

IP Office[™] Platform 10.0

Installing Avaya IP Office[™] Platform Contact Recorder for IP Office

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Chapter 1. Contact Recorder for IP Office

1. Contact Recorder for IP Office

The Voicemail Pro application can manually or automatically record calls. It places those recordings into a user or group's mailbox alongside normal voicemail messages.

Users can start manual call recording in a number of ways; programmable button, short code, one-X Portal for IP Office. Automatic call recording is configured on the IP Office system and applied to specific users, hunt groups, incoming call routes or account codes.

Contact Recorder for IP Office enhances call recording by transferring recordings to an separate archive from the normal mailboxes. Those recordings are then outside the control of voicemail housekeeping and do not impact on the space needed for voicemail messages.

Contact Recorder for IP Office maintains a database of the call details associated with each recordings it stores. Using a web browser, users can search the database and from the search results playback recordings.

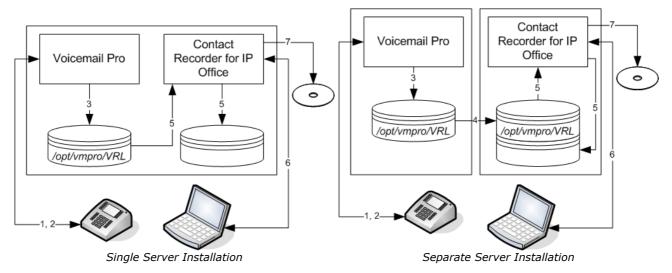
- The Contact Recorder for IP Office is supported in the following configurations:
 - For IP500 V2 systems, Contact Recorder for IP Office is supported on an IP Office Application Server. That includes IP500 V2 systems running a Unified Communications Module. Contact Recorder for IP Office is supported on the same server as Voicemail Pro if an additional hard drive is installed for Contact Recorder for IP Office use.
 - For Server Edition systems, Contact Recorder for IP Office is supported on the Server Edition Primary Server if an additional hard drive is installed for Contact Recorder for IP Office use. Otherwise it is supported on a separate IP Office Application Server.
 - It also includes running Contact Recorder for IP Office on a virtual machine. Details of adding an additional virtual hard disk are covered in the manual "Deploying Server Edition Servers as Virtual Machines".

PCI Compliance

It is important to note that since Avaya is not a payment processor and since Contact Recorder for IP Office is not a payment processing application; neither Avaya nor Avaya Contact Recorder for IP Office can be certified as PCI compliant or PA-DSS compliant.

1.1 Operation Overview

Contact Recorder for IP Office must use a separate disk partition for file storage from that used by the Voicemail Pro. The diagram below interaction between the Voicemail Pro and Contact Recorder for IP Office applications.



- 1. The IP Office configuration indicates which calls to record and whether the recording should be sent to Contact Recorder for IP Office rather than put into a voicemail mailbox.
 - You can configure recording for individual users, hunt groups, incoming call routes or account codes.
 - The IP Office can optionally instruct the voicemail server to record authenticated files. These files are larger • than standard recordings. However, authentication allows detection of whether anyone has subsequently modified the file.
- 2. When a matching call occurs, the Voicemail Pro performs the recording.
- 3. When recording is complete, the recording is placed in a temporary folder on the voicemail server.
- 4. If the two applications are on separate severs, the voicemail server is configured to transfer files in its temporary folder to the matching temporary folder on the Contact Recorder for IP Office server.
- 5. The Contact Recorder for IP Office collects any files that appear in the temporary folder on its server. It adds the recording to its own storage folder and adds call details from the file to its database.
- 6. Users can browse to the Contact Recorder for IP Office server and search the database to replay archived recordinas.
 - Users can search for calls using fields such as date, length, parties involved, etc.
 - Each user can only see calls that include particular extension ranges.
 - Optionally, users can download and email copies of recordings from the search results.
- 7. By default Contact Recorder for IP Office stores recordings indefinitely and keeps call details in its database for 5 years. However, if space on the storage partition becomes limited, it starts deleting recordings on a first in first out basis. To avoid this, you can configure long term storage onto DVD disk, Blu-Ray disk or network attached storage.
 - Avava supplied servers all include a DVD+/-RW drives suitable for archiving use.
 - The option to archive recordings on DVD or Blu-Ray disk is not supported when running Contact Recorder for IP Office on a virtual machine.

1.2 Server Requirements

The basic server specification depends on the type of server installed and the overall requirement determined for all IP Office applications supported by the server.

- If installed on an IP Office Application server, refer to the IP Office Application Server Installation and Maintenance Manual for server specifications.
- If installed on a Server Edition Primary Server, refer to the manual "Deploying IP Office Server Edition".
- If deployed on a virtual machine, refer to the manual "Deploying Server Edition Servers as Virtual Machine".

The additional server requirements for support of Contact Recorder for IP Office, in addition to those specified in the above manuals, are:

Additional Hard Disk

If Contact Recorder for IP Office is installed on the same server as Voicemail Pro, then Contact Recorder for IP Office must use a separate hard disk. Therefore, you need to install an additional hard disk.

- This manual includes notes for the installation of additional hard drives in the following Avaya supplied servers. The "Deploying Server Edition Servers as Virtual Machine" manual specifies how to add an additional virtual hard disk during the deployment of a virtual server.
 - <u>HP ProLiant DL360G7 Server</u> 21 Avaya supplies and supports additional 300GB hard disks (DL360G7 SRVR 300GB 10K SAS 2.5" HDD). You can fit either a single disk or, for RAID1 support, two additional disks.
 - <u>HP ProLiant DL120G7 Server</u> 22 Avaya supplies and supports an additional 250GB hard disk (Order code 700506869).
 - Dell PowerEdge R210 Server 22 Avaya supplies and supports an additional 500GB hard disk (R210 II XL 500GB 7200 HDD).
 - Dell PowerEdge R620 Server 23 Avaya supplies and supports additional 600GB hard disks (Order code 700506757). You can fit either a single disk or, for RAID1 support, two additional disks.
 - <u>Dell PowerEdge R630 Server</u>^[24] Avaya supplies and supports additional 600GB hard disks (Order code 700506757). You can fit either a single disk or, for RAID1 support, two additional disks.

• Recordable Disk Drive

Long term archiving uses a DVD+RW or Blu-Ray -R disk drive. Alternatively, Contact Recorder for IP Office can archive to a network attached storage (NAS) drive. All the Avaya supplied servers include a DVD+/-RW disk drive.

1.3 Additional Documentation

In addition to reading this manual, you should also have, have read and are familiar with the following manuals before attempting to install a system.

Related Documents

- Deploying IP Office[™] Platform Servers as Virtual Machines Covers deployment of the Server Edition and Application servers as virtual machines.
- Administering Avaya one-X Portal for IP Office[™] Platform

This manual covers the installation and administration menus used for the one-X Portal for IP Office application. This manual is essential if the one-X Portal for IP Office needs configuring to support multiple IP Office servers in a Small Community Network.

• Administering Avaya IP Office[™] Platform Voicemail Pro

By default the voicemail server provides mailbox services to all users and hunt groups without any configuration. This manual covers the administration of the voicemail server using the Voicemail Pro client in order to enable additional features.

- Administering Avaya IP Office[™] Platform with Manager IP Office Manager is the application used to configure IP Office systems and the Management Services service. This manual details how to use IP Office Manager and the full range of IP Office configuration settings.
- Administering Avaya IP Office[™] Platform with Web Manager This covers the configuration of IP Office systems using the Web Manager menus.
- Installing Avaya IP Office[™] Platform Contact Recorder for IP Office Covers the additional steps required for installation and basic operation of the Contact Recorder for IP Office application.
- Administering Contact Recorder for IP Office Administration and operation of the optional Contact Recorder for IP Office service.
- Using Contact Recorder for IP Office Covers the use of Contact Recorder for IP Office.
- **Deploying IP Office™ Platform Server Edition Solution** This manual covers the installation of Server Edition systems.

Technical Bulletins

Avaya provide a technical bulletin for each releases of IP Office software. The bulletin details changes that may have occurred too late to be included in this documentation. The bulletins also detail the changes in the software release compared to previous releases and any specific actions required or restrictions that apply if upgrading from a previous release.

Other Documentation and Documentation Sources

All the documentation for IP Office systems is available from the following web sites:

- Avaya Support Web Site http://support.avaya.com
- Avaya IP Office Knowledge Base <u>http://marketingtools.avaya.com/knowledgebase</u>

1.4 Browser Access

The default paths for browser access to Contact Recorder for IP Office are *http://<server_address>:9888* and *https://<server_address>:9444*. Users created in the Contact Recorder for IP Office configuration have roles that define the actions they can perform after logging in.

Contact Recorder for IP Office supports Microsoft Internet Explorer 10. The playback function requires the browser to allow the download and installation of a number of ActiveX controls.

Contact Recorder for IP Office users with the appropriate permission can also download copies of call recordings from the browser.

1.5 Codecs

The IP Office configuration sets the destination for call recordings. The destination selected affects the codec used for the initial recording and the codec applied to the final recording file. The IP Office options are:

Mailbox

This is the default option. When selected, you can use the adjacent drop down list to select the destination user or hunt group mailbox. These files are typically 0.5MB to 1MB per minute.

• Voice Recording Library

Use this option to have the recordings transferred to the VRL folder after recording (from which it can be collected by applications such as Contact Recorder for IP Office). This option produces a G.711 format file that Contact Recorder for IP Office converts to G.729A format after the file transfer. These files are typically 60KB per minute.

• Voice Recording Library Authenticated

As above but this option produces a G.726 format file that contains file authentication information. Any subsequent editing of the file invalidates that information. Contact Recorder for IP Office does not convert the file to G.729A format after the file transfer. These files are typically 120KB per minute. This option is currently not supported with Linux based servers.

1.6 Pre-Requisisites

You must meet the following conditions before attempting to install Contact Recorder for IP Office.

- 1. Do not configure Contact Recorder for IP Office until after normal voicemail mailbox operation of the Voicemail Pro application has been tested and validated. The Voicemail Pro performs the call recording for Contact Recorder for IP Office and so is an essential pre-requisite.
- 2. The license requirements depend on the operating mode of the IP Office systems:
 - For Server Edition, the primary server needs a **VMPro Recordings Administrators** license. For IP Office Release 9.0, this is the only server in the Server Edition network that requires a license.
 - For non-Server Edition systems, each IP Office system requires a VMPro Recordings Administrators license.
- 3. The Contact Recorder for IP Office application must use a separate disk partition for file storage from that used by Voicemail Pro. This requires either the adding of an additional hard disk to the server or use of two separate servers.

