

Voicemail Pro Installation

© 2011 AVAYA All Rights Reserved.

Notices

While reasonable efforts have been made to ensure that the information in this document is complete and accurate at the time of printing, Avaya assumes no liability for any errors. Avaya reserves the right to make changes and corrections to the information in this document without the obligation to notify any person or organization of such changes.

Documentation disclaimer

Avaya shall not be responsible for any modifications, additions, or deletions to the original published version of this documentation unless such modifications, additions, or deletions were performed by Avaya.

End User agree to indemnify and hold harmless Avaya, Avaya's agents, servants and employees against all claims, lawsuits, demands and judgments arising out of, or in connection with, subsequent modifications, additions or deletions to this documentation, to the extent made by End User.

Link disclaimer

Avaya is not responsible for the contents or reliability of any linked Web sites referenced within this site or documentation(s) provided by Avaya. Avaya is not responsible for the accuracy of any information, statement or content provided on these sites and does not necessarily endorse the products, services, or information described or offered within them. Avaya does not guarantee that these links will work all the time and has no control over the availability of the linked pages.

Warranty

Avaya provides a limited warranty on this product. Refer to your sales agreement to establish the terms of the limited warranty. In addition, Avaya's standard warranty language, as well as information regarding support for this product, while under warranty, is available to Avaya customers and other parties through the Avaya Support Web site: http://www.avaya.com/support. Please note that if you acquired the product from an authorized Avaya reseller outside of the United States and Canada, the warranty is provided to you by said Avaya reseller and not by Avaya.

Licenses

THE SOFTWARE LICENSE TERMS AVAILABLE ON THE AVAYA WEBSITE, $\label{total} \mbox{HTTP://SUPPORT.AVAYA.COM/LICENSEINFO/} \mbox{ ARE APPLICABLE TO ANYONE WHO DOWNLOADS, USES AND/OR INSTALLS AVAYA SOFTWARE,}$ PURCHASED FROM AVAYA INC., ANY AVAYA AFFILIATE, OR AN AUTHORIZED AVAYA RESELLER (AS APPLICABLE) UNDER A COMMERCIAL AGREEMENT WITH AVAYA OR AN AUTHORIZED AVAYA RESELLER. UNLESS OTHERWISE AGREED TO BY AVAYA IN WRITING, AVAYA DOES NOT EXTEND THIS LICENSE IF THE SOFTWARE WAS OBTAINED FROM ANYONE OTHER THAN AVAYA, AN AVAYA AFFILIATE OR AN AVAYA AUTHORIZED RESELLER, AND AVAYA RESERVES THE RIGHT TO TAKE LEGAL ACTION AGAINST YOU AND ANYONE ELSE USING OR SELLING THE SOFTWARE WITHOUT A LICENSE. BY INSTALLING, DOWNLOADING OR USING THE SOFTWARE, OR AUTHORIZING OTHERS TO DO SO, YOU, ON BEHALF OF YOURSELF AND THE ENTITY FOR WHOM YOU ARE INSTALLING, DOWNLOADING OR USING THE SOFTWARE (HEREINAFTER REFERRED TO INTERCHANGEABLY AS "YOU" AND "END USER"), AGREE TO THESE TERMS AND CONDITIONS AND CREATE A BINDING CONTRACT BETWEEN YOU AND AVAYA INC. OR THE APPLICABLE AVAYA AFFILIATE ("AVAYA")

Avaya grants End User a license within the scope of the license types described below. The applicable number of licenses and units of capacity for which the license is granted will be one (1), unless a different number of licenses or units of capacity is specified in the Documentation or other materials available to End User. "Designated Processor" means a single stand-alone computing device. "Server" means a Designated Processor that hosts a software application to be accessed by multiple users. "Software" means the computer programs in object code, originally licensed by Avaya and ultimately utilized by End User, whether as stand-alone products or pre-installed on Hardware. "Hardware" means the standard hardware originally sold by Avaya and ultimately utilized by End User.

License types

Designated System(s) License (DS). End User may install and use each copy of the Software on only one Designated Processor, unless a different number of Designated Processors is indicated in the Documentation or other materials available to End User. Avaya may require the Designated Processor(s) to be identified by type, serial number, feature key, location or other specific designation, or to be provided by End User to Avaya through electronic means established by Avaya specifically for this purpose.

Copyright

Except where expressly stated otherwise, no use should be made of materials on this site, the Documentation(s) and Product(s) provided by Avaya. All content on this site, the documentation(s) and the product(s) provided by Avaya including the selection, arrangement and design of the content is owned either by Avaya or its licensors and is protected by copyright and other intellectual property laws including the sui generis rights relating to the protection of databases. You may not modify, copy, reproduce, republish, upload, post, transmit or distribute in any way any content, in whole or in part, including any code and software. Unauthorized reproduction, transmission, dissemination, storage, and or use without the express written consent of Avaya can be a criminal, as well as a civil, offense under the applicable law.

Third Party Components

Certain software programs or portions thereof included in the Product may contain software distributed under third party agreements ("Third Party Components"), which may contain terms that expand or limit rights to use certain portions of the Product ("Third Party Terms"). Information regarding distributed Linux OS source code (for those Products that have distributed the Linux OS source code), and identifying the copyright holders of the Third Party Components and the Third Party Terms that apply to them is available on the Avaya Support Web site: http://support.avaya.com/Copyright.

Preventing toll fraud

"Toll fraud" is the unauthorized use of your telecommunications system by an unauthorized party (for example, a person who is not a corporate employee, agent, subcontractor, or is not working on your company's behalf). Be aware that there can be a risk of toll fraud associated with your system and that, if toll fraud occurs, it can result in substantial additional charges for your telecommunications services.

Avaya fraud intervention

If you suspect that you are being victimized by toll fraud and you need technical assistance or support, call Technical Service Center Toll Fraud Intervention Hotline at +1-800-643-2353 for the United States and Canada. For additional support telephone numbers, see the Avaya Support Web site: http://support.avaya.com

Suspected security vulnerabilities with Avaya products should be reported to Avaya by sending mail to: securityalerts@avaya.com.

Trademarks

Avaya and Aura are trademarks of Avaya, Inc.

The trademarks, logos and service marks ("Marks") displayed in this site, the documentation(s) and product(s) provided by Avaya are the registered or unregistered Marks of Avaya, its affiliates, or other third parties. Users are not permitted to use such Marks without prior written consent from Avaya or such third party which may own the Mark. Nothing contained in this site, the documentation(s) and product(s) should be construed as granting, by implication, estoppel, or otherwise, any license or right in and to the Marks without the express written permission of Avaya or the applicable third party. Avaya is a registered trademark of Avaya Inc. All non-Avaya trademarks are the property of their respective owners.

Downloading documents

For the most current versions of documentation, see the Avaya Support Web site: http://www.avaya.com/support

Contact Avaya Support

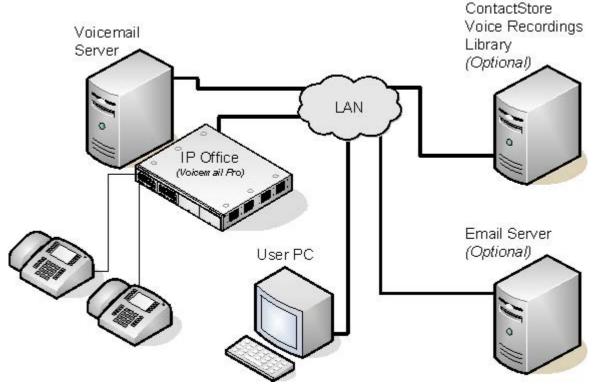
Avaya provides a telephone number for you to use to report problems or to ask questions about your product. The support telephone number is 1-800-242-2121 in the United States. For additional support telephone numbers, see the Avaya Web site: http://www.avaya.com/support

Contents	5.6 Voicemail Channel Reservations	. 89
	6. System Preferences	
1. Voicemail Pro	6.1 General	
1.1 Supported Languages		
1.2 Voicemail Pro Licenses		
1.3 Number of Simultaneous Users		
2. Windows Server Installation	6.3.2 SMTP Sender	
2.1 General Installation Requirements	6.3.3 SMTP Receiver	
2.1.1 PC Specification		
2.1.2 Virtual Server Support		
2.1.3 Single Server Support	5	
2.1.4 Network Requirements		107
2.1.5 Disk Space Requirements	7	
2.1.6 Web Server Operation		113
2.1.7 ContactStore Operation		114
2.2 Server/Client Installation 2		115
2.2.1 Modifying the Installed Components 24	7.4 Distributed Voicemail Servers	117
2.2.2 Web Campaigns Installation 25	7.5 Combined Options	119
2.2.3 The Voicemail Pro Services	7.6 Installation Notes	121
2.3 Upgrading Voicemail Pro 28	O. Annuau din	
2.3.1 Upgrade from below version 3.2 28	8. Appendix	
2.3.2 Upgrade from Version 3.2+	0.0 L (III) / : M ! D AOM O (
2.3.3 Upgrade to Voicemail Pro		
2.4 UMS Web Services	O.O.A.D. and income and a fam. V/DNIM	
2.4.1 IMAP Installation	O O O In a talling a Vallage Mail Day with V/DNIM Own and	
2.4.2 Web Voicemail Installation	O O O O o of invariant VDNIM Double and a	
2.4.3 Exchange 2007 Installation	O.O. A. Talatiana a VIDNINA Catalan	
2.5 Voicemail Email	·	
2.5.1 SMTP Setup		100
2.5.2 MAPI Setup		
2.6 Text to Speech (TTS) Installation		
2.6.1 Installing Generic Text to Speech		
2.6.2 Installing Avaya Text to Speech		
2.6.3 Setting Up Text To Speech to Read Email 64		
2.7 Troubleshooting		
2.7.1 Checking the Voicemail Pro Service		
2.7.2 Voicemail Pro User Log		
2.7.3 Tracing in Debug69)	
2.7.4 The Voicemail Console		
3. Linux Server Installation		
4. Using the Voicemail Pro Client		
4.1 Logging in to the Voicemail Pro Server 74	1	
4.2 Confirm Call Flow Download Window 76		
4.3 Continue Offline Message Window 76		
4.4 Saving Changes and Making them Live 77		
4.5 Logging Out		
5. IP Office Configuration		
5.1 User and Group Mailboxes		
5.2 System Settings		
5.3 User Voicemail Settings		
5.4 User Source Numbers		
5.5 Hunt Group Settings 87	7	

Chapter 1. Voicemail Pro

1. Voicemail Pro

The diagram illustrates a Voicemail Pro system with some of the setup options.



• IP Office Control Unit

The IP Office Voicemail Pro <u>licenses</u> 10 are entered into the configuration of the IP Office system. The licenses are required to activate Voicemail Pro features. An unlicensed Voicemail Pro service will run for two hours to allow demonstration and testing. License keys are issued against and validated against the unique serial number of the feature key dongle used by the IP Office.

• Voicemail Pro Server

The Voicemail Pro service is installed onto a server PC. This becomes the PC where messages and other data are stored for the mailboxes and services provided by Voicemail Pro. The server can be a Windows or Linux based server.

• Multiple Servers

There are a number of scenarios where multiple Voicemail Pro servers can be supported. For example to provide a backup voicemail server or to support multiple IP Office systems in a network. See Centralized Voicemail Pro 112.

Voicemail Pro Client

The Voicemail Pro Client is used to administer the Voicemail Pro service. The client is a Windows application that can be installed on another computer to allow remote administration of the the server. Only one client can connect to the server at any time.

• The version of Voicemail Pro client used with a Voicemail Pro server should match. If the Voicemail Pro client is used to load a call flow from an earlier version of Voicemail Pro server, you will be warned that if you edit the call flow you will not be able to save it back to the original server. If the client is used to load a call flow from a later version of Voicemail Pro server it will stop the action and prompt that the call flow cannot be loaded.

• Telephone Extension

For internal extensions, the voicemail server provides message waiting indication. This is done automatically for the phone user's own mailbox. However, the user can be configured to also receive message waiting indication for other mailboxes.

User's PC

In addition to accessing mailbox voicemail messages through the phone, there are a range of method for accessing messages from a user's computer. This can be by web browser, IMAP email account, Exchange 2007 email account and various other options. The IP Office one-X Portal for IP Office and IP Office Phone Manager applications can also be used.

• Email Server

Using an email server, Voicemail Pro can provide a number of services. This includes send messages alerts or copies of messages. For Exchange 2007 email servers, the email server can be used as the message store with users accessing their messages using Outlook 2007.

- ContactStore Server
 - In addition to taking voicemail messages, the Voicemail Pro can be used for automatic and manual call recording. These recordings are normally stored in the voicemail servers mailboxes. ContactStore for IP Office is an additional licensed application to which recordings can be transferred for long term storage. ContactStore supports archiving to DVD, access by web browser and searching based on call details.
 - Installation of ContactStore for IP Office is covered in its own separate installation manual. It is recommended that Voicemail Pro installation is completed and tested before the additional installation of ContactStore for IP Office.

1.1 Supported Languages

By default the prompts installed match the installer language selection plus English. If other languages are required they need to be selected by doing a custom installation. The installable Voicemail Pro prompts are listed in the table below. The availability of a language in voicemail does not necessarily indicate support for IP Office in a country that uses that language.

Language	WAV Folder	Fallback Selection	TTS 5.0
Brazilian Portuguese	ptb	> pt > en.	✓
Chinese (Cantonese)	zzh	> en > enu.	-
Chinese (Madarin)	ch	> en > enu.	✓
Danish	da	> en.	/
Dutch	nl	> en.	/
English UK	en	en.	/
English US	enu	> en.	✓
Finnish	fi	> en.	/
French	fr	> frc > en.	'
French Canadian	frc	> fr > enu > en.	/
German	de	> en.	/
Greek	el	> en.	/
Hungarian	hu	> en.	X
Italian	it	> en.	/
Korean:	ko	> en.	/
Latin Spanish	eso	> es > enu > en.	/
Norwegian	no	> en.	/
Polish	pl	> en.	/
Portuguese	pt	> ptb > en.	-
Russian	ru	> en.	-
Spanish	es	> eso > en.	-
Swedish	sv	> en.	y

When the IP Office routes a call to the voicemail server it indicates the locale for which matching prompts should be provided if available. Within the IP Office configuration, a locale is always set for the system. However differing locales can be set for each user, incoming call route and for short codes in addition to the default system locale.

The locale sent to the voicemail server by the IP Office is determined as follows:

Locale Source	Usage
	The short code locale, if set, is used if the call is routed to voicemail using the short code.
	If no user or incoming call route locale is set system locale is used unless overridden by a short code locale.
Incoming Call Route Locale	The incoming call route locale, if set, is used if caller is external.
User Locale	The user locale, if set, is used if the caller is internal.

If the prompts matching the IP Office locale are not available, the voicemail server will provide prompts from a fallback language if available. The table of languages above lists the order of fallback selection.

If required, the language provided by a voicemail call flow can be changed using a select System Prompt Language action.

TTY Teletype Prompts

TTY (Teletype (Textphone)) is included in the list of installable languages. TTY is a text-based system that is used to provide services to users with impaired hearing.

1.2 Voicemail Pro Licenses

The HeIp | About screen in the voicemail client can be used to check which IP Office the voicemail server is working and the licenses it has received from that IP Office.

The license keys are entered into the IP Office configuration using the IP Office Manager. If the Voicemail Pro server is installed without licenses, it will run for 2 hours and then shutdown.

For IP Office Release 6, support for Voicemail Pro is enable by the addition of a Preferred Edition license.

• New Preferred Edition (Voicemail Pro):

This license enables support for Voicemail Pro as the IP Office's voicemail server with 4 voicemail ports. The Preferred Edition license allows the voicemail server to provide the services listed below. Additional license can be added for additional voicemail features, these are detailed separately. This license was previously called Voicemail Pro (4 ports).

- · Mailboxes for all users and hunt groups.
- Announcements for users and hunt groups.
- · Customizable call flows.
 - · Call recording to mailboxes.

- Campaigns.
- TTS email reading for users licensed for Mobile User or Power User profiles.
 - Use of Conference Meet Me functions on IP500 and IP500 V2 systems.

Section

This license enables the additional features listed below. A Preferred Edition license is a pre-requisite for this license.

- Support for Customer Call Reporter.
- Voicemail Pro database interaction (IVR).
- Voicemail Pro call flow generic TTS (8 ports).[1]
- · Voicemail Pro Visual Basic Scripting.
- Voicemail Pro call recording to ContactStore.^[2]
- 1. Provides up to 8 ports of TTS for use with Speak Text actions within call flows. Not used for user TTS email reading.
- 2. Note: In a Small Community Network using centralized voicemail, this license only enables ContactStore support for the central IP Office. Remote IP Offices in the network require their own Advanced Edition license or a VMPro Recordings Administrator license.
- Preferred Edition Additional Voicemail Ports

The required license for Voicemail Pro server support (Preferred Edition (Voicemail Pro)) also enables 4 voicemail ports. This license can be used to add additional voicemail ports up to the maximum capacity of the IP Office system (IP406 V2 = 20, IP412 = 30, IP500 = 40, IP500 V2 = 40). This license was previously called Additional Voicemail Pro (ports).

• NMPro Recordings Administrators :

To support ContactStore in a Small Community Network, IP Offices other than the central IP Office require either their own Advanced Edition license or this license.

• Networked Messaging:

Enables VPNM (Voicemail Pro Networked Messaging) functionality within Voicemail Pro. This allows message exchange with remote Voicemail Pro systems and Avaya Interchange systems.

Symmetry
 West of the second of t

This legacy license enables use of text to speech facilities using third party TTS software with Voicemail Pro. One license per simultaneous instance of TTS usage. For IP Office Release 6 this license is no longer used for user email reading. The IP Office Advance Edition license also enables 8 ports of generic TTS.

• NMPro TTS (ScanSoft) :

This legacy licence enables use of text to speech facilities using Avaya supplied TTS software with Voicemail Pro. One license per simultaneous instance of TTS usage. For IP Office Release 6 this license is no longer used for user email reading.

Legacy Licenses

The following legacy licenses are still supported by IP Office Release 6.

- 🛰 UMS Web Services
 - This legacy license is used to enable UMS voicemail services support for users set to the *Basic User* profile. Other users are enabled for UMS through their licensed user profile.
- 🛰 VMPro Database Interface :

This legacy license enables 3rd party database support within Voicemail Pro call flows. For IP Office Release 6 this is also enabled by the Advanced Edition license.

• 🛰 VMPro VB Script :

This legacy license enables Visual Basic Script support with Voicemail Pro. For IP Office Release 6 this is also enabled by the Advanced Edition license.

1.3 Number of Simultaneous Users

All connections between the voicemail server and the IP Office are via the LAN using data channels. The maximum number of data channels that can be used for voicemail operation at any moment are shown below.

IP Office	Maximum for Voicemail Pro
IP500	40
IP500 V2	40

The actual number of simultaneous users is determined by the <u>licenses for Voicemail Pro to added to the IP Office</u> configuration. Note also that some specific functions can have <u>voicemail channels reserved</u> of their use or may have channel restrictions.

Chapter 2. Windows Server Installation

2. Windows Server Installation

This section covers the installation of the Voicemail Pro server onto a Windows server PC. Voicemail Pro 7.0 can be installed with the following IP Office systems running IP Office Release 7.0 software:

- IP Office 500
- IP Office 500v2

2.1 General Installation Requirements

Here is a list of general requirements for all types of voicemail installation.

- A PC with IP Office Manager and Microsoft .NET Framework versions 2.0 installed on it. If .NET 2.0 is not detected, you will be prompted to install it before the Voicemail Pro installation proceeds.
- An IP Office Feature Key. Refer to the IP Office Installation Manual for details.
- Licenses based on the serial number of the IP Office Feature Key. These should include:
 - A license for Voicemail Pro and any additional voicemail ports is required. If Voicemail Pro Server is installed without a license it will run for 2 hours and then shut down.
 - Licenses for any other Voicemail Pro components being installed, see Voicemail Pro Licenses 10.
- IP Office Applications DVD.

Tips

- Before you start to install Voicemail Pro it is advisable to check that the PC that you are using can connect to the IP Office unit and that you can load and save a configuration file using IP Office Manager.
- Switch off any PC and hard disk sleep, power down, suspend, hibernation modes.
- The Voicemail Pro software needs to be installed using an account with full administrator rights on the PC. The service subsequently runs under that account. We recommend that a specific account is created for this purpose and set so that its password does not expire.

2.1.1 PC Specification

The PC specifications given below are the minimum required. To avoid having to replace the server when upgrading we recommend that at least a Pentium 4 2.8GHz or higher is used wherever possible.

This application requires various licenses entered into the IP Office configuration to control the features it offers and the number of <u>simultaneous connections</u> 11, up to 40 on IP Office 5.0+ IP500 control units. The operation of Voicemail Pro can be customized to provide special services.

The Voicemail Pro software can be installed as separate Voicemail Pro client and server parts. This allows the remote administration of the Voicemail Pro server from a PC with just the Voicemail Pro client installed. A copy of the client is automatically installed locally with the Voicemail Pro server.

Source	
DVD	IP Office 7.0 Application DVD (Disk 1)
Languages	See Supported Languages 9.
IP500	✓ IP Office Standard Edition ^[1] , ✓ IP Office Professional Edition.
License	✓ See below.

1. For pre-IP Office 5.0 IP500 systems, an IP500 Upgrade Standard to Professional licenses is required to support Voicemail Pro.

The Voicemail Pro server part of the software consists of several components in addition to the core server software, these are:

- Campaigns
 - The Voicemail Pro can be configured to run a campaign. This consists of a series of questions for which the Voicemail Pro records the callers answer or key presses. The resulting recordings can then be played back by users. The web aspect of campaigns allows user to perform this playback and processing of campaign recordings via their web browser. This requires an IIS web server to be run on the same PC as the Voicemail Pro software.
- Text to Speech (TTS)
 Through adding additional licenses, the Voicemail Pro is able to use the TTS functions of Windows to speak text and numbers to callers in addition to recording prompts. This is intended mainly for scenarios where the Voicemail Pro is obtaining text and number values from a customer database.
- UMS Web Voicemail
 UMS allows users to access their voicemail mailbox using either an IMAP compatible email program or through their web browser. UMS Web Voicemail requires the Voicemail Pro service to be installed on a server PC that has IIS already present. It also installs PHP if not detected as already present.
- Installation on Windows Server Operating Systems
 On many Windows server PC's, while the Windows Audio components are present by default they are not always enabled. If this is the case the playback of voice prompts may be 'choppy' and the TTS (if installed) will not work. However, enabling Windows Audio does not require the server PC to have a sound card installed.
 - 1. Ensure that you have full administrator rights for the PC. This process will also require the PC to be restated.
 - 2. In the Windows Control Panel select Sounds and Audio Devices.
 - 3. If Windows Audio has not been enabled, select the Enable Windows Audio check-box.

Notes:

- Use of the Large Fonts setting is not supported. Use of this option may cause options on some screens to become
 inaccessible.
- 2. A 100Mbps network card is strongly recommended.
- 3. Free disk space requirements are also subject to the message storage required.

Basic Voicemail Pro

Minimum PC Requirements		Operating System Support		
RAM	256MB	Server OS:	Service	Client
Hard Disk Free Space	2GB*	2003 Server	-	>
Processor:		2008 Server	-	>
- Pentium	P4 1.4GHz	Client OS:		
- Celeron	Any 1.7GHz	XP Professional	-	7
- AMD	Any 1.4GHz.	Vista	-	7
*Also allow 1MB per minute for message and prompt storage.		Windows 7	y	>

Voicemail Pro plus UMS Web Voicemail and/or Campaigns

Minimum PC Requirements		Operating System Support		
RAM	512MB	Server OS:	Service	Client
Hard Disk Free Space	2GB*	2003 Server	y	y
Processor:		2008 Server	y	y
- Pentium	P4 2.8GHz	Client OS:		
- Celeron	Not tested.	XP Professional	×	×
- AMD	Athlon XP 3000+, Athlon 64	Vista	×	×
*Also allow 1MB per minute for message and prompt storage.		Windows 7	×	×

Both Web Campaigns and UMS Web Voicemail require the IIS web server on the voicemail server PC to be enabled.

Voicemail Pro plus IVR and or TTS

Minimum PC Requirements: Basic Voicemail Pro		Operating System Supp	oort	
RAM	512MB	Server OS:	Service	Client
Hard Disk Free Space	20GB*	2003 Server		-
Processor:		2008 Server		-
- Pentium	P4 2.8GHz	Client OS:		
- Celeron	Not tested.	XP Professional		-
- AMD	Athlon XP 3000+, Athlon 64	Vista	×	×
Also allow 1MB per minute for message and prompt storage.		Windows 7	×	×

• If the database being queried is located on the VM Pro server, the query speed of the database will be affected by the amount of memory available. Please take into account the memory requirements of the database being queried.

Voicemail Pro and IP Office Customer Call Reporter

Voicemail Pro and IP Office Customer Call Reporter can be run on the same server up to a maximum of 16 Voicemail Pro ports. Supported on a Dual Core CPU of 2.4Ghz and higher. The separate requirements of Voicemail Pro and Customer Call Reporter must be met.

[•] UMS Web Voicemail will install PHP if not detected as already installed.

^{*}Generic TTS only. The current ScanSoft TTS provided with Voicemail Pro is not supported on Vista.

Ports

The Voicemail Pro service uses the following ports.

Port Number	Туре	Description
25	TCP	Used to listen for SMTP connections.
37	UDP	Used to receive time requests (RFC 868).
143	TCP	Used to service IMAP4 requests.
50791	UDP	Used to receive requests from IP Office PBX.
	TCP	Used to receive requests fromone-X Portal for IP Office.
50791	TCP	Used to receive connections from Voicemail Pro client.

Note that additional ports may be used for connection to services such as 3rd party database or Microsoft Exchange.

2.1.2 Virtual Server Support

Operation of IP Office server applications, including Voicemail Pro, is supported using the following virtual servers.

- VMWare Server.
- Microsoft Virtual Server 2005 R2.
- Microsoft Server Hyper-V.

2.1.3 Single Server Support

The following scenarios are supported for combining IP Office server applications onto a single Windows server PC.

In all cases, the individual requirements of each application as if installed on a separate server are still applicable. Also, depending on the application combination, additional restrictions and requirements may be applied as detailed below.

	Voicemail Pro	Customer Call Reporter	one-X Portal for IP Office	Minimum IP Office Release	Minimum PC Specification
1.	16 Ports	150 Agents	-	Release 5.0	As per each application.
2.	8 Ports (4 TTS)	-	50 Simultaneous users.	Release 6.0	2GHz Dual Core, 4GB RAM, Windows 2008 Server (32 or 64-bit).
3.	8 Ports (4 TTS)	30 Agents	50 Simultaneous users.	Release 6.0	2GHz Quad Core, 6GB RAM, Windows 2008 64-bit.
4.	16 ports (8 TTS)	50 Agents	150 Simultaneous users.	Release 6.0	CCR run in Windows 2003 on a virtual server.

