



# **IP Office Release 6.0**

## **Embedded Voicemail Installation**

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# **Chapter 1.**

# **IP Office Embedded Voicemail**



# 1. IP Office Embedded Voicemail

For IP Office Release 6.0, embedded voicemail is supported by IP Office 406 V2, IP Office 500 and IP500 V2 control units. Embedded voicemail provides basic voicemail mailbox operation and auto-attendant operation without requiring a separate voicemail server PC.

Embedded Voicemail uses the following components:

- **Memory Card**  
The type of memory card used depends on the type of IP Office control unit. However, in all cases, the cards are specially formatted by Avaya. Alternate third-party memory cards are not supported for Embedded Voicemail.
  - **IP Office IP406 V2 and IP Office 500 Control Units**  
These controls units require an optional Avaya Compact Flash memory card to be installed in order to use embedded voicemail.
  - **IP500 V2 Control Units**  
This type of control unit uses the mandatory System SD card installed in all IP500 V2 systems for embedded voicemail if required.
- **IP Office Manager Application**  
Embedded Voicemail is configured using options in the IP Office configuration using the IP Office Manager application.

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## Notes

- **Other Voicemail Servers**  
Embedded Voicemail cannot be used in conjunction with another voicemail server, for example IP Office Voicemail Pro server. The presence of another voicemail server on the same network may cause Embedded Voicemail to fail to operate correctly and vice versa.
- **IP Office PARTNER Version**  
This guide is for embedded voicemail on IP Office in IP Office mode. It does not cover IP Office PARTNER Version.

## 1.1 Mailbox Features

The IP Office system automatically creates an embedded voicemail mailbox for every user and hunt group in the IP Office configuration.

For users, the mailbox is automatically used to answer calls to the user that ring unanswered for the user's configured No Answer Time. The mailbox is also used in other situations where the IP Office would have otherwise returned busy tone, for example when the user is set to Do Not Disturb.

For hunt groups, the mailbox is used when a call has rung for the group's Voicemail Answer Time.

- For security, a voicemail access code can be assigned to any mailbox. This can be changed by the mailbox user or the system administrator.
- For user mailboxes, message waiting indication is provided to the user's IP Office phone extension and to their IP Office user application (Phone Manager or one-X Portal).
- For hunt group mailboxes, message waiting indication can be assigned to specified users.
- Various [dialling short codes](#) <sup>[48]</sup> can be used to control voicemail features and for actions such as collecting messages, leaving messages, turning voicemail on/off.

## Embedded Voicemail System Comparison

Feature	IP406 V2 and IP500 Control Units	IP500 V2 Control Unit
Memory Type	512MB Compact Flash.	4GB SDHC Card
Compression Method	Uses G711. VCM not required.	Uses G711. VCM not required.
Storage	15 Hours.	15 Hours.
Maximum Simultaneous Connections	4 Channels. Not adjustable.	6 Channels. 2 Channels by default. Additional channels require licenses.
Maximum Individual Message Length	Default 120 seconds. Adjustable between 3 and 180 seconds.	Default 120 seconds. Adjustable between 3 and 180 seconds.
Auto Attendant	Yes	Yes

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## 1.2 What's New

### What's New in IP Office Release 6.0

For Avaya IP Office Release 6, the following changes were made to embedded voicemail:

