	37	00:00:46	Line: 9 H.32	3 192.168.42.1	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.32	3 192.168.42.1	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.32	3 192.168.42.1	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:

🛂 IP Office System Status - F-075-IP500-1 (192.168.42.120)

IP Office System Status
Exit About
Status Lhiization Summary Alarms
H.323 Trunk Summary
IP Address: 192.168.42.1
Test County County <thcounty< th=""> <thcounty< th=""> <thcount< td=""></thcount<></thcounty<></thcounty<>

IP Office 4.0 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'.

A call that is listening to an announcement will indicate the call reference of the multicasting call to which it is linked.

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'.
- 2. 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.

Snapshot LogOf	f Exit Al	bout								
ystem Alarms (11)					Act	ive Calls: 4				
rtensions (74) runks (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 sources	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	

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

IP Office System State	ıs - F-075-IP500-1 (192.168.42.120)	
avaya	IP Office System Status	
Help Snapshot LogOff Ex	t About	
I System C Å Alarms (12) E Extensions (74) E Trunks (10) Line: 1 Line: 2 Line: 3 Line: 5 ▶ Line: 9 Lines: 13 - 16 Active Calls Resources	View Lutization Summary P Address: 192,168.42.1 Trace Output - All Channels: 260107 1419.33.935ms Line = 9, Line Ref = 32847, 0.331 Message = Setup, Direction = To Switch, Calling Party Number = 604, Called Party Number = 301 260107 1419.33.949ms Caller = 186, Ontranel Allocated, Channel ID = 1, call Ref = 186, Line Ref = 32847 260107 1419.33.949ms Caller = 186, Ontranel Allocated, Channel ID = 1, call Ref = 186, Direction = From Switch 260107 1419.34.953ms Caller = 186, Ontrained State = Dioming Alerting, Type = Trunk, Destination Tstee = Oucueing, Type = Queue 260107 1419.34.953ms Caller = 186, Ontrained State = Channel = 168, Direction = From Switch 260107 1419.34.957ms Call Ref = 186, Ontrained State = Channel Alerting, Type = Trunk, Destination State = Alerting, Type = Target List 260107 1419.34.957ms Call Ref = 186, Ontrained State = Channel = 1 260107 1419.34.957ms Call Ref = 186, Ontrained State = Channel Alerting, Type = Trunk, Destination State = Alerting Announcement, Type = Target List 260107 1419.34.957ms Call Ref = 186, Ontrained Type Minkos State = Channel Call Ref = 180, Channel = 12, Call Ref = 180, Channel = 1, Call Ref = 180, Channel = 12, Call Ref = 180, Channel = 2, Call Ref = 180, Channel = 12, Call	ist
	14.2005	Online

Troubleshooting

ISDN Calls Cutting Off

Issue

User experiences their calls being cut off.

Action

Check the IP Office configuration in 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 why the calls are being 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.

Delay Between Analog Line and Extension

Issue

Incoming analog line rings several times before the call is presented to the extension.

Actions

- 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 IP Office configuration in Manager and ensure the analog trunk parameters are correct and that they match those provided by the central office.

Procedure

1. In the Analog Trunk Summary, click the Alarms tab:

JA IP Office System Status -	F-075-	-IP500-1 (192.168.42.120)							
AVAYA			I	P Off	ice Syster	n Status	1		
lelp Snapshot LogOff Exit	About	:							
⊢System ⊢∰ Alarms (11)	\square	Status Utilization Summary	Alarms						
					Analog Trunk S	Summary			
🕂 🐴 Line: 1 (1)		Slot/Module:	Slot: 4						
4 Line: 2 (1)		Number of Trunks:	4						
Line: 3 (1)		Number of Administered Trunks	4						
Line: 5 (2)		Number of Trunks in Use:	0						
-Line: 9 (0)									
Line: 13 (0)		Port Line	Line Type	Call	Current State	Time in State	Caller ID or Diolog Digito	Other Party	Direction
Line: 14 (1)		9 Line: 13 Slot: 4 Port: 9	Loon Start CLL	Kei	Idle	02:05:40	Dialeu Digits	on cai	or call
Line: 16 (0)		10 Line: 14 Slot: 4 Port: 10	Loop Start CLI	_	Idle	00:01:40			
		11 Line: 15 Slot: 4 Port: 11	Loop Start		Idle	00:02:04			
Extensions (73)		12 Line: 16 Slot: 4 Port: 12	Loop Start CLI		Idle	02:05:40			
Frunks (10)									
Line: 1 Line: 2 Line: 3	_	Trace All Call Details	Print S	ave As					
								L 10.00	

If the central office is not providing Caller ID information, *No Caller ID received* is displayed under the Error Description.