- Voicemail Pro includes UMS, VB Scripting and 3rd party database operation. It also includes the installation of ContactStore if required.
- Both ContactStore and one-X Portal for IP Office use Tomcat servers as part of the application. For scenarios with both installed, the redirect port setting of the ContactStore's Tomcat server should be configured to a port other than 8080.
- The supported virtual servers are:
 - VMWare Server.
 - Microsoft Virtual Server 2005 R2.
 - Microsoft Server Hyper-V.
- When used in a virtual server configuration, Customer Call Reporter and one-X Portal each require a 2GB RAM virtual machine. Voicemail Pro and ContactStore each require a 1GB RAM virtual machine.

2.1.4 Network Requirements

The PC should be configured and tested for TCP/IP networking.

We strongly recommend that the voicemail server PC is connected to the IP Office Control Unit directly or via a LAN switch

If directly connected, changing the settings of the PC network card to match the IP Office control unit can resolve some issues. This should be done according to the PC or network card manufacturer's instructions. The options for IP Office LAN ports are:

• All IP Office LAN ports are 10Mbps/100Mbps auto sensing.

If not directly connected, using any of the above settings must be supported and matched by the intervening network equipment.

- The PC should have a fixed IP address. Although PCs in a DHCP network may retain the same IP address between reboots this is <u>not</u> guaranteed.
- If the IP Office is acting as a DHCP server, it defaults to using 192.168.42.2 to 192.168.42.201 for DHCP clients. This leaves 192.168.42.202 to 192.168.42.254 for devices that require fixed IP addresses.

2.1.5 Disk Space Requirements

The following are only approximations:

- At least 2GB of free disk space is required on the operating system drive (by default c:), regardless of to which drive Voicemail Pro is actually installed.
- · A compact Voicemail Pro installation requires 130MB.
- · A typical installation requires approximately 255MB.
- A custom installation requires up to 2GB of disk space. However, prompts and recorded messages consume an additional 1MB of disk space per minute.
- For a busy environment you can expect to require at least 1000 minutes of message recording space, that is 1GB.
- If you are installing the Client only, you can expect to require at least 170MB.

2.1.6 Web Server Operation

If web browser access is required, the Microsoft IIS Web Server must be installed on the server PC before Voicemail Pro is installed:

- Microsoft web server products run as services and require Voicemail Pro to also run as a service.
- Internet Information Server 5.0 or higher is required.

2.1.7 ContactStore Operation

The current IP Office Voice Recording Library (VRL) application is Avaya IP Office ContactStore. This application and its installation are documented separately, however:

- IP Office ContactStore should be installed after Voicemail Pro has been installed and its operation verified.
- IP Office ContactStore must use a separate hard disk partition for its message archiving from that used by Voicemail Pro for current mailbox messages. Use of a separate hard disk or installation onto a separate server PC are alternatives.
- The use of ContactStore to store recordings requires additional <u>voicemail licenses</u> 10. The IP Office hosting the Voicemail Pro server must have an Advanced Edition license. If in a Small Community Network, other IP Offices in the network wanting to use ContactStore must have either Advanced Edition licenses or VMPro Recordings Administrators licenses.
- The use of RAID 1 or RAID 5 are recommended.
- The use of a DVD recorder for long-term archiving is recommended.
- A figure of 7.2MB per hour for archived recordings is given.
- The archived messages held by IP Office ContactStore are accessed via web browser using the port address 8888. This port address is not configurable and so it is necessary to ensure that it does not conflict with any other web server service running on the same server PC.

2.2 Server/Client Installation

The Voicemail Pro installation software for Windows offers a number of different types of installation. The key types are client only, compact, typical and custom. These differ in the components installed as detailed in the table below.

Component	Sub Component	Installation Type		Туре	Notes	
		Client	Compa ct	Typica I	Custo m	
Voicemail Pro	Voicemail Pro Client	7	7	7	7	
	Voicemail Pro Service	×	,	1	'	
	Languages	,	,	,		Installs the prompts that best match the server PC locale plus English prompts. For an installation with additional languages use the Custom installation option.
Voicemail Pro Campaign Web Component		×	×	7	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Not available for installation on an XP Pro server.
Web Voicemail (UMS)		×	×	×		Only available for installation on server operating systems.

Before you begin:

- 1. Log on to the server PC using the account under which you intend the Voicemail Pro server or service to run. This account must have full administrator rights to the server PC.
- 2. Recommendation
 - Create a new user account called Voicemail and give it full administrator rights on the PC. This will help to identify the purpose of the account. Set the account password so that it does not expire.
- 3. In IP Office Manager, check that the correct <u>licenses for Voicemail Pro 10</u> have been installed and show a status of *Valid*
- 4. For installations other than client only and compact, check that the necessary pre-installation processes have been completed:
 - Web Campaigns Installation 25
 - Voicemail Email Installation 46
 - UMS Web Voicemail 31
 - IMAP Installation 32
 - Web Voicemail Installation 35
 - Exchange 2007 Installation 41
 - Centralized Voicemail Pro 112
 - Installing Text to Speech Features 63
 - Voicemail Private Networked Messaging (VPNM) Installation 13h
- Installation on Windows Server Operating Systems
 On many Windows server PC's, while the Windows Audio components are present by default they are not always enabled. If this is the case the playback of voice prompts may be 'choppy' and the TTS (if installed) will not work. However, enabling Windows Audio does not require the server PC to have a sound card installed.
 - 1. Ensure that you have full administrator rights for the PC. This process will also require the PC to be restated.
 - 2. In the Windows Control Panel select Sounds and Audio Devices.
 - 3. If Windows Audio has not been enabled, select the Enable Windows Audio check-box.

To install the Voicemail Pro software components:

- 1. Insert the IP Office Applications DVD. Click on the link for Voicemail Pro and then double-click on setup.exe.
- 2. The Choose Setup Language menu is displayed. This language is used for the installation process and does not affect the language prompts that are installed.
- 3. Select the language for the installation process. Click OK.
- 4. The Preparing Installation menu is displayed.
 - Voicemail Pro requires Microsoft .NET 2.0 Framework. If this is not detected, you will be prompted to install it. Click Yes to install Microsoft .NET 2.0 Framework.
 - If the Modify, repair or remove the program window appears you need to follow the upgrade process 28.
- 5. The Welcome window is displayed. Click Next.
- 6. The Customer Information menu is displayed.
 - Use the default names or enter a user and company name. These settings do not affect the Voicemail Pro installation.
 - Select the option Anyone who uses this computer (all users).
 - · Click Next.
- 7. The Choose Destination Location menu is displayed. Unless specifically required, for ease of maintenance use the proposed folder location. Click Next.
- 8. The Messaging Components menu is displayed.
- 9. Select *Voicemail Pro (Full)* or *Voicemail Pro Client Only*. Click Next. If *Voicemail Pro Client Only* was selected, go to step 14.
- 10. The Setup Type menu is displayed. Select Compact, Typical or Custom and click Next.
 - If the option selected was *Custom*, the Select Features menu is displayed. Select the components required for the installation and click Next.
- 11. The Service Account Name menu is displayed. This window is used to select the account under which the Voicemail Pro services will be run following installation.
 - Enter the user name and password of the account to use. Alternatively, click Browse and select a name from the list of available PC or network accounts.
 - Click Next. The account name and password are validated. If the validation fails you whether you want to create a new account that matches the details entered.
- 12. The Select Program Folder menu is displayed. By default, the program folder for the Voicemail Pro client is set to IP Office. For ease of maintenance use this option unless there is a specific reason to use a different folder. Click Next
- 13. The Start Copying Files menu is displayed. It shows a summary of the components that are about to be installed. Check that this list is as expected. If for any reason the details are not what you expect, click Back and make the necessary changes. When you are satisfied that the details are correct, click Next to start copying the files.
- 14. The Setup Status menu is displayed. This shows you the progress of the file installation. For a client only installation, the software installation process is now completed.
- 15. The Install Shield Wizard Complete menu is displayed.
- 16. Depending on the operating system and the components installed you may be prompted to restart the computer. If so select *Yes, I want to restart my computer now.*
- 17.Click Finish.
- 18.If necessary, the computer will restart and you will need to log in to continue the installation process. If otherwise, the installation process continues without restarting.
- 19. The installation process continues by requesting a number of configuration settings used by the voicemail server services,
 - 1. The IP Office Voicemail Pro Email Settings window is displayed. This is used to enter the account that the voicemail pro server should use for email functions. Enter the name of the email account to use or click Browse and select an account to use. Click Next.
 - 2. The IP Office Voicemail Pro SMTP Email Settings window opens.
 - 3. In the Mail Server box, type the name of the SMTP mail server or use the name that is proposed. This should be the fully qualified domain name.
 - 4. In the Port Number box, type the number of the receiving port on the SMTP mail server. The default is 25.

- 5. To enforce server authentication, check the Server Requires Authentication box. This is optional. If you check it you also need to provide the Account Name and Password that need to be entered. You can also choose whether or not to set the Use Challenge Response Authentication option.
- 6. Click Finish. An attempt is made to validate the email settings. An error message is displayed when the attempt to connect with an SMTP server fails. Click OK to acknowledge the message.
- 20. You have now finished installing the Voicemail Pro server and client software.
- 21.If doing a custom installation to install a specific Voicemail Pro feature, refer to the appropriate section for details of any actions that need to be performed after the installation of the Voicemail Pro server software.
 - Web Campaigns Installation 25
 - Voicemail Email Installation 46
 - UMS Web Voicemail 314
 - IMAP Installation 32
 - Web Voicemail Installation 35
 - Exchange 2007 Installation 41
 - Centralized Voicemail Pro 112
 - Installing Text to Speech Features 63
 - Voicemail Private Networked Messaging (VPNM) Installation 13h

Initial Configuration

Following installation of the server and client, you should check operation by using the client to connect to the server.

- 1. Select Start | Programs | I P Office | Voicemail Pro. The Voicemail Pro Client starts and the main window opens.
- 2. Change the default remote administrator account details:
 - a. In the navigation panel, click on Voicemail Pro Administrators. There should be one account called *Administrator*.
 - b. Double-click on the account (or right click and select Modify).
 - c. Change the Password and Confirm Password to a new value than the default (Administrator).
- 3. Initialize the server call flow:
 - a. Click the Save and Make Live icon.
 - b. Select Yes. The file *root.vmp* is created on the server. This is the compiled non-editable version of the call flow that is used by the server.
 - c. Voicemail operation can now be tested from an extension by dialing *17.
- 4. You can now start configuring the operation of the voicemail server, for example changing the system preferences 924.

2.2.1 Modifying the Installed Components

- 1. Start the Windows Control Panel.
- 2. Select Add and Remove Programs.
- 3. Select IP Office Voicemail Pro from the list of installed applications.
- 4. Click on Change.
- 5. Select Modify and click Next.
- 6. The Select Features menu is displayed. The existing installed components are indicated by a tick mark.
- 7. Select the additional components required for the installation.
- 8. Not that de-selecting a component will cause it to be uninstalled.
- 9. Click Next.
- 10. The process continues are a <u>normal installation</u> 21.

2.2.2 Web Campaigns Installation

The web campaigns component of Voicemail Pro requires IIS to be installed and running on the server PC.

- 1. Check that IIS is installed and running on the server PC.
 - Windows 2008 Server IIS does not support legacy IIS applications such as Campaigns by default. This is rectified by reinstalling IIS from the Windows installation disk and selecting Legacy IIS support during the installation.
- 2. Check that the server PC can be browsed from other PC's on the customer network.
- 3. If the Voicemail Pro server software has not yet been installed:
 - Run the Voicemail Pro software installation 214 and select Voicemail Pro (Full).
 - Select either *Typical* or *Custom*. If *Custom* is selected, ensure that *Voicemall Pro Campaigns Web* is selected in the list of components.
- 4. If the Voicemail Pro server software is already installed:
 - Modify the installed components and ensure that *Voicemail Pro Campaigns Web* is selected in the list of components.

Windows 2003 Server

The following configuration changes are required for IIS version 6 after installation of the Voicemail Pro web campaigns component.

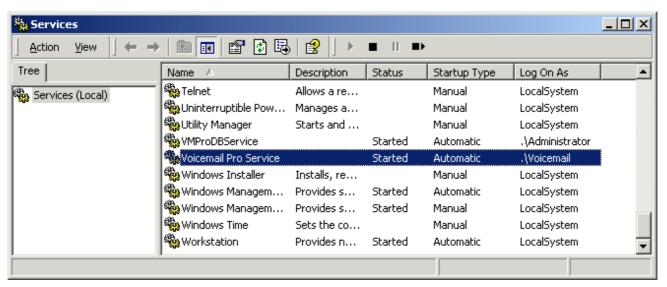
- 1. Open the Windows Control Panel.
- 2. Select Administrative Tools | Computer Management.
- 3. Go to Services and Applications | IIS Manager | Web Sites | Default Web Site.
- 4. Under Web Sites, right-click Default Web Site and select Properties.
 - Select the Home Directory tab.
 - Under Application Settings section, set the Execute Permissions to Scripts and Executables.
 - · Click OK twice.
- 5. Under Web Sites, go to Web Service Extensions.
- 6. Right-click and select Add a new web service extension....
 - · Set the following values:
 - Extension Name: campaigns.
 - Required files: Click Add. Select the file type as CGI exe files and browse to the campaign.exe file location specified during installation. This is usually c:\/netPub\wwwroot\scripts\campaign.exe\or c:\/netPub\scripts\campaign.exe.
 - Set extension status to Allowed.
 - Press OK.

2.2.3 The Voicemail Pro Services

If Voicemail Pro has been installed successfully, if the server PC has been rebooted then the voicemail service is started automatically. However it is useful know how to check the services and to manually restart them if necessary.

To check/restart the Voicemail Pro Service:

- 1. Open the Windows Control Panel.
- Select Administrative Tools > Services.



- 3. The Voicemail Pro Service should be visible. Its Status should be *Started* and the Startup Type should be set to *Automatic*. Other services may be present depending on the Voicemail Pro options installed. The possible services are:
 - Voicemail Pro Service
 This is the main Voicemail Pro service. Normally this is the only service that needs to be stopped and restarted. It will stop and restart the other services that it uses.
- 4. Close Services.

Setting the Voicemail Services or PC to Restart Automatically

The following action is optional. If there is some fault causing the Voicemail Pro service to halt, that fault should be investigated and fixed, however having the service or PC automatically restarted if possible will minimize the disruption to the Voicemail Pro users.

- 1. Use the Windows control panel to select the Voicemail Pro Service.
- 2. Right-click on the service and select Properties.
- 3. Select the Recovery tab.
- 4. Use the options presented to either restart the service and or restart the PC should the operating system detect that the Voicemail Pro service has halted.

Using a Batch File to Start Services

In some instances, certain computers might not respond quickly enough in order to start all of the Avaya services in the correct order. In this circumstance, it can be advisable to create a batch file which will delay the start of these services until the PC is fully running.

Avaya IP Office Services can be started successfully at system start-up using a scheduled task that initiates the batch file below. This batch file ensures that the services will start successfully and in the proper order.

- 1. Set all Avaya services listed below to Manual start. Do not include Key Server.
- 2. Create the batch file below and save it to %SYSTEMROOT%. Only include lines for the services which are installed.

@echo off
rem Wait 60 seconds before execute.
timeout /t 60
net start Voicemail Pro Service

3. Create a scheduled task to start the batch file at system start-up.

2.3 Upgrading Voicemail Pro

This section describes how to upgrade Voicemail Pro. The options available are:

- <u>Upgrading from Voicemail Lite</u> 30
- Upgrading from below Voicemail Pro 3.2 28
- Upgrade from 3.2 or higher 29

2.3.1 Upgrade from below version 3.2

It is important that the settings of an existing Voicemail Pro are exported before any upgrade. Although folders that contain prompts and messages are not affected by the upgrade process, the editable version of a customer call flow is lost.

To upgrade from below version 3.2 to version 4.x+:

1. Export the Database

Before removing Voicemail Pro as part of an upgrade, you must create a backup copy of the call flow database. This will contain any customizations made to the default call flow.

- 1. Start the Voicemail Pro Client.
- 2. From the File menu, select the option Import or Export.
- 3. Select the option Export call flows and click Next.
- 4. Enter a file path and file name ending in .mdb, for example C:\temp\backup.mdb. Click Next.
- 5. Click Finish to start the export then click Close to complete the export procedure.
- 6. Close the Voicemail Pro Client.

2. Back up the Registry

Any registry settings that are associated with Voicemail Pro need to be backed up.

- 1. Insert the IP Office Applications DVD. Click on the link for Voicemail Pro and then double-click on setup.exe. The Choose Setup Language window opens.
- 2. Right-click the DVD drive and select Open.
- 3. Locate the file backupreg.bat and double-click it to run the application.
- 4. Check that the registry settings have been backed up. The batch file should have created 3 backup files in the Windows Temp directory. Make sure that the following 3 files exist in that location:
 - VMPro.arf
 - NetAly.arf
 - · IMSGateway.arf

3. Remove Voicemail Pro

Any previous versions of Voicemail Pro must be removed before you start to install the new version.

- 1. Open the Windows Control Panel.
- 2. Select Add/Remove Programs.
- 3. Select IP Office Voicemail Pro and click Add/Remove.
- 4. From the options offered, select Remove and click Next.
- 5. Follow the prompts that you see on the screen during the removal process.
- 6. When the process has been completed, select the option Yes, I want to restart my computer now and click Finish.

4. Restore the Registry

The Voicemail Pro registry settings that were backed up in step 2 needs to be restored.

- 1. Insert the IP Office Applications DVD. Click on the link for Voicemail Pro and then double-click on setup.exe. The Choose Setup Language window opens.
- 2. Locate the file *restorereg.bat* and double-click it to run the application. This restores the registry settings previously associated with Voicemail Pro.

5. Install the New Software

See <u>Installing Voicemail Pro 14</u> and then refer to the sections that relate to the type of Voicemail Pro that you intend to install.

6. Restore the Database

The copy of the call flow database that contained any customizations made to the default call flow needs to be restored.

- 1. Start Voicemail Pro.
- 2. From the File menu, select I mport or Export. The Import or Export Call Flows window opens.
- 3. Select Import Call Flows.
- 4. Click Next.
- 5. Click the Browse button and locate the file that contains the backed up call flows.
- 6. Select the file and click Open.
- 7. In the Import or Export Call Flows window, click Next.
- 8. Click Finish to start importing the database.
- 9. Click Close to complete the import process.
- 10. Click on Save and Make Live to save the Call flows.

The new version of Voicemail Pro has been installed. Test that the system is running by dialing *17 from any extension. You should hear the mailbox announcement.

2.3.2 Upgrade from Version 3.2+

You can directly upgrade versions of Voicemail Pro from Voicemail Pro 3.2 upwards. However we still recommend that you follow the procedure for backing up the database before upgrading.

To upgrade from version 3.2 or higher:

- 1. Insert the IP Office Applications DVD. Click on the link for Voicemail Pro and then double-click on setup.exe. The Choose Setup Language window opens.
- 2. Select the installation language. The language selected is used for the installation.
- 3. Click OK. You are asked 'This setup will perform an upgrade of IP Office Voicemail Pro. Do you want to continue?'
- 4. Click Yes. The Upgrading the IP Office Voicemail Pro window opens.
- 5. Click Next to start the upgrade. The setup status window opens. The progress of the upgrade is indicated by a time bar.
- 6. Click Finish. The Email settings window opens.
- 7. Enter your email account details and click Next. The SMTP Email settings window opens.
- 8. Enter your SMTP Email details and click Finish. The SMTP settings entered will be validated. If an error occurs, the validating configuration window opens containing the <u>SMTP Error</u> 128.
- 9. Click Yes when asked if you want to start the Voicemail Pro service.
- 10. The new version of Voicemail Pro has been installed. Test that the system is running by dialing *17 from any extension. You should hear the mailbox announcement.

2.3.3 Upgrade to Voicemail Pro

You can upgrade from Voicemail Lite to Voicemail Pro. The process described here assumes that Voicemail Pro is being installed onto the same PC that previously hosted Voicemail Lite. The steps described here will remove Voicemail Lite but will not remove the existing mailbox messages and greetings.

To upgrade from Voicemail Lite to Voicemail Pro:

- 1. Remove Voicemail Lite
 - 1. Make sure that Voicemail Lite is not running. It might be necessary to close the Voicemail Lite server program.
 - 2. Open the Windows Control Panel and select Add/Remove Programs.
 - 3. Select I P Office Admin Suite and click Change. The Welcome to the Installshield Wizard for IP Office Admin Suite window opens.
 - 4. Click Next. The Program Maintenance window opens.
 - 5. Select Modify and click Next.
 - 6. In the list of selected Features, click the option Voicemail Lite and select This feature will not be available. The feature Voicemail Lite will have a red cross by the name. Voice Mail Lite.
 - Important Do not uncheck any other boxes as this will also remove those features.
 - 7. Click Next. The Ready to Modify the Program window opens.
 - 8. Click Install. The Voicemail Lite program will be removed, which may take several minutes.
 - 9. Click Finish to exit the InstallShield Wizard.
 - 10. Click Close to close the Add/Remove Programs window.
 - 11. Remove any shortcuts to *VMLite.exe* from Start > Programs > Startup.
- 2.Install the New Software

The next step is to install the Voicemail Pro software. See <u>Installing Voicemail Pro 14</u> and then refer to the sections that relate to the type of Voicemail Pro that you intend to install.

3. Move the Voicemail Lite Folders

This must be done before users start to use Voicemail Pro. As part of the upgrade procedure you need to move the Voicemail Lite folders that contain any existing voicemail messages and mailbox greetings. This stage copies the existing Voicemail Lite messages and greetings over the newly installed Voicemail Pro set.

- 4. Using Windows Explorer or My Computer, locate the folder C:\Program Files\Avaya\IP Office\Voicemail Server.
- 5. Copy all sub-folders and files in that folder.
- 6. Paste the sub-folders and files in the folder *C:\Program Files\Avaya\IP Office\Voicemail Pro\VM*. Replace any existing folders.
- 7. Select the Mailbox Mode.

Voicemail Lite runs in IP Office mailbox mode. By default Voicemail Pro installs in Intuity mailbox mode. If required by your users, you can set Voicemail Pro back to IP Office mailbox mode.

- 1. Start the Voicemail Pro Client.
- 2. Click the Preferences icon and select General.
- 3. On the General tab, change the Default Telephony Interface from Intuity to IP Office.
- 4. Click OK.
- 5. Click Save & Make Live.

The new version of Voicemail Pro has been installed. Test that the system is running by dialing *17 from any extension. You should hear the mailbox announcement.

2.4 UMS Web Services

Voicemail Pro 4.2+ adds support for user mailboxes to be accessed using the additional methods listed below. For Voicemail Pro 5.0+ this has been expanded to include hunt group mailboxes.

- IMAP Email Client Support
 This method allows mailbox access using any email client that supports IMAP, for example Outlook and Lotus Notes.
 The Voicemail Pro server PC acts as the IMAP server.
- Web Voicemail Access
 This method alls mailbox access using a web browser. Messages can be played back to an IP Office phone extension or through the PC if the browser is audio enabled. Web voicemail requires the voicemail server to also run IIS and PHP
- UMS Exchange 2007 (Voicemail Pro 5.0+)
 A user or group can be configured to have their voicemail messages forwarded to the inbox of an Exchange 2007 email account. Telephone, including Visual Voice, mailbox access is redirected to that email inbox as the store for voicemail messages. Alternatively the user can access their voicemail messages using Outlook 2007 or any other mechanisms supported by Exchange 2007. Voicemail messages in an Exchange 2007 inbox are not visible to UMS IMAP and UMS Web Voicemail, however Exchange 2007 provides its own methods for IMAP and web browsing of Exchange mailboxes.

Use of these options requires the user to be licensed, either using an appropriate IP Office user profile license or the legacy UMS Web Services license.

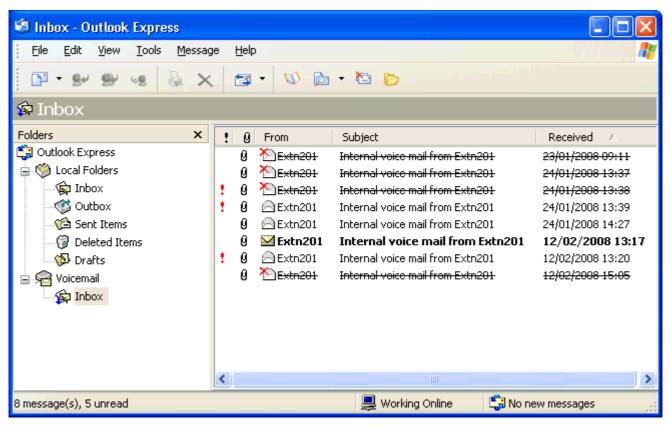
Feature	Web Voicemail	IMAP Client	Exchange 2007
Playback via PC.	y	/	J
Playback via User Extension.	7	×	X [1]
Save message Wav to PC.	×	<i>y</i>	1
Forward messages to other voicemail mailbox.	*	×	×
Forward messages to other email mailbox.	×	y	-
Undelete manually deleted messages.	-	y	-
Mark message as unread.	y	y	-
Change voicemail password.	<i>-</i>	×	×
Show Message Types	Web Voicemail	IMAP Client	Exchange 2007
- New (Unread).		-	-
- Old (read).	-	-	· ·
- Saved.	-	-	×
- Priority.	<i>-</i>	1	7
- Private.	X [2]	X	7
- Deleted.	✓	1	y

- 1. Exchange 2007 Unified Messaging supports the playback of messages through a range of options controlled and configured on the exchange server.
- 2. Private messages are not indicated, however the web voicemail will not allow the forwarding of private messages.

2.4.1 IMAP Installation

Voicemail Pro 4.2+ support mailbox synchronization with email clients that can support IMAP (Internet Message Access Protocol) accounts. Examples are Outlook, Outlook Express and Lotus Notes.

Once configured, the IMAP folder and the mailbox are synchronized whenever the IMAP folder is opened. The method of indication of the different message types will depend on the email client being used and is not controlled by the Voicemail Pro



The number of mailboxes that can be configured for IMAP and/or web access is controlled by licenses.

Installing the Voicemail Pro IMAP Server

The IMAP server is installed as a standard part of the Voicemail Pro service installation. It uses the IP address of the Voicemail Pro server PC and runs on the standard IMAP port 143.

The only special consideration is to avoid having any other IMAP server running on the same PC.

Licensing IP Office for Web Services

UMS web services can be licensed in a number of ways by licenses added to the IP Office configuration:

- User Licensing
 User licensing is done as follows.
 - Users whose Profile is set to *Teleworker User* or *Power User* can be enabled to UMS if required. This requires Teleworker Profile or Power User Profile licenses.
 - User's whose Profile is set to Basic User can be licensed using legacy UMS Web Services licenses.
- Hunt Group Licensing Hunt groups are licensed by UMS Web Services licenses.
- 1. Start IP Office Manager.
- 2. Receive the configuration from the IP Office associated with the Voicemail Pro server.
- 3. In the Licenses section, add the required licenses.
- 4. Merge the configuration back to the IP Office and then receive the configuration again.
- 5. In the Licenses section check that the License Status of the licenses is now shown as *Valid*.
- 6. Start the Voicemail Pro client
- 7. Select Help | About.
- 8. The screen should list the Web Services as Started and should show the number of UMS licenses.

Configure Users for UMS

- 1. Start IP Office Manager.
- 2. Receive the configuration from the IP Office system hosting the user.
- 3. Select User and then select the required user.
- 4. Set their Profile to either Teleworker or Power User.
- 5. Select the Voicemail tab. Enable UMS Web Services. Click OK.
- 6. Merge the configuration back to the IP Office.