- **Embedded Voicemail Default**  
For new installed IP Office systems and defaulted systems, the voicemail setting of the IP Office system is set to *Embedded Voicemail*.
- **Auto Attendant Direct Dial by Name**  
For each auto attendant, the Dial by Name feature added in IP Office Release 5 can be made to operate in one of two ways, controlled by the new Direct Dial by Name setting.
  - If selected, the key press for the action is included in any following digits dialed by the caller for IP Office extension matching. For example, if 2 is set in the actions to *Dial by Number*, a caller can dial 201 for extension 201.
  - If not selected, the key press for the action is not included in any following digits dialed by the caller for IP Office extension matching. For example, if 2 is set in the actions to *Dial by Number*, a caller must dial 2 and then 201 for extension 201.
- **IP500 V2 Control Unit Support**  
Embedded voicemail is supported on the System SD card used by IP500 V2 control units. 2 channels are supported by default but additional channels can be licensed up to a maximum of 6 channels. The prompts and messages storage capacity for IP500 V2 embedded voicemail is limited to 15 hours regardless of the capacity of the SD card.
- **Memory Card Commands and Short Codes**  
IP Office Release 6 introduces a wide range of controls for memory card management, some of which affect embedded voicemail.
  - The Shutdown Embedded Voicemail short code is still supported but is now only used stopping the embedded voicemail service provided by a memory card. If the card needs to be removed from the control unit, one of the new memory card shutdown commands should be used instead. These can be run from IP Office Manager or, System Status applications or from phones configured as system phones.
  - A Startup Embedded Voicemail short code feature has been added.
- **Visual Voice Message List**  
Previously visual voice would playback messages in sequence with controls to allow the user to move to the next or previous messages. IP Office Release 6 now displays a list of messages and allows selections of which messages to playback. This changes is applied to all voicemail servers including embedded voicemail.



## 1.3 Languages Supported

Embedded Voicemail supports a range of language prompt sets. The following languages are supported for Embedded Voicemail. The matching folder name is shown in () brackets.

- Chinese-Mandarin (chs)
- Chinese-Cantonese (zhc)
- Danish (dan)
- Dutch (nld)
- English-UK (eng)
- English-US (enu)
- Finnish (fin)
- French (fra)
- French-Canadian (frc)
- German (deu)
- Italian (ita)
- Korean (kor)
- Norwegian (nor)
- Portuguese (ptg)
- Portuguese-Brazilian (ptb)
- Russian (rus)
- Swedish (sve)
- Spanish (esp)
- Spanish-Mexico (esm)
- Spanish-Argentina (ess)

The IP Office system Locale setting is used to determine the default language prompts used. A Locale setting is set for the whole IP Office system. For individual users and incoming call routes the system local can be overridden.

For calls to voicemail, the locale used is determined as follows:

- The user locale, if set, is used if the caller is internal.
- The incoming call route locale, if set, is used if caller is external.
- If no user or incoming call route locale is applicable, the system locale is used.
- A short code locale, if set, is used and overrides the options above if the call is routed to voicemail using the short code.

If a selected Locale is not supported, a fallback language is used as indicated in the table.

Locale selected in Manager	Fallback Language
Australia (UK English)	English-UK (eng)
Belgium (Dutch)	Dutch (nld)
Belgium (French)	French (fra)
Canada (Canadian French)	French (fra)
Chile (Latin Spanish)	Spanish (esp)
Colombia (Latin Spanish)	Spanish (esp)
Greece (Greek)	English-UK (eng)
Hong Kong (Cantonese)	English-UK (eng)
Hungary (Hungarian)	English-UK (eng)
Iceland (Icelandic)	English-UK (eng)
India (UK English)	English-UK (eng)
New Zealand (UK English)	English-UK (eng)
Peru (Latin Spanish)	Spanish (esp)
Poland (Polish)	English-UK (eng)
Saudi Arabia (UK English)	English-UK (eng)
Singapore (UK English)	English-UK (eng)
South Africa (UK English)	English-UK (eng)
Switzerland (French)	French (fra)
Taiwan (Putonghua)	Chinese (mandarin)
Venezuela (Latin Spanish)	Spanish (esp)



# **Chapter 2.**

# **Installing Embedded Voicemail**

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## 2. Installing Embedded Voicemail

The installation process can be divided into the following steps:

### 1. Embedded Voicemail Installation

The physical installation of the memory card. This process varies according to the IP Office control unit type.

- [IP406 V2 Control Unit](#) <sup>13</sup>
- [IP500 Control Unit](#) <sup>13</sup>

### • IP500 V2 Control Unit

No hardware installation is necessary for IP500 V2 control units as they use the already installed mandatory System SD card for embedded voicemail.