Chapter 2. Contact Recorder for IP Office Installation

2. Contact Recorder for IP Office Installation

This section summarises the processes required for Contact Recorder for IP Office installation.

Process Summary

The installation process divides into 4 main stages.

1. Server Installation

required.

This stage largely follows the standard installation process for a server. For full details, refer to the IP Office Application Server Installation Manual or Deploying IP Office Server Edition manual.

- a. <u>Downloading the software</u> 17 Download the latest application software and related files.
- b. Check the server boot order 18 Check that the server PC can boot from DVD or USB.
- c. **Preparing a bootable software installer** 18 Create a bootable DVD or USB memory key.
- d. Adding an additional hard disk 20^h If installing Contact Recorder for IP Office on the same server as Voicemail Pro, an additional hard disk is
- e. Server software installation 25 Install the server software.
- f. <u>Server ignition</u> 27 Configure the server's role.

g. Logging in 34 Log in to the server's IP Office Web Manager menus.

2. Enable Contact Recorder for IP Office

This stage enables the call archiving functionality of the Voicemail Pro and starts the Contact Recorder for IP Office service.

a. IP Office Licensing 36

Enter the licenses to support use of Contact Recorder for IP Office.

- b. <u>Checking the voicemail licensing</u> The Check that the voicemail server has detected the licenses.
- c. Adding the application server 37 If installing an application serve, add the application server to the IP Office Web Manager view of available servers.
- d. Installing the Contact Recorder for IP Office service 38 Install and start the Contact Recorder for IP Office service.
- 3. Configuring Contact Recorder for IP Office
 - This stage configures the handling and access to call recordings.
 - a. Logging in to Contact Recorder for IP Office 39 Log in to Contact Recorder for IP Office to perform basic initial configuration.
 - b. Setting the file paths for recordings 33 Set and check the files paths from which Contact Recorder for IP Office collects recordings and into which it stores those files.
 - c. <u>Configuring the transfer of recordings</u> 40^h Configure the voicemail server so that it can transfer recording files for collection.
 - d. Add users 41

Add user to Contact Recorder for IP Office for the playback of recordings.

4. Test operation 42

Test operation to verify the basic installation.

2.1 Downloading the Software

Avaya makes IP Office Application Server software for each IP Office release available from the Avaya support website (<u>http://support.avaya.com</u>) in a number of formats.

• ISO Image

You can use this type of file to reinstall the full set of software including the operating system. Before using an ISO image, you must backup all applications data.

• Source ISO Image

Some components of the software are open source. To comply with the license conditions of that software, Avaya is required to make the source software available. However, this file is not required for installation.

• Avaya USB Creator Tool

This software tool is downloadable from the same page as the ISO files. After installation, you can use the tool to load an ISO image onto a USB memory key from which the server can boot and either install or upgrade.

To download Avaya software:

1. Browse to *http://support.avaya.com* and log in.

- 2. Select Support by Product and click Downloads.
- 3. Enter IP Office in the Enter Product Name box and select the matching option from the displayed list.
- 4. Use the **Choose Release** drop-down to select the required IP Office release.
- 5. The page lists the different sets of downloadable software for that release. Select the software for the IP Office Application Server.
- 6. The page displayed in a new tab or windows details the software available and provides links for downloading the files.
- 7. Also download the documents listed under the **RELATED DOCUMENTS** heading if shown.

2.2 Checking the Boot Order

You install the software by placing it onto a DVD or USB memory key from which the server PC then boots. The normal default for servers is to boot from CD/DVD drive and, if unsuccessful, then boot from the first hard disk. This boot order is set in the BIOS settings of the server PC.

In order to add other devices to the list of those from which the server can boot or to change the order of usage, you need to change the server's BIOS settings. The method of accessing the BIOS varies between servers. Refer to the PC manufacturer's documentation.

- Typically, an option to access the BIOS settings of a server appears briefly when the server PC is started. For
 example "Press Del for setup" indicates that the server BIOS is accessed by press the Delete key while the
 message appears. This option is only available for a few seconds whilst the existing BIOS settings are loaded, after
 which the server looks for and begins to load boot software if it finds a boot source, for example existing boot
 software on its hard disk.
- Once the PC displays its BIOS settings, the normal boot up process stops. The BIOS settings typically consist of several pages. The settings for the order in which the server looks at different devices for a boot software source are normally set on the **Advanced BIOS Features** page.
- To boot from a DVD, ensure that the server's DVD drive is set as the boot device used before the server's hard disk.
- To boot from a USB memory key, set a USB option as the boot device used before the server's hard disk. Depending on the BIOS, there may be multiple USB options. Select USB-FDD.
- The server's hard disk must remain in the list of boot devices. The server boots from the hard disk after the software installation.

2.3 Preparing the Bootable Software Installer

You can install the server software from either a DVD or a USB memory key. If not installing from an Avaya supplied DVD, you must download an ISO image from Avaya and use that to create the bootable DVD or USB memory key.

2.3.1 Preparing a DVD

To install from a DVD, you need to burn the .iso image file of the installation software onto a bootable DVD. The exact process for that depends on which software you use for the burning process. However, the following general recommendations apply:

- Do not use reusable DVDs.
- Burn the DVD at a slow speed such as 4x.

2.3.2 Preparing a USB Installation Key

This process extracts a downloaded ISO image onto a USB memory key and then turns that memory key into a bootable device for software installation or upgrading.

Prerequisites

• 4GB USB Memory Key

Note that this process reformats the memory key and erases all files.

• Avaya USB Creator Tool

This software tool is downloadable from the same page as the ISO files. After installation, you can use the tool to load an ISO image onto a USB memory key from which the server can boot and either install or upgrade.

• Server Edition ISO Image

You can download this file from the Avaya support website, see Downloading Module Software.

To create a bootable USB memory key:

1. Insert the USB memory key into a USB port on the PC.

2. Start the Avaya USB Creator (All Programs | IP Office | Avaya USB Creator).

🛕 Avaya USB Creator - 1	1.0.0	0.0.0 build 0	[- • •
Target Device and ISO S Select ISO File :	elec	tion		
				Browse
Select Target USB Drive	:			•
Select USB Label :	Ì	AVAYA		
Select Installation Mode	:			-
Select Locales to Install	∕ Up	grade		
Chinese		Chinese(Hong Kong)		Danish
Dutch		English(U.S.)		English
Finnish		French		French Canadian
🔲 German		Greek		Hebrew
Hungarian		Italian		Japanese
Korean		Norwegian		Polish
Portuguese(Brazilian)		Portuguese		Russian
Spanish(Columbia)		Spanish		Swedish
Turkish		TTY Device		
	_	Start		Log

- 3. Click the **Browse** button and select the ISO file.
- 4. Use the **Select Target USB Drive** drop-down to select the USB memory key. Make sure that you select the correct USB device as this process overwrites all existing contents on the device.
- 5. In the **Select USB Label** field enter a name to help identify the key and its usage in future.
- 6. Use the Select Installation Mode options to select whether the USB memory key should be configured for an automatic software install (Server Edition Auto Install), automatic software upgrade (Server Edition Auto Upgrade) or a user menu driven install/upgrade (Server Edition Attended Mode).
 - Note: The installation mode options available changed automatically based on the type of ISO file selected. If you do not see the correct options, check that you have selected a IP Office Application Server ISO file.
- 7. Use the **Select Locales to Install / Upgrades** check boxes to select which sets of Voicemail Pro prompts you want installed or upgraded. Only selecting the languages that you require significantly reduces the time required for the installation or upgrade.
- 8. Check that you have set the options correctly. Click Start.
- 9. Confirm that you want to continue.
- 10. The status bar at the bottom of the tool shows the progress of preparing the USB memory key. The process takes approximately 15 minutes though that can vary depending on the USB2 memory key and PC.

2.4 Adding an Additional Hard Disk

If Contact Recorder for IP Office is installed and enabled on the same server as Voicemail Pro, it must be configured to use a separate hard disk from Voicemail Pro. That requires the addition of an additional hard disk to the server (or a pair of hard disks if implementing RAID support).

The process for adding an additional hard disk depends on the type of server. This section only provides outline summaries. In all cases, for full details refer to the original equipment manufacturer's documentation.

Avaya supply the following servers:

- <u>HP ProLiant DL360G7 Server</u> 21 Avaya supplies and supports additional 300GB hard disks (DL360G7 SRVR 300GB 10K SAS 2.5" HDD). You can fit either a single disk or, for RAID1 support, two additional disks.
- <u>HP ProLiant DL120G7 Server</u> 22 Avaya supplies and supports an additional 250GB hard disk (Order code 700506869).
- **Dell PowerEdge R210 Server** 22 Avaya supplies and supports an additional 500GB hard disk (R210 II XL 500GB 7200 HDD).
- <u>Dell PowerEdge R620 Server</u> 23 Avaya supplies and supports additional 600GB hard disks (Order code 700506757). You can fit either a single disk or, for RAID1 support, two additional disks.
- <u>Dell PowerEdge R630 Server</u>^[24] Avaya supplies and supports additional 600GB hard disks (Order code 700506757). You can fit either a single disk or, for RAID1 support, two additional disks.

2.4.1 HP DL360G7

The following is an outline of the process for adding additional drives to an HP DL360G7 server. For full details refer to the manufacturers documentation.