Configuring Hunt Groups for UMS

Access to hunt group mailboxes using UMS is supported for Voicemail Pro 5.0+.

- 1. Start IP Office Manager.
- 2. Receive the configuration from the IP Office system hosting the hunt group.
- 3. Select the hunt group.
- 4. Click on the Voicemail tab.
- 5. Enable UMS Web Services. Click OK.
- 6. Merge the configuration back to the IP Office.

Configuring a User Email account

The exact method of configuration of an IMAP account depends on the IMAP client being used by the user. For example it may be necessary to enable some field with dummy data in order for the email client to accept the account even though those settings are not used by the Voicemail Pro IMAP server.

The general details that are required are:

IMAP Account Setting	IP Office Value
Incoming Server	Voicemail Pro server IP address or domain name address.
Account Name	User name or extension number.
Password	User voicemail code.

Example: Outlook

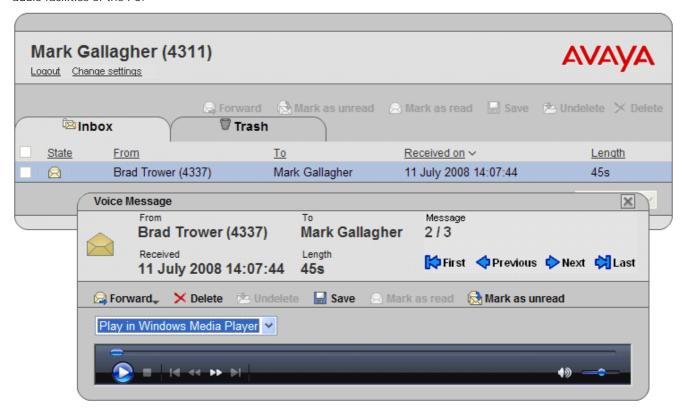
- 1. Select Tools and then Options.
- 2. Select Mail Setup and then click E-mail Accounts.
- 3. Select Add a new e-mail account.
- 4. Select IMAP as the server type.
- 5. In Server Information for Incoming mail server and Outgoing mail server enter the IP address or domain name address of the Voicemail Pro server PC.
- 6. In Logon Information enter the user's extension number and voicemail code as the User Name and Password.
- 7. Click Next.

Example: Outlook Express

- 1. Select Tools and then Accounts.
- 2. Select Add and then Mail.
- 3. Enter a descriptive name such as Voicemail and click Next.
- 4. Enter an email address. This is not used but a value must be entered to move to the next screen. Click Next.
- 5. Set My incoming mail server is a to IMAP.
- 6. In the Incoming server field enter the IP address or domain name address of the Voicemail Pro server PC.
- 7. Enter a value in the Outgoing mail server field. This is not used but a value must be entered to move to the next screen. Click Next.
- 8. For Account Name enter the user's extension number or name in the IP Office configuration.
- 9. For Password enter the user's Voicemail Code.
- 10.Click Next and then Finish.

2.4.2 Web Voicemail Installation

Voicemail Pro 4.2+ support web access to user mailboxes. Users are then able to play their messages, mark them as saved or deleted, or forward messages to another mailbox. Playback is through an IP Office extension or through the audio facilities of the PC.



Web Voicemail Installation Requirements

The Web Voicemail component is selectable as part of a custom Voicemail Pro installation. Note the pre-requisites below before doing the Web Voicemail installation.

- □ IIS Web Server
 - Must be installed on the voicemail server PC before the Voicemail Pro Web Voicemail component is installed.
 - □ PHP
 Web Voicemail uses PHP. If an existing PHP is not detected, the Voicemail Pro installation will install its own PHP.
- □ Licenses

The use of Web Voicemail and the number of users who can be configured to access it are controlled by the UMS Web Services license entered in the IP Office configuration.

UMS web services can be licensed in a number of ways by licenses added to the IP Office configuration:

- User Licensing
 User licensing is done as follows.
 - Users whose Profile is set to *Teleworker User* or *Power User* can be enabled to UMS if required. This requires Teleworker Profile or Power User Profile licenses.
 - User's whose Profile is set to *Basic User* can be licensed using legacy UMS Web Services licenses.
- Hunt Group Licensing Hunt groups are licensed by UMS Web Services licenses.
- □ Computer Name\URL

The computer name is used as part of its URL on the network. Ensure that the name is set to something that appropriately indicates its purpose and that can be used as part of the URL for the web server within the customer's domain.

□ Remove IMS

Voicemail Pro UMS is not supported on systems that are using Voicemail Pro IMS. IMS must be removed before UMS can be selected for installation.

User and Browser Requirements

For users to access Web Voicemail they require a web browser that meets the following requirements:

- □ Javascript Enabled Web Browser
 - Web Voicemail is tested against the following browsers. Other browser may work so long as they support JavaScript and CSS.
 - Internet Explorer V6 SP1 or higher.
 - Internet Explorer V7 or higher.
 - Mozilla Firefox V2.0.0.2 or higher.
 - Opera V9.10 or higher.
- PC Playback

Browser access allows the selection of message playback either via an IP Office extension or through the web browser. Avaya test browser playback using the following Windows media players:

- Windows Media Player 10.
- Windows Media Player 11.
- Quick Time 7.4.
- VLC 0.8.
- □ User Name and Password

Once enabled for UMS Web Services in the IP Office configuration, to log on using Web Voicemail, the user will need to know their Name and Voicemail Code as set in the IP Office configuration. Note that this is the Name and not the Full Name.

Voicemail Pro Software Installation with Web Voicemail Component

The Web Voicemail component is installed as part of a Custom Voicemail Pro installation. From the list of

- 1. Verify that IIS is installed and running on the voicemail server PC. Check that it can be browsed from user PC's.
 - While the server can be browsed by IP address, the URL used by users will be based on the server's computer name within the customer domain. Check that web server can be browsed from user PC's using the server's computer name as part of the URL. If necessary change that name to accurately indicate its function.
- 2. Insert the IP Office Applications DVD. Click on the link for Voicemail Pro and then double-click on setup.exe. The Choose Setup Language window opens.
- 3. When asked for the type of Voicemail Pro install to perform, select Voicemail Pro (Full).
- 4. On the next screen select Custom.
- 5. In the list of components scroll down and select Web Voicemail. Do not change any of the other selections unless you understand the requirements for those components.
- 6. Follow the remainder of the installation process and allow the voicemail server to reboot when required.

Licensing IP Office for Web Services

UMS web services can be licensed in a number of ways by licenses added to the IP Office configuration:

- User Licensing
 - User licensing is done as follows.
 - Users whose Profile is set to *Teleworker User* or *Power User* can be enabled to UMS if required. This requires Teleworker Profile or Power User Profile licenses.
 - User's whose Profile is set to Basic User can be licensed using legacy UMS Web Services licenses.
- Hunt Group Licensing

Hunt groups are licensed by UMS Web Services licenses.

- 1. Start IP Office Manager.
- 2. Receive the configuration from the IP Office associated with the Voicemail Pro server.
- 3. In the Licenses section, add the required licenses.
- 4. Merge the configuration back to the IP Office and then receive the configuration again.

- 5. In the Licenses section check that the License Status of the licenses is now shown as Valid.
- 6. Start the Voicemail Pro client
- 7. Select Help | About.
- 8. The screen should list the Web Services as Started and should show the number of UMS licenses.

Configure Users for UMS

- 1. Start IP Office Manager.
- 2. Receive the configuration from the IP Office system hosting the user.
- 3. Select User and then select the required user.
- 4. Set their Profile to either Teleworker or Power User.
- 5. Select the Voicemail tab. Enable UMS Web Services. Click OK.
- 6. Merge the configuration back to the IP Office.

Configuring Hunt Groups for UMS

Access to hunt group mailboxes using UMS is supported for Voicemail Pro 5.0+.

- 1. Start IP Office Manager.
- 2. Receive the configuration from the IP Office system hosting the hunt group.
- 3. Select the hunt group.
- 4. Click on the Voicemail tab.
- 5. Enable UMS Web Services. Click OK.
- 6. Merge the configuration back to the IP Office.

UMS Web Voicemail and ContactStore

It is possible to run ContactStore and UMS Web Voicemail on the same server PC. However some additional steps are required following installation in order to allow browser access to both applications.

- 1. Install UMS web voicemail.
- 2. Install ContactStore.
- 3. Reboot the server.
- 4. Within services, stop the *ContactStore* service.
- 5. Using a web browser access a voicemail mailbox using UMS web voicemail.
- 6. Restart the ContactStore service.
- 7. Both application should now be accessible via web browser.

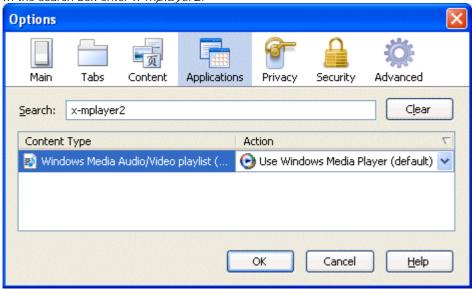
Playback Control

UMS message playback through the web browser is tested and supported with the Windows Media Player. It may work with other audio playback controls but will not have been tested.

The following methods can be used to check that the audio playback is associated with the Windows Media Player.

Firefox

- 1. Select Tools | Options | Applications or Tools | Options | Content | File Types | Manage.
- 2. In the search box enter x-mplayer2.

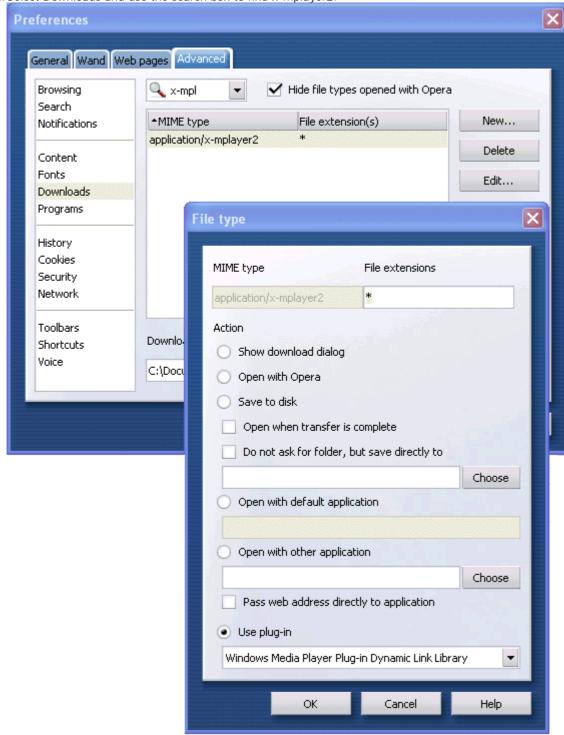


3. Check that the Action is set to *Use Windows Media Player* or *Use Windows Media Player plug-in Dynamic Link Library.*

Opera

1. Select Tools | Preferences.

2. Select Downloads and use the search box to find x-mplayer2.

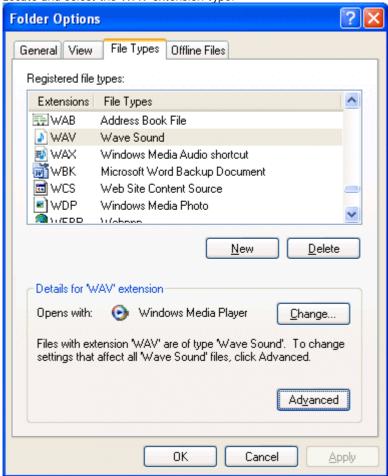


3. Check that the setting is set to Use plug-in and Windows Media Player Plug-In Dynamic Link Library.

Internet Explorer

- 1. Internet Explorer uses the application associated with the wav file type for Windows.
- 2. Select My Computer.
- 3. Select Tools | Folder Options.
- 4. Select File Types.

5. Locate and select the WAV extension type.



6. Check that the details show Windows Media Player as the selected application for this file type.

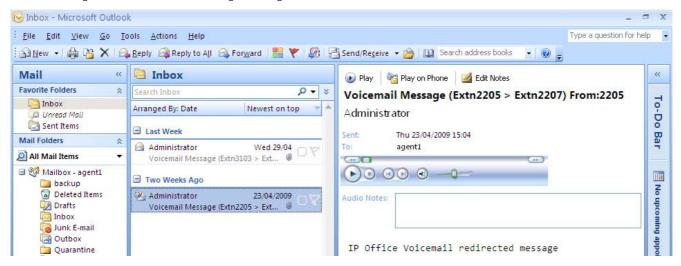
2.4.3 Exchange 2007 Installation

A UMS user or group can be configured to have their voicemail messages forwarded to the inbox of an Exchange 2007 email account. They can then access their voicemail messages using Outlook 2007 and playback those messages on their PC. Alternatively any other mechanisms supported by Exchange 2007 Unified Messaging can be used. Access to the messages from an IP Office telephone is still supported, including Visual Voice.

Voicemail messages in an Exchange 2007 inbox are not visible to UMS IMAP and UMS Web Voicemail, however Exchange 2007 provides its own methods for IMAP and web browsing of Exchange mailboxes.

Note

When using an Exchange 2007 server as the message store for a user's voicemail messages, the voicemail server will deliver messages to the Exchange server on completion of the recording. However, the presentation to Outlook and back to the voicemail server for message waiting indication (MWI) and access via telephone is delayed by Exchange server processing. The delay is typically 1 or 2 minutes. The same delay also applies to changes in the message status that affect message waiting indication.



The following are the pre-requisites for UMS Exchange 2007:

- Exchange 2007 Server
 - The Exchange 2007 server must be configured with the Unified Messaging Server Role selected.
 - · A Dial Plan must be created on the Exchange 2007 server. This can be a blank dial plan but it must exist.
 - Within the Exchange 2007 server settings for each mailbox, select Enable Unified Messaging.
- · Voicemail Pro
 - The Voicemail Pro server must be configured for MAPI based voicemail email 50h.
 - The supported MAPI applications are Exchange 2007 and Outlook 2007.
- IP Office
 - The user or hunt group must be licensed and enabled for UMS Web Services.
 - The user or hunt group's Voicemail Email mode must be set to Forward.

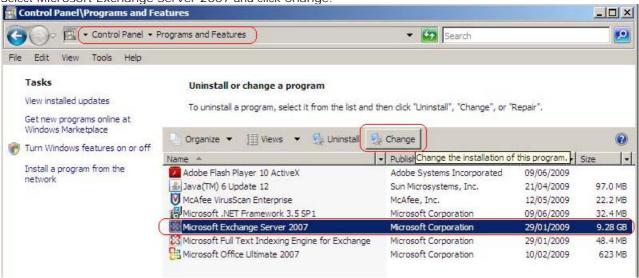
Exchange Server 2007 Unified Messaging Configuration

This is a simple overview of the minimum steps required. For full details refer to the Microsoft documentation.

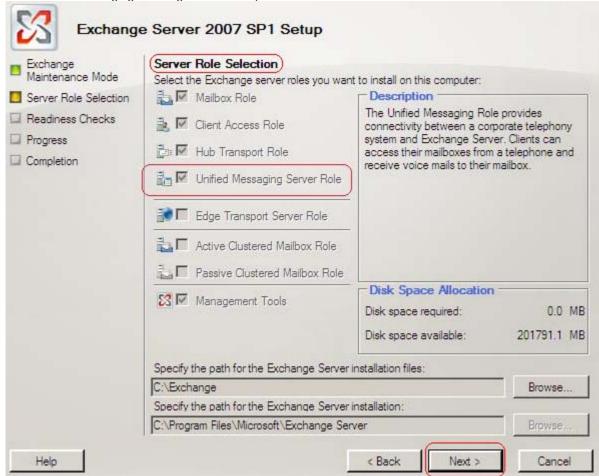
In order to support UMS Exchange Server 2007 operation, the Exchange Sever must be configured to include the Unified Messaging Server Role.

1. From the Windows Control Panel, select Program and Features.

2. Select Microsoft Exchange Server 2007 and click Change.



3. The wizard for changing Exchange Server setup is started. Click Next.



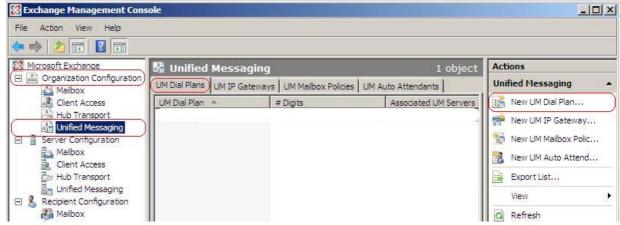
4. In the Server Role Selection list check that Unified Messaging Server Role is one of the selected roles. Click Next through the wizard and then Finish.

Having enabled the Unified Messaging role on the Exchange Server, the role can be configured and enabled for the mailboxes.

- 1. Select Start | Programs | Microsoft Exchange Server 2007 | Exchange Server Management Console.
- 2. Expand the Server Configuration list. The Unified Messaging role should appear in the list.



- 3. You need to create a Unified Messaging dial plan.
 - a. Expand the Organization Configuration and select Unified Messaging.



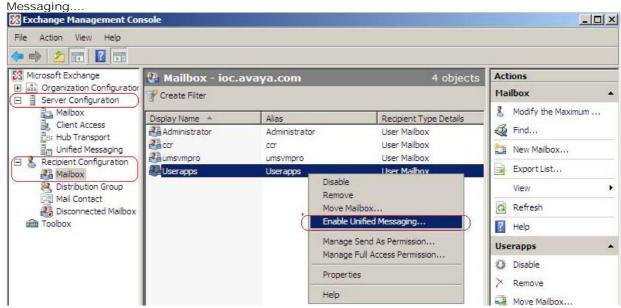
- b. Select the UM Dial Plans tab and in the Actions list select New UM Dial Plan....
- c. The New UM Dial Plan wizard will be started.



- d. Create a plan similar to the one shown above. The digits length is not important but must be matched later in the process. The simplest option is to set it to match your IP Office extension number length. Click New and then Finish.
- 4. You now need to select which mailboxes the Unified Server role is available.

a. Expand the Recipient Configuration section and select Mailbox.

b. Right click on the configuration settings used for general mailbox users and select Enable Unified

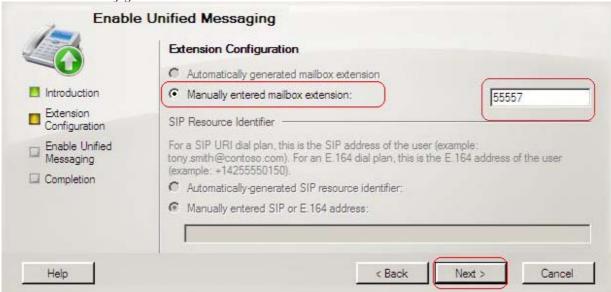


c. The wizard for the mailbox Unified Messaging settings is started.



d. For the Unified Messaging Mailbox Policy click on Browse... and select the previously created dial plan.

e. Select Automatically generate PIN to access Outlook Voice Access. Click Next.



- f. Select Manually entered mailbox extension. Enter a number that matches the digit length that was specified in the UM Dial Plan previously created. The actual number entered does not need to match an IP Office extension, only the length is important. Select Next.
- g. Select Enable and then Finish.

2.5 Voicemail Email

Voicemail Email allows the voicemail server to provide a number of email functions:

- Forward a Message to Email

 If the voicemail server is set to IP Office mailbox mode, mailbox users are able to manually forward an voicemail
 message to their email.
- Automatic New Voicemail Messages
 For all mailbox modes, users can use voicemail email to automatically have a message sent to their email whenever
 they receive a new voicemail message. The email can be a simple alert or it can include a copy of the voicemail as
 an attachment.
- eMail Action
 With customized call flows, an eMail action can be used to send a caller's recorded voicemail message to a specified email address.
- UMS Exchange 2007
 In conjunction with Exchange 2007 and Outlook 2007, users are able to use their Outlook inbox as their mailbox for voicemail messages.

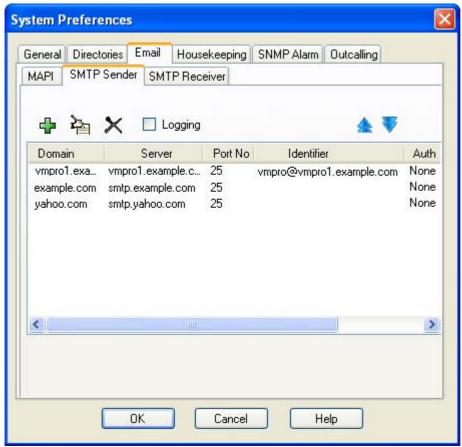
Voicemail Email features requires the voicemail server to be configured for access to either an SMTP email server or to a MAPI email server via a MAPI enabled email client program on the voicemail server PC.

- SMTP Installation 47 This is an email standard supported by most email servers. It is the default email mode for the voicemail server.
- MAPI Installation
 MAPI requires a MAPI compliant email client program to be installed on the Voicemail Pro server. Supported MAPI clients are Outlook 2000, 2002, 2003, 2007. It also requires the Voicemail Pro service to be run using a user account that is able to send emails via that MAPI client.
 - The exact method of integration between the voicemail server and the MAPI email client depends on whether the voicemail server is part of a work group or a domain. This guide contains examples for both approaches.
 - The MAPI process described in this guide was based on Microsoft Windows 2000 Professional with Microsoft Outlook 2000 and Microsoft Outlook Express 5.5. Steps may differ depending on the version of Windows and email client used.

2.5.1 SMTP Setup

To configure the server SMTP email settings:

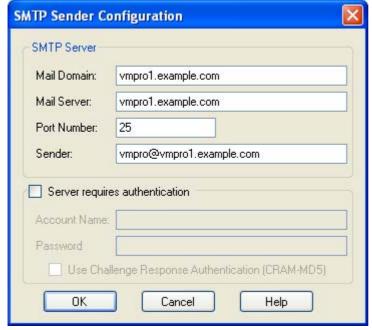
- 1. Start the Voicemail Pro Client.
- 2. Click Preferences and select General.
- 3. Click the Email tab.
- 4. Ensure that there are no settings on the MAPI sub tab.
- 5. Enter the SMTP settings on the SMTP Sender substant the voicemail server uses for sending SMTP emails.



• Logging
If selected, SMTP logging 128 by the server is enabled.

Servers

This section is used to enter details of the SMTP server or servers to which the voicemail server send its messages.



To add a server, click on the 🕂. icon. To edit the server, click on the 🖺 icon. To delete a server entry, click on 🗙.

Mail Domain

This field is used differently depending on whether it is the first entry in the list or not:

- For the first server entry in the list:
 This is the default outgoing email settings. It also sets the mail destination domain on which the voicemail server filters incoming messages (see below) and so is repeated on the SMTP Receiver 100 tab.
 - Messaging Between Voicemail Servers For messaging between voicemail servers, the first entry in the SMTP Sender list must be the one configured and used. Each server uses the SMTP server service on the same server PC as the voicemail service. For example a Windows based servers uses the SMTP email provided by the IIS on the same server. The voicemail service also uses the domain set to filter incoming SMTP mails received by the SMTP server. For this to work, the domain entered should be the fully qualified name of the server on which the voicemail server is running, for example *vmpro1.example.com*. Any incoming messages where the recipient mail domain is not exactly the same as the specified domain are ignored. The recipient can either by *vmsyncmaster*, *vmsyncslave* or the name or extension of a mailbox on the Voicemail Pro server, for example *Extn201@vmprocentral.example.com* or *201@vmprocentral.example.com*.
- For subsequent entries:
 The domain specifies that these settings should be used for emails sent to the matching domain. The entry must be a fully qualified name resolvable by DNS or an IP address.
- Server

This specifies the IP address or fully qualified domain name of the SMTP server to which messages are sent.

- For the first server entry in the list: Where messaging between voicemail servers is being used (central, backup and or distributed servers), the first entry is used and will match the domain set above.
- For subsequent entries:
 It will be the address of the email server that will handle emails for recipients other than another voicemail server on the network.
- Port Number
 This is port to which messages are sent, usually 25.
- Sender (Identifier)

Note that some servers will only accept emails from a specific sender or sender domain. If left blank, the voicemail server will insert a sender using either the email address set for the voice mailbox user if set or otherwise using the best matching name it can resolve from the IP Office.

Server Requires Authentication

This check box indicates whether the connection to send SMTP messages to the mail server requires authentication with that server. The authentication will typically be to the name and password of a mailbox account configured on that server.

- Account Name Sets the name to use for authentication.
- Password
 Set the password to use for authentication.
- User Challenge Response Authentication (Cram MD5)
 If this check box is selected, the name and password are sent using Cram MD5.
- 6. Click OK.
- 7. Click Save and Make Live.

2.5.2 MAPI Setup

2.5.2.1 Domain Member

Before you start to install the Voicemail Pro software, you must:

- 1. Create a Voicemail Domain Account 50.
- 2. Configure Outlook for Internet Mail 56.

You are then ready to install Voicemail Pro for MAPI Voicemail Email as a Domain Member. This involves the following key stages:

- 1. <u>Install the Voicemail Pro Software 52</u>
- 2. Switch Voicemail Pro to MAPI 52.

2.5.2.1.1 Creating a Voicemail Domain Account

- 1. Make sure that the PC that will be running the voicemail server is a member of the domain. To join the domain you will need the use of a log account with administrative permissions on the domain as well as the server PC, consult the domain administrator.
- 2. On the Exchange server:
 - Create an account called Voicemail on the domain and an associated mailbox.
 - Provide a secure password.
 - Check the User Cannot Change Password and Password Never Expires boxes.
- 3. Log on to the voicemail server PC using a domain administrator account.
- 4. From the Control Panel, select Administrative Tools.
- 5. Select Computer Management | Local Users and Groups | Groups.
- 6. Double-click Administrators and select Add.
- 7. From the Look In list select the domain name.
- 8. In the Name window, locate and highlight Voicemail. Click Add followed by OK and OK to close.

2.5.2.1.2 Configuring Outlook for VoiceMail Email

- 1. On the desktop, right-click the Outlook icon and select Properties.
- 2. On the General tab, select Add.
 - a. Select Microsoft Exchange Server.
 - b. Click Next.
 - c. In the Server field, enter the name of the Exchange Server.
 - d. In the Mailbox field, enter Voicemail.
 - e. Click Next.
 - f. When you are asked if you travel with this computer, select No.
 - g. Click Next.
 - h. Click Finish.
- 3. Highlight the MS Exchange Settings and click Properties.
 - a. Highlight Microsoft Exchange Server and click Properties.
 - b. Click Check name and ensure that the name is resolved.
 - c. If the name is resolved, select Apply.
 - d. Click OK, OK and Close to shut the mail settings.
- 4. Do not continue until the name has been resolved correctly with the Exchange Server. If the name is not resolved, check the account details with the Exchange Administrator.
- 5. Open Outlook and select Yes to register Outlook as the default email application.
 - a. Select Tools > Options.
 - b. Click the Preferences tab.
 - c. Click Email Options.
 - d. Uncheck Save copies of messages in Sent I tems folder.
 - You might want this option selected during initial setup to aid troubleshooting. However due to the size of wav
 file message attachments you should uncheck it after installation testing is completed.
- 6. Log on to the Voicemail Pro Server PC using the voicemail account.
- 7. From Outlook, send a message direct to an extension user.
- 8. If this message is received correctly, you can continue installing the Voicemail Pro software. See <u>Installing the Voicemail Pro Software 52</u>.