- 2. From Manager, change the configuration to Loop Start only, as follows:
 - a. Log on to Manager and open the IP Office 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.

AVAYA	013-11-300-1 (132.		IP Office	System Status	
Help Snapshot LogOff Exit	About				
-System - & Alarms (11) - & Service (3) - & Trunks (7)	Status Utiliza	tion Summary Alarma	s Alar	ms for Lines: 13 - 16 Slot: 4	
A Line: 1 (1) A Line: 2 (1) Line: 3 (1) A Line: 4 (1)	Last Date Of	Error 01/2007 18:31:02	Occurrences	Error Description	
				Port Number: 10	
–Extensions (73) –Trunks (10)	Clear C	ear All Print	Save As		18:32:55 Online

Alternatively, have the central office enable CLI/ICLID on the trunks.

Expansion Units Constantly Rebooting

Issue

IP Office expansion units constantly reboot.

🔝 IP Office System Status - F-075-IP500-1 (192.168.42.120)

Action

- 1. Check the power supply for failure or faulty power bricks.
- 2. As a precaution, replace the power brick.
- 3. Check that the blue TDM cable is correctly connected at the rear of both the IP Office Control Unit and the module that is resetting.
- 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.

La V

AVAYA		IP Office S	ystem Status	
Help Snapshot LogOff	Exit About			
-System 		Link	< Alarms	
A Service (3)	Last Date Of Error	Occurrences	Error Description	
Extensions (73)	25/01/2007 18:27:20	8	Link/resource down Expansion 6	
Active Calls				
	Clear Clear All Print S	iave As		
			18:27:56 Online	

The total number of times that IP Office has lost contact with the module is displayed in the Occurrences column.

User Receives Busy When Calling

Issue

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

Action

- 1. Check that Voicemail Pro/Lite/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:

۸\/۸\/۸		10.4				
FIVFIYFI		IP C	mice Syst	em Status		
Help Snapshot LogOff Exil	: About					
P-System +- â Alarms (9) Extensions (73) Trunks (10) Active Calls ■- ▶ Resources	Music on Hold Source: Internal Configuration Size: 1024K Configuration Used: 56K Memory Free: 76802K 8kHz Clock source: Internal	5%	System Res	SOURCES		
	Channels	Number of Channels	Number in Use	Usage	Congestion Count	Last Date of Congestion
	Data	48	3	6%	0	
	VCM	9	0	0%	0	
	VM	4	3	75%	12	25/01/2007 18:20:03
	Modem	0	0	0%	1	25/01/2007 16:27:21
	Conference	64	5	7%	0	
			·			· ,
	Pause					

- 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.

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 IP Office configuration in 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 Vol P Trunks.
- 2. To view the details of the call, click one of the channels:
- 🔝 IP Office System Status F-075-IP500-1 (192.168.42.120)

AVAYA

IP Office System Status

neip Snapsnot Eogon Exit About		
- System - ∰ Alarms (8)		Call Details
- Extensions (73) - Trunks (10) - Active Calls	Call Ref: 1	Call length: 00:05:35
Call Details for Call Ref = 1	Current State:	Connected Time in State: 00:05:31
	Trunk:	Line: 9 H.323 192.168.42.1 Channel: 1
	Incoming Caller ID:	604, BorisAeris
	Incoming DID:	6693
	Codec:	G729 A
	Round Trip Delay:	3ms
	Receive Jitter:	Oms
	Receive Packet Loss Fraction:	50%
	Transmit Jitter:	Oms
	Transmit Packet Loss Fraction:	60.15%

- 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:

🚺 IP Office System Status - F-075-IP406-1 (192.168.42.1) **IP Office System Status** Help Snapshot LogOff Exit About System Call Details 🍓 Alarms (10) Extensions (23) Destination Trunks (26) Current State: Time in State: 00:08:26 Connected Active Calls Call Details for Call Ref = 71 Trunk Used: Line: 9 H.323 192.168.42.120 Channel: 1 Resources Digits sent to Central Office: 6693 Caller ID sent from Central Office: 6693 Codec: G729 A Round Trip Delay: 3.5ms Receive Jitter: Oms Receive Packet Loss Fraction: 73.82% Transmit Jitter: Oms Transmit Packet Loss Fraction: 71.09%

5. If the figures are high, consult your network administrator to make the necessary changes to the network to improve the situation.