Pre-installation:

- 1. Decide if you will be adding a single HDD or a RAID set as the second drive:
 - A single drive requires 1 hard disk in slot 3.
 - A RAID pair requires 2 hard disks, in slots 3 and 4 respectively, which then act as mirrored images of each other.
- 2. Go the HP support page for the DL360G7 and download the Server Guide: http://h20566.www2.hp.com/portal/site/hpsc/template.PAGE/action.process/public/psi/manualsDisplay/?sp4ts.oid =4091408&javax.portlet.action=true&spf_p.tpst=psiContentDisplay&javax.portlet.begCacheTok=com.vignette.cac hetoken&spf_p.prp_psiContentDisplay=wsrp-interactionState%3DdocId%253Demr_na-c02065265%257CdocLocal e%253Den_US&javax.portlet.endCacheTok=com.vignette.cachetoken

To install the additional hard disk(s):

- 1. Power down the server.
- 2. Remove the blank from slot 3. Also from slot 4 if installing a pair of drives for RAID. Refer to the server guide section "Removing hard drive blanks".
- 3. Insert the new hard disk into slot 3. Also into slot 4 if installing a pair of drives for RAID. Refer to the server guide section "Installing a SAS hard drive".
- 4. Power on the server.
- 5. When the "Press any Key to view Option ROM Messages" option appears, press any key.
- 6. Wait for the message "Slot 0 HP Smart Array P4101 Controller Initializing" to appear, then press F8.
- 7. From the Main Menu select Create Logical Drive. Select the following options:

Setting	Single Drive	RAID Pair
Available physical drive	Bay 3	Bay 3 and Bay 4
Raid Configurations	RAID 0	Raid 1+0
Parity Group Count	Leave blank	Leave blank
Spare	Leave blank	Leave blank
Maximum Boot partition	Disable	Disable

- 8. After the options have been selected, press **Enter** to save the configuration.
- 9. Press **F8** to confirm.

10.Select **Select View Logical Drive**. Ensure there are 2 drives listed, if not go back to step 7.

11.Press Esc.

2.4.2 HPDL120G7

The following is an outline of the process for adding additional drives to an HP DL360G7 server. For full details refer to the manufacturers documentation.

Pre-installation:

 $1.\,\mbox{Go}$ the HP support page for the DL360G7 and download the Server Guide:

http://h20565.www2.hp.com/portal/site/hpsc/template.PAGE/action.process/public/psi/manualsDisplay/?sp4ts.oid =5075933&javax.portlet.action=true&spf_p.tpst=psiContentDisplay&javax.portlet.begCacheTok=com.vignette.cac hetoken&spf_p.prp_psiContentDisplay=wsrp-interactionState%3DdocId%253Demr_na-c02790682%257CdocLocal e%253Den_US&javax.portlet.endCacheTok=com.vignette.cachetoken

To install the additional hard disk:

- 1. Power down the server.
- 2. Remove the blank from slot 3. Refer to the server guide section "Removing a blank drive".
- 3. Insert the new hard disk into slot 3. Refer to the server guide section "Installing a hot-plug drive".
- 4. Power on the server.
- 5. When the "Press any Key to view Option ROM Messages" option appears, press any key.
- 6. Wait for the message "Slot 1 HP Smart Array P212 Controller Initializing" to appear, then press F8.
- 7. From the Main Menu select Create Logical Drive. Select the following options:

Setting	Single Drive
Available physical drive	Bay 3
Raid Configurations	RAID 0
Parity Group Count	Leave blank
Spare	Leave blank
Maximum Boot partition	Disable

- 8. After the options have been selected, press **Enter** to save the configuration.
- 9. Press F8 to confirm.
- 10.Select **Select View Logical Drive**. Ensure there are 2 drives listed, if not go back to step 7.
- 11.Press Esc.

2.4.3 Dell R210

The following is an outline of the process for adding additional drives to an Dell R210 server. For full details refer to the manufacturers documentation.

To install an addition hard disk:

- 1. Go the Dell support page for the R210 and download the User Manual: <u>ftp://ftp.dell.com/Manuals/all-products/esuprt_ser_stor_net/esuprt_poweredge/poweredge-r210_owner%27s%20</u> <u>manual_en-us.pdf</u>
- 2. Power down the server.
- 3. Open the system. Refer to the server guide section "Opening the system".
- 4. Install the 2nd hard drive under the optical drive. Refer to the server guide section "Installing a Hard Drive".
- 5. Power on the server.
- 6. Press F2 to get into the BIOS.
- 7. Scroll down to $\ensuremath{\textbf{SATA}}$ Settings and press enter
- 8. Scroll down to **Port B** and change the setting from **Off** to **Auto**.
- 9. Press **Esc**.
- 10.Select Save Changes and Exit.

2.4.4 Dell R620

The following is an outline of the process for adding additional drives to an HP DL360G7 server. For full details refer to the manufacturers documentation.

Pre-installation:

- 1. Decide if you will be adding a single HDD or a RAID set as the second drive:
 - A single drive requires 1 hard disk in slot 2.
 - A RAID pair requires 2 hard disks, in slots 2 and 3 respectively, which then act as mirrored images of each other.
- 2.Go the Dell support page for the R620 and download the Owner's Manual: http://topics-cdn.dell.com/pdf/poweredge-r620_Owner's%20Manual_en-us.pdf

To install the additional hard disk(s):

After adding the new physical drives, this process defines a new virtual drive by setting its Raid type and which physical drives it uses.

- 1. Power down the server.
- 2. Remove the blank from slot 2. Also from slot 3 if installing a pair of drives for RAID. Refer to server guide section on "Removing A 2.5 Inch Hard-Drive Blank".
- 3. Insert the new hard disk into slot 2. Also into slot 3 if installing a pair of drives for RAID. Refer to server guide section on "Installing A Hot-Swap Hard Drive".
- 4. Power on the server.
- 5. When the RAID controller BIOS details appears, shown by **"PowerEdge Expandable RAID Controller BIOS"**, press **Ctrl+R** to enter into the utility.
- 6. On the VD Mgmt tab, highlight the top line PERC H710 Mini.

7. Press F2 and select Create New VD.

8. Select the following options:

Setting	Single Drive	RAID Pair
RAID Level	RAID-0	RAID-1
Select Disks	00:01:02	00:01:02 and 00:01:03
VD Size	Leave as default	Leave blank
Advanced settings	Do not select	Leave blank

- 9. Press **OK** if prompted.
- 10.Press **Esc** to leave the utility.
- 11.Reboot the system.

2.4.5 Dell R630

The following is an outline of the process for adding additional drives to an HP DL360G7 server. For full details refer to the manufacturers documentation.

Pre-installation:

- 1. Decide if you will be adding a single HDD or a RAID set as the second drive:
 - A single drive requires 1 hard disk in slot 2.
 - A RAID pair requires 2 hard disks, in slots 2 and 3 respectively, which then act as mirrored images of each other.
- 2.Go the Dell support page for the R630 and download the Owner's Manual: <u>http://topics-cdn.dell.com/pdf/poweredge-r630_Owner's%20Manual_en-us.pdf</u>

To install the additional hard disk(s):

After adding the new physical drives, this process defines a new virtual drive by setting its Raid type and which physical drives it uses.

- 1. Power down the server.
- 2. Remove the blank from slot 2. Also from slot 3 if installing a pair of drives for RAID. Refer to server guide section on "Removing A 2.5 Inch Hard-Drive Blank".
- 3. Insert the new hard disk into slot 2. Also into slot 3 if installing a pair of drives for RAID. Refer to server guide section on "Installing A Hot-Swap Hard Drive".
- 4. Power on the server.
- 5. When the RAID controller BIOS details appears, shown by "PowerEdge Expandable RAID Controller BIOS", press Ctrl+R to enter into the utility.
- 6. On the VD Mgmt tab, highlight the top line PERC H730 Mini.

7. Press F2 and select Create New VD.

8. Select the following options:

Setting	Single Drive	RAID Pair
RAID Level	RAID-0	RAID-1
Select Disks	00:01:02	00:01:02 and 00:01:03
VD Size	Leave as default	Leave blank
Advanced settings	Do not select	Leave blank

- 9. Press **OK** if prompted.
- 10.Press **Esc** to leave the utility.
- 11.Reboot the system.

2.5 Server Software Installation

This process installs the Linux operating system onto the server and the Linux based applications. This installation process requires approximately 1 hour.

To install the server software from a bootable device:

1. Depending on the chosen method of installation:

- If installing from a DVD, immediately after powering up the PC, insert the DVD into the DVD drive.
- If installing from a USB memory key, insert the USB memory key into the first USB port and apply power to the PC.

2. The PC should boot and display the first server installation screen.

- If installing from a DVD and the PC does not boot from the DVD, the boot order of the server PC may need to be changed. See Checking the Boot Order.
- If installing from a USB memory key and the PC does not boot from the USB memory key:
 - if the server has several USB ports, reboot with the USB memory key in another one of the ports.
 - the boot order of the server may need to be changed. See Checking the Boot Order.
- 3. The installer prompts whether it should check the installation media. Checking a DVD takes approximately 10 minutes.

a. To skip the media check, select Skip.

b.To proceed with a media check, select OK. When the check has completed, the installer provides options to check any other media, for example the TTS language DVDs.

- 4. Select the language that you want used for the installation process. Click Next.
- 5. Select the keyboard that matches the one you are using. Click Next.
- 6. Read the license agreement. If you accept the license agreement, click Yes and then click Next.

7. An upgrade menu appears if a previous release is already installed on the server. It details the existing installed options and the new installable options. Select either Install or Upgrade and click Next.

Install

This option overwrites the existing installation including any customer data.

Upgrade

This option upgrades the existing application and retains the existing customer data.

8. If you selected **Install**, the installer asks you to confirm the process. Select the required option and click **Next**.

Yes

If selected, the installation process continues, formatting the whole drive for its use.

No

If selected, the install process offers to shutdown the server. Either remove the device from which you were booting to allow the server to restart normally or allow the installation process to start again.

Advanced

If selected, during the installation process you can select adjust the hard disk partitioning. However, if used, the installer does not display the Upgrade option (see Step 7) when booting from an ISO in future.

9. If you selected **Install**, continue below. If you selected **Upgrade**, go to step 11.

a. Set the host name for the server to use.

b. Click Configure Network.

a. Select the wired Ethernet connection being used (this is likely to be **eth0**) and click **Edit**.

- b. Select the IPv4 Settings tab.
- c. To change the address shown, click on the address and change the settings.
- d. When finished setting the IP address details for the server, click Apply. Click Close. Click Next.
- c. Enter and confirm the password for the root administrator account. This is the root user password for access to the operating system. Ensure that you note the password set. This password is needed for the server ignition process.
- d. Click Next. Click Next again.
- e. A menu for partitioning the server appears if you selected Advanced during step 8 above. The menu allows various options for partitioning of the server hard disk. However, if used, the installer does not display the **Upgrade** option (see Step 7) when booting from an ISO in future.
- 10. The process for formatting the disk starts. This runs for a couple of minutes.