2.5.2.1.3 Installing the VoiceMail Pro Software

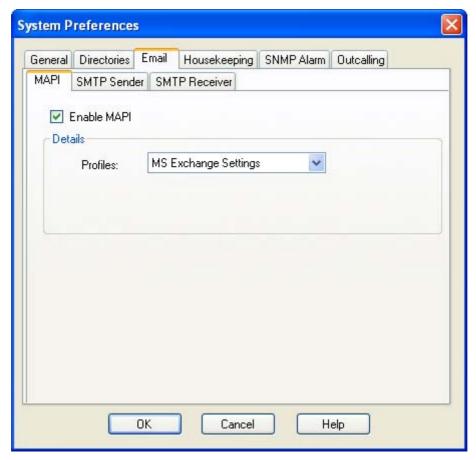
- 1. Log off and log back on using the Voicemail account and password.
- 2. Install the required Voicemail Pro software.
- 3. When the installation process requests a User Name and Password for the Voicemail Pro service, enter the Voicemail account details.
- 4. Restart the server PC when requested and log on using the Voicemail account.
- 5. When SMTP email details are requested, enter no values and ignore the error message following the SMTP check.
- 6. Start the Voicemail Pro Service 26
- 7. Check that the basic voicemail services start and operate correctly.
- 8. Switch Voicemail Pro to MAPI 52.

2.5.2.1.4 Switching VoiceMail Pro to MAPI

By default, the Voicemail Pro server is configured for SMTP email mode. However, MAPI settings are entered it will switch to MAPI mode. Some options are not available if you are working offline. You must be working online to use this feature.

To select the server email mode

- 1. Start the Voicemail Pro Client.
- 2. Click Preferences and select General.
- 3. Click the Email tab
- 4. Select the MAPI sub tab. Set the settings to match a MAPI account already configured and able to send emails from the MAPI client on the voicemail server.



- Enable MAPI Selecting this option will switch the voicemail server to using MAPI for its email options rather than SMTP.
- Profile
 This is used to select the MAPI email account the voicemail server should use to provide visibility to the email account mailboxes for which it requires access. The profile must exist within the MAPI email client on the server PC and must be useable by the Windows account under which the Voicemail Pro service is running.
- 5. Click OK.

6. Click Save and Make Live.

2.5.2.2 Work Group Member

Before you start to install the Voicemail Pro software, you must:

- 1. Create a Voicemail User Account 54.
- 2. Configure Outlook Express for Internet Mail 55.
- 3. Configure Outlook for Voicemail Email 514.
- 4. Configure Outlook for Exchange Server 57.

The user name and password created are requested as part of the installation of the Voicemail Pro service. The process described here assumes that Outlook is installed but has not been previously used or configured.

You are then ready to install the Voicemail Pro software. See <u>Installing the Voicemail Pro Software 52</u>

By default, Voicemail Pro is set to use SMTP for emails. You need to change this to MAPI. See Switching Voicemail Pro to MAPI 524.

You also need to set the SMTP Email Account settings on the Voicemail Pro so that they match those of the customer's email server. See Changing SMTP Email Account Settings 59.

2.5.2.2.1 Installing VoiceMail Pro for MAPI VoiceMail Email as a Work Group Member

Before you start to install the Voicemail Pro software, you must:

- 1. Create a voicemail user account. See Creating a Voicemail User Account 54.
- 2. Configure Outlook Express for Internet Mail. See Configuring Outlook Express for Internet Mail 55.
- 3. Configure Outlook for internet mail. See Configuring Outlook for Voicemail Email 514.
- 4. Configuring Outlook for exchange server. See Configuring Outlook for Exchange Server 57.

The user name and password created are requested as part of the installation of the Voicemail Pro service. The process described here assumes that Outlook is installed but has not been previously used or configured.

You are then ready to install the Voicemail Pro software. See Installing the Voicemail Pro Software 524.

By default, Voicemail Pro is set to use SMTP for emails. You need to change this to MAPI. See , Switching Voicemail Pro to MAPI 524.

You also need to set the SMTP Email Account settings on the Voicemail Pro so that they match those of the customer's email server. See Changing SMTP Email Account Settings 59.

2.5.2.2.2 Creating a Voicemail User Account

To create a Voicemail User Account

- 1. Log on to the server PC as the local administrator and create a new user. For this example the name of the user account created used is Voicemail.
- 2. Set a secure password.
- 3. Clear User must change password at next logon and check Password never expires.
- 4. Click Create and then Close.
- 5. Right-click the New Account, and select Properties.
- 6. Select the Member Of tab.
- 7. Click Add.
- 8. In the Select Groups window, highlight Administrators and click Add. Click OK.
- 9. Continue with one of the following as appropriate to the installed MAPI client and method for sending email.

2.5.2.2.3 Configuring Outlook Express for Internet Mail

To configure Outlook Express for Internet Mail

- 1. Click the Outlook Express icon to start the Configuration wizard.
- 2. In the Display name box enter Voicemail.
- 3. Click Next.
- 4. Select I already have an e-mail address that I'd like to use and enter the address in E-mail address, eg. voicemail@example.com. Click Next.
- 5. Enter the name or address of the Incoming mail server and the Outgoing mail server. Note, if you enter the name, you must ensure that the voicemail PC has the correct IP address of the DNS Server configured.
- 6. Click Next.
- 7. Enter the email account name and password, for example Voicemail. Select Remember password.
- 8. Click Next.
- 9. Click Finish to complete the wizard.
- 10. Open Outlook Express and select Tools > Options.
- 11. Click the General tab.
 - · Uncheck Send and Receive messages at Start up.
 - Uncheck Check for new messages every.
- 12. Select the Send tab.
 - Uncheck Save copy of sent messages in the 'Sent Items' folder.
 - · Check Send messages immediately.
 - Under Mail Sending Format select Plain Text.
- 13. Click OK.
- 14. Log on to the server PC using the account that will be used for the Voicemail Pro server.
- 15. From Outlook or Outlook Express, send a message direct to an extension user.
- 16. If this message is received correctly, continue with installing the Voicemail Pro software.

2.5.2.2.4 Configuring Outlook for Internet Mail

For the installation of Outlook to work correctly, the following setup process must be followed. Outlook can be configured in two ways. Using the Wizard, prior to completing the steps below will cause Outlook not to send the messages correctly.

To configure Outlook for Internet Mail:

- 1. Right-click the Outlook icon on the desktop and select Properties.
- 2. Select Add.
- 3. Select Internet Email and click OK.
- 4. For the Mail Account, enter Voicemail.
- 5. For User Information enter Voicemail as the Name and for the Email address enter your address, for example. voicemail@example.com.
- 6. Select the Servers tab. Enter the name or IP address of the Outgoing mail server and Incoming mail server.
- 7. The Incoming Mail Server details can be left blank as Outlook does not need to check for mail. Otherwise, enter the account name and password for example, *Voicemail*. Select Remember password.
- 8. Select the Connection tab. Select Connect using my local area network (LAN). Click Next.
- 9. Click OK.
- 10. Click Next.
- 11. Accept the default path for file creation.
- 12. Select Next, then Finish and then Close.
- 13. Open Outlook.
- 14. On the Email Service Option Screen, select Internet Only.
- 15. Click Next.
- 16. Select Yes to register Outlook as the default email application.
- 17. Select Tools > Options.
- 18. Click the Preferences tab.
- 19. Click Email Options
- 20. Uncheck Save copies of messages in Sent I tems folder.
 - You might want this option selected during initial setup and troubleshooting. Due to the size of wav file
 message attachments it is advisable to uncheck it after installation is complete.
- 21. Log on to the server PC using the account that will be used for the Voicemail Pro server.
- 22. From Outlook or Outlook Express, send a message direct to an extension user.
- 23. If this message is received correctly, continue with installing the Voicemail Pro software.

2.5.2.2.5 Configuring Outlook for Exchange Server

This option may be configured if Outlook is to be configured to connect to the Exchange Server, using a valid user name and password, while the Voicemail PC remains a member of a work group.

To configure Outlook for Exchange Server:

- 1. Create a new mailbox on the Exchange Server, for example *Voicemail*, and assign it the same password as has been configured on the voicemail PC.
- 2. Clear User must Change password at Next Logon and select Password Never Expires.
- 3. On the voicemail PC, logon with the Voicemail account.
- 4. Right-click the Outlook icon on the desktop and select Properties.
- Select Add.
- 6. Highlight Microsoft Exchange Server and click OK.
- 7. Type in the Microsoft Exchange Server name and enter Voicemail in the Mailbox field.
- 8. Highlight the MS Exchange Settings, Click Properties.
- 9. Highlight Microsoft Exchange Server. Click Properties.
- 10. Click Check name and ensure the name is resolved.
- 11. If the name is resolved, select Apply. Click OK, OK and Close to shut the Mail settings.
- 12. Do not continue until the name has been resolved correctly with the Exchange Server. If the name is not resolved, check the account details with the exchange administrator.
- 13. Open Outlook and select Yes to register Outlook as the default email application.
- 14. Select Tools > Options.
- 15. Choose the Preferences tab. Click Email Options.
- 16. Uncheck Save copies of messages in Sent I tems folder.
 - You may want this option selected during initial setup and troubleshooting. Due to the size of wav file message attachments deselect it once installation is complete.
- 17. Log on to the server PC using the account that will be used for the Voicemail Pro server.
- 18. From Outlook or Outlook Express, send a message direct to an extension user.
- 19. If this message is received correctly, continue with installing the Voicemail Pro software.

2.5.2.2.6 Installing the VoiceMail Pro Software

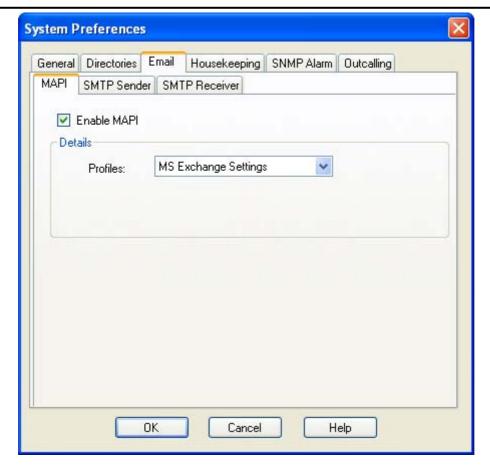
- 1. Log off and log back on using the Voicemail account and password.
- 2. Install the required Voicemail Pro software.
- 3. When the installation process requests a User Name and Password for the Voicemail Pro service, enter the Voicemail account details.
- 4. Restart the server PC when requested and log on using the Voicemail account.
- 5. When SMTP email details are requested, enter no values and ignore the error message following the SMTP check.
- 6. Start the Voicemail Pro Service 26
- 7. Check that the basic voicemail services start and operate correctly.
- 8. Switch Voicemail Pro to MAPI 52

2.5.2.2.7 Switching VoiceMail Pro to MAPI

By default, the Voicemail Pro server is configured for SMTP email mode. However, MAPI settings are entered it will switch to MAPI mode. Some options are not available if you are working offline. You must be working online to use this feature.

To select the server email mode

- 1. Start the Voicemail Pro Client.
- 2 Click Preferences and select General.
- 3. Click the Email tab.
- 4. Select the MAPI sub tab. Set the settings to match a MAPI account already configured and able to send emails from the MAPI client on the voicemail server.



- Enable MAPI Selecting this option will switch the voicemail server to using MAPI for its email options rather than SMTP.
- Profile This is used to select the MAPI email account the voicemail server should use to provide visibility to the email account mailboxes for which it requires access. The profile must exist within the MAPI email client on the server PC and must be useable by the Windows account under which the Voicemail Pro service is running.

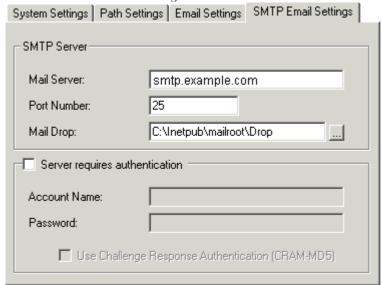
5. Click OK.

6. Click Save and Make Live.

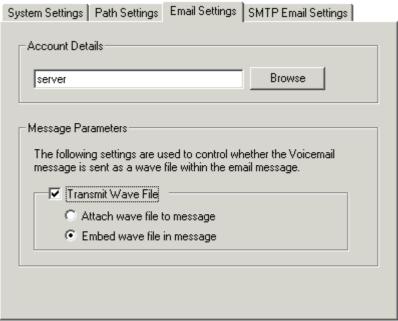
2.5.2.2.8 Changing SMTP Email Account Settings

To change SMTP Email Account Settings:

- 1. Open the Windows Control Panel.
- 2. Select IP Office Voicemail Pro.
- 3. Select the SMTP Email Settings tab.



- 4. Enter the settings to match the customer's email server and the email account configured on that server for the Voicemail Pro service.
- 5. Click the Email Settings tab.

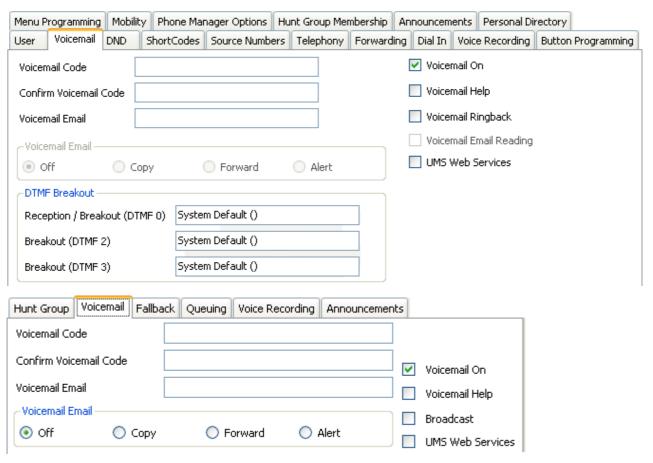


- 6. Enter the email address for the account setup on the customer's email server for the Voicemail Pro service.
- 7. Click Check to test the connection to the specified email account.
- 8. Click OK.

2.5.3 Voicemail Email Operation

2.5.3.1 User and Group Configuration

The email address for each user and hunt group is set through the IP Office configuration.



- Voicemail Email: Default = Blank (No voicemail email features)
 This field is used to set the user or group email address used by the voicemail server for voicemail email operation. When an address is entered, the additional Voicemail Email control below are selectable to configure the type of voicemail email service that should be provided.
 - Use of voicemail email requires the voicemail pro server to have been configured to use either a local MAPI email client or an SMTP email server account. See <u>Voicemail Email Installation</u> 46.
 - The use of voicemail email for the sending (automatic or manual) of email messages with wav files attached should be considered with care. A one-minute message creates a 1MB .wav file.
- Voicemail Email *Default = Off*

If an email address is entered for the user or group, the following options become selectable. These control the mode of automatic voicemail email operation provided by the voicemail server whenever the voicemail mailbox receives a new voicemail message.

- Users can change their voicemail email mode using visual voice. If the voicemail server is set to IP
 Office mode, user can also change their voicemail email mode through the telephone prompts. The
 ability to change the voicemail email mode can also be provided in a call flow using a Personal
 Options Menu action or a Generic action.
- If the voicemail server is set to IP Office mode, users can manually forward a message to email.
- Off

If off, none of the options below are used for automatic voicemail email. Users can also select this mode by dialing $*\mathcal{O}3$ from their extension.

Copy

If this mode is selected, each time a new voicemail message is received in the voicemail mailbox, a copy of the message is attached to an email and sent to the email address. There is no mailbox synchronization between the email and voicemail mailboxes. For example reading and deletion of the email message does not affect the message in the voicemail mailbox or the message waiting indication provided for that new message.

- Forward
- If this mode is selected, each time a new voicemail message is received in the voicemail mailbox, that message is attached to an email and sent to the email address. No copy of the voicemail message is retained in the voicemail mailbox and their is no message waiting indication. As with Copy, their is no mailbox synchronization between the email and voicemail mailboxes. Users can also select this mode by dialing *01* from their extension.
 - UMS Exchange 2007
 Voicemail Pro 5.0+ supports voicemail email to an Exchange 2007 server email account. For users and groups also enabled for UMS Web Services this significantly changes their mailbox operation. The Exchange Server inbox is used as their voicemail message store and features such as message waiting indication are set by new messages in that location rather than the voicemail mailbox on the voicemail server. Telephone access to voicemail messages, including Visual Voice access, is redirected to the Exchange 2007 mailbox. See UMS Exchange 2007 Installation 4th and UMS Exchange 2007.
- Alert

If this mode is selected, each time a new voicemail message is received in the voicemail mailbox, a simple email message is sent to the email address. This is an email message announcing details of the voicemail message but with no copy of the voicemail message attached. Users can also select this mode by dialing *02 from their extension.

2.5.3.2 How Voicemail Email Messages Look

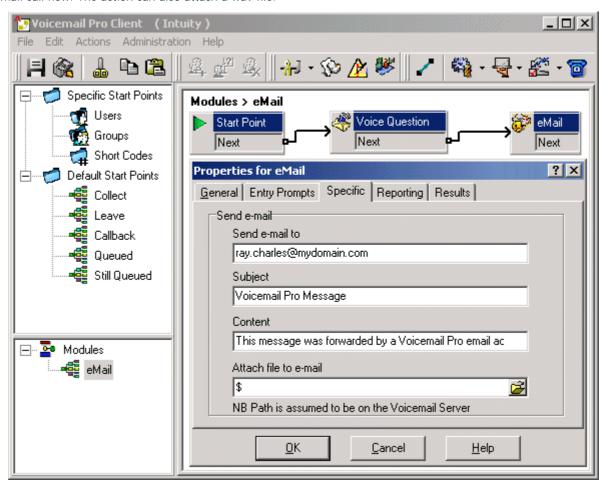
Messages sent by a user or group's voicemail email settings contain the following:

- To The user/group email address.
- The user/group email address
- The name and address setting of the email client account.
- Subject
 Voicemail Message ('calling number' > 'user name') From: 'calling number'.
- Body
 If the user or group's Voicemail Email mode is set to Copy or Forward, the message body will contain "IP Office Voicemail redirected message".
- Attachment
 When using Copy or Forward mode, the message is attached as a wav file.

Messages sent via a Voicemail Pro eMail action are configurable, see The Voicemail Pro eMail Action 62.

2.5.3.3 The Voicemail Pro Email Action

The eMail action in Voicemail Pro can be used to send messages via email in response to caller actions in the voicemail call flow. The action can also attach a way file.



In the example above, the eMail action follows a Voice Question action. The \$ in the eMail action's Attach file to email field instructs it to use the file recorded by the preceding Voice Question action.

The same method can be used with a Leave Mail action. Note however that the Leave Mail action must be set to a valid target mailbox which will then have a copy of the message.

Alternatively, the eMail action can attach a prerecorded wav file by specifying the file name. That named file can be created by an Edit Play List action.

2.6 Text to Speech (TTS) Installation

The Voicemail Pro server is able to use Text to Speech (TTS) in the following ways:

- Speak text in call flows using the Speak Text action. The text can include variables passed from other actions including database actions.
- When installed in parallel with Voicemail Email 46, TTS can be used to provide email reading 64 to selected mailbox users.
- TTS can be used by the Voicemail Pro client user to record prompts used by call flow actions.

TTS Licensing

Voicemail Pro TTS requires the server PC to have a Microsoft SAPI 5 compatible TTS engine installed and a valid license entry.

- Email Reading
 - This feature is supported by the Voicemail Pro server's standard Preferred Edition license. Users who want to use this feature must have their user profile configured as either *Mobile User* or *Power User* using Mobile User Profile or Power User Profile licenses.
- Speak Text Actions / Prompt Recording
 The license for this operation depend on whether you will be using the Avaya supplied ScanSoft TTS speech engines or a 3rd party generic TTS speech engines (including the TTS speech engines included in Microsoft operating systems).
 - Generic TTS
 The use of up to 8 simultaneous generic TTS ports is enabled by the Advanced Edition license. Alternatively separate VMPro TTS (Generic) licenses can be added.
 - Avaya ScanSoft TTS
 The use of the Avaya supplied ScanSoft TTS engines is licensed by the addition of VMPro TTS (ScanSoft) licenses to the IP Office configuration.

If both generic TTS and ScanSoft TTS licenses are added, both TTS engines will be used for calls on a first-come first-served basis. The TTS engine used for particular calls cannot be controlled. Therefore we recommend that only one type of TTS engine is licensed within a system.

Languages

For Voicemail Pro 5.0 and higher, the supplied ScanSoft TTS software now supports the same set of languages as Voicemail Pro speech prompts except for Hungarian. If more than one TTS language is installed, a Select System Prompt Language action can then be used to switch TTS to a different language from the selected default.

- Installation on Windows Server Operating Systems
 On many Windows server PC's, while the Windows Audio components are present by default they are not always enabled. If this is the case the playback of voice prompts may be 'choppy' and the TTS (if installed) will not work. However, enabling Windows Audio does not require the server PC to have a sound card installed.
 - 1. Ensure that you have full administrator rights for the PC. This process will also require the PC to be restated.
 - 2. In the Windows Control Panel select Sounds and Audio Devices.
 - 3. If Windows Audio has not been enabled, select the Enable Windows Audio check-box.

2.6.1 Installing Generic Text to Speech

To install Text to Speech:

- 1. Install and test Voicemail Pro as normal.
- 2. Using IP Office Manager, add the Advanced Edition or VMPro TTS (Generic) license into the IP Office configuration. Send the new configuration to the IP Office system.
- 3. Reload the IP Office configuration into IP Office Manager and check that the status of the license has changed to Valid
- 4. The Voicemail Pro installation includes the default Microsoft TTS engines (Microsoft Sam, Mike, Mary and Simplified Chinese) as standard. If another third-party SAPI 5 compatible TTS engine is going to be used, install that software.
- 5. If the system is licensed for generic TTS, Voicemail Pro will automatically discover any SAPI 5 installed engine. If there is no 3rd party engine installed then the Microsoft 3rd party engine is used.

2.6.2 Installing Avaya Text to Speech

The Avaya TTS engine for Voicemail Pro is supplied on separate DVD's (x2) from the Voicemail Pro software .

To install Avaya Text to Speech:

- 1. Install and test Voicemail Pro as normal.
- 2. Using IP Office Manager, add the VM Pro TTS (ScanSoft) license into the IP Office configuration. Send the new configuration to the IP Office system.
- 3. Reload the IP Office configuration into IP Office Manager and check that the status of the license has changed to Valid
- 4. Insert the first Avaya TTS DVD. The installation should auto-start.
- 5. Follow the prompts and install the required languages.
- 6. If the system is licensed for Avaya TTS, the ScanSoft engine is automatically used.

2.6.3 Setting Up Text To Speech to Read Email

In conjunction with MAPI email clients and Exchange server, TTS can be used to read new e-mails in a user's email inbox when they access their voicemail mailbox.

- The Voicemail Pro server must have been installed and configure to support voicemail email using a MAPI client 46
- Email reading can only be enabled for IP Office users whose Profile setting is set to Mobile User or Power User. That requires the IP Office to have Mobile User Profile or Power User Profile licenses.
- This feature is supported only for Intuity mode. Users hear their new voicemail messages and then the number of "Messages with text". Before each email is spoken, details of who it is from, when the message was sent and the size are given. This allows large or non-urgent e-mails to be skipped.
- Email reading cannot be used for e-mails in HTML format. If HTML messages are received, all of the code will be read out as a message.
- 1. Within the IP Office configuration, display the settings for the user.

2. On the User tab, set the user's Profile to either Mobile User or Power User.



3. On the Voicemail tab



- Voicemail Email Enter the user's email address.
- Voicemail Email Reading Enable this option for TTS email reading.

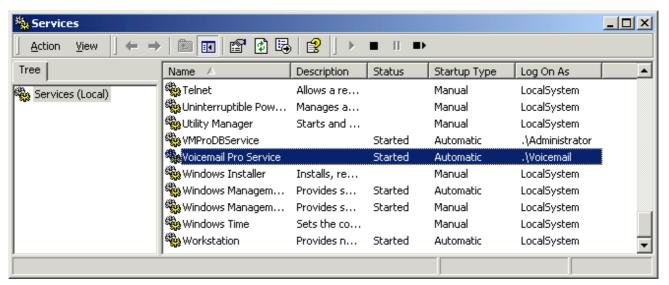
2.7 Troubleshooting

2.7.1 Checking the Voicemail Pro Service

If Voicemail Pro has been installed successfully, if the server PC has been rebooted then the voicemail service is started automatically. However it is useful know how to check the services and to manually restart them if necessary.

To check/restart the Voicemail Pro Service:

- 1. Open the Windows Control Panel.
- 2. Select Administrative Tools > Services.



- 3. The Voicemail Pro Service should be visible. Its Status should be Started and the Startup Type should be set to Automatic. Other services may be present depending on the Voicemail Pro options installed. The possible services are:
 - Voicemail Pro Service
 This is the main Voicemail Pro service. Normally this is the only service that needs to be stopped and restarted. It will stop and restart the other services that it uses.
- 4. Close Services.

Setting the Voicemail Services or PC to Restart Automatically

The following action is optional. If there is some fault causing the Voicemail Pro service to halt, that fault should be investigated and fixed, however having the service or PC automatically restarted if possible will minimize the disruption to the Voicemail Pro users.

- 1. Use the Windows control panel to select the Voicemail Pro Service.
- 2. Right-click on the service and select Properties.
- 3. Select the Recovery tab.
- 4. Use the options presented to either restart the service and or restart the PC should the operating system detect that the Voicemail Pro service has halted.

Using a Batch File to Start Services

In some instances, certain computers might not respond quickly enough in order to start all of the Avaya services in the correct order. In this circumstance, it can be advisable to create a batch file which will delay the start of these services until the PC is fully running.

Avaya IP Office Services can be started successfully at system start-up using a scheduled task that initiates the batch file below. This batch file ensures that the services will start successfully and in the proper order.

- 1. Set all Avaya services listed below to Manual start. Do not include Key Server.
- 2. Create the batch file below and save it to %SYSTEMROOT%. Only include lines for the services which are installed.

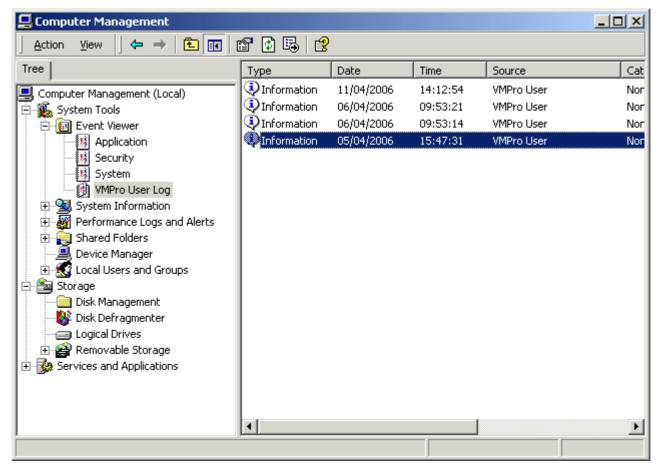
@echo off
rem Wait 60 seconds before execute.
timeout /t 60
net start Voicemail Pro Service

3. Create a scheduled task to start the batch file at system start-up.

2.7.2 Voicemail Pro User Log

User authentication failures are logged in the event viewer, under VMPro User Log. The following details are logged:

- UserID
- · Tool name
- IP address of the Client trying to log in.