### 2. Upgrade Prompts <sup>14</sup>

A set of prompts are provided on Embedded Voicemail memory cards supplied by Avaya. However these may not match the full set of prompts required for new features in your systems installed version of IP Office.

### 3. Enable Embedded Voicemail <sup>15</sup>

Set the IP Office to use Embedded Voicemail and set the maximum record time for messages, greetings and prompts.

### 4. User Mailbox Configuration <sup>18</sup>

Configure the personal settings for individual users.

### 5. Hunt Group Mailbox Configuration <sup>28</sup>

Configure the settings for any hunt groups where voicemail is required. This includes configuring message waiting indication and mailbox access which are not enabled by default.

### 6. Auto Attendant Configuration <sup>32</sup>

Setup any required auto-attendant services and associate them with incoming call routes.

## 2.1 IP406 V2/IP500 Installation

The following instructions detail the process for installing Embedded Voicemail for an IP500 system.

1. Check that the following requirements have been met.
  - Hardware:
    - IP Office control unit.
    - Avaya supplied Embedded Voicemail Memory Card (512MB Compact Flash).
    - IP Office Administrator Applications CD matching the software release of the IP Office system.
  - Configuration:
    - PC, connected to the IP Office network with the IP Office Manager application installed.
2. Install the Memory Expansion Card  
The memory card is a Type II Compact Flash memory card. Only a card supplied by Avaya can be used for embedded voicemail. Compact Flash cards from other sources cannot be used for embedded voicemail.
  - Insert the memory card into the C/F TII card slot. Insert the card with the memory card label upwards.
3. [Upgrade the Prompts](#) <sup>14</sup>  
If necessary the prompts on the Embedded Voicemail memory card can now be upgraded to match the software level of the IP Office.
4. [Enable Embedded Voicemail](#) <sup>15</sup>  
For new and defaulted systems embedded voicemail is enabled by default.

## 2.2 IP500 V2 Installation

The following instructions detail the process for installing Embedded Voicemail for an IP500 system.

1. [Upgrade the Prompts](#) <sup>14</sup>  
If necessary the prompts on the Embedded Voicemail memory card can now be upgraded to match the software level of the IP Office.
2. [Enable Embedded Voicemail](#) <sup>15</sup>  
For new and defaulted systems embedded voicemail is enabled by default.
3. Add Embedded Voicemail Licenses  
If more than 2 channels are required, the licenses for the additional channels up to a total of 6 channels should be added.

## 2.3 Upgrading Prompts

Embedded voicemail memory cards are normally supplied with the prompt files pre-installed. However subsequent IP Office releases may add new features that require additional prompts.

Therefore, for all new installs it is recommended that you upgrade the prompts to match the IP Office software release. In addition, when upgrading IP Office systems with embedded voicemail already installed, you should check whether [new features](#) requiring additional prompts have been added.

All the prompts for Embedded Voicemail are found in the *LVMSound* folder in the installation package for IP Office Administrator Applications.

### Additional Prompts

The following table lists the additional prompts required by successive IP Office software releases since IP Office 3.2.

IP Office 4.0	IP Office 4.2	IP Office 5.0		
SVM_24.c11	IVR_25.c11	G0022.c11	G0716.c11	G0727.c11
SVM_26.c11	IVR_26.c11	G0701.c11	G0717.c11	G0728.c11
MNU_11.c11	IVR_27.c11	G0702.c11	G0718.c11	G0731.c11
	MNU_4.c11	G0703.c11	G0719.c11	G0733.c11
		G0704.c11	G0721.c11	G0735.c11
		G0705.c11	G0722.c11	G0737.c11
		G0706.c11	G0724.c11	G0738.c11
		G0714.c11	G0725.c11	G0739.c11
		G0715.c11	G0726.c11	

### Checking the Prompt Sets

The additional embedded voicemail features added in new IP Office releases require new prompts. Missing prompts can be reported in IP Office System Monitor by enabling the trace options Filters | System | Error. Error messages are output at regular intervals.

```
158267586mS ERR: EVM 4p0 upgrade file clips missing
158267587mS ERR: EVM 4p2 upgrade file clips missing
158267592mS ERR: EVM 5p0 upgrade file clips missing
```

### Transferring the Prompt Files Using IP Office Manager



This option is supported for IP Office 4.2+.