11. The installer prompts you that it is about start installation of the software. Click **Next** to start.

12. When installation is complete, click **Next**.

- 13.Remove the DVD or USB memory key and then select Reboot.
- 14.Following the reboot, the server displays "SELinux targetted policy relabel is required" and performs that process. When completed, the server reboots again.
- 15. After the second reboot, wait until the server displays the address details for further configuration of the server. Use the address to start the server ignition process. See <u>Server Ignition</u> 27.

2.6 Server Ignition

Following installation, you must ignite the server. You do this by web browser access to the server.

To start server ignition:

- 1. From a client PC, start the browser and enter **https://** followed by the IP address of the server and **:7071**. For example *https://192.168.42.1:7071*.
 - The browser may display a security warning. You must determine whether you want to continue.
- 2. The ignition login page appears. Note the various ID numbers shown, these are used for issuing licenses for the server.

		Server Edition R10.0	
	Please log on usi User Name:	ng the root account.	
	Password:	•••••	
AVAYA	Language:	English	•
IP Office Server Edition	PLDS Host ID:	611926526051	
	System ID:	d03f26657c60fdff488bc31627ae66945ecc3ad0	
	WebLM Host ID:	00016CEF7D0E	<u>Print</u>
		Login	
	© 2016 Avaya Inc.	All rights reserved · <u>View EULA</u>	

- 3. Enter the password set for the root account during the software installation. Click Login.
- 4. The license menu appears. If you accept the license, select **I Agree** and click **Next**.
- 5. The menu displays the possible server types. Select the role that the server should perform and click **Next**. The following menus will vary depending on the selected role.

Accept License	 Primary (Server Edition) Enables Core, one-X Portal and Voicemail Pro.
Server Type	
New Hardware	 Secondary (Server Edition) Enables Core and Voicemail Pro.
Configure Network	Expansion (Server Edition)
Time & Companding	Enables Core only.
Change Password	Application Server
Security	Enables one-X Portal and Voicemail Pro. This configuration is not supported in Server Edition.

6. If an additional hard disk for Contact Recorder for IP Office was added to the server, details of the additional hardware appear. Otherwise the menu displays "No new hardware available".

For Contact Recorder for IP Office support it is recommended to accept the defaults. These are:

- a. Leave Format Hard Drive checked.
- b. Create a single partition for the whole disk. You can create up to 3 logical partitions on the physical disk.
- c. Leave the **Mount Point** name as */additional-hdd#1*. The full mount path name for each partition is automatically configured by the system adding */partition1*, */partition2*, etc. as a suffix. For example */ additional-hdd#1/partition1*. Note that it is this partition name, including */partition1*, that should be used for Contact Recorder settings.
- d. Select Mount Hardware to have the additional disk automatically mounted.

Accept License	~	Network interface: eth0	
Server Type	✓	Assign IP Address: — Automatic (DHCP)	
New Hardware	~	IP Address:	192.168.0.214
New hardware	•	Netmask:	255.255.255.0
Configure Network Time & Companding	→	Assign System Gatewa	192.168.0.1
Change Password		Assign System DNS Se	rvers:
Configure Services		Automatic (DHCP) Primary DNS:	
Security		Secondary DNS:	

• Hostname

This value is used as the DNS host name of the server.

• IMPORTANT: DNS Routing

For internal applications, this value must be reachable by DNS within the customer network. If the server will also be supporting external applications, the host name also needs to be reachable by external DNS. Consult with the customers IT support to ensure that the host name is acceptable and that routing to the host name has been configured correctly.

8. Click **Next**. Set the time source for the server.

Accept License	~	Use NTP:	✓
Server Type 🗸		NTP Server: Date/Time:	0.pool.ntp.org
	•		2014-07-30 / 10 : 28
New Hardware	✓	Timezone:	Europe/London
Configure Network	· ·		

9. Set the current time and date for the server or select to use the time provided by an NTP server.

10.Click Next. Enter and confirm the passwords. These are the passwords for various IP Office service accounts and also for the Linux accounts created on the server. Ensure that you note the passwords set.

Accept License	Default account passwords are required to be changed.	
	"root" and "security" password	
Server Type	✓ New Password:	
New Hardware	✓ New Password (verify):	
Configure Network	View password policy	
Time & Companding	✓ "Administrator" password	
	New Password:	
Change Password	→ New Password (verify):	
Security	View password policy	
Review Settings	"System" password	
	New Password:	
	New Password (verify):	
	View password policy	

- The passwords must be 8 to 32 characters, containing at least two types of character (lower case, upper case, numeric and special characters) and no more the 3 consecutive characters.
 - root/security password

This sets the password for both the Linux **root** user account and also the **security** account of the Management Services service.

• Administrator password

This sets the password for Linux **Administrator** account and also the **Administrator** account of the Management Services service run on the IP Office Application Server. With **Referred Authentication** enabled (the default) this is also the default account used for Voicemail Pro and one-X Portal for IP Office administrator access.

• System password

This sets the **System** password for the Management Services.

11.For a server set to be an IP Office Application server, select which applications should start automatically. Unselected services are installed but not set running unless manually started.

Avaya IP Of	fice	Application Server
Accept License	✓	Select which services will be configured to start automatically.
Server Type	~	✓ Voicemail Pro
New Hardware	~	
Configure Network	~	
Time & Companding	~	
Change Password	~	
Configure Services	→	

12. Click Next. The menu prompts which security certificate the server should use.

Accept License	~	Certificate Authority
Server Type	~	Generate new
New Hardware	~	Import File: Browse Upload
Configure Network	~	Password:
Time & Companding	~	
Change Password	~	
Configure Services	~	
Security	→	

- If you select **Generate CA automatically**, you must download the certificate from the next screen.
- If you select **Import CA**, click **Browse** and locate the security certificate file that the server should use. Click **Upload**.

ccept License	~	System Identification:	d03f26657c60fdff488bc31627ae66945ecc3ad
)e		Server Type:	Application Server
	~	Voicemail Pro:	Yes
	~	one-X Portal for IP Office:	Yes
lware	•	IP:	192.168.0.214
Network	~	Netmask:	255.255.255.0
		Gateway:	192.168.0.1
Companding	✓	Primary DNS:	
		Secondary DNS:	
sword	~	Hostname:	localhost.localdomain
		Timezone:	Europe/London
Configure Services 🗸	~	Use NTP:	Yes
Security 🗸	1	NTP Server:	0.pool.ntp.org
	•	Companding:	n/a
Settings	→	Password:	Change
		Additional Hardware:	No new hardware available.
		Certified Authority:	Download CA (PEM-encoded) Download CA (DER-encoded)

14.If **Generate New** was selected for the server's security certificate, download the security certificate files from the menu and store these safely. These certificates need to be used by the browser and other applications for future access to the server.

15.Follow the instructions for adding a certificate to your browser 31.

16.Click **Apply**. Click **OK** when displayed to access the server's Web Manager menus. Note that this can take up to 8 minutes.

2.7 Adding a Certificate to the Browser

For secure access to the server menus, the browser used requires the server certificate.

If using a certificate uploaded to the server, obtain a copy of the same certificate from the original source.

If using the server's own generated certificate, you can downloaded from the ignition menu, or after ignition, from the **Certificates** section of the **Settings | General** menu. The server provides it certificate as a PEM or CRT file.

To add a server security certificate to Firefox:

- 1. Click the **E** icon and select **W Options**. Alternatively, click on the **Settings** icon if shown on the browser home page.
- 2. Click Advanced and select Certificates.

3. Click View Certificates.

- 4. Click Authorities.
- 5. Click **Import**. Browse to the location of the CRT or PEM file downloaded from the server. Select the file and click **Open**.
- 6. Select all the check boxes to trust the certificate.
- 7. Click **OK** twice.

To add a server security certificate to Internet Explorer: 1. Click Tools and select Internet Options.

- 2. Select the **Content** tab and click **Certificates**.
- 3. Click Import.
- 4. Click Next and Browse to the location of the downloaded certificate. Select it and click Open.
- 5. Click Next. Click Place all certificates in the following store.
 - If using the server's own generated certificate, select the Trusted Root Certification Authorities.
 - If using a certificate from another source, select Intermediate Certification Authorities.
- 6. Click Next and then Finish.
- 7. Click OK, Close.
- 8. Click OK.

To add a server security certificate to Google Chrome:

1. Click the **e** icon and select **Settings**.

- 2. Click Show advanced settings. Scroll to HTTP/SSL and click Manage certificates.
- 8. Click Import.
- 9. Click Next and Browse to the location of the downloaded certificate. Select it and click Open.

10.Click Next. Click Place all certificates in the following store.

- If using the server's own generated certificate, select the **Trusted Root Certification Authorities**.
- If using a certificate from another source, select Intermediate Certification Authorities.
- 11.Click **Next** and then **Finish**.

12.Click OK, Close.

To add a server security certificate to Mac Safari:

1. From the browser, open the directory containing the certificate file.

- 2. Double-click the certificate.
- 3. You are prompted to store the certificate in the **login keychain** or the **system keychain**. To make the certificate available to all users of this system, select **system keychain**.

To add a server security certificate to Windows Safari:

1. From the browser, open the directory containing the certificate file.

- 2. Right-click the file and select **Install Certificate**. You may be prompted for admin credentials and/or a confirmation prompt.
- 3. On the first wizard screen, click Next.
- 4. On the Certificate Store screen select Place all certificates in the following store.

5. Click **Browse**.

- 6. Select the Trusted Root Certification Authorities option.
- 7. Click OK.
- 8. Click Next.
- 9. Click Finish. If another security warning dialog displays, click Yes.

2.8 Logging Into Web Manager

Administration of the IP Office Application Server is done using a web browser on a client PC with network access to the IP Office Application Server.

Avaya supports the following browsers for web access to the server menus:

- Microsoft Internet Explorer 10 and 11.
- Microsoft Edge
- Mozilla Firefox
- Google Chrome
- Safari

To log in to the server's web control menus:

1. Log in to IP Office Web Manager.

a. Enter https:// followed by the server address. Click on the IP Office Web Manager link.

	Avaya IP Office Web Manager		
	User Name	Administrator	
	Password	•••••	
AVAYA	Select Language	English \lor	
		Offline management	
		Login	
	© 2015 Avaya Inc. Al	Rights Reserved.	

b. Enter the user name and password.

c. If any of the Management Services passwords are default, the server requests you to change those passwords. For a new server, the passwords are set during ignition. Note that this does not change the Linux **root** and **Administrator** account passwords.