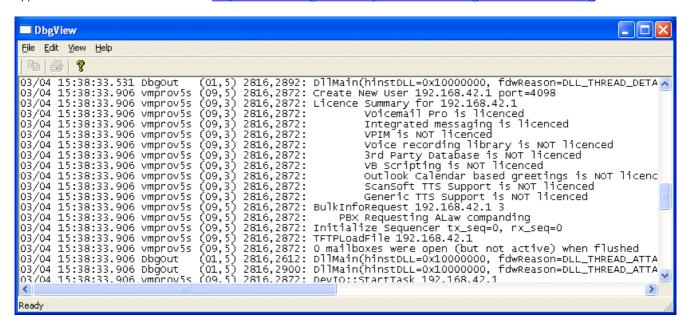


To view the log details:

- 1. From the Control Panel, select Administrative Tools > Computer Management. The Computer Management window opens.
- 2. In the System Tool directory, view the Event Viewer.
- 3. Click VMPro User Log to view the details.

2.7.3 Tracing in Debug

Many applications, including Voicemail Pro, output activity messages that are viewable in Debug View (DbgView). This application can be downloaded from http://marketingtools.avaya.com/knowledgebase/tools/debug.



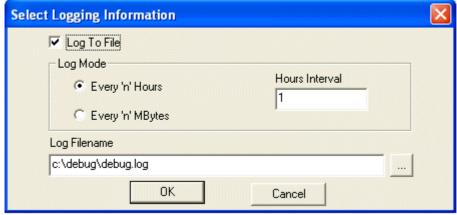
Installation

- 1. Download the zip file.
- 2. Unpack the files into a folder such as c:\debug on the server PC.
- 3. Run DbgView.exe.
- 4. Events are shown in the DbgView window. These can be logged to a file if required. The level of detail shown can be filtered to show more or less activity.

Logging

1. Run DbgView.exe.

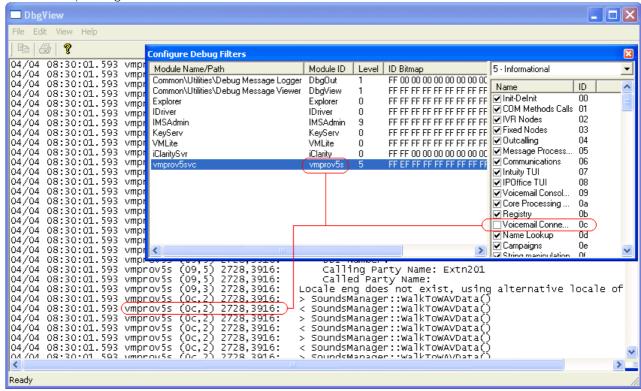




- 3. Set the logging details are required and click OK.
- 4. While DbgView is running the viewable trace is also copied to the specified file.
- 5. The debug log files can be opened in programs such as WordPad.

Filtering

1. Select View | Debug Filters.



- 2. Select the module for which you want to increase/decrease reporting.
- 3. In the right hand panel adjust the level of reporting.
- 4. Close the Configure Debug Filters window.

2.7.4 The Voicemail Console

The voicemail console mode (that is running as the voicemail service in Interact with desktop mode) is no longer used. Running services in this mode is not supported by Microsoft on Vista or Server 2008.

Instead you should use the debug viewer 69 to view voicemail server activity as it occurs.

Chapter 3. Linux Server Installation

3. Linux Server Installation

A Voicemail Pro server is one of the Linux components installable as part of the IP Office Application Server DVD installation. That process is covered separately in the IP Office Application Server documentation.

- The license requirements 10 on the IP Office system for supported voicemail features are the same.
- Configuration of the IP Office configuration 80 settings for voicemail is not affected by whether the server is Windows or Linux based.
- Configuration of the voicemail server setting is still done using the Windows based Voicemail Pro client application. The client can be downloaded from the Linux server for installation on a Windows client PC.

Mixing Linux and Windows Servers

In scenarios where multiple Voicemail Pro servers are used, see Centralized Voicemail Pro, a mix of Linux and Windows based servers can be used.

Linux Server Feature Support

For a Voicemail Pro 7.0 server running on a Linux based server, the following Voicemail Pro features are currently not supported:

• VB Scripting.

- UMS Web Voicemail (IMAP or one-X Portal are available as alternatives).
- TTS Text to Speech.
- 3rd Party Database Integration.

- MAPI Email.
- VPNM.
- UMS Exchange Integration.
- · ContactStore for IP Office.

When logged into the voicemail server using the Voicemail Pro client, those features not supported are grayed out or hidden. If those features are present in an imported call flow, they will not function and calls attempting to use those features will be disconnected.

For Small Community Network scenarios where multiple voicemail servers are present, for example distributed and backup server, a mix of Linux based and Windows based servers are allowed.

Chapter 4. Using the Voicemail Pro Client

4. Using the Voicemail Pro Client

The Voicemail Pro client is used to administer the Voicemail Pro server. This section covers the basic operation of the Voicemail Pro client to connect to a Voicemail Pro server. Full details of administration using the client are covered in the "IP Office Voicemail Pro Administration" manual.

For a Windows based server, the client can be installed on the same server and used locally to administer the server. The client can also be installed separately on another Windows PC and then be used to remotely administer the server.

For a Linux based server, the client must be installed on a separate Windows PC and then be used to remotely administer the server.

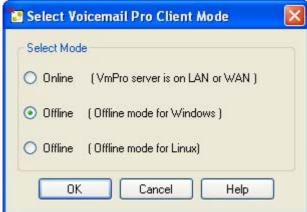
4.1 Logging in to the Voicemail Pro Server

If you start the Voicemail Pro client on the same computer as the voicemail server, it will assume that you wish to manager the server and will automatically load its settings. You will have full access to all the servers settings, you do not need to login with an administrator account name and password.

To connect to a remote voicemail server you will need to login using the name and password of an administrator account already configured on that server. The default account is *Administrator* and *Administrator*. After logging in with this account you should change the password from that default value.

To Start the Voicemail Pro Client

- 1. From the Start menu, select Programs | IP Office | Voicemail Pro Client.
- 2. The Voicemail Pro Client window opens.
 - If the client has been started before, it will attempt to start in the same mode as it previously used. If it cannot do that or it is the first time the client has been started, the select mode menu is displayed.

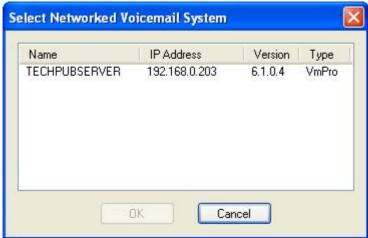


- Select either of the Offline modes in order to import and export voicemail call flow and module files without being connected to any voicemail server. In the Offline mode for Linux, those call flow options not supported by a Linux base voicemail server are grayed out.
- To connect to a voicemail server select Online.

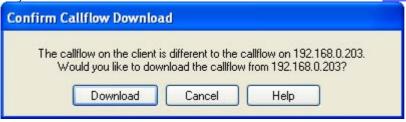


- Enter the name and password for an administrator account on the voicemail server.
 - Note that these are not required is accessing a voicemail server on the same PC as the client.

- The default account is *Administrator* and *Administrator*. After logging in with this account you should change the password from that default value.
- If 3 unsuccessful logins are attempted using a particular administrator account name, the account is locked for an hour.
- In the Unit Name\IP Address field enter the DNS name or IP address of the voicemail server.
- Alternatively click on Browse to search the local network for a server and select a server from the results.



3. If connection to a remote server, the following menu may appear. If you select Download, any existing call flow you may have loaded in the client will be overwritten. For more details see <u>Callflow Download</u> 76.



- 4. If this is the first time that the voicemail server has been logged into, you should first change the default remote access account.
 - If you logged in remotely using the default account, select File | Change Password.
 - If you logged in locally, select Voicemail Pro Administrators in the navigation panel.dd

4.2 Confirm Call Flow Download Window

When you connect to a server across a LAN or WAN to view or modify the call flow on the server, a check is made to see if the call flow that is stored locally on the client is the same. The call flow on the server might be different to the call flow on the client because:

- The local call flow is older than the version on the server, for example if the call flow on the server has been modified by another Client connection.
- The local call flow is newer than the version on the server, for example if the call flow on the server has been worked on while the local Client was being used in offline mode.
- The local call flow is from a different server, for example if you are connecting to a different server to the one from which the call flow was previously downloaded.

If the call flow is the same, no data will need to be copied from the server to the client. If the call flow is different you can chose to download the call flow from the server or to use the local call flow.



- Download Click to download the call flow from the server.
- Cancel
 Click this if you do not want to download the call flow from the server.

To upload the local call flow to the server, use the Save or Save and Make Live options from the File menu. See <u>Saving Changes and Making them Live</u> 7.

4.3 Continue Offline Message Window

Only one Voicemail Pro client can be connected to a voicemail server at any time. To avoid access to the server being blocked by a session of Voicemail Pro client that has been left connected, a <u>Client/Server Connection Timeout (mins)</u> 93 setting is used to disconnect idle client session. By default the timeout is set to 5 minutes.

If your Voicemail Pro client session has timed out, the Voicemail Pro client will prompt you whether it should attempt to reestablish the session or close. You are then able to continue working in offline mode or to close the client.

4.4 Saving Changes and Making them Live

The call flow settings shown and edited using the Voicemail Pro client are stored in a database file (Vmdata.mdb) on the voicemail server. However, when edited, the changes are not automatically applied to the operation of the voicemail server. Instead the database file must be converted to a separate file (Root.vmp), that being the file that is used by the voicemail server for its current operation.

To Save the Configuration and Make It Live

- 1. Choose Save & Make Live to save the settings as the Root.vmp file used by the voicemail server.
 - If you are working remotely in Offline mode, you will be prompted to select whether to save your changes to the local database or to the remote server.

To Save the Configuration to a File Without Making It Live

Call flow settings can be saved to a .vmp file and then included in the operation of another voicemail system.

1. Choose Save as to save the database as a .vmp file with the name that you specify. You can then copy the file to other systems.

4.5 Logging Out

It can be useful to connect to a system to download the current system configuration and then disconnect and make changes offline. You can then test configuration changes offline before applying them to a live system.

- Logging out is not the same as closing down with the Exit option. See Closing Down 77.
- If the Client and Server are installed on the same machine, the Log Out option is not available.

To Log Out

- 1. From the File menu, select Log Out.
- 2. You are logged out of the Voicemail Pro server and placed in offline mode. You can either make configuration changes offline and then log back in when you are ready or log on to a different server to work. See <u>Logging in to the Voicemail Pro Server</u> 74.

4.6 Closing Down

When you have finished working, you can close down the Voicemail Pro Client.

To Close the Voicemail Pro Client

- 1. From the File menu, select Exit.
- 2. If you have not made any changes, the Voicemail Pro Client closes and you are returned to the desktop. If you have made changes, a message is displayed to ask whether you want to save them.
- 3. If you do not want to save your changes, click No. No changes are saved. If you want to save your changes, click Yes. Your changes are saved but not yet made live.
- 4. If you are ready to make your changes live, click Save & make Live.

Chapter 5. IP Office Configuration

5. IP Office Configuration

The default IP Office configuration settings allow almost immediate voicemail operation as soon as a voicemail server is running on the LAN. Those default settings are:

- Voicemail running on a PC accessible by the IP Office using a broadcast address of 255.255.255.255.
- · Voicemail on for each user and hunt group on.
- No Voicemail Code set for any mailboxes. Until a code is entered for a mailbox, it can only be accessed from the user's own extension.
- No Voicemail Email or Voicemail Help operation.
- No Voicemail Reception numbers set for user mailboxes.
- Hunt group mailboxes are created and used by default but there is no default message waiting indication or method for collecting messages. A method for accessing each hunt group mailbox should be programmed.

5.1 User and Group Mailboxes

The voicemail server creates mailboxes based on the user and hunt group names that are entered in the IP Office Manager application. Whenever the Voicemail Pro is restarted or the IP Office configuration is changed, new mailboxes are created for any new names that are found.

This method of operation has the following consequences:

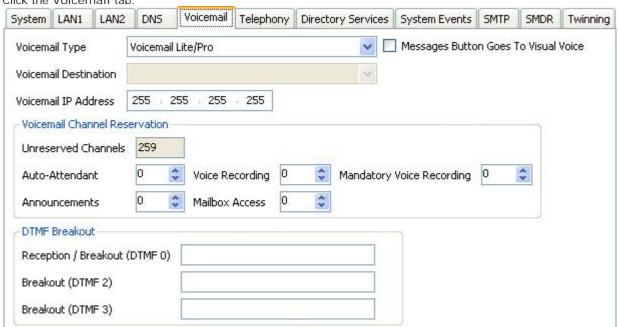
- Mailboxes are based on names
 For all users and groups, if their name is changed or deleted, they are no longer associated with their former mailbox and any associated Voicemail Pro start points.
- Voicemail is case sensitive
 If a mailbox or start point name is entered incorrectly in IP Office Manager or Voicemail Pro, the intended operation will not occur and the call may be disconnected.
- Voicemail removes spaces at the end of mailbox names
 If spaces are left at the end of a mailbox user's name in IP Office Manager, when the mailboxes are created, the space at the end of the name is dropped. When this occurs the mailbox cannot be found as there is a mismatch between the user name and directory.

5.2 System Settings

The IP Office can work with several different types of voicemail server. Therefore it is important to check that it is configured for operation with Voicemail Pro.

1. In IP Office Manager, select System.

2. Click the Voicemail tab.



- Voicemail Type
 - Specifies the type of voicemail system the IP Office is configured to work with. Unless detailed otherwise, the option *Voicemail Lite/Pro* should be used with Voicemail Pro server. Additional options are displayed depending on the selected voicemail type.
 - <u>Centralized Voicemail</u>

 113

 113

This setting is used for remote systems in a Small Community Network where the central voicemail server is being hosted by another IP Office. The Voicemail Destination field below is used to enter the Outgoing Group ID of the SCN trunk to the IP Office hosting the central voicemail server.

- <u>Distributed Voicemail [117]</u> (Software level = IP Office Release 6)
 This option is used in a Small Community Network for remote IP Offices which want to be associated with their own voicemail server in addition to the central voicemail server. The IP Office will require licenses for Voicemail Pro operation and for the voicemail features required. The Voicemail IP Address below is used to enter the IP address of the IP Office's voicemail server while the Voicemail Destination field below is still used to set location of the central voicemail server as for centralized voicemail.
- Embedded Voicemail
 Not used with Voicemail Pro.
- Group Voicemail
 Not used with Voicemail Pro.
- Remote Audix Voicemail
 Not used with Voicemail Pro
- Voicemail Lite/Pro
 This is the normal setting used for Voicemail Pro.
- Voicemail IP Address

By default the IP Office connects to the Voicemail Pro server by using the address 255.255.255.255 to broadcast for any server on the same LAN as itself. When it receives a response it will use that voicemail server. However it may be necessary or desired to set this access to an exact address. Change the default address (255.255.255.255) to the IP address of the PC on which the Voicemail Pro server is running.

- For configuration of IP Office systems using centralized Voicemail Pro in an IP Office Small Community Network (SCN) see <u>Centralized Voicemail Pro [112]</u>.
- Message Button Go To Visual Voice

Many Avaya phones have a fixed button labeled MESSAGES which can be used by the phone user to access their mailbox. If this option is selected, then on phones able to support Visual Voice, visual voice is used when the button is pressed rather than the standard voice prompt interface.

- Voicemail Channel Reservation
 For calls going to voicemail from the IP Office, the IP Office can restrict how many sessions of various types are active at the same time. See Voicemail Channel Reservation 8.
- DTMF Breakout (*IP Office 5.0*)

 Previous breakout numbers for a user mailbox were set through the <u>user voicemail settings</u> (84). IP Office 5.0+ allows system defaults to be set. These are then applied to all user mailboxes unless the users own settings differ.
 - Reception / Breakout (DTMF 0)
 The number to which a caller is transferred if they press Owhile listening to the mailbox greeting rather than leaving a message (*O on embedded voicemail).
 - For systems set to Intuity emulation mode, the mailbox user can also access this option when collecting their messages by dialing *O.
 - If the mailbox has been reached through a call flow containing a Leave Mail action, the option provided when 0 is pressed are:
 - For IP Office mode, the call follows the Leave Mail action's *Failure* or *Success* results connections depending on whether the caller pressed 0 before or after the record tone.
 - For Intuity mode, pressing 0 always follows the Reception / Breakout (DTMF 0) setting.
 - Breakout (DTMF 2)

The number to which a caller is transferred if they press 2 while listening to the mailbox greeting rather than leaving a message (*2on embedded voicemail). For pre-5.0 systems this option is not support for Voicemail Pro running in IP Office mailbox mode.

• Breakout (DTMF 3)
The number to which a caller is transferred if they press 3while listening to the mailbox greeting rather than leaving a message (*3on embedded voicemail). For pre-5.0 systems this option is not support for Voicemail Pro running in IP Office mailbox mode.

SIP Settings

These options are available when the IP Office configuration contains a SIP line or H323 SCN line. The values may be used when the voicemail server makes calls using a SIP trunk or to a SIP device.

- SIP Name: Default = User name.
 The value from this field is used when the From field of the SIP URI being used for a SIP call is set to Use Internal Data.
- SIP Display Name (Alias): *Default = User name*.

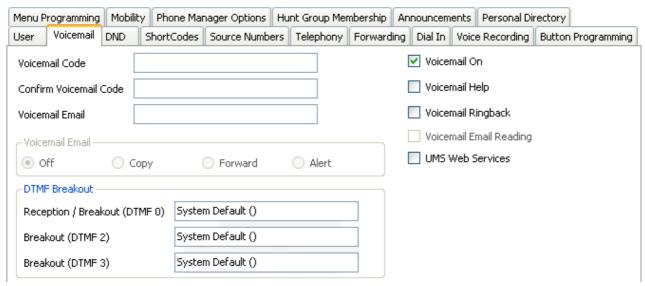
 The value from this field is used when the Display Name field of the SIP URI being used for a SIP call is set to *Use Internal Data*.
- Contact: Default = User name.

 The value from this field is used when the Contact field of the SIP URI being used for a SIP call is set to Use Internal Data.
- Anonymous: *Default = Off.*If the From field in the SIP URI is set to *Use Internal Data*, selecting this option inserts *Anonymous* into that field rather than the SIP Name set above.
- 3. Click OK to save any changes.
- 4. Send the configuration back to the IP Office.

5.3 User Voicemail Settings

Voicemail can be configured for each individual user in IP Office Manager.

- 1. Open IP Office Manager.
- 2. In the Navigation pane, click User and select the individual user.
- 3. Select the Voicemail tab.



- Voicemail Code / Confirm Voicemail Code
 These fields are used to set or change the user's mailbox passcode.
 - If the voicemail server is set to *Intuity Emulation* mode, mailbox users are asked to set a voicemail code the first time that they access the mailbox.
- Voicemail On Default = On

When on, the mailbox is used by the IP Office to answer the user's unanswered calls or calls when the user's extension returns busy. Note that selecting off does not disable use of the user's mailbox. Messages can still be forward to their mailbox and recordings can be placed in it. The mailbox can also still be accessed to collect messages.

- Voicemail Help Default = Off
 - For voicemail systems running IP Office mailbox mode, this option controls whether users retrieving messages are automatically given an additional prompt "For help at any time press 8." If switched off, users can still press 8 for help. For voicemail systems running in Intuity emulation mode, this option has no effect. On those systems the default access greeting always includes the prompt "For help at any time, press *4" (*H in the US locale).
- Voicemail Ringback Default = Off
 When on, if the user has a new message, the voicemail server can call the user's extension whenever the
 extension changes from off-hook to on-hook. The voicemail server will not ring the extension more than once
 every 30 seconds.
- Voicemail Email: Default = Blank (No voicemail email features)
 This field is used to set the user or group email address used by the voicemail server for voicemail email operation. When an address is entered, the additional Voicemail Email control below are selectable to configure the type of voicemail email service that should be provided.
 - Use of voicemail email requires the voicemail pro server to have been configured to use either a local MAPI email client or an SMTP email server account. See Voicemail Email Installation 46.
 - The use of voicemail email for the sending (automatic or manual) of email messages with wav files attached should be considered with care. A one-minute message creates a 1MB .wav file.
- Voicemail Email Default = Off
 - If an email address is entered for the user or group, the following options become selectable. These control the mode of automatic voicemail email operation provided by the voicemail server whenever the voicemail mailbox receives a new voicemail message.
 - Users can change their voicemail email mode using visual voice. If the voicemail server is set to IP
 Office mode, user can also change their voicemail email mode through the telephone prompts. The
 ability to change the voicemail email mode can also be provided in a call flow using a Personal
 Options Menu action or a Generic action.
 - If the voicemail server is set to IP Office mode, users can manually forward a message to email.

Off

If off, none of the options below are used for automatic voicemail email. Users can also select this mode by dialing *O3 from their extension.

Copy

If this mode is selected, each time a new voicemail message is received in the voicemail mailbox, a copy of the message is attached to an email and sent to the email address. There is no mailbox synchronization between the email and voicemail mailboxes. For example reading and deletion of the email message does not affect the message in the voicemail mailbox or the message waiting indication provided for that new message.

Forward

If this mode is selected, each time a new voicemail message is received in the voicemail mailbox, that message is attached to an email and sent to the email address. No copy of the voicemail message is retained in the voicemail mailbox and their is no message waiting indication. As with Copy, their is no mailbox synchronization between the email and voicemail mailboxes. Users can also select this mode by dialing *01 from their extension.

• UMS Exchange 2007

Voicemail Pro 5.0+ supports voicemail email to an Exchange 2007 server email account. For users and groups also enabled for UMS Web Services this significantly changes their mailbox operation. The Exchange Server inbox is used as their voicemail message store and features such as message waiting indication are set by new messages in that location rather than the voicemail mailbox on the voicemail server. Telephone access to voicemail messages, including Visual Voice access, is redirected to the Exchange 2007 mailbox. See UMS Exchange 2007 Installation 4th and UMS Exchange 2007.

Alert

If this mode is selected, each time a new voicemail message is received in the voicemail mailbox, a simple email message is sent to the email address. This is an email message announcing details of the voicemail message but with no copy of the voicemail message attached. Users can also select this mode by dialing *02 from their extension.

• UMS Web Services

If selected, the user is able to use UMS 3th to access their mailbox. UMS options allow messages to be accessed via a web browser, an IMAP compatible email application or an Exchange 2007 email account. The use this function is subject to licenses.

DTMF Breakout

When a caller is directed to voicemail to leave a message, they can be given the option to be transferred to a different extension. The greeting message needs to be recorded telling the caller the options available. The extension numbers that they can be transferred to are entered in the fields below. For IP Office 5.0+, these system default values can be set for these numbers and are used unless a different number is set within these user settings.

Reception / Breakout (DTMF 0)

The number to which a caller is transferred if they press \mathcal{O} while listening to the mailbox greeting rather than leaving a message (* \mathcal{O} on embedded voicemail).

- For systems set to Intuity emulation mode, the mailbox user can also access this option when collecting their messages by dialing *O.
- If the mailbox has been reached through a call flow containing a Leave Mail action, the option provided when 0 is pressed are:
 - For IP Office mode, the call follows the Leave Mail action's *Failure* or *Success* results connections depending on whether the caller pressed 0 before or after the record tone.
 - For Intuity mode, pressing 0 always follows the Reception / Breakout (DTMF 0) setting.

• Breakout (DTMF 2)

The number to which a caller is transferred if they press 2 while listening to the mailbox greeting rather than leaving a message (*2 on embedded voicemail). For pre-5.0 systems this option is not support for Voicemail Pro running in IP Office mailbox mode.

• Breakout (DTMF 3)

The number to which a caller is transferred if they press \mathcal{J} while listening to the mailbox greeting rather than leaving a message (* \mathcal{J} on embedded voicemail). For pre-5.0 systems this option is not support for Voicemail Pro running in IP Office mailbox mode.

- 4. Click OK to save the voicemail changes for the user.
- 5. Amend any other user details, then save and merge the configuration changes.

5.4 User Source Numbers

The Source numbers can be changed for individual users in IP Office Manager. The Source Numbers tab gives a list of Dial In Source Numbers. Several of these numbers can relate to voicemail operation. The source number settings that can be used for Voicemail Pro are:

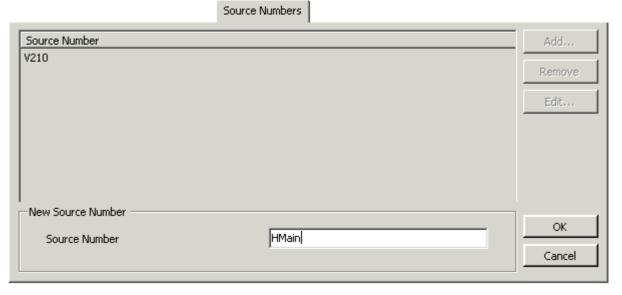
- V < Caller's /CL/D> = Voicemail Trusted Source Access. Strings prefixed with a v indicate numbers from which access to the user's mailbox is allowed without requiring entry of the mailbox's voicemail code.
 - When in Intuity mode users will still have to enter their voicemail code if they use the Messages button on their telephone. However, If they have a button programmed to collect voicemail they can access their mailbox without entering their voicemail code.
- H< Group Name> = Hunt Group Voicemail Indication.

 Allows the user to receive message waiting indication for new group messages. Enter H followed by the group name, for example HNain for the group Main.
- P < Telephone Number > = Voicemail Ringback Number.

 This entry sets the destination for callback (outbound alert) calls from voicemail. Enter P followed by the telephone number including any necessary external dialing prefix, for example P917325559876. This facility is only available when using Voicemail Pro through which a default Callback or a user specific Callback start point has been configured. This feature is separate from voicemail ringback which alerts the user's own extension.

To add a source number:

- 1. Open IP Office Manager.
- 2. In the Navigation pane, click User and select the individual user.
- 3. View the Source Numbers tab.
- 4. Click Add.



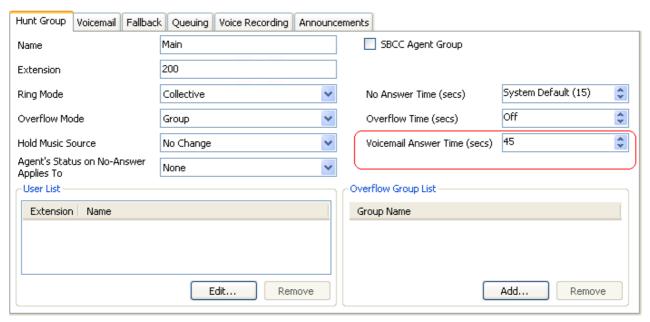
- 5. Enter the number in the Source Number field at the bottom of the window.
- 6. Click OK and save the configuration file.

5.5 Hunt Group Settings

Voicemail can be configured for each hunt group on the IP Office system. This section looks at the basic voicemail settings.

Voicemail Answer Time

For IP Office 4.0+, the condition under which calls targeted to a hunt group go to voicemail has been changed to a timeout. For calls waiting to be answered, once this timeout expires the call is redirected to voicemail regardless of where it is in the hunt group.