Phone User Unable to Dial Out

Issue

Phone user without caller display is unable to dial out.

Action

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

Procedure

1. Click **Extensions** and then double-click the specific extension.

IP Office System Statu	ıs - Australia (192.168.42.9)		IP Offic	ce System Stat	us	
lelp Snapshot LogOff E	Exit About					
E System E 🎒 Alarms (2)				Extension Status		
Extensions (12) 209 210 211 3001 ▶ 3002 3003 3004 3008 3009 3010 3011 3012	Extension Number: Module: Port: Telephone Type: Current User Extension Number Current User Name: Forwarding: Twinning: Do Not Disturb: Message Waiting: Number of New Messages:	3002 Control Unit - Pl 2 POT (CLI On) : NoUser Off Off Off Off 0 ff	hone Ports			
Lines: (1) Lines: 1 - 4 Line: 25 Line: 50 Active Calls	Phone Manager Type: Call Ref Current	None State Idle	Time in State 00:00:51	Calling Number or Called Number	Direction	Other Party on Call
	Trace Output: 2601/07 13:09:49-755ms Extens 2601/07 13:09:49-782ms Call Re 2601/07 13:09:51-331ms Extens 2601/07 13:09:52-335ms Call Re 2601/07 13:09:52-335ms Call Re 2601/07 13:09:52-346ms Extens 2601/07 13:09:55-075ms Extens 26/01/07 13:09:57-075ms Extens	on = NoUser, Switchh f = 47, Originator State on = NoUser, Digit dial = 47, Originator State f = 47, Short Code Mat on = NoUser, State = 6 on = NoUser, State = 16 on = NoUser, State = 16	ook, Status = Off = Seized, Type = User, Des ed, Digit = 9 = Dialling, Type = User, Des ched = System, 9N Call Barred ook, Status = On Busy Wrap Up die	tination Type = none tination Type = none		
	Trace Clear Pause	<u>B</u> ack <u>⊆</u> all Deta	ails <u>P</u> rint <u>S</u>	ave As		

This Extension Status screen shows that the user has not logged on and this is reason the user cannot dial out.

PRI Line is Out of Service

Issue

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

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.

🔝 IP Office System Status - F-075-IP4	406-1 (192.168.42.1)			<u></u>
AVAYA		IP Office S	System Status	
Help Snapshot LogOff Exit About				
System Å Alarms (7) Å Service (2) Å Trunks (3)	Alarms 24 Hour Performance History	Alarm	is for Line: 1 Slot: A Port: 1	
Line: 1 (3) Line: 2 (0)	Last Date Of Error	Occurrences	Error Description	
Line: 3 (0)	26/01/2007 12:45:54	12	Loss of Signal	
Line: 5 (0)	26/01/2007 12:03:13	1	Trunk out of Service	
Line: 6 (0)	26/01/2007 12:45:52	3	Red Alarm	
- Line: 7 (0) - Line: 8 (0) - Line: 9 (0) - Line: 901 (0) - Line: 901 (0) - Line: 902 (0) - Line: 903 (0) - Line: 905 (0) - Line: 905 (0) - Line: 907 (0)				
Line: 908 (0) Line: 909 (0)	Clear All Print	Save As		

3. Select the 24 Hour Performance History tab.

AVAYA		IP Office System Status								
lp Snapshot LogOff Exit About										
System ▲ Å Alarms (7) ▲ Å Service (2) ▲ Å Trunks (3) → Å Line: 1 (3)	Alarms 24 Ho	u r Performance H in each line indicate	istory es the number of tim	Alarms for Line	: 1 Slot: A Port: 1	or occured. By de	efault, the first row is	the current 15		
Line: 2 (0) Line: 3 (0) Line: 4 (0)	minute inten Interval Start Time	val. Frror Seconds	Bursty Error Seconds	Severely Errored Seconds	Failed/Unavailable Seconds	Bipolar Violation	Clock Slips	Missed Frame		
Line: 5 (0)	12:45	3	1	1	0	4	0	14		
Line: 6 (0)	12:30	0	0	0	0	0	0	0		
Line: 8 (0)	12:00	5	2	2	0	7	0	19		
Line: 9 (0)	11:45	1	0	0	0	0	2	0		
- Line: 10 (0) - Line: 901 (0) - Line: 902 (0) - Line: 903 (0) - Line: 904 (0) - Line: 905 (0) - Line: 907 (0) - Line: 908 (0)		1								

The example above shows that the PRI line experienced Clock Slips and Missed Frames. Replacing the wiring from the PRI's Smart Jack and the IP Office will resolve the issue.

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