	Avaya IP Office Web Manager
	Change Password
	Password
	Confirm Password
	Change Security Administrator Password
Αναγα	Password
AXAXA	Confirm Password
	Change System Password
	Password
	Confirm Password
	Save
	© 2014 Avaya Inc. All Rights Reserved.

Change Password

This sets the password for the **Administrator** account of the Management Services service run on the IP Office Application Server. With **Referred Authentication** enabled (the default) this is also the default account used for Voicemail Pro, one-X Portal for IP Office and Web Manager administrator access.

Change Security Administrator Password

This sets the password for the Management Services security administrator account.

• Change System Password

This sets the **System** password for the Management Services.

2. Click on **Solution**.

2.9 Logging In Directly

You can access the web control menus for the server directly using a web browser. This may be necessary if there is some issue with accessing the Web Manager menus.

Avaya supports the following browsers for web access to the server menus:

- Microsoft Internet Explorer 10 and 11.
- Microsoft Edge
- Mozilla Firefox
- Google Chrome
- Safari

To log in directly to the server's web control menus:

- 1. From a client PC, start the browser. Enter **https://** followed by the address of the server and **:7071**. If the IP address is unknown, see Viewing the Module IP Address.
 - If the browser displays a security warning, you may need to load the server's security certificate.
- 2. Select the Language required.

	Applicati	on Server Web Con	trol R10.0
	Please log on	1.	
AVAVA	Logon:		
Application Server Web Control	Password:		
Control	Language:	English	-
	[Login	
	© 2015 Avaya	Inc. All rights reserved · <u>View EULA</u>	

3. Enter the name and password for server administration.

4. If the login is successful, the server's **System** page appears.

2.10 IP Office Initial Configuration

The Management Service's service's initial configuration can be done using IP Office Manager rather than IP Office Web Manager if necessary. This is especially important for servers centrally managed using Avaya System Manager.

To perform IP Office initial configuration:

1. Start IP Office Manager. Click 🚢 and use the **Select IP Office** menu to discover the available IP Office systems.

2. Select the tick box next to the application server. Click **OK**.

 If any Management Services passwords are at their default values, a menu to change the default passwords appears. These are the passwords for the Management Services and Web Manager menu Administrator (default password Administrator) and security (default password securitypwd) users. Enter the new passwords and click OK.

Change Password - 000102A69984 - Adminis	itrator 💌
Change Service User Password	
Old Password	
New Password	
Re-Enter New Password	
Change Security Administrator Password	
Old Password	
New Password	
Re-Enter New Password	
<u></u> K	Cancel

3. When connected to the IP Office service for the first time, the **Initial Configuration** menu appears.

Retain Configuration Data		
System Name	00016CEF7D0E	
Locale	United Kingdom (UK English)	•
Services Device ID		
LAN Interface	LAN1	C LAN2
IP Address	192 · 168 · 0 · 212	
IP Mask	255 255 255 0	
Gateway	192 · 168 · 0 · 1	
DHCP Mode Server Client	🔘 Dialln	Disabled
DNS Server	0 . 0 . 0 . 0	
Under Centralized Management ?		

- 4. Check that the settings match those required for the server and the IP Office. For full details, refer to the IP Office Manager help.
- 5. If the server will be under centralized management from Avaya System Manager, select the **Centralized** Management checkbox. Enter the details required for the Avaya System Manager. Enter the details required for Avaya System Manager.

/	a System Manager	
	Under Centralized Management ?	
	SMGR Address	0 · 0 · 0 · 0
	SNMP Community	
	SNMP Device ID	
	Trap Community	
	Device Certificate Name	
	Certificate Enrolment (SCEP) Password	
	Confirm SCEP Password	
		Save Reset Qose Help

6. Click Save. When displayed, click OK.

2.11 IP Office Licensing

The license requirements depend on type of IP Office system.

- For Server Edition systems, only the Server Edition Primary Server requires a VMPro Recordings Administrators license.
- For non-Server Edition systems, each system in the network requires a **VMPro Recordings Administrators** license.

Avaya base each license on the unique **PLDS Host ID** of the server hosting the license file. Therefore, you cannot use the license from one server on another server.

2.12 Checking the Voicemail Licenses

The licenses entered in the IP Office system configurations enable various features including optional voicemail features. Using the Voicemail Pro client, you can check the features licensed for the voicemail server. The feature required for Contact Recorder for IP Office is support of **VRL** (Voice Recording Library).

To check the voicemail licenses:

1. Login to the voicemail server using the Voicemail Pro client.

- 2. Click Help | About.
- 3. In the details shown, check that the **VRL** feature appears *Licensed*.

About "Voicemail Pro Client"			
AVAYA			
	IP Office	192.168.0.214	
Voicemail Pro Client Version 9.0.0.0 build 200	Distributed mode 3rd Party Database Voicemail TTS(Generic) TTS(Avaya/Scansoft) TTS Professional UMS IMAP Server Web Services VB Scripting VRL VPNM	None Unlicensed O Ports O Ports O Ports O Seats N/A N/A Unlicensed Licensed Unlicensed	
	<	>	
Copyright Avaya. ©.2000-2013. All Rights Reserved.			

2.13 Adding the Application Server

For application server installations, the application server is not automatically included in the list of servers shown by IP Office Web Manager.

To add the application server to the solution menu:

- 1. Login to the Server Edition Primary Server server's Web Manager menus at *https://<server_address>:7070*.
- 2. From the **Solution Settings** drop-down list, select **Application Server**.
- 3. Enter the IP address of the application server.
- 4. Click **OK**.
- 5. The application server should now appear in the list of servers.

2.14 Enabling the Contact Recorder for IP Office Service

The server installation includes the component for Contact Recorder for IP Office. The server is installed by default but not enabled.

To enable the Contact Recorder for IP Office application:

1. Login to the primary server's Web Manager menus.

2. Click Platform.

- 3. Select the server from the list of servers.
- 4. Select the **System** tab. Click on **Show optional** services.
- 5. If the service **Contact Record** is not listed, use the following steps to add the service:
 - a. Select the **Updates** tab.
 - b. In the list of services, location the **Application** named **Contact Recorder**. The status should show *not installed*.
 - c. Click Install.
 - d. Select the **System** tab.

6. For the *Contact Recorder* service.

- a. Select the automatic start check box.
- b. Click **Start** and check that the application status changes to started.

2.15 Logging In to Contact Recorder for IP Office

Contact Recorder for IP Office supports Microsoft Internet Explorer 10. The playback function requires the browser to allow the download and installation of a number of ActiveX controls.

To log in to Contact Recorder for IP Office:

1. Start a web browser and enter the address for Contact Recorder for IP Office server.

- For secure access, enter https://<server_address>:9444.
- For unsecure access, enter http://<server_address>:9888.
- 2. Enter your user name. The default user name for administration is *Administrator*.
- 3. Enter your password. For the *Administrator*, the default password is *Administrator*.

4. Click OK.

- a. When logging in for the first time, the system prompts you to change your password.
- b. Enter the existing password and a new password.
- c. Click **OK**.
- 5. The menus displayed depend on the role assigned to the user name by the administrator.

2.16 Setting the File Paths

Contact Recorder for IP Office uses two key file paths, one for collecting recordings and one for storing those recordings.

To check the file transfer and storage addresses:

1. Login to Contact Recorder for IP Office as an administrator.

2. Select 🞾 General Setup.

3. Check the **Handover Folder** setting. The path should be set to **/opt/vmpro/VRL**.

• Separate Server Installation

If Contact Recorder for IP Office has been enabled on a separate server from Voicemail Pro, this is the folder to which Voicemail Pro should be configured to send recordings. See Configuring the Transfer of Recordings $\boxed{40^{\circ}}$.

• Single Server Installation

If Contact Recorder for IP Office has been enabled on the same server as Voicemail Pro, both applications use the same default.

- 4. Check the **Call storage path** setting. This is the folder path which the Contact Recorder for IP Office uses to store recordings.
 - Separate Server Installation
 - If using an additional hard disk: Use /additional-hdd#1/partition1 (or the appropriate additional disk and disk partition intended for Contact Recorder for IP Office use as set in that server's web control menus (Platform View | Settings | System | Additional Hardware Info | Mount Path Name including /partitionX).
 - If Contact Recorder for IP Office has been enabled on a separate server from Voicemail Pro, use / CSIPORec.
 - Single Server Installation

If Contact Recorder for IP Office has been enabled on the same server as Voicemail Pro by using an additional disk, the path should be set to **/additional-hdd#1/partition1** (or the appropriate additional disk and disk partition intended for Contact Recorder for IP Office use as set in that server's web control menus (**Platform View | Settings | System | Additional Hardware Info | Mount Path Name** including **/partitionX**)).

5. If you change either path, you must restart the Contact Recorder for IP Office service. See below.

To restart the Contact Recorder for IP Office service:

1. Login to the primary server's Web Manager menus.

- 2. Click Platform.
- 3. Select the server from the list of servers.
- 4. Select the **System** tab.
- 5. For the *Contact Recorder* application, click **Stop**.
- 6. Wait until the service appears as *stopped*. Click **Start**.

2.17 Configuring the Transfer from Voicemail Pro

If Contact Recorder for IP Office has been enabled on a separate server from Voicemail Pro, then the following additional Voicemail Pro configuration is required. This configures the automatic transfer of any files in the voicemail server's /opt/ vmpro/VRL folder to the matching folder on the server hosting Contact Recorder for IP Office.

If the Server Edition network includes a backup voicemail server on a Server Edition Secondary Server, that backup voicemail server does not require any direct configuration. It receives a copy of all the settings from the primary voicemail server including the settings below for transferring recordings to the Contact Recorder for IP Office.

To setup and test the transfer of recordings:

- 1. Login to the voicemail server using the Voicemail Pro client.
- 2. Click the **Preferences** icon and select **General**.
- 3. Select the Voice Recording tab.
- 4. Enter the details for the server hosting Contact Recorder for IP Office.