Hunt Group Settings

- 1. Open IP Office Manager.
- 2. In the Navigation pane, click Hunt Group and select the hunt group.
- 3. Select the Voicemail tab.



- Voicemail Code / Confirm Voicemail Code
 Enter a voicemail code between 1-15 digits in the Voicemail Code field. This is required when users retrieve
 voicemail messages for the hunt group remotely, for example from an extension that is not a member of the
 hunt group or from an external telephone.
- Voicemail Email: Default = Blank (No voicemail email features)
 This field is used to set the user or group email address used by the voicemail server for voicemail email operation. When an address is entered, the additional Voicemail Email control below are selectable to configure the type of voicemail email service that should be provided.
 - Use of voicemail email requires the voicemail pro server to have been configured to use either a local MAPI email client or an SMTP email server account. See <u>Voicemail Email Installation</u> 46.
 - The use of voicemail email for the sending (automatic or manual) of email messages with wav files attached should be considered with care. A one-minute message creates a 1MB .wav file.
- Voicemail Email Default = Off
 If an email address is entered for the user or group, the following options become selectable. These control the mode of automatic voicemail email operation provided by the voicemail server whenever the voicemail mailbox receives a new voicemail message.

- Users can change their voicemail email mode using visual voice. If the voicemail server is set to IP
 Office mode, user can also change their voicemail email mode through the telephone prompts. The
 ability to change the voicemail email mode can also be provided in a call flow using a Personal
 Options Menu action or a Generic action.
- If the voicemail server is set to IP Office mode, users can manually forward a message to email.

Off

If off, none of the options below are used for automatic voicemail email. Users can also select this mode by dialing *O3 from their extension.

Copy

If this mode is selected, each time a new voicemail message is received in the voicemail mailbox, a copy of the message is attached to an email and sent to the email address. There is no mailbox synchronization between the email and voicemail mailboxes. For example reading and deletion of the email message does not affect the message in the voicemail mailbox or the message waiting indication provided for that new message.

Forward

If this mode is selected, each time a new voicemail message is received in the voicemail mailbox, that message is attached to an email and sent to the email address. No copy of the voicemail message is retained in the voicemail mailbox and their is no message waiting indication. As with Copy, their is no mailbox synchronization between the email and voicemail mailboxes. Users can also select this mode by dialing *01 from their extension.

• UMS Exchange 2007

Voicemail Pro 5.0+ supports voicemail email to an Exchange 2007 server email account. For users and groups also enabled for UMS Web Services this significantly changes their mailbox operation. The Exchange Server inbox is used as their voicemail message store and features such as message waiting indication are set by new messages in that location rather than the voicemail mailbox on the voicemail server. Telephone access to voicemail messages, including Visual Voice access, is redirected to the Exchange 2007 mailbox. See UMS Exchange 2007.

Alert

If this mode is selected, each time a new voicemail message is received in the voicemail mailbox, a simple email message is sent to the email address. This is an email message announcing details of the voicemail message but with no copy of the voicemail message attached. Users can also select this mode by dialing *02 from their extension.

• Voicemail On *Default = On*

When on, the mailbox is used by the IP Office to answer the user's unanswered calls or calls when the user's extension returns busy. Note that selecting off does not disable use of the user's mailbox. Messages can still be forward to their mailbox and recordings can be placed in it. The mailbox can also still be accessed to collect messages.

• Voicemail Help *Default = Off*

For voicemail systems running IP Office mailbox mode, this option controls whether users retrieving messages are automatically given an additional prompt "For help at any time press 8." If switched off, users can still press 8 for help. For voicemail systems running in Intuity emulation mode, this option has no effect. On those systems the default access greeting always includes the prompt "For help at any time, press *4" (*H in the US locale).

Broadcast

Select the option Broadcast if you want any voicemail messages left for the hunt group to be forwarded to the mailboxes of the individual group members. The original message in the hunt group mailbox is deleted after being broadcast.

• UMS Web Service (*IP Office 5.0+*)

If selected, the hunt group mailbox can be accessing using UMS 314 via a web browser or an IMAP compatible email application.

4. Click OK and save the configuration.

5.6 Voicemail Channel Reservations

By default inbound calls routed from IP Office to voicemail are able to use any available voicemail channels, up to the limit of the <u>number of licensed channels</u> 11h, regardless of how many calls of the same type are already in progress. However, if required, channels can be reserved for different types of inbound calls to the voicemail server.

Voicemail channel reservations can be made for:

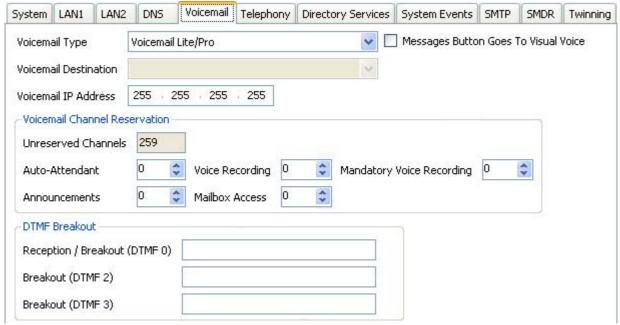
- Auto Attendant
- Announcements
- Voice recording
- · Mailbox access
- · Mandatory voice recording

It is worth checking the voicemail channel reservations if there are problems. If insufficient voicemail channels are available:

- Internal calls to an auto attendant are queued. The call will queue until a resource becomes available.
- · Announcements are not heard by the caller, but the call is routed correctly.
- Manual voice recording is activated but no recording is made. The call will continue.
- · Users are placed in a queue when trying to access their mailbox access.
- A user with mandatory recording on outgoing calls (internal and external) gets a busy tone.
- A call on a line with mandatory recording set will be barred.

To change voicemail channel reservations:

- 1. Open IP Office Manager and the load the configuration.
- 2. In the Navigation pane click System and select the system.
- 3. Click the Voicemail tab.



4. Amend the channel reservations as required. By default the values are 0.

To view the utilization of voicemail channels:

- 1. Open the System Status Application.
- 2. Click Resources. The System Resources summary is displayed. The following details are displayed:
 - The number of voicemail channels available.
 - The number of channels in use.
 - · Congestion information

Channel Restrictions

- - Outcalling can use up to 5 channels at any time.
 - Conference center invitation calls can use up to 5 channels at any time.
 - Callback calls can use up to 2 channels at any time.
 - Alarm calls can use up to 2 channels at any time.

Chapter 6. System Preferences

6. System Preferences

A range of voicemail server settings can be set through the Voicemail Pro client.

To change the Voicemail Pro Preferences

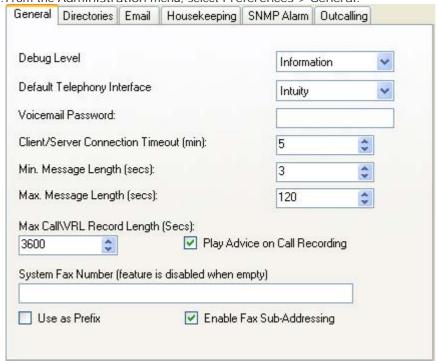
- 1. Click the Preferences icon and then choose General or VPNM. Alternatively, from the Administration menu, select Preferences and then choose General or VPNM.
- 2. Select the System Preferences tab required.
 - General 93 General voicemail server settings.
 - <u>Directories 95</u> Set the folder paths for different file locations.
 - Housekeeping 102 Set the times for automatic deletion of different types of messages. Also set the default playback order.
 - Select the email mode (MAPI or SMTP) used by the voicemail server for its email functions and configure various settings for the selected mode.
 - SNMP Alarm 1035 Set the criteria which will cause the voicemail server to send alarms via the IP Office.
 - Outcalling 10th
 Set the default times for outcalling operation and the frequency of outcalling retires.
 - If VPNM is installed and licensed, this tab is available to set the locations of the remote VPNM servers and the mailbox users on those servers.

6.1 General

Although the default IP Office configuration settings allow voicemail to start operating almost immediately, as soon as a voicemail server is running on the LAN, there are some general system preferences that you can set or change.

To set up general system preferences:

- 1. Display the main Voicemail Pro window.
- 2. From the Administration menu, select Preferences > General.



- Debug Level Set the level of information that the server should output for logging if required.
- Default Telephony Interface: *Default = Intuity*Select the mailbox operation mode for all mailboxes. The options are *IP Office* mode or *Intuity* emulation mode.
- Voicemail Password: Default = Blank
 A voicemail password is optional for the voicemail server is optional. If you set a password here, it must match the Voicemail Password configured within the IP Office's security settings. See Identifying the Voicemail Server PC 821.
- Client/Server Connection Timeout (mins): *Default = 5 minutes*.

 The voicemail server only allows one Voicemail Pro client to be connected at a time. This timeout logs out an inactive client, stopping it from preventing another client from connecting.
- Min. Message Length (secs): Default = 3 seconds.
 By default the minimum message length is 3 seconds in IP Office mailbox mode, 0 seconds in Intuity emulation mode. This field allows the minimum length to be set between 0 and 10 seconds. Messages under this length are deleted immediately.
- Max. Message Length (secs): *Default = 120 seconds*.

 This value sets the maximum length for messages. The default message length is 120 seconds. The maximum message length is 3600 seconds (60 minutes). 1 minute equals approximately 1MB of disk space.
- Max. Call\VRL Record Length (secs): Default = 3600 seconds.
 This value sets the maximum recording time for recorded calls. The default and maximum length is 3600 seconds (60 minutes).
- Play Advice on Call Recording: *Default = On*If selected, an advice warning is played whenever call recording is started advising the callers that their call is being recorded. This may be a legal requirement in some countries and so should not be disabled without checking first.
- System Fax Number: *Default = Blank*This field can be used to set the number of the fax machine to which all incoming faxes should be directed. If a fax board is being used, this number must match the number of the extension that is connected to the fax board of the fax server PC.

- Intuity mailbox owners have the additional option to define their own personal fax number instead of the system fax number. As the system administrator, you still need to set a system fax number to enable mailbox owners to override it with their preferred personal fax number. Incoming calls are directed to Voicemail Pro and then Voicemail Pro redirects fax calls to the mailbox owner's personal fax number, if one has been set. For information mailbox owners should read the Intuity Mailbox User Guide.
- If your fax system requires prefix addressing, for example the C3000 fax server, do not type a fax number in the System Fax Number box. Instead type the number to use as a prefix so that a fax message can be identified and forwarded to the extension number of the intended recipient. For example, if the prefix were 55, a fax message for extension 201 would have the prefix of 55 automatically added so that the complete number would become 55201.
- System Fax Number

By default fax detection is not enabled when Voicemail Pro is first installed. When fax detection is enabled, any fax calls that are left in a voicemail mailbox, are redirected to this system fax number.

- Use as a Prefix
 If your fax system does not use prefix addressing, leave this box unchecked. For this feature to work, you also need to set up a short code.
- Enable Fax Sub-Addressing
 Most fax servers perform fax forwarding based on DTMF signaling received with the fax call. Check the Enable
 Fax Sub-Addressing box so that the DTMF signal is passed to the fax server after the call has been answered
 so that the fax can be forwarded to the email address of the intended recipient.
- 3. Click OK.
- 4. Click Save and Make Live and select Yes.

6.2 Directories

When Voicemail Pro is installed some default folder locations are used. You can change these if required.

To set the location of Voicemail system folders:

- 1. Display the main Voicemail Pro window.
- 2. From the Administration menu, select Preferences > General.
- 3. Click the Directories tab.



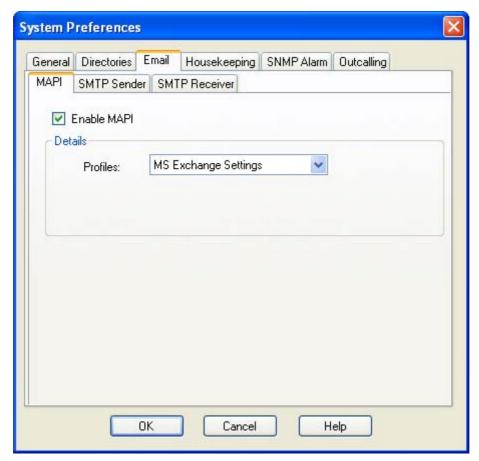
- Voicemail Server Directory
 The path to the folder where the voicemail server program is to be stored. This is the folder where the file
 Root.vmp is saved when the Save & Make Live option is used.
- Voicemail Server Speech Directory
 The path to the folder where the libraries of speech prompts are to be stored.
- Remote Campaign Directory
 The path to the folder where the campaign files are to be stored.
- 4. Click OK.
- 5. Click Save and Make Live and select Yes.

6.3 Email

The Email tab is used to configure which email mode (MAPI or SMTP) the voicemail server should use and the settings for that mode.

6.3.1 MAPI

This form is used to configure MAPI settings for use by the voicemail server. Not supported for use with a Linux based server.



- Enable MAPI Selecting this option will switch the voicemail server to using MAPI for its email options rather than SMTP.
- Profile
 This is used to select the MAPI email account the voicemail server should use to provide visibility to the email account mailboxes for which it requires access. The profile must exist within the MAPI email client on the server PC and must be useable by the Windows account under which the Voicemail Pro service is running.

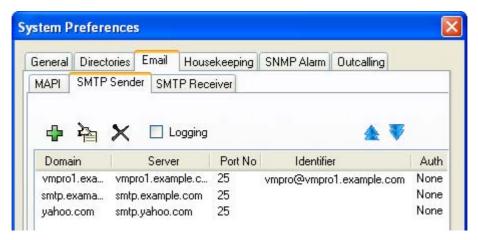
6.3.2 SMTP Sender

These settings are used to configure the SMTP server and server account that the voicemail server uses for sending emails using SMTP.

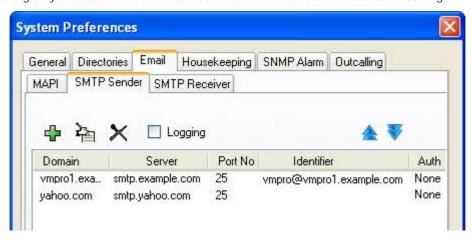
Multiple servers can be configured. The first entry specifies the default SMTP server used for sending emails if there is no other entry matching the domain specified in the email destination address. Additional servers can be added when different settings are required for sending emails to specific domains. For example, the default may be configured for the customer's internal network exchange server with addition entries added for emails to external email domain addresses such as yahoo.com.

Messaging Between Voicemail Servers
 VPNM, distributed voicemail servers and primary/backup voicemail servers all use SMTP to exchange information
 and messages between the voicemail servers. When that is the case the first entry in the SMTP Sender list must
 be the one used and needs to be configured for that service with the domain and server setting both matching the
 IP address or fully qualified domain of the voicemail server.

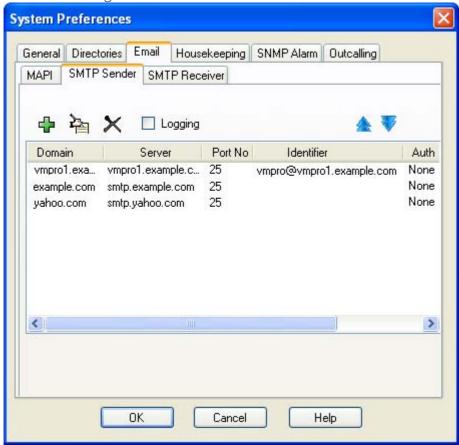
In the example below, the first entry is being used for messages to other voicemail servers. Its own address is used as both the domain and server settings as an SMTP service on the same server as the voicemail service is used (eg. IIS SMTP on the Windows server). The next entry is used for other emails that use the customer's general email domain address with the server set to the customers email server. A third entry has been added to send some emails generated by Email Actions in call flows direct to an external email service.



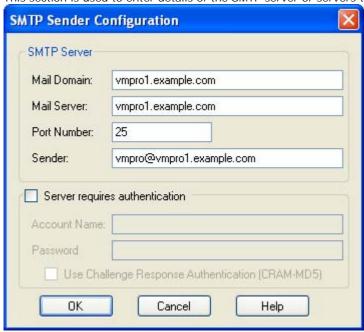
• The first two entries in the example above can be combined. Voicemail server to server synchronization uses the Domain setting only whereas other email services use the Server address and other setting.



SMTP Sender Settings



- Logging
 If selected, SMTP logging 128 by the server is enabled.
- Servers
 This section is used to enter details of the SMTP server or servers to which the voicemail server send its messages.



To add a server, click on the 🕂. icon. To edit the server, click on the 🖺 icon. To delete a server entry, click on 🗙.

Mail Domain

This field is used differently depending on whether it is the first entry in the list or not:

- For the first server entry in the list:
 This is the default outgoing email settings. It also sets the mail destination domain on which the voicemail server filters incoming messages (see below) and so is repeated on the SMTP Receiver 100 tab.
 - Messaging Between Voicemail Servers For messaging between voicemail servers, the first entry in the SMTP Sender list must be the one configured and used. Each server uses the SMTP server service on the same server PC as the voicemail service. For example a Windows based servers uses the SMTP email provided by the IIS on the same server. The voicemail service also uses the domain set to filter incoming SMTP mails received by the SMTP server. For this to work, the domain entered should be the fully qualified name of the server on which the voicemail server is running, for example *vmpro1.example.com*. Any incoming messages where the recipient mail domain is not exactly the same as the specified domain are ignored. The recipient can either by *vmsyncmaster*, *vmsyncslave* or the name or extension of a mailbox on the Voicemail Pro server, for example *Extn201@vmprocentral.example.com* or *201@vmprocentral.example.com*.
- For subsequent entries:
 The domain specifies that these settings should be used for emails sent to the matching domain. The entry must be a fully qualified name resolvable by DNS or an IP address.
- Server

This specifies the IP address or fully qualified domain name of the SMTP server to which messages are sent.

- For the first server entry in the list: Where messaging between voicemail servers is being used (central, backup and or distributed servers), the first entry is used and will match the domain set above.
- For subsequent entries:
 It will be the address of the email server that will handle emails for recipients other than another voicemail server on the network.
- Port Number
 This is port to which messages are sent, usually 25.
- Sender (I dentifier)

Note that some servers will only accept emails from a specific sender or sender domain. If left blank, the voicemail server will insert a sender using either the email address set for the voice mailbox user if set or otherwise using the best matching name it can resolve from the IP Office.

Server Requires Authentication

This check box indicates whether the connection to send SMTP messages to the mail server requires authentication with that server. The authentication will typically be to the name and password of a mailbox account configured on that server.

- Account Name Sets the name to use for authentication.
- Password
 Set the password to use for authentication.
- User Challenge Response Authentication (Cram MD5)
 If this check box is selected, the name and password are sent using Cram MD5.

6.3.3 SMTP Receiver

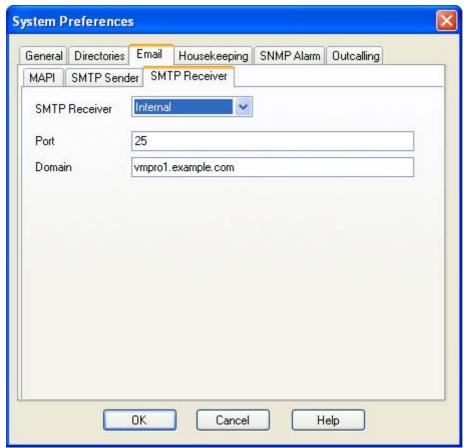
This tab is used to set where the voicemail server checks for incoming SMTP messages. The SMTP Receiver setting can be set to either *Internal* or *External*.

- Internal 100h
 Use this option for voicemail servers running on the IP Office Application Server server.
- External 10th
 Use this option when the voicemail server is on a server where is co-exists with a third-party SMTP application, for example an IIS server with SMTP enabled.

Internal

The Internal setting can be used when the voicemail server should check the appropriate account on an SMTP server for waiting messages. The server settings will be pre-populated using the entries from the SMTP Sender [97] form.

Distributed/Primary/Backup Voicemail
 This is the option that should be used when the voicemail server is a IP Office Application Server (Linux) based server in a network distributed voicemail servers are being used or is a server in a primary/backup voicemail server pairing.



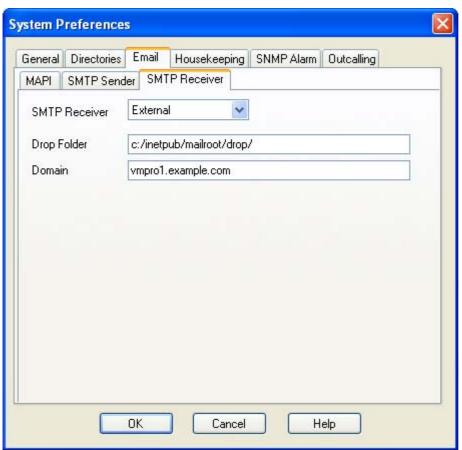
- Port
 This is the port on which the Voicemail Pro server listens for incoming messages. The default is 25.
- Domain
 This is the domain destination address for which the server will accept incoming emails. Note that it matches the domain set by the first server entry in the SMTP Sender Tab.
 - Messaging Between Voicemail Servers For messaging between voicemail servers, the first entry in the SMTP Sender list must be the one configured and used. Each server uses the SMTP server service on the same server PC as the voicemail service. For example a Windows based servers uses the SMTP email provided by the IIS on the same server. The voicemail service also uses the domain set to filter incoming SMTP mails received by the SMTP server. For this to work, the domain entered should be the fully qualified name of the server on which the voicemail server is running, for example *vmpro1.example.com*. Any incoming messages where the recipient mail domain is not exactly the same as the specified domain are ignored. The recipient can either by *vmsyncmaster*, *vmsyncslave* or the name or extension of a mailbox on the Voicemail Pro server, for example *Extn201@vmprocentral.example.com* or *201@vmprocentral.example.com*.

External

The External setting should be used when the voicemail server should check the mail drop folder on a local SMTP server for SMTP email messages. For example, when there is an IIS server with SMTP enabled on the same server PC as the Voicemail Pro server.

• Distributed/Primary/Backup Voicemail

This is the option that should be used when the voicemail server is a Windows based server in a network distributed voicemail servers are being used or is a server in a primary/backup voicemail server pairing.



- Port
 This is the port on which the server receives incoming SMTP emails.
- Domain
 This is the domain destination address for which the server will accept incoming emails. Note that it matches the domain set by the first server entry in the SMTP Sender Tab.
 - Messaging Between Voicemail Servers
 For messaging between voicemail servers, the first entry in the SMTP Sender list must be the one
 configured and used. Each server uses the SMTP server service on the same server PC as the voicemail
 service. For example a Windows based servers uses the SMTP email provided by the IIS on the same
 server. The voicemail service also uses the domain set to filter incoming SMTP mails received by the SMTP
 server. For this to work, the domain entered should be the fully qualified name of the server on which the
 voicemail server is running, for example *vmpro1.example.com*. Any incoming messages where the
 recipient mail domain is not exactly the same as the specified domain are ignored. The recipient can either
 by *vmsyncmaster*, *vmsyncslave* or the name or extension of a mailbox on the Voicemail Pro server, for
 example *Extn201@vmprocentral.example.com* or *201@vmprocentral.example.com*.

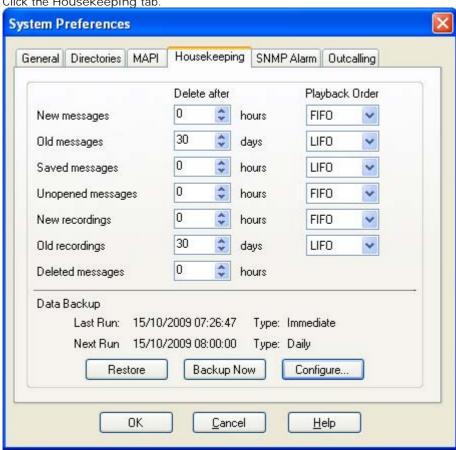
6.4 Housekeeping

This tab is used to set the Voicemail Pro server settings for automatically deleting messages and for the default playback order of messages. For Voicemail Pro 6.0+ it is also used to access options for backing up and restoring voicemail messages and settings.

The voicemail servers housekeeping settings can be used to configure how long messages and recording are retained before the server will automatically delete them. The playback order for different types of messages can also be set. Note that the housekeeping deletion settings are not applicable for messages stored on the Exchange server.

1. From the Administration menu, select Preferences > General.

2. Click the Housekeeping tab.



3. Delete after

Sets the time, in hours, after which messages of various types automatically deleted. A value of $\mathcal O$ disables automatic deletion. The actual deletion is performed during the next idle period during which there are no calls to or from the voicemail server.

4. Playback Order

Sets the order of playback used for different message types. The options are first in-first out (F/FO) and last in-first out (L/FO). F/FO is the default.

- · The different message status types are:

This status is applied to messages where neither the header or the message content has been played.

This status is applied to messages where the user has played the message content but has not marked the message as saved.

Saved

This status is applied to messages that have been marked as saved by the user.

This status is used for messages where, in Intuity emulation mode, the user has played the message header but has not played the message content.

New Recordings

This status is used for recordings that have not been played.

Old Recordinas

This status is used for recordings that have been played.

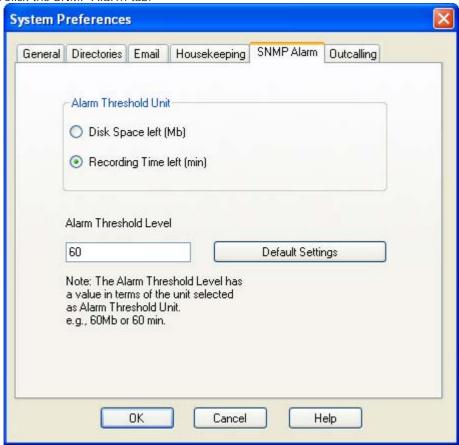
- Deleted Messages
 This status is used for messages that have been marked as deleted through mailbox access.
- 5. Click OK.
- 6. Click Save and Make Live and select Yes.

6.5 SNMP Alarm

The IP Office system can be configured to send alarms. These alarms can be sent from the IP Office using SNMP, SMTP email or Syslog alarm formats. This tab is used to sets the levels at which the voicemail server will indicate to the IP Office to send an alarm

To set up disk space and recording time alarms:

- 1. Display the main Voicemail Pro window.
- 2. From the Administration menu, select Preferences > General.
- 3. Click the SNMP Alarm tab.



- 4. Choose the Alarm Threshold Unit either Disk Space Left (MB) or Recording Time left (minutes).
- 5. In the Alarm Threshold Level box, type the number of units (minutes or MB) left at which SNMP alarms are to be triggered. The minimum is 11. This value also sets two further SNMP alarm levels which are:
 - Space OK Alarm
 This alarm is triggered when the amount of available space returns to above a level set at Alarm Threshold Level plus 30.
 - Critical Alarm
 This alarm is set at 30 or, when the Alarm Threshold Level is less than 40, at Alarm Threshold Level minus 10.
 Currently the critical alarm value will decrease in accordance with the above rule. Note however that it does not increment upwards when the Alarm Threshold is increased again. To reset the critical alarm back to 30, click Default Settings.
- 6. To return to the default alarm settings, click Default Settings. The Alarm Threshold Level is reset to 60. The Space OK level is reset to 90. The Critical Alarm level is reset to 30.
- 7. Click OK.
- 8 Click Save and Make Live and select Yes.