1. Start IP Office Manager.
2. Select File | Advanced | Embedded File Management.
3. Use the Select IP Office menu to select the required IP Office system.
4. The next step will depend on the type of IP Office control unit:
  - IP406 V2 / IP500 Control Units  
Select File | Upload Voicemail Prompts. This will transfer the prompt files installed with IP Office Manager to the memory card.
  - IP500 V2 Control Units  
Select File | Upload System Files. This will transfer the the prompts files installed with IP Office Manager and the IP Office firmware files. Do not do this if the level of IP Office Manager software is not appropriate for the IP Office system.

## 2.4 Enabling Embedded Voicemail

The system configuration for embedded voicemail is common to all the IP Office systems that support it. For IP Office Release 6, this option is enabled by default and needs to be disabled if not using embedded voicemail.

To configure an IP Office for Embedded Voicemail:

1. This process requires the IP Office system to be rebooted to complete the process. That will end all current calls and operation for a period of up to 5 minutes.
2. Open IP Office Manager and receive the IP Office configuration.
3. Select  System.
4. View the System tab.
  - The Locale setting should match the language for spoken prompts required from the Embedded Voicemail. For more information, see [Languages Supported](#). If it is not correct, consult with the customer first. This Locale setting controls many default aspects of IP Office operation and so is normally already be set to match the customer's locale.
5. Click the Voicemail tab.
6. From the Voicemail Type list, select Embedded Voicemail.
7. Set the Maximum Record Time for messages and prompts to the value required by the customer. The allowable range is 30 to 180 seconds with 110 seconds as default.
8. Click OK to save the voicemail system changes.
9. Click  to send the configuration change back to the control unit.
10. Once the IP Office system has restarted, from an extension on the system dial \*17. The embedded voicemail should answer and start to give you prompts.

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## 2.5 Removing Memory Cards

The memory card should never be removed from the system during normal IP Office operation. Doing so can cause the corruption of files in use. Either the memory card or the whole IP Office system must be shutdown before removing a memory card.

Whilst the card is shutdown, voicemail is not available to the IP Office system. Any other services that use the memory card will also be disabled. For IP500 V2 systems, features licensed by the card will continue for up to 2 hours while the card is not present.

Once a memory card has been removed, reinserting the memory card will restart it.

### Memory Card Shutdown Using IP Office Manager

1. In IP Office Manager, select Start | Advanced | Memory Card Command | Shutdown. For IP500 V2 systems select the System SD card.
2. Check that the LED for the memory card slot has been extinguished. The card can now be removed.
3. To restart the card without removing and reinserting it, select Start | Advanced | Memory Card Command | Startup.

### Memory Card Shutdown Using the IP Office System Status Application

1. In System Status, select System | Memory Cards. For IP500 V2 systems select the System SD card.
2. Select Shutdown.
3. Check that the LED for the memory card slot has been extinguished. The card can now be removed.
4. To restart the card without removing and reinserting it, select Startup.



# **Chapter 3.**

# **User Mailbox Configuration**

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## 3. User Mailbox Configuration

Embedded Voicemail creates a mailbox for each user on the IP Office system. Calls are routed to the mailbox whenever the user's extension is busy or does not answer within the users allocated no answer time. This includes calls that are forwarded to another internal destination.


An individual user's mailbox can be configured either through the mailbox and system short codes (refer to the Embedded Voicemail User Guide) or by configuring the user settings in the IP Office Manager.