System Pr	eferen	ces				
Directories	Email	Housekeeping	SNMP Alarm	Outcalling	Voicemail Recording	Β. ∢ ≯
- Remote S	erver Se	ttings				
	FTPF	Jser Name ^P assword hte FTP Location	•••	ninistrator t/vmpro/VRL	••	
Remote FTP Host 192.168.0.215						
Test Connection						
	OK Cancel Help					

• FTP User Name / FTP Password

Enter the details of a user account with read-write permissions for the folder (configured below) on the target server. The default is to use the server's **Administrator** account.

• Remote FTP Location

Enter the location on the target server that Contact Recorder for IP Office checks for new transferred recordings (see <u>Setting the File Paths</u> 39). The default location is */opt/vmpro/VRL*.

Remote FTP Host

Enter the IP address or fully qualified domain name of the server hosting Contact Recorder for IP Office.

5. Click Test Connection.

6. Click OK.

2.18 Adding Users

Users for Contact Recorder for IP Office are configured either directly in Contact Recorder for IP Office or via using Windows domain authentication. For the later, refer to the Contact Recorder for IP Office Administering Contact Recorder for IP Office manual. The example below is only for adding a user directly into the Contact Recorder for IP Office configuration.

To add additional users:

1. Login to Contact Recorder for IP Office as an administrator.

2. Select 🗈 System.

3.

Click Add u	iser.
Username	
Password	You must set a temporary password for a new account and may set one for an existing account. The user will be forced to change it when they log in.
Comment (optional)	
Roles	System Admin. Restricted Admin. May export recordings as files
Is allowed to replay calls owned by	Use commas to separate station numbers and dashes to indicate ranges e.g. 1000,1030-1049,2001
	Close Window Enter and Stay Open Enter

• Username

Enter a user name for the user's account.

Password

Enter a password of at least 8 characters (the default setting). This is only a temporary password. When the user logs in using this password, the system prompts them to set a new password.

Roles

The selected role for the user affects which menus they can access when logged in to Contact Recorder for IP Office. Users with no admin role only see the menus for searching for recordings.

System Admin

This type of user has full access to the application settings.

Restricted Admin

This type of user can see the system status and alarms; eject DVDs and administer non-admin user accounts. They cannot change the system configuration settings.

May export recordings as files

If selected, the user is able to export recordings from the search results rather than just replay.

• Is allowed to replay calls owned by

Use this field to enter the list of extensions that the user is allowed to search for and replay recordings. Enter a comma-separated list of individual station or agent numbers. You can also use a hyphen to separate the ranges. If you have several users with the same replay rights, you can select the text in this area and right-click to copy it to the clipboard. You can then paste it into the next account, saving a lot of typing and potential for error. Note that the number of digits is important. For example, giving a user rights over 0000-9999 does not give them rights over any 2, 3, or 5 digit numbers. Some typical examples are:

• 4000

This user can only replay calls involving extension 4000. This is a typical entry for entry for someone to only be able to replay their own recordings.

• 4000-4019

This user can only replay calls involving extensions in the range 4000 to 4019. This is a typical entry for a supervisor of a group of agent with those numbers.

• 4000,4003,4010-4019,4124-4128

This user can replay calls involving a more complex range of numbers. This is a typical entry for a supervisor where the originally assigned numbering plan has grown over time.

• 1000-9999

This user can replay any calls with a 4-digit extension number. This is a typical entry for a senior manager with search and replay rights over all recordings.

4. If you want to add multiple users, click Enter and Stay Open, otherwise click Enter.

2.19 Test Operation

Before proceeding any further, test basic call recording operation.

To test operation:

- 1. Create a test user in Contact Recorder for IP Office who has playback right for your test extension. See <u>Adding</u> Users 41^{h} .
- 2. Using IP Office Manager, configure automatic call recording of the test extension user's internal calls. See <u>User</u> <u>Automatic Recording</u> 50⁻.
- 3. Make a test call from that user. You should hear the advice of call recording warning. See <u>Configuring the Advice</u> <u>of Call Recording Warning</u> 44.
- 4. Wait a minute for the call recording to transfer from the voicemail server to the Contact Recorder for IP Office server.
- 5.Log in to Contact Recorder for IP Office as the test user. Search for the recording.

2.20 Troubleshooting 2.20.1 Recorder(89001) Major Alarm

Symptom

The following alarms typically indicate that the recorder is able to reach the configured Call Storage path for recordings it collects but is not able to write and/or copy files to that location.

06/20/16 01:24:25 PM Failed to write XML file 89000100000005. Reason: /additional-hdd#1/CSIPORec/890001/000/00/89000100000005.xml (No such file or directory). 06/20/16 01:24:25 PM Failed to compress audio file for recording MSG364387824000105.wav. Reason /additional-hdd#1/CSIPORec/890001/000/00/89000100000005.wav (No such file or directory). 06/20/16 01:24:25 PM Error processing file MSG364387824000105.wav. Reason /additional-hdd#1/CSIPORec/890001/000/00/89000100000005.wav (No such file or directory).

The error is accompanied by the files that should have been collected from the */opt/vmpro/vrl* folder now being suffixed with the extension *.err*. For example, *MSG364387797100103.wav* is renamed as *MSG364387797100103.wav* is renamed as *MSG364387797100103.wav*.err.

Probable Cause

The most likely cause is that the file path has been set to the root directory of the drive rather than the storage partition, for example **/additional-hdd#1** rather than **/additional-hdd#1/partition1**.

Fix

- 1. Check that the storage file path is set correctly.
- 2. Restart the Contact Recorder for IP Office service.
- 3. Using an SSH application, access the **/opt/vmpro/vrl** folder.
- 4. Rename the files by removing the *.err* suffix. After renaming each file, it should automatically disappear from the folder as Contact Recorder for IP Office collects it and moves the file to the now corrected call storage location.

Chapter 3. Recording Configuration

3. Recording Configuration

This section covers configuration of which calls the system records.

Processes:

- <u>Configuring the advice of call recording warning</u>
- Configuring the recording display 45
- <u>Changing the maximum recording length</u> [45]
- <u>Configuring manual call recording for users</u> 46
- <u>Configuring automatic call recording</u>
 - <u>To configure automatic user recording</u> 50
 - <u>To configure automatic hunt group recording</u> [51]
 - <u>To configure incoming call route recording</u> 52
 - <u>To configure account code recording</u> 53

3.1 Configuring the Advice of Call Recording Warning

In many locations, it is a local or national requirement to warn all parties involved in a call about call recording.

- The voicemail server provides an advice of call recording warning by default.
- If any other party joins the call after it starts, for example in a conference call, the advice of call recording warning repeats each time a new party joins the call.
- For each language installed on the voicemail server, the server uses the file named **aor_00.wav** to provide the warning.
- Analogue trunks do not support call status signaling. Since the advice of recording warning plays as soon as the trunk, even if the remote end is still ringing, the called party may not always hear the warning.

To switch the advice of call recording warning on or off:

1. From the Voicemail Pro client, click 🚧 or select **Administration** > **Preferences** > **General**.

2. Click Play Advice on Call Recording to switch this option on (checked) or off (unchecked).

3. Click OK.

4. Click Save & Make Live.

3.2 Configuring the Recording Display

Some Avaya terminals display **REC** when involved in a recorded call.

To hide the auto record indication

1. Open the system configuration in IP Office Manager.

- 2. In the navigation pane, click System.
- 3. Click the **Voicemail** tab.
- 4. Check **Hide auto recording**. This hides the display of **REC** of phones that support that feature when recording a call.
- 5. Save the configuration back to the IP Office system.

3.3 Changing the Recording Length

The maximum length of call recordings made by Voicemail Pro is adjustable.

To change the recording length:

- 1. Start the Voicemail Pro client and connect to the voicemail server.
- 2. Click ***** or select **Administration > Preferences** > **General**.
- 3. The **Max. VRL Record Length (secs)** setting sets the maximum length for recordings. The maximum setting is 18000 seconds (300 minutes).
- 4. Click OK.
- 5. Click Save & Make Live.

3.4 Configuring Manual Call Recording

You can configure Contact Recorder for IP Office as the destination for call recordings manually triggered by a user.

- Configuring the manual recording destination 46
- Triggering manual call recording 47
 - Using IP Office SoftConsole 47
 - Using a programmable button 48
 - Using a short code 48

3.4.1 Configurng the Manual Recording Destination

By default user's can use manual call recording at any time. They do this using a variety of methods for triggering manual call recording 47. To use manual call recording with Contact Recorder for IP Office, you must change the destination of the recording.

To configure a user's recording options:

1. Start IP Office Manager and load the configuration from the primary server.



3. Select the Voice Recording tab.

Recording Outbound	None			
Recording Inbound	None			
Record Time Profile	<none></none>			
Recording (Auto)	Mailbox 🗸	402 Extn4	102	Y
Auto Record Calls	External			
Recording (Manual)	Mailbox	402 Extn4	102	~

4. Use Recording (Manual) to specify the destination for the recordings. By default, this is a user's own mailbox.

Mailbox

This is the default option. When selected, you can use the adjacent drop down list to select the destination user or hunt group mailbox. These files are typically 0.5MB to 1MB per minute.

Voice Recording Library

Use this option to have the recordings transferred to the VRL folder after recording (from which it can be collected by applications such as Contact Recorder for IP Office). This option produces a G.711 format file that Contact Recorder for IP Office converts to G.729A format after the file transfer. These files are typically 60KB per minute.

Voice Recording Library Authenticated

As above but this option produces a G.726 format file that contains file authentication information. Any subsequent editing of the file invalidates that information. Contact Recorder for IP Office does not convert the file to G.729A format after the file transfer. These files are typically 120KB per minute. This option is currently not supported with Linux based servers.

5. Click OK.

6. Click 屋 to merge the configuration change back to the IP Office.

3.4.2 Triggering Manual Call Recording

There are several ways to start manually recording a telephone call.

- Using one-X Portal for IP Office 47
- Using IP Office SoftConsole 47
- Using a Programmable Button 48
- Using a Short Code 48

3.4.2.1 Using one-X Portal for IP Office

A user can use one-X Portal for IP Office to stop and start manual call recording.

To start call recording using one-X Portal for IP Office:

- 1. Using the 🖾 **Calls** gadget on the **Main** tab, select the call tab for the connected call. It will be the tab with two connected handsets \longleftrightarrow icon on the right.
- 2. To start recording the call, click on the \bigcirc record button on the right. If the button displays as an \bigcirc icon then recording is not available for some reason.
- 3. Once recording has started, the button changes to an 🔲 icon. Click on this to end recording. Call recording also automatically stops if you park, transfer or turn the call in to a conference. If you hold the call, call recording is paused while the call is on hold.