Voicemail Pro Installation IP Office Release 7.0

6.6 Outcalling

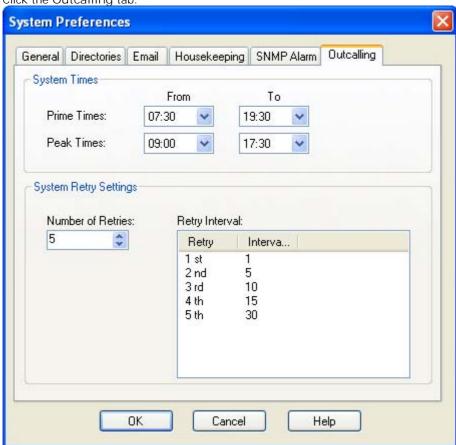
The outcalling preferences in Voicemail Pro are defaults for global operation. Mailbox owners can configure their own outcalling options from their telephone, for example, create their own time profile.

Details on how users can configure outcalling are found in the Intuity Mailbox guide and Phone Manager User Guide.

A timeout value can also be set by a user. This is how long outcalling will attempt to call a number before giving up.

To set the global outcalling preferences:

- 1. Display the main Voicemail Pro window.
- 2. From the Administration menu, select Preferences > General.
- 3. Click the Outcalling tab.



- 4. Select the times that outcalling is active in the System Times section.
 - Prime Times
 The time period that outcalling is to be active as default for the system.
 - Peak Times
 The busiest working hours.
- 5. Set the retry settings in the System Retry Settings section.
- 6. The Number of Retries can be between 0 and 10. If the message is not collected after the last retry, no notification is sent until another new message is delivered in the user's mailbox.
- 7. The Retry Interval for each retry attempt. The interval is the length of time between each attempt to ring to targeted number again. The 6th to 10th retries use the default retry interval.
- 8. Double-click a selected retry time to edit the interval between retries. The New interval number window opens where the length of time between each attempt to ring the target number can be changed. Click OK to save the change and return to the Outcalling window.
- 9. Click OK.
- 10.Click Save and Make Live and select Yes.

Voicemail Pro Installation IP Office Release 7.0

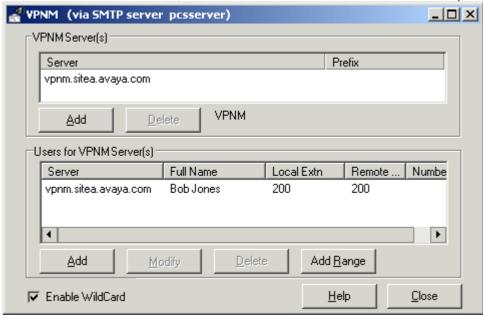
6.7 VPNM

This set of preferences is used to add a list of the remote VPNM servers and mailbox users on those servers.

• ! These features are not supported on a Linux based Voicemail Pro server.

To open the VPN window:

- 1. Start the Voicemail Pro Client.
- 2. From the Administration menu, select Preferences > VPNM. The VPNM window opens.



To add a VPNM server:

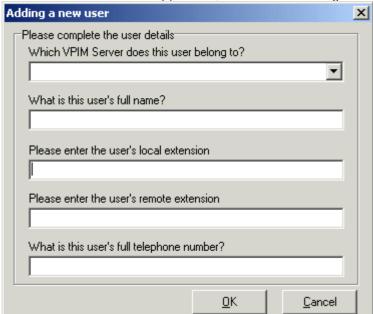
- 1. In the VPNM Server(s) section, click Add.
- 2. Enter the fully qualified domain name of the remote VPNM destination (the remote Voicemail Pro server PC or Avaya Interchange).
- 3. Enter the two digit access prefix, if these are being used.
- 4. Click OK.

To delete a VPNM server:

- 1. In the VPNM Server(s) section, select the server that you need to delete.
- 2. Click Delete. When a server is deleted, all of the users associated with that server are also deleted.

To add a user to VPNM server:

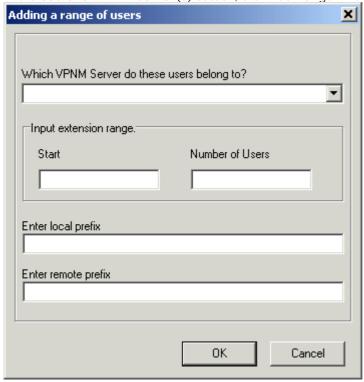
1. In the Users for VPNM Server(s) section, click Add. The Adding a new user window opens.



- 2. Enter details for the user. All of these details MUST be completed before the user can be added.
 - Select the VPIM server from the listing.
 - Enter the user's full name. The user's full name is used by the local Voicemail Pro's dial by name feature.
 - Enter the user's extension. The local extension number is used as the local mailbox number and so should not conflict with any existing local number.
 - Enter the user's remote extension. The remote extension number should be the user's real extension number.
 Typically this and the 'local extension number' are kept the same using a unique extension number dial plan for the linked systems.
 - Enter the user's full telephone number. The full telephone number should be a dialable number that is routed to the user's extension or mailbox.
- 3. Click OK to save the details and return to the VPNM configuration window.

To add a group of users:

- 1. (Optional) Check the option Enable WildCard. When this option is selected you can use the question mark symbol (?) to represent any number.
- 2. In the Users for VPNM Server(s) section, click Add Range. The Adding a range of users window opens.



- 3. Enter details for the users. All of these details MUST be completed before the users can be added.
 - Select the VPNM server to which you want to add the users.
 - Enter the start number of the extension range.
 - Enter the local prefix.
 - Enter remote prefix.
- 4. Click OK to save the details and return to the VPNM configuration window.

To change details of a VPNM user:

- 1. In the Users for VPNM Server(s) section, select the name of the user whose details need to be changed.
- 2. Click Modify. You can change the user's full name, the local extension number and the full telephone number.

Voicemail Pro Installation IP Office Release 7.0

Chapter 7. Centralized Voicemail Pro

7. Centralized Voicemail Pro

A Small Community Network (SCN) consists of several IP Office telephone systems. These are connected using H323 Lines where the Supplementary Services settings of the lines has been set to *IP Office SCN*. For details refer to the IP Office Manager documentation.

Within a Small Community Network, the following options for providing voicemail are supported:

• Centralized Voicemail 113

Centralized Voicemail Pro uses a single Voicemail Pro server to provide voicemail services for all IP Offices in the Small Community Network. Except for use of ContactStore, only the central IP Office hosting the voicemail server requires licensing for Voicemail Pro operation and features.

- Licenses: The central IP Office is licensed as normal for Voicemail Pro operation and the voicemail features required. The other IP Offices only require licenses for UMS and or for ContactStore if required.
- Centralized Voicemail with Fallback IP Office 114 Control of the voicemail server can be assumed by another IP Office if the central IP Office becomes unavailable.
 - IP Office Release 5.0+ with Voicemail Pro 5.0+.
 - Licenses: The fallback IP Office that assumes control of the voicemail server requires licenses for Voicemail Pro operation and the features required during fallback.

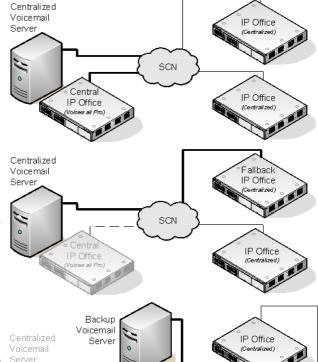
The central IP Office hosting the voicemail server can be configured with the IP address of a backup voicemail server. During normal operation, call flows and other settings on the backup server are kept synchronized with those of the primary voicemail server. If the primary voicemail server becomes unavailable to the network, voicemail services are provided by the backup voicemail server.

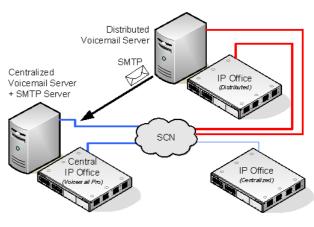
- IP Office Release 6.0+ with Voicemail Pro 6.0+.
- IIS SMTP is used to exchange information between the servers.
- Licenses: The existing licenses are used.

Centralized Voicemail with Distributed Voicemail Servers ☐ Servers

Other IP Offices in the Small Community Network can host their own Voicemail Pro server. That server is then used for the IP Office's voicemail functions except message storage.

- IP Office Release 6.0+ with Voicemail Pro 6.0+.
- IIS SMTP is used to exchange information between the servers.
- The distributed voicemail server provides all voicemail services except voicemail collection for its associated IP Office.
- Licenses: Each IP Office using a distributed voicemail server must have licenses for Voicemail Pro operation and the voicemail features required.





SCN

Centra

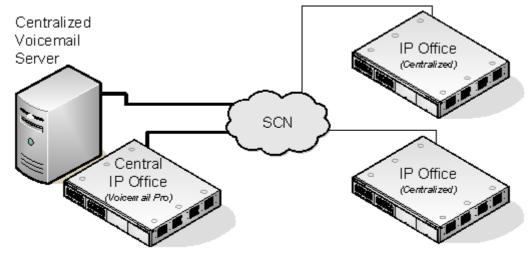
IP Office

In all the cases above, the central voicemail server remains the store for messages and recordings (except for Exchange UMS users). The central voicemail server does message waiting indication and is the voicemail server used for message collection. Only when the central server is temporarily unavailable will the backup or any distributed server do message storage and collection. In those scenarios, when the central server is restored, messages collected by the backup or distributed servers are forwarded to the central server.

Combinations 119) of the solutions above can be deployed. For example using a backup server and fallback IP Office control.

7.1 Centralized Voicemail

Within a Small Community Network, a single Voicemail Pro server can be used to provide voicemail features for all the IP Offices in the SCN.



One IP Office is configured for operation with the Voicemail Pro server as normal, including the license for voicemail operation and the features required. This IP Office is then regarded as the central IP Office for voicemail.

Within the other IP Office systems, the voicemail settings are configured to indicate that they get their voicemail services from the central IP Office. These IP Offices do not need licenses for voicemail (except for ContactStore and or UMS if required).

Summary of IP Office Settings

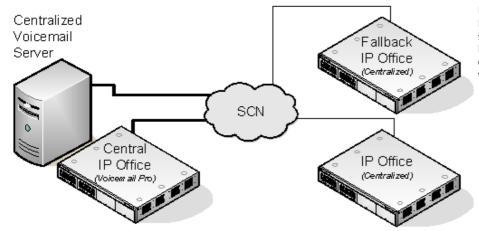
Once the IP Office SCN has been setup, the following settings are used in the IP Office systems to provide voicemail operation for all the IP Offices.

IP Office Settings	Central IP Office	Other IP Offices
Voicemail Type	Voicemail Pro	Centralized Voicemail
Voicemail IP Address	Set to the voicemail server PC's IP address.	Not used.
Voicemail Destination	Not used.	Set to the Outgoing Group ID of the H323 Line to the central IP Office.
Licenses	This system needs <u>licenses</u> 10 for all the Voicemail Pro features required.	The other IP Offices only require licenses for UMS and or for ContactStore if required.

When accessing a voicemail server that is acting as centralized voicemail server, the Voicemail Pro will display Centralized Voicemail in the title bar.

7.2 Fallback IP Office Control

IP Office Release 5.0+ supports a number of fallback features for Small Community Networks. In conjunction with Voicemail Pro 5.0+, fallback can include one of the IP Offices assuming control of the voicemail server should the central IP Office become unavailable on the network.



Normal Operation During normal operation, voicemail services for the Small Community Network are provided by the central IP Office communicating with the voicemail server.

Fallback Control Operation
If the central IP Office becomes
unavailable to the network, control
of voicemail services for the Small
Community Network is assumed by
the fallback IP Office.

• WARNING

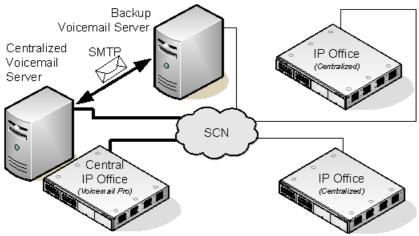
During the transition of voicemail control, access to voicemail may be unavailable for several minutes. Existing voicemail calls are disconnected and new calls are routed as if voicemail is unavailable. The same applies when the central IP Office is restored.

Setup and Requirements for Voicemail Fallback

- Within the configuration of the central IP Office hosting the voicemail server, on the H323 Line to the fallback IP Office;
 - The Supplementary Services setting should be changed from IP Office SCN to IP Office SCN Fallback.
 - The option Backs up my Voicemail should then be selected from the SCN Backup Options.
- The fallback IP Office is configured for centralized voicemail as normal. However its configuration must also include licenses for the Voicemail Pro support and the voicemail features required during fallback.

7.3 Backup Voicemail Server Operation

For IP Office Release 6.0, the central IP Office hosting the Voicemail Pro server can be configured with the IP address of a backup voicemail server. If the central voicemail server becomes unavailable to the network, the backup server will be used to provide voicemail services. This option requires the voicemail servers to be running Voicemail Pro 6.0 or higher.



Centralized voicemail with a backup server during normal operation.

During Normal Operation:

- Voicemail services and message storage for the IP Offices is provided by the primary voicemail server.
- Call flows and other settings configured on the backup voicemail server are synchronized with those of the central voicemail server.
- Messages are synchronized but the central voicemail server remains the message store accessed for message collection.
- The synchronization is done using IIS SMTP email between the servers.

During Backup Operation: If the central voicemail server become unavailable to the network:

- The backup voicemail server provides voicemail services for the IP Offices.
- New messages are left on the backup server.

After Backup Operation When the central server is restored to the network:

- It does not automatically resume control. However messages and changes that occurred while it was unavailable are synchronized from the backup server.
- If the backup server fails, the central sever resumes control as the active server

Centralized voicemail with a backup server during backup operation.

- Call flows defined on the central server are synchronized with the backup server.
- Call flows defined on the central server cannot be modified on the backup server.
- Call flows cannot be defined on the backup server.
- Call flows defined on a distributed server are not synchronized to the central or backup servers.

Configuring Backup Server Operation

- 1. The Voicemail Pro server software is installed as normal on the backup server PC. The voicemail server is not specifically configured as being a backup server.
- 2. The central IP Office hosting the primary voicemail server is configured with the IP addresses of both the primary voicemail server and the backup voicemail server.

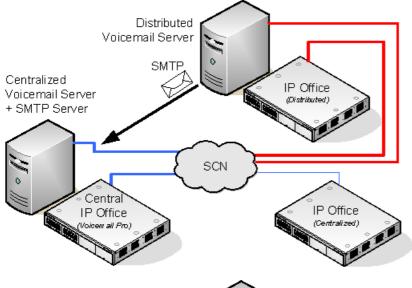


3. The other IP Offices are configured for centralized or distributed voicemail as normal.

7.4 Distributed Voicemail Servers

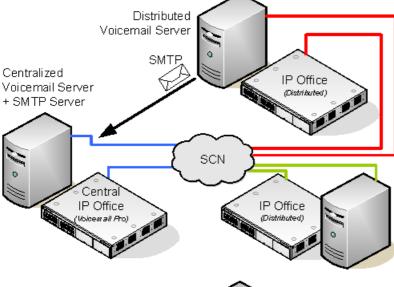
For IP Office Release 6.0, remote IP Offices in the Small Community Network can be associated with another voicemail server in addition to the centralized voicemail server. The additional distributed server then provides all voicemail services (except message storage and collection) for that IP Office. This requires the remote IP Office to have licenses for voicemail operation and the features it requires.

While the distributed server does message recording, it forwards all messages to the central voicemail server. The messages are transferred between systems using an IIS SMTP email services. For mailbox users, message waiting indication and message collection is still done using the central voicemail server.

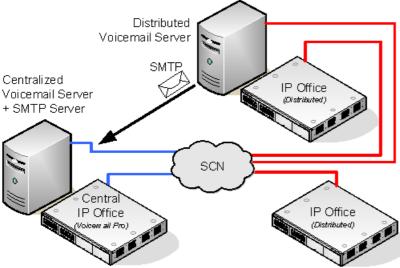


Centralized Voicemail with Additional Distributed Voicemail Servers In this scenario, an additional voicemail sever has been added to the Small Community Network. One of the IP Office is configured to use that server for its voicemail services.

- Other IP Offices continue to use centralized voicemail as normal.
- An IP Office that is using a distributed voicemail server cannot also be used as the <u>fallback IP Office</u> 114 for the central voicemail server.
- The synchronization is done using IIS SMTP email between the servers.



Multiple Distributed Servers Additional distributed voicemail servers can be added as required by the individual IP Office sites in the Small Community Network.

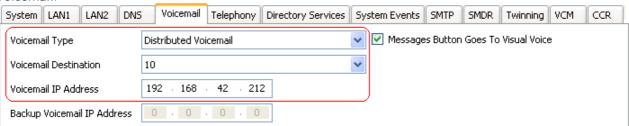


Sharing Distributed Voicemail Servers The same distributed voicemail server can be shared by several IP Offices. The services it provided to each will depend on the licenses that each has. Summary of IP Office Configuration Settings for Distributed Voicemail Severs

IP Office Settings	Central IP Office		IP Office with Distributed Server
Voicemail Type	Voicemail Pro	Centralized Voicemail	Distributed Voicemail
Voicemail IP Address	Set to the central voicemail server PC's IP address.		Set to the distributed voicemail server PC's IP address.
Voicemail Destination	Not used.	of the H323 Line to the central IP	Set to the Outgoing Group ID of the H323 Line to the central IP Office.
Licenses	This system needs <u>licenses</u> 10h for Voicemail Pro and all voicemail features required.		This system needs licenses for Voicemail Pro and all voicemail features required.

Configuring Distributed Voicemail Server Operation

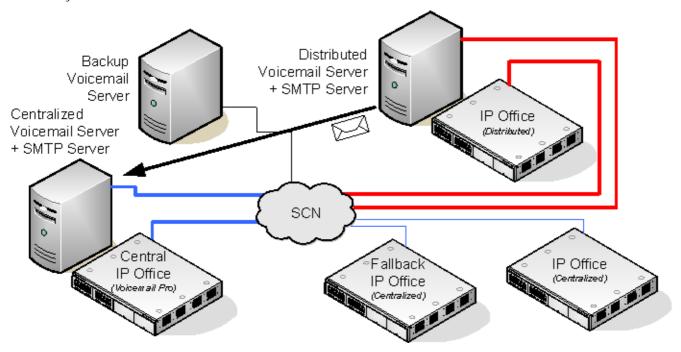
- 1. The centralized voicemail server for the SCN and its central IP Office are configured as normal.
- 2. The Voicemail Pro server software is installed as normal any distributed voicemail server PC's. The distributed voicemail server is not specifically configured as being a distributed server.
- 3. Each IP Office hosting a distributed voicemail server is configured with the Voicemail Type set to *Distributed Voicemail*.



- The Voicemail Destination is set the *Outgoing Group ID* of the H323 trunk to the central IP Office hosting the centralized voicemail server.
- The Voicemail IP Address is set to the IP address of the PC running the distributed voicemail server for the IP Office.

7.5 Combined Options

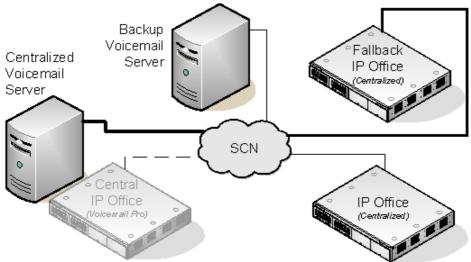
The various centralized voicemail options (standard, fallback, backup and distributed) can be used within the same Small Community Network.



- An IP Office using a distributed voicemail cannot be used as the fallback IP Office for the central IP Office.
- A distributed voicemail server cannot also be used as the backup voicemail server.

Example: Combined Fallback Control and Backup Server Operation

In the example below the fallback IP Office control 114 and backup voicemail server 115 peration can be combined.



Central IP Office
 Unavailable
 If the central IP Office
 becomes unavailable on the
 network, the fallback IP Office
 assumes control of voicemail
 services using the centralized
 voicemail server.

Central Voicemail Server controlled by Fallback IP Office

Central Voicemail
 Unavailable
 If the central voicemail server
 becomes unavailable on the
 network, the central IP Office
 will switch to using the
 backup voicemail server.

Backup Voicemail Server controlled by Central IP Office

 Central IP Office and Central Voicemail Server Unavailable If both the central IP Office and the central voicemail server become unavailable to the network, voicemail services will switch to the backup voicemail server under control of the fallback IP Office.

Combined Backup Voicemail Server and Fallback IP Office Operation

7.6 Installation Notes

SMTP Configuration

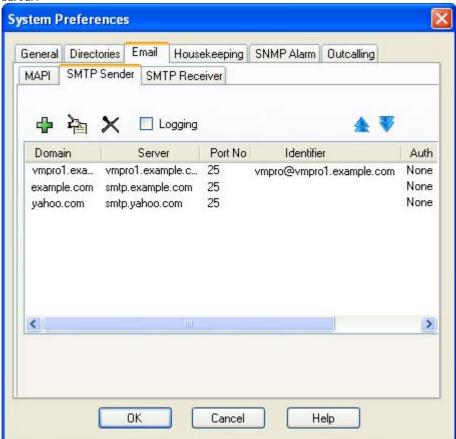
Both the distributed voicemail and backup voicemail scenarios use the same mechanism for the information exchange between the servers. That mechanism uses SMTP emails between the IIS on each of the voicemail servers. Note that this means a server with Microsoft Exchange installed (such as a SBS server) cannot be used as Exchange replaces the IIS SMTP service.

The following notes apply to both scenarios unless specifically stated as otherwise.

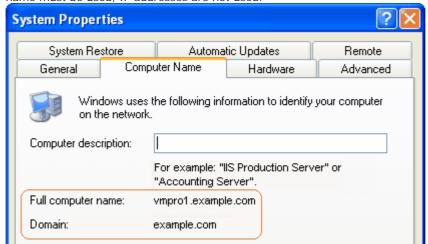
1. Install and Enable IIS

All the voicemail servers (central, distributed and backup) require IIS to be installed and enabled on the server before installation of the Voicemail Pro server software.

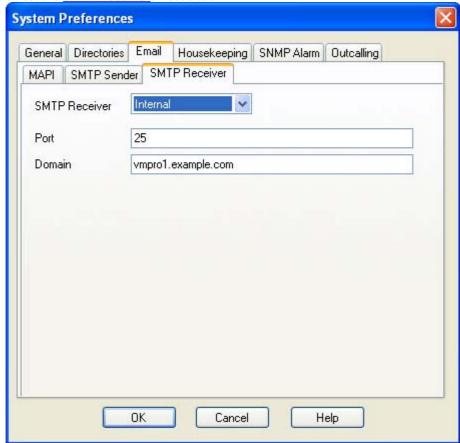
- 1. Start the Internet Information Services manager.
- 2. Right-click on the Default SMTP Virtual Server and select Properties.
- Select the Messages tab. Deselect the Limit Message Size and Limit number of messages per connection options.
- 2. Configure Each Voicemail Pro Server for SMTP Email via ITS Following installation of the Voicemail Pro server software, its should be configured for SMTP email operation as follows:
 - a. By default the Voicemail Pro server installs defaulted to SMTP email operation. However this should be checked.
 - 1. Start the Voicemail Pro Client, Click Preferences and select General.
 - 2. Click the Email tab.
 - 3. Ensure that the MAPI 96 settings are not enabled. .
 - 4. Select the <u>SMTP Sender (97)</u> sub tab. The first entry in the list must be configured for SMTP between the voicemail servers. Set the Domain and Server to the fully qualified domain name of the voicemail server.



• For a Windows based voicemail server, these emails will be received on port 25 by IIS and will be placed in its mail drop folder. To obtain the name, right-click on My Computer and select Properties . The Computer Name tab shows the information that should be used as Full computer name. The name must be used, IP addresses are not used.



5. Select the SMTP Receiver 100 sub tab



- For a Windows based server, set the SMTP Receiver as *External* and set the Drop Folder address to be the IIS mail drop folder (usually *C:\Inetpub\mailroot\Drop*). For a Linux based server set the SMTP Receiver as *Internal*.
- Click OK.
- 6. Click Save & Make Live.
- 3. Ensure that Port 25 is Not Blocked
 Many firewalls block access to port 25 by default. Check that the firewall software being used on the server is
 configured to allow *VMProV5Svc.exe* as an exception.

4. DNS Host Routing (Optional)

SMTP operation uses fully qualified domain names that need to be resolved to IP addresses by the network's DNS server. To guarantee name resolution the hosts files on each server can be used. Note however that if this method is used, any changes to IP addresses of servers will need to be reflected in the file update. Locate the file *C: \Windows\System32\drivers\eta\thoosts* and open it in a text editor such as WordPad. Add IP address and fully qualified domain name entries for each of the other voicemail servers.

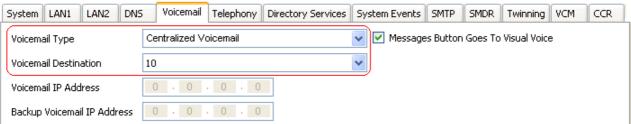
Voicemail Pro Configuration

In all scenarios, each Voicemail Pro server should use the same basic configuration settings, ie. the same voicemail mode (Intuity or IP Office) and the same housekeeping settings.

IP Office Configuration

Configuring Distributed Voicemail Server Operation

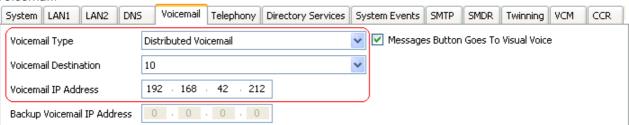
- 1. The centralized voicemail server for the SCN and its central IP Office are configured as normal.
- 2. Each IP Office not hosting a distributed voicemail server is configured with the Voicemail Type set to *Centralized Voicemail*.



• The Voicemail Destination is set the *Outgoing Group ID* of the H323 trunk to the central IP Office hosting the centralized voicemail server.

Configuring Distributed Voicemail Server Operation

- 1. The centralized voicemail server for the SCN and its central IP Office are configured as normal.
- 2. The Voicemail Pro server software is installed as normal any distributed voicemail server PC's. The distributed voicemail server is not specifically configured as being a distributed server.
- 3. Each IP Office hosting a distributed voicemail server is configured with the Voicemail Type set to *Distributed Voicemail*.



- The Voicemail Destination is set the *Outgoing Group ID* of the H323 trunk to the central IP Office hosting the centralized voicemail server.
- The Voicemail IP Address is set to the IP address of the PC running the distributed voicemail server for the IP Office.

Configuring Backup Server Operation

- 1. The Voicemail Pro server software is installed as normal on the backup server PC. The voicemail server is not specifically configured as being a backup server.
- 2. The central IP Office hosting the primary voicemail server is configured with the IP addresses of both the primary voicemail server and the backup voicemail server.



3. The other IP Offices are configured for centralized or distributed voicemail as normal.

Check the Server Connections

1. Check Connection to the Central Server

In the following tests, remember to use the fully qualified domain name of each server.

a. Ping Test

Make a ping from the server to the central server, for example *ping vmpro1.example.com*. You should see a series of 4 successful replies from the sever.

b. Telnet Test

Make a telnet test from the server to the central server, for example *telnet vmpro1.example.com 25.* You should receive a response from the email server within IIS. Enter *qult* to close the telnet connection.