3.4.2.2 Using IP Office SoftConsole

The SoftConsole operator can manually record all or part of a current telephone call.

- Press the 😾 button on the toolbar. The button acts as a toggle. Press the button again to stop recording.
- Select Actions > Record Call. This action toggles and so also stops recording.
- Press F5 to start recording. Press F5 again to stop the recording.

3.4.2.3 Using a Programmable Button

You can program the call record function against a DSS key.

To set a DSS key for manual recording:

1. Start IP Office Manager and load the configuration from the primary server.

- 2. In the Navigation pane, click 🕱 User and select the individual user.
- 3. Select the Button Programming tab.
- 4. Select the required DSS key and click **Edit**.
- 5. Click with browse for the **Action**. The Button Programming window opens.

6. Select Advanced | Call | Call Record. Click OK.

7. In the **Action Data** field, enter the description to appear on the telephone display.

8. Click **OK**.

9. Click \blacksquare to save the configuration file.

3.4.2.4 Using a Short Code

The short code feature **Call Record** triggers manual call recording. The example short code (*95) can be set up as a user or system short code.

Field	Contains
Code	*95
Feature	Call Record
Telephone Number	[Leave blank]
Line Group Id	0

To use the short code

1. During a call, put the caller on hold.

2. Dial the short code. The held call is automatically reconnected and recording begins.

3.5 Configuring Automatic Call Recording

You can configure the IP Office system to automatically record calls based on the user, hunt group, incoming call route or account code.

Trigger	Incoming	Outgoing	Duration
Incoming Call Route	Yes	_	For the call duration or up to 1 hour.
Hunt Group	Yes	-	Until ended or until transferred to a user outside the hunt group or its overflow group.
User	Yes	Yes	Until the user ends or transfers call.
Account Code	_	Yes	Until the user ends or transfers calls.

- Individual calls may match several recording criteria. In that case:
 - If the destinations for the recordings are different, separate recordings occur with the durations as indicated above.
 - If the destinations for the recordings are the same, the system makes a single recording using either the incoming call route, hunt group or user duration in that order of priority.
- Multiple recordings of the same call use multiple voicemail channels.
- Time profiles can control when automatic call recording is used.
- For inbound calls, recording will not take place if the call goes to normal voicemail to leave a mailbox message.
- If set to mandatory call recording, busy tone if returned to the caller when no voicemail ports are available to do the recording.
- Where calls have been answered using a Line appearance button, the call recording uses the voicemail setting of the original call route destination.

To configure automatic call recording:

- <u>To configure automatic user recording</u> 50
- <u>To configure automatic hunt group recording</u> 51
- <u>To configure incoming call route recording</u> 52
- <u>To configure account code recording</u> 53

3.5.1 User Automatic Recording

You can automatically record calls to and from a user. You can select just external calls or all calls.

To set automatic call recording for a user:

1. Start IP Office Manager and load the configuration from the primary server.

2. In the navigation pane, click **User**. Select the required user.

Ζ.	In the havigation par	ie, click 🛋 Usei . Select the required us	ser.	
3.	Select the Voice Red	cording tab.		
	Recording Outbound	10%	*	
	Recording Inbound	On	*	
	Record Time Profile	<none></none>	*	
	Recording (Auto)	Mailbox	*	402 Extn402
	Auto Record Calls	External & Internal	*	
	Recording (Manual)	Voice Recording Library	*	402 Extn402

4. From the **Record Inbound** and **Record Outbound** drop-down lists, select the recording frequency.

- None: Do not record.
- **On:** Record all calls if possible.
- Mandatory: Record all calls. If recording is not possible, return busy tone to the caller.
- **xx%:** Record calls at intervals matching the set percentage. For example, for every other call select **50%**.
- For inbound calls, recording will not take place if the call also goes to normal voicemail.
- 5. Use **Record Time Profile** to select a time profile that specifies when automatic call recording is active. If not set, recording is active at all times.

6. Use Auto Record Calls to select whether External or External & Internal calls are included.

7. Use **Recording (Auto)** to specify the destination for the recordings. By default, this is a user's own mailbox.

Mailbox

This is the default option. When selected, you can use the adjacent drop down list to select the destination user or hunt group mailbox. These files are typically 0.5MB to 1MB per minute.

• Voice Recording Library

Use this option to have the recordings transferred to the VRL folder after recording (from which it can be collected by applications such as Contact Recorder for IP Office). This option produces a G.711 format file that Contact Recorder for IP Office converts to G.729A format after the file transfer. These files are typically 60KB per minute.

• Voice Recording Library Authenticated

As above but this option produces a G.726 format file that contains file authentication information. Any subsequent editing of the file invalidates that information. Contact Recorder for IP Office does not convert the file to G.729A format after the file transfer. These files are typically 120KB per minute. This option is currently not supported with Linux based servers.

8. Click OK.

9. Click 屋 to send the configuration back to the IP Office.

3.5.2 Hunt Group Automatic Recording

You can automatically record calls answered by any member of a hunt group. You can select just external calls or all calls.

To set automatic call recording for a hunt group:

- 1. Start IP Office Manager and load the configuration from the primary server.
- 2. In the Navigation pane, click **W** Hunt Group.
- 3. Select the required hunt group.

4. Select the Voice Recording tab.

Record Inbound	On	*	
Record Time Profile	<none></none>	*	
Recording (Auto)	Mailbox	*	*
Auto Record Calls	External 😽		

5. Use **Record Time Profile** to select a time profile that specifies when automatic call recording is active. If not set, recording is active at all times.

6. Use Auto Record Calls to select whether External or External & Internal calls are included.

- 7. From the **Record Inbound** drop-down list, select the recording frequency.
 - None: Do not record.
 - **On:** Record all calls if possible.
 - Mandatory: Record all calls. If recording is not possible, return busy tone to the caller.
 - **xx%:** Record calls at intervals matching the set percentage. For example, for every other call select **50%**.
 - For inbound calls, recording will not take place if the call also goes to normal voicemail.

8. Use Recording (Auto) to specify the destination for the recordings.

• Mailbox

This is the default option. When selected, you can use the adjacent drop down list to select the destination user or hunt group mailbox. These files are typically 0.5MB to 1MB per minute.

• Voice Recording Library

Use this option to have the recordings transferred to the VRL folder after recording (from which it can be collected by applications such as Contact Recorder for IP Office). This option produces a G.711 format file that Contact Recorder for IP Office converts to G.729A format after the file transfer. These files are typically 60KB per minute.

• Voice Recording Library Authenticated

As above but this option produces a G.726 format file that contains file authentication information. Any subsequent editing of the file invalidates that information. Contact Recorder for IP Office does not convert the file to G.729A format after the file transfer. These files are typically 120KB per minute. This option is currently not supported with Linux based servers.

9. Click OK.

10.Click 😼 to send the configuration back to the IP Office.

3.5.3 Incoming Call Route Automatic Recording

You can automatically record incoming external calls routed by a particular incoming call route.

To set automatic call recording for an incoming call route:

1. Start IP Office Manager and load the configuration from the primary server.

- 2. In the Navigation pane, click **P** Incoming Call Route.
- 3. Select the required incoming call route.

4.	Select the Voice Reco	rding tab.			
	Recording Inbound	On	*		
	Record Time Profile	<none></none>	*		
	Recording (Auto)	Mailbox	~	<none></none>	۷

5. From the **Record Inbound** drop-down list, select the recording frequency.

- None: Do not record.
- On: Record all calls if possible.
- Mandatory: Record all calls. If recording is not possible, return busy tone to the caller.
- **xx%:** Record calls at intervals matching the set percentage. For example, for every other call select **50%**.
- For inbound calls, recording will not take place if the call also goes to normal voicemail.
- 6. Use **Record Time Profile** to select a time profile that specifies when automatic call recording is active. If not set, recording is active at all times.

7. Specify the destination for the recordings or select the option to place the recordings in the voice recording library.

• Mailbox

This is the default option. When selected, you can use the adjacent drop down list to select the destination user or hunt group mailbox. These files are typically 0.5MB to 1MB per minute.

• Voice Recording Library

Use this option to have the recordings transferred to the VRL folder after recording (from which it can be collected by applications such as Contact Recorder for IP Office). This option produces a G.711 format file that Contact Recorder for IP Office converts to G.729A format after the file transfer. These files are typically 60KB per minute.

• Voice Recording Library Authenticated

As above but this option produces a G.726 format file that contains file authentication information. Any subsequent editing of the file invalidates that information. Contact Recorder for IP Office does not convert the file to G.729A format after the file transfer. These files are typically 120KB per minute. This option is currently not supported with Linux based servers.

8. Click OK.

9. Click 😼 to send the configuration back to the IP Office.

3.5.4 Account Code Automatic Call Recording

You can automatically record outgoing external calls that use a particular account code. Note, in a Server Edition network, by default every system in the network shares the same account codes.

To set automatic call recording for an outgoing account call:

- 1. Start IP Office Manager and load the configuration from the primary server.
- 2. In the Navigation pane, click Account Code.
- 3. Select the required account code.

4. Select the Voice Recording tab.

Record Outbound	On	٧		
Record Time Profile		*		
Recording (Auto)	Mailbox	۷	<none></none>	*

5. From the **Record Outbound** drop-down list, select the recording frequency.

- None: Do not record.
- On: Record all calls if possible.
- Mandatory: Record all calls. If recording is not possible, return busy tone to the caller.
- **xx%:** Record calls at intervals matching the set percentage. For example, for every other call select **50%**.
- For inbound calls, recording will not take place if the call also goes to normal voicemail.

6. Select the **Recording Time Profile** to select a time profile that specifies when automatic call recording is active. If not set, recording applies at all times.

7. Use the **Recording (Auto)** option to select the destination for the recording.

Mailbox

This is the default option. When selected, you can use the adjacent drop down list to select the destination user or hunt group mailbox. These files are typically 0.5MB to 1MB per minute.

• Voice Recording Library

Use this option to have the recordings transferred to the VRL folder after recording (from which it can be collected by applications such as Contact Recorder for IP Office). This option produces a G.711 format file that Contact Recorder for IP Office converts to G.729A format after the file transfer. These files are typically 60KB per minute.

• Voice Recording Library Authenticated

As above but this option produces a G.726 format file that contains file authentication information. Any subsequent editing of the file invalidates that information. Contact Recorder for IP Office does not convert the file to G.729A format after the file transfer. These files are typically 120KB per minute. This option is currently not supported with Linux based servers.

8. Click **OK**.

9. Click \blacksquare to send the configuration back to the IP Office.

3.6 Pausing Recording

Sometimes it is a requirement to pause call recording. For example, when recording calls where the user asks the caller to reveal sensitive information such as a credit card number.

To do this, you can assign a pause recording button to a user's phone. The user can use the button with manually and automatically recorded calls.

The button status indicates when call recording is paused. Pressing the button again restarts call recording. The system can also automatically restart recording after a set delay.

If the voicemail system provides an <u>advice of call recording warning</u> 4, pausing recording triggers a *"Recording paused"* prompt and a repeat of the advice of call recording warning when recording resumes.

3.6.1 Configuring a Pause Recording Button

To pause recording, you need to configure a pause recording button for the user.

To configure a pause recording button:

1. Start IP Office Manager and load the configuration from the primary server.

- 2. In the Navigation pane, click **User** and select the individual user.
- 3. Select the Button Programming tab.
- 4. Select the required DSS key and click **Edit**.

5. Click with browse for the **Action**. The Button Programming window opens.

6. Select Advanced | Call | Pause Recording. Click OK.

7. In the Action Data field, enter the description to appear on the telephone display.

8. Click OK.

9. Click \blacksquare to save the configuration file.

3.6.2 Setting the Auto Restart Delay

By default, the system automatically restarts a paused recording after 15 seconds.

To set the auto restart delay for paused recording:

1. Start IP Office Manager and load the configuration from the primary server.

- 2. In the Navigation pane, click System.
- 3. Click the Voicemail tab.
- 4. Set Auto Restart Paused Recording to the required time in seconds or never.
- 5. Save the configuration back to the IP Office system.

3.7 Customisable Callflow Options

In customized voicemail callflows, the voicemail server uses a **blue Leave Mail** action to record a message. The action's settings include the option to have the resulting message sent to Contact Recorder for IP Office.

Chapter 4. Additional Processes

4. Additional Processes 4.1 Enabling DVD Archiving

When recording storage space is limited, the Contact Recorder for IP Office automatically deletes recordings on a first in first out (FIFO) basis. To avoid this and to conserve space on the server, Contact Recorder for IP Office can archive older recordings to a DVD+RW disc (single layer), to a Blu Ray -R disc (single layer) or to network attached storage.

This section covers using the server's own DVD drive as the archive destination. For other options, refer to the Administering Contact Recorder for IP Office manual 12.

Process Summary

- 1. Identifying the drive path and udi
- 2. Disabling the media detection service 57
- 3. Entering the drive in Contact Recorder for IP Office

4.1.1 Identifying the Drive Path and UDI

The file path for DVD drives, for example **/dev/sr0**, can vary between servers. The process below determines the drive path and **udi** for the drive.

To identify the DVD drive name:

1. At the physical server, start its desktop:

- a. Enter the command **startx**.
- b. Login as the **Administrator**.

2. We need to obtain a list of all the drives mounted on the server:

- a. Click Applications and select System Tools | Terminal. This starts a command line window.
- b. In the terminal window, enter **Ishal -I > hal.txt**. This outputs the details of all the mounted drives to a text file called **hal.txt**.

3. We can now get the details of the DVD drive from the text file:

- a. Double click on home folder on the desktop.
- b. Locate the file *hal.txt* and double-click on it. The file opens in the gedit file editor.
- c. Use the find function to search for *cdrom*. If this fails, try searching for *cdrom1* or *dvd*.
- d. The file consists of sections of data, each starting with udi =. Locate the first such section containing your search string and a line similar to block.device = '/dev/sr0' (string). That value is the drive path for the drive.
- 4. We can test whether the value shown for block.device is the path for the DVD drive.
 - a. In the terminal window, enter the path as part of an eject command. For our example, enter **eject /dev/sr0**. The drive tray should open.
 - b. Enter **eject -t /dev/sr0** to close the drive tray.
- 5. If necessary, continue searching the *hal.txt* file for the correct path for the drive.
- 6. Once you have identified the drive, note the **udi** value shown above **block.device**. This will be something like /org/freedesktop/Hal/devices/storage_model_DVD_RW_DW_Q30A. For example, **udi** = '/org/freedesktop/Hal/devices/storage_model_DVD_RW_DW_Q30A'.
- 7. The *udi* value is needed in the following process, highlight the value (the part between the ' ' marks) and select **Edit | Copy**.
- 8. Having identified the drive path and obtained the drive's udi, see Disabling the Media Detection Service 57.

4.1.2 Disabling the Media Detection Service

The HAL media detection service interferes with Contact Recorder for IP Office.

To disable a drive from the media detection service:

1. Use the process in <u>Identifying the Drive Path</u> to also identify the drive's **uid**.

- 2. In the terminal window, check the current value of the drive's **media_check_enabled** flag.
 - a. Enter **hal-get-property --udi** *<udi> --key storage.media_check_enabled*, replacing *<udi> with the drive's udi value.*
 - b. For example, hal-get-property --udi /org/freedesktop/Hal/devices/storage_model_DVD_RW_DW_Q30A --key storage.media_check_enabled.
 - c. The response will be either *true* or *false*. If *false*, then media detection for the drive is already disabled.
- 3. If *true*, the media detection service needs to be disabled:
 - a. Enter hal-set-property --udi <udi> --key storage.media_check_enabled --bool false, replacing <udi> with the drive's udi value.
 - b. For example, hal-set-property --udi /org/freedesktop/Hal/devices/storage_model_DVD_RW_DW_Q30A --key storage.media_check_enabled --bool false.
- 4. Repeat step 2 to check that the response is now *false*.
- 5. You must configure the server to repeat the command used in step 3 when rebooted. You can do this by adding the command to the file */etc/rc.local*.
 - a. Select the whole *hal-set-property...* line in the terminal window and select Edit | Copy.
 - b. Double-click on Computer, then Filesystem and then etc.
 - c. Locate the file *rc.local*. Right-click on the file and select **Open with gedit**.
 - d. Add a new line at the end of the file and select **Edit | Paste** to paste in the **hal-set-property** command used in step 3.
 - e. Click **Save** and close the editor.

4.1.3 Entering the Drive in Contact Recorder for IP Office

Having <u>identified a drive's path</u> and <u>disabled media detection</u> on that drive, you can add the drive path to Contact Recorder for IP Office.

To enable archiving to the DVD:

1. Login to Contact Recorder for IP Office as an administrator.

2. Select **Operations**.

3. Click Add DVD drive.

Drive path(s)	
To use multiple drives/paths in series, enter their names se	parated by semicolons.
Comment (optional)	
Advanced	Close Window Enter and Close

Drive path(s)

Enter the path for the server's DVD drive. For example /dev/sr0.

4. Click Enter and Close.

4.2 Disabling HTTP Access

You can disable HTTP access to Contact Recorder for IP Office.

To disable HTTP access:

1. Login to Contact Recorder for IP Office as an administrator.

- 2. Select 🗈 System.
- 3. Click the Edit link for Allow unencrypted (http) access? and deselect the option.
- 4 Click Enter

4.3 Initial Configuration Using IP Office Manager

The Management Service's service's initial configuration can be done using IP Office Manager rather than IP Office Web Manager if necessary. This is especially important for servers centrally managed using Avaya System Manager.

To perform IP Office initial configuration:

1. Start IP Office Manager. Click 🚨 and use the **Select IP Office** menu to discover the available IP Office systems.

2. Select the tick box next to the application server. Click **OK**.

• If any Management Services passwords are at their default values, a menu to change the default passwords appears. These are the passwords for the Management Services and Web Manager menu Administrator (default password Administrator) and security (default password securitypwd) users. Enter the new passwords and click **OK**.

Change Password - 000102A69984 - Administ	rator 💌
Change Service User Password	
Old Password	
New Password	
Re-Enter New Password	
Change Security Administrator Password	
Old Password	
New Password	
Re-Enter New Password	
<u>_</u> K	Cancel

3. When connected to the IP Office service for the first time, the **Initial Configuration** menu appears.

Dataia Castina antina Data		
Retain Configuration Data System Name	00016CEF7D0E	
Locale	United Kingdom (UK English) 🗸
Services Device ID		
LAN Interface	LAN1	C LAN2
IP Address	192 · 168 · 0 · 212	
IP Mask	255 · 255 · 255 · 0	
Gateway	192 · 168 · 0 · 1	
DHCP Mode		
Server O Client	Dialln	Disabled
DNS Server	0 . 0 . 0 . 0	
Under Centralized Management ?		

4. Check that the settings match those required for the server and the IP Office. For full details, refer to the IP Office Manager help.

5. If the server will be under centralized management from Avaya System Manager, select the Centralized Management checkbox. Enter the details required for the Avaya System Manager. Enter the details required for Avaya System Manager.

0 . 0 . 0 . 0
Save Reset Gose Help

6. Click **Save**. When displayed, click **OK**.

Chapter 5. Document History

5. Document History

<u> </u>			
Date	Issue	Changes	
3rd March 2016	11b	Updated for IP Office Release 10.0.	
9th June 2016	11c	First issue for Release 10.0.	
7th July 2016	11d	 Contact Recorder default user and password now Administrator. Password change forced at first login. 	
20th July 2016	11e	 Secondary portal service forced stopped if resilience not configured. [107219] For call recording, incoming call routes are no longer centralised. [110388] VRLA still not supported with Linux systems. [110378] Non-PCI compliant notice added. 	
26th October 2016	11f	• <u>Recorder (890001) Major Alarm</u> 42 description added to troubleshooting.	
22nd November 2016	11g	Correction, voicemail licenses are for ports, not users.	
7th November 2016	11h	• Notes on process for adding an additional disk to an R630 server. [115234]	
17th January 2017	11i	Correcting incorrect appearance of Contact Recorder info in some outputs.	
31st January 2017	11j	 For virtual servers the System ID used for license validation is now also dependant on the DHCP mode. 	
6th November 2017	11k	Removed incorrect mention of Edge support for Contact Recorder.	

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Template: 26th January 2016

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