2. Check Connection from the Central Server

Repeat the ping and telnet tests, this time from the central server to the backup or distributed server.

Checking Status with the Voicemail Pro Client

When connected to a Voicemail Pro server using the Voicemail Pro client, the client title bar will display the role assumed by that voicemail server; Centralized Voicemail, Backup Voicemail or Distributed Voicemail.



When connected to the backup voicemail server, if it is the active server, the title will have changed from *Backup Voicemail* to *Backup Voicemail* (*Live*).

When connected to the centralized voicemail server, the Distributed Voicemails folder can be selected to display details of the distributed servers and the state of the connection with each. The Result will be either:

- In Progress
 The servers are synchronizing information via SMTP.
- Up-To-Date The servers are synchronized.

Voicemail Pro Installation IP Office Release 7.0

Chapter 8. Appendix

8. Appendix

8.1 SMTP Logging

SMTP error logging is enabled to generate a log of SMTP activity.

For a Windows based Voicemail Pro installation, the activity is logged in a file in C:\Program Files\Avaya\IP Office\Voicemail Pro\VM\logs. The file name includes a date stamp for the day on which it is generated. For a Linux based server the log files can be archived and downloaded using the web control menus.

SMTP Error Codes

Value	Meaning
1	An exception has occurred.
3	The process has run out of memory.
4	An error has occurred due to a problem with the message body or attachments.
5	There was a problem initiating the conversation with the mail server. Ensure the setting of the Domain property is correct.
6	There was an error terminating the conversation with the SMTP mail server.
7	The "From" address was not formatted correctly or was rejected by the SMTP mail server. Some SMTP servers will only accept mail from particular addresses or domains. SMTP mail servers may also reject a From address if the server can not successfully do a reverse lookup on the address.
8	An error was reported in response to receipt address. The SMTP server may refuse to handle mail for unknown recipients.
9	There was an error connecting to the SMTP mail server.
10	There was an error opening the file. If you have specified file attachments, ensure that they exist and that you have access to them.
11	There was an error reading a file. If you have specified file attachments, ensure that they exist and that you have access to them.
15	No mail server specified.
16	There was a problem with the connection and a socket error occurred.
17	Could not resolve host.
18	Connected but server sent back bad response.
19	Could not create thread.
20	Canceled as a result of calling the Cancel method.
21	The operation timed-out while the host was being resolved.
22	The operation timed-out while connecting.
24	ESMTP Authentication failed.
25	The selected ESMTP Authentication mode is not supported by the server.
26	ESMPT Authentication protocol error.
27	Socket Timeout error.
105	Invalid license key.

Appendix: SMTP Logging

8.2 Installing VoiceMail Pro as an ACM Gateway

Complete the steps in this section to install Voicemail Pro as an ACM Gateway. There is only one type of installation for the Voicemail Pro ACM Gateway. Therefore you are not offered the choice of custom, compact or typical during the installation process.

To install the ACM Gateway:

- Insert the IP Office Applications DVD. Click on the link for Voicemail Pro and then double-click on setup.exe.
 The Choose Setup Language window opens.
- 2. Select the installation language. This language is used for the installation and for the default language prompts.
- 3. Click OK. Installation preparation begins.
- 4. Voicemail Pro requires Microsoft .NET 2.0 Framework. If this version is not detected, you are prompted to install it. Click Yes to install Microsoft .NET 2.0 Framework and follow the instructions on the screen.
- 5. If the Modify, repair or remove the program window appears you need to follow the upgrade process 281.
- 6. In the Welcome window, click Next. The Customer Information window opens.
- 7. In the Customer Information window, type a user name and the company name or use the default names that are proposed. These settings do not affect Voicemail Pro when it is installed.
- 8. In the same window choose the option that determines who should be able to use Voicemail Pro when it has been installed. The recommended option is Anyone who uses this computer (all users).
- 9. In the Customer Information window, click Next. The Choose Destination Location window opens.
- 10. In the Choose Destination Location window, click Browse and locate the folder where the Voicemail Pro files are to be installed. Otherwise, click Next to use the proposed folder. The Messaging Components window opens so that you can choose the components that you want to install.
- 11. In the Messaging Components window, highlight ACM Gateway.
- 12. Click Next. The Service Account Name window opens. Details of the default administrator account may already be filled in.
- 13. In the Service Account Name window, type the User Name and Password for the user account under which the Voicemail Pro service should log on and run. This should be the Voicemail account created previously on the domain and Exchange server. Alternatively, click Browse and select from the list of available PC or network accounts or click Next to use the proposed account details. The Select Program Folder window opens.
- 14. By default, the program folders are created in a folder called IP Office. You can specify a different folder or select one from the list of existing folders. To specify a different folder, type the folder name in the Program Folders box. Alternatively, to use an existing folder, highlight a name in the list of existing folders.
- 15. Click Next. The account details that you have entered are verified. If you entered a new user name, a message is displayed to ask if you want to create a new PC user account with the specified name and password. Click Yes. The Select Program Folder window opens.
- 16. Select the program folder where you would like the icons for the Voicemail Pro components to be added. By default, the program icons are added to IP Office.
- 17. Click Next. The Start Copying Files window opens. Before any copying starts, you are presented with a summary of the settings that you have chosen so far.
- 18. Review the settings to make sure that they are what you expect. Scroll down if necessary.
- 19. If for any reason the details are not what you expect, click Back and make the necessary changes. When you are satisfied that the details are correct, click Next to start copying the files. The Setup Status window opens to keep you informed while the installation takes place.
- 20. When the installation is complete you are prompted to restart the computer. Choose Yes I want to restart my computer now.
- 21. Click Finish to restart now.
- 22. When the computer restarts, log back in. The IP Office Voicemail Pro ACM Gateway Settings window opens.
- 23. In the Mail Server box, type the name of the mail server to use.
- 24. Choose Message Networking/Interchange to use Interchange or Modular Messaging to use Modular Messaging.1.
- 25. Click Next. The IP Office Voicemail Pro SMTP Email Settings window opens.
 - In the Mail Server box, type the name of the SMTP mail server. This should be the fully qualified domain name.
 - In the Port Number box, type the number of the receiving port on the SMTP mail server. The default is 25.
 - In the Mail Drop box, type the name of the destination folder for outgoing emails on the SMTP Server. Alternatively, click the Browse button and select the folder to use.
 - To enforce server authentication, check the Server Requires Authentication box. This is optional. If you check this option you also need to provide the Account Name and Password that need to be entered. You can also choose whether or not to set the Use Challenge Response Authentication option.
- 26. Click Finish. An attempt is made to validate the email settings. If everything has been installed correctly and the license requirements are met, you are prompted to start the Voicemail service. If the attempt to connect with the

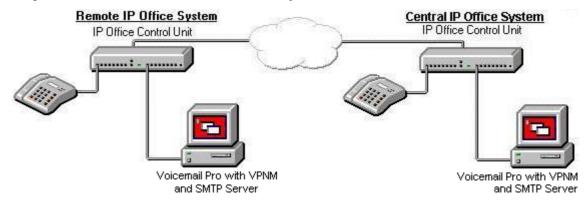
SMTP server fails, an error message is displayed. You might need to start the Voicemail service manually. See <u>Starting the Voicemail Pro Service</u> 28. 27. Click OK to acknowledge the message. You have now finished installing the Voicemail Pro ACM Gateway software.

8.3 Installing Networked Messaging (VPNM)

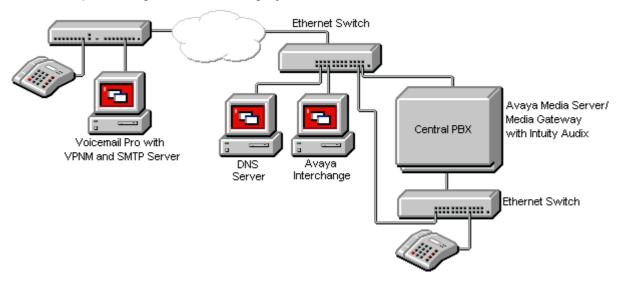
Voicemail Pro Networked Messaging (VPNM) allows users to forward voicemail to mailboxes on remote voicemail systems. This is done by adding a VPNM component to the Voicemail Pro installation.

The messages are transferred between systems using an SMTP/MIME mail format to encode both the voice part of the message and additional message details.

Here is a diagram to illustrate VPNM between two IP Office systems.



Here is a diagram of a sample VPNM configuration between an IP Office and Avaya Interchange. Depending on how your IP Network is set up, the configuration will differ slightly.



Up to 2000 mailboxes are supported per VPNM server and there is no constraint on the number of VPNM servers. However, to distinguish between dial plans you might need to allocate a dial pre-fix to each server. A maximum of 99 pre-fixes are available.

This section summarizes the steps required for installing VPNM between two IP Office systems and between an IP Office system and an Intuity Audix system through Avaya Interchange.

The instructions provided here should be read in conjunction with the other Avaya guides, for example "Avaya Interchange Release 5.4, Adding a VPIM System to Your Network". This is because the setup for Interchange VPIM is the same as for VPNM.

8.3.1 Requirements for VPNM

Check that the following requirements have been before attempting to install VPNM:

- A Voicemail Pro server with VPNM installed connected to each IP Office system. Each system will need a license for both Voicemail Pro and VPNM.
- All systems in the VPNM network need to be tested to ensure that they can communicate across the IP network. It is suggested that you test the following:
 - Ping the IP Addresses.
 - Ping the computer names. If in a domain, ping the fully qualified domain name.
- The VMPro Servers must have an SMTP server installed. This can be done using the SMTP component of Internet Information Service (IIS).
 - To test type "Telnet <the name of the SMTP server > 25".
- Server names, where entered, must be fully qualified domain names.
- Voicemail Pro should not be installed on the same server as Exchange and/or the domain controller.

8.3.2 Installing VoiceMail Pro with VPNM Support

For Voicemail Pro 6.1, the VPNM components are embedded parts of the Voicemail Pro service and so automatically installed.

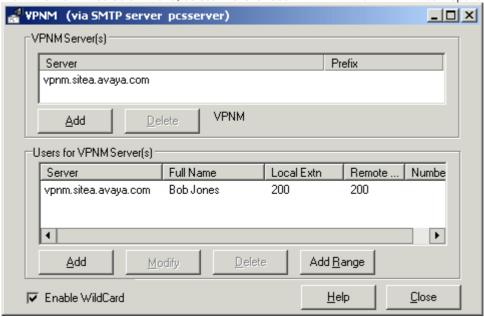
8.3.3 Configuring VPNM Preferences

This set of preferences is used to add a list of the remote VPNM servers and mailbox users on those servers.

• ! These features are not supported on a Linux based Voicemail Pro server.

To open the VPN window:

- 1. Start the Voicemail Pro Client.
- 2. From the Administration menu, select Preferences > VPNM. The VPNM window opens



To add a VPNM server:

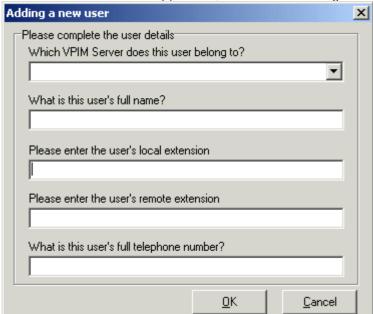
- 1. In the VPNM Server(s) section, click Add.
- 2. Enter the fully qualified domain name of the remote VPNM destination (the remote Voicemail Pro server PC or Avaya Interchange).
- 3. Enter the two digit access prefix, if these are being used.
- 4. Click OK.

To delete a VPNM server:

- 1. In the VPNM Server(s) section, select the server that you need to delete.
- 2. Click Delete. When a server is deleted, all of the users associated with that server are also deleted.

To add a user to VPNM server:

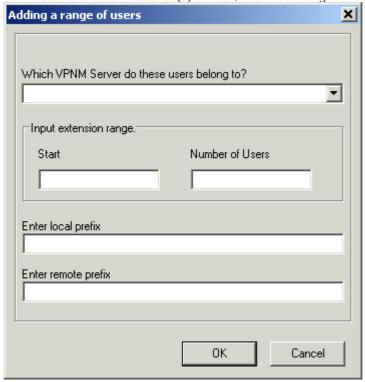
1. In the Users for VPNM Server(s) section, click Add. The Adding a new user window opens.



- 2. Enter details for the user. All of these details MUST be completed before the user can be added.
 - Select the VPIM server from the listing.
 - Enter the user's full name. The user's full name is used by the local Voicemail Pro's dial by name feature.
 - Enter the user's extension. The local extension number is used as the local mailbox number and so should not conflict with any existing local number.
 - Enter the user's remote extension. The remote extension number should be the user's real extension number.
 Typically this and the 'local extension number' are kept the same using a unique extension number dial plan for the linked systems.
 - Enter the user's full telephone number. The full telephone number should be a dialable number that is routed to the user's extension or mailbox.
- 3. Click OK to save the details and return to the VPNM configuration window.

To add a group of users:

- 1. (Optional) Check the option Enable WildCard. When this option is selected you can use the question mark symbol (?) to represent any number.
- 2. In the Users for VPNM Server(s) section, click Add Range. The Adding a range of users window opens.



- 3. Enter details for the users. All of these details MUST be completed before the users can be added.
 - Select the VPNM server to which you want to add the users.
 - · Enter the start number of the extension range.
 - Enter the local prefix.
 - Enter remote prefix.
- 4. Click OK to save the details and return to the VPNM configuration window.

To change details of a VPNM user:

- 1. In the Users for VPNM Server(s) section, select the name of the user whose details need to be changed.
- 2. Click Modify. You can change the user's full name, the local extension number and the full telephone number.

8.3.4 Testing a VPNM Setup

It is advisable to test the VPNM setup.

To test the VPNM setup:

- 1. Dial into voicemail from one of the systems and record a message.
- 2. When selecting the target extension, enter an extension from the other system as specified in the VPNM Preferences screen.
- 3. The message should be delivered to the other systems Voicemail Pro server into C:\\Inetpub\mailroot\Drop.
- 4. The VPNMreceiver Service checks the Drop directory approximately every 30 seconds. When it finds a message in the Drop directory, it will send the message to the relevant extension's voicemail box on the remote system.

Voicemail Pro Installation IP Office Release 7.0

Index	continue working 76
A	Create
	Voicemail User Account 54
access works mailbox 93	Critical Alarm 103
actions including 63	Cti 69 CtiNotifyTracing 69
Add/Remove 28, 30	
Add/Remove Programs 30	D
Add/Remove Programs window 30	DbgView 69
AddRef 69	DbgView window 69
Administrative Tools 68	Debug 69
Alarm Threshold 103	Debug Filters 69 Debug Filters window 69
Alarm Threshold Level 103	Debug View 69
Alarm Threshold Unit	Default Callback 86
Choose 103	Default Settings 103
allow tracing	Default Telephony Interface 93
MAPI 69	change 30
Auth 47, 97	destructed 69
Automatic 103	DestructorTracing 69
Automatic 102 Automatic Message Deletion 102	Diagnostics 69, 70
Avaya Text	Dial In Source Numbers 86
Installing 64	Directory View 68
Speech 64	Disk Space 20
Avaya TTS 63, 64	Disk Space Left 103
Avaya TTS CD 64	Domain 100
Avaya-Scansoft TTS	SMTP 47, 97
compare 63	drop folder 100 DTMF signalling received 93
В	
backupreg.bat 28	E
Barred 89	email Accounts 29, 84, 87
Breakout 84	eMail action 62 email inbox 64
Broadcast 87, 112	Email Messages
C	Content 61
call 28, 63, 76, 77, 81, 84, 86, 87, 89, 93, 102, 105, 112	Email Protocol 52, 57
call archiving system 93	Select 96
Call Recording 93	Email Reading 63, 64
Call/VRL 93	Email Settings 59
Callback 86	Email TTS 64, 96
Centralized Voicemail Pro 112	e-mails 64
channel object	Enable Fax Sub-Addressing
speech 69	Check 93
Channel Reservations 82, 89 ChannelEvtSinkTracing 69	EnableConnectionTracing 69
channels 69, 82, 89	Enable Chicat Tracing 69
client connects	EnableObjectTracing 69 EnableProxyTracing 69
server 69	EnableRefTracing 69
Client trying 68	EnableTagTracing 69
Client/Server Connection Timeout 93	EnableTracing 69
Collect Voicemail 86	Error Logging 128
COM 69	Export 28
COM objects 69	Export Call Flows window 28
compare	F
Avaya-Scansoft TTS 63	fax board 93
Computer Management 68	Fax Calls 93
Computer Management window 68	Fax Sub-Addressing 93
Configure Debug Filters window	finished working 77
Close 69 configure outcalling 105	FireEventTracing 69
Confirm Call Flow Download Window 76	First In-First 102
Confirm Voicemail Code 84, 87	G
construct 69	General Configuration/system 105
ConstructorTracing 69	General Configuration/System Preferences 105
ContactStore 20	General System Preferences
Continue Offline Message Window 76	Changing 93
•	Generic Text

Generic Text	L
Installing 64	Languages
Speech 64	Prompts 9
generic Text To Speech 64	Supported 9
Generic TTS 64	Last In-First Out 102
Group Mailbox Names 81	Licenses
Н	Feature Specific 10
H <group 86<="" name="" td=""><td>Port 10</td></group>	Port 10
HMain 86	Required 10
Housekeeping 102	licenses exist 63
Housekeeping tab 102	LIFO 102
HTML 64	Live 77
Hunt Group Configuration 87	Local System Account 70
Hunt Group Voicemail Indication 86	Log Preferences 69
HuntGroup 87	Logg Errors 128
huntgroupconfiguration.htm 87	Errors 128 Logging 47, 97
1	Out 77
Identifier 47, 97, 100	login 74
Identifying	long outcalling 105
Voicemail Server PC 82	M
Idle 102	
IIS 121	mail drop folder 100 Mailbox Mode 87
Import 28 Import Call Flows 28	Select 30
IMS Administration 69	MailboxEvtSinkTracing 69
IMS Client Keys 69	Main Voicemail Pro Window 93, 95, 96, 102, 103, 105
IMS email 102	Making them Live 77
IMS Server 69	MAPI
IMS Tracing 69	Password 52, 57, 96
Inactive 93	Profile 52, 57, 96
Inactivity Timeout 93	MAPI - Email Protocol 52, 57
increase/decrease	MAPI email 64, 70, 96
want 69	MAPI Email Preferences
increase/decrease reporting 69	Setting 96
Inetpub/mailroot/Drop 137	MAPI Password
Install Voicemail Pro 30	leave 96
Installatio	MAPI Profile 96
ACM Gateway 129	MAPI-based Voicemail Email
Installation	Voicemail Pro 64
Compact 21	MAPIEventTracing 69
Installation Process 64	Max 93
Installshield 30 InstallShield Wizard 29	mdb 28 Member Of 87
Welcome 30	Message Deletion Times
Interact 70	Setting 102
Intuity Mailbox Mode 30	message housekeeping 102
Intuity Mailbox User Guide	Message Housekeeping Preferences 102
read 93	Message Length 93
IP Office 4.0.	MessageEvtSinkTracing 69
IP Office VoiceMail Pro 3.2 29	MessageProcessingTracing 69
IP Office Admin Suite window 30	Messages button
IP Office feature key server 14	use 86
IP Office Mailbox Mode 30	messages/recordings 93
IP Office Manager application 81	Microsoft .NET Framework 14
IP Office Manager User 82, 112	Microsoft 3rd 64
IP Office Manager User Guide 82	Microsoft IIS Web Server 20
see 112	Microsoft Sam 63, 64
IP Office Mode 87	Microsoft SAPI 63
IP Office Settings 60	Microsoft Speech SDK 63
IP Office Small Community Network 112	Microsoft Speech SDK 5.1
IP Office VoiceMail Pro 3.2	use 63
IP Office 4.0. 29 IP Office Voicemail Pro CD 29	Microsoft TTS 63, 64 Microsoft Windows
IP Office Voicemail Pro CD 29 IP Office Voicemail Pro window	part 63
Upgrading 29	Mike 63, 64
-rg: aan 19 -0	

mins 93	Registry 28
Mobile 84	restorereg.bat 28
Multiple Language TTS Support 63	Restrictions 112
N	Retries
Names 77	Number 105
New Software	Retry Interval 105
Install 28, 30	Root.vmp 77, 95
no Remote 74	Run DbgView.exe 69
Notify 76	Russian 63
0	\$
on outgoing calls 89	SAPI 63, 64
on/off 84, 87	SAPI5 TTS 63
outcalling options 105	ScanSoft 63, 64
Outcalling Preferences 29	ScanSoft TTS 63
Setting 105	SCN 112
Outcalling tab 105	Selecting Mailboxes 63
Outcalling window	Send messages via email 62
return 105	Sender 52, 57, 96 Server
Outlook Express 55	SMTP 47, 97
P	Server Name 74
Password	Server PC 63, 69, 93
MAPI 52, 57, 96	Set voicemail email 84
SMTP 47, 97	set Voicemail Email Mode 84
Peak Times 105	Setup.exe
Personal Announcements	CD 29
points 29	Simple Mail Transfer Protocol 103
Ping 121	Simple Network Management Protocol 103
Play Advice	Simplified Chinese 63, 64
check 93	Simultaneous 63
Port	Small Community Network 112
SMTP 47, 97	SMTP 47, 97
Preferences icon 30	SMTP - Email Protocol 52, 57
Prefix 86, 93	SMTP email 29
Prime Times 105	SMTP Receiver 100
Problems 70, 89, 93, 112	SMTP Server
produce WAV file 63	Settings 59
Profile 52, 57, 96	SNMP 103
Program Maintenance window 30	SNMP Alarms
program provides 70	Setting 103
Program window 30	Software 28, 64, 69, 74
Prompts 9	SOFTWARE/Avaya/Integrated Messaging/Admin" 69
Provide 69	SOFTWARE/Avaya/Integrated Messaging/Client" 69
Provide tracing	Source 86
indicate 69	Source Numbers View 86
Provide tracing about 69	Speak Text Action 63, 64
Provides voicemail 112	Specification 65, 64
R	PC 15
Read Email 64	Specifying
Reception 84	MAPI 96
Reception/Breakout 84	start operating 93
recognize	Start Voicemail Pro 28
PC 82	Startup 30
Recording Time 93, 103	steps appropriate 96
REG_DWORD 69	Support Email Text
Registry 69	Speech 63
Restore 28	System Fax Number 93
Release 69	System Preferences window 93
Remote Campaign Directory 95	System Resources 89
Remove 28, 64	System Retry Settings 105
Remove Voicemail Lite 30	System Settings 102
Remove Voicemail Pro 28	System Status Application
Resources 89	Open 89
restore	see 89
Database 28	System Times 105

System Tool 68	Voice Recording Library 20
systems running 87	Voicemail
Ť	Email settings 60
-	Voicemail Channel Reservations 82, 89
tab gives list 86	Voicemail Code 84, 86, 87
TCP/IP networking 19	Voicemail Console 70
telephone number including 86	Voicemail Destination
Telnet 121	Leave 82
temp/backup.mdb 28	Voicemail Domain Account
Testing	Creating 50
VPNM 137	Voicemail Email 63, 64, 84, 87
VPNM Setup 137	MAPI 96
Text To Speech 63, 64, 96	Voicemail Email Mode
TimeAndTrace 69	Select 84, 87
TOC 105	Voicemail Email Reading 64, 84
tracing	Voicemail Help 84, 87
MAPI 69	Voicemail IP Address 82
Trusted Source 86	Voicemail Lite 84, 86, 87
TTS 64	close 30
choose 63	Voicemail 30
includes 63	Voicemail Pro 28, 30 Voicemail Lite Folders
license 64	Move 30
start 64	Voicemail Lite Installation Manual 87
TTS Usages 63	Voicemail Lite Manual 84
TTY 9	Voicemail Lite/Pro 82
U	Voicemail Mailbox 64, 93
UMSEventTracing 69	Voicemail Message 84, 87
unchecking	Voicemail On
Voicemail On 84	unchecking 84
un-checking	un-checking 87
Voicemail On 87	Voicemail Password
Under Log 70	match 93
Unit Name/IP Address 74	VoiceMail Pro
Up Text To Speech	System Overview 7
Setting 64	VoiceMail Pro 4.0. 29
Updates In 87	Voicemail Pro below version 3.2 28
Upgrade 28, 64 IP Office VoiceMail Pro window 29	VoiceMail Pro Call Flow
Voicemail Pro 28, 30	Start 26, 66
US 63	Voicemail Pro CD
User	contains 28
SMTP 47, 97	Insert 28
User Source Numbers	Voicemail Pro Client
Configuring 86	Close 28, 77 run 74
userconfiguration.htm 84	run 74 Start 28, 30
UserID 68	use 93
Using IP Office Manager 64	Voicemail Pro Client window 74
Using Voicemail 86	Voicemail Pro GUI
Using Windows Explorer 30	Start 28
utilisation	Voicemail Pro housekeeping 102
view 89	Voicemail Pro Installation 64
V	Voicemail Pro installation includes 64
Version 3.2 28, 29	Voicemail Pro Login window 74
VM Pro 63, 64	Voicemail Pro Server 63, 77, 103, 112, 137
VM Pro Generic TTS 63	connect 74
VM Pro ScanSoft TTS 63	Voicemail Pro Service 29, 96
VM Pro TTS 64	Locate 70
VM Server Specific 69	set 70
Vmdata.mdb 77	Voicemail Pro Software 30, 63
VMLite.exe 30	Voicemail Pro TTS 63
vmp file 77	Voicemail Pro User Log 68
VMPro TTS 64	Voicemail Pro window 93, 95, 96, 102, 103, 105
VMPro User Log 68	Voicemail Professional Server 70
VMS API 69	voicemail ringback 86
VmsNotifyTracing 69	Check 84

```
Voicemail Ringback Number 86
Voicemail Server Directory 95
Voicemail Server PC
   Identifying 82
Voicemail Server Speech Directory 95
voicemail service 26, 66
Voicemail System 95
Voicemail System Files 95
Voicemail Trusted Source Access 86
Voicemail Type 82
   Line
        112
   Set 112
Voicemail User Account 64
   Create 54
VoIP 112
VPNM 131
   add 107, 134
   delete 107, 134
   Select 107, 134
   test 137
VPNM Preferences 137
VPNM Requirements 132
VPNM Setup
   Testing 137
VPNM Support 133
VPNMreceiver Service 137
VRL 93
VRL Record Length 93
Waiting Indication 86
WAN 74, 76
Windows 2000 70
Windows Explorer 30
Wizard 28, 30
Wordpad 69
Work 77, 105
Work Group Member
   Email 54
Workstation 74
www.microsoft.com/speech/download/sdk51 63
X
XP 70
Υ
```

Yes - Select 76

Performance figures and data quoted in this document are typical, and must be specifically confirmed in writing by Avaya before they become applicable to any particular order or contract. The company reserves the right to make alterations or amendments to the detailed specifications at its discretion. The publication of information in this document does not imply freedom from patent or other protective rights of Avaya or others.

All trademarks identified by the ® or ™ are registered trademarks or trademarks, respectively, of Avaya Inc. All other trademarks are the property of their respective owners.

This document contains proprietary information of Avaya and is not to be disclosed or used except in accordance with applicable agreements.

© 2011 Avaya Inc. All rights reserved.