- **Message Waiting Indication**  
If supported by the user's current phone, the user will receive message waiting indication whenever their mailbox contains new messages. The type of message waiting indication will depend on the telephone.
- **Mailbox Access**  
The standard default short code (\*17) can be used to access an extensions associated user mailbox. Other methods of mailbox access can be configured.
  - For IP Office 4.2+, the MESSAGES button on phones, which normally emulates \*17, can be configured to access Visual Voice mode on phones that can support [Visual Voice](#)<sup>[47]</sup>. This is done using the Messages Button Goes To Visual Voice (*System / Voicemail*) option.
- **Ringback**  
Embedded Voicemail can be set to ring the user whenever they have new messages in their mailbox. This ringback is triggered the completion of a call at the user's extension. Ringback from a hunt group mailbox containing new messages may also occur if the user is configured to receive hunt group message waiting indication.
- **Voicemail On/Off**  
The sending of calls to the user's mailbox can be switched off. Note however that this does not stop other methods of leaving messages directly in the user's mailbox.
- **Access Code**  
An access code can be assigned to the mailbox. Anyone accessing the mailbox must first enter this code, before they can collect messages. The access code can be reset by the user once they are in their mailbox.
- **Voicemail Reception & Breakout Numbers**  
Setting a Voicemail Reception number for a user, allows callers leaving a message in their mailbox to dial \*0 to be transferred to that number. If used this feature should be announced in the mailbox greeting prompt. Two transfer numbers can also be entered. The user can record a message stating that the caller can press \*2 or \*3 to transfer to the specified telephone numbers.
- **Announcements**  
IP Office 4.0+ allows Embedded Voicemail to provide announcements to calls waiting to be answered by users. This is similar to the announcements provided for [hunt groups](#)<sup>[29]</sup>, with announcements being played to callers waiting to be answered. Due to the overlap of various timeouts, the use of user announcements is not recommended in conjunction with forwarding and voicemail.
- **Voicemail Email**  
IP Office 4.2+. A user can have notification of new messages sent to your their address. The notification can be a simple alert to tell them that they have a new message or the voicemail message can be sent if required. See [Voicemail Email Integration](#)<sup>[27]</sup>.


### WARNING: Changing User Names

Mailboxes are created based on each user's unique user name within the IP Office configuration. Changing a user name will associate that user with a new mailbox. If it is necessary to change a user name, ensure that they have played and deleted all their messages first. If a user name is changed without clearing the original mailbox, it will be necessary to create a short code based on the old user name in order to access the old mailbox.

To change voicemail configuration for an individual:

A  symbol indicates that the setting can also be set and locked through user rights. For details refer to the IP Office Manager documentation.

1. Open IP Office Manager and receive the IP Office configuration.
2. In the Navigation pane click  User and select the individual user.
3. View the Voicemail tab.

- Voicemail Code: *Default = Blank, Range = 0 (no code) to 15 digits.*  
A code (1-15 digits) used to validate access to the mailbox. If remote access is attempted to a mailbox that has no voicemail code set, the prompt "Remote access is not configured on this mailbox" is played.
  - The mailbox user can change the code by dialing \*04 after having entered 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 would have otherwise returned busy. Note that selecting off does not disable use of the user's mailbox. Messages can still be forward to their mailbox. The mailbox can also still be accessed to collect messages.
- Voicemail Help *Default = Off*  
This setting is not used for embedded voicemail. Help can be accessed by dialing \*4 after accessing the mailbox.
  - Voicemail Ringback: *Default = Off*   
When enabled and a new message has been received, the voicemail server calls the user's extension to attempt to deliver the message each time the telephone is put down. Voicemail will not ring the extension more than once every 30 seconds.
  - Voicemail Email Reading: *Default = Off*  
This setting is not used for embedded voicemail.
  - UMS Web Services: *Default = Off, Software level = 4.2+.*  
This setting is not used for embedded voicemail.
- Voicemail Email: *Default = Blank (No voicemail email features)*  
This field is used to set the user or group email address used for [voicemail email operation](#)<sup>[21]</sup>. When an address is entered, the additional Voicemail Email controls below are selectable.
- 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.
  - *Off*  
If off, none of the options below are used for automatic voicemail email. Users can also select this mode by dialing \*03 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.


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- *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 there is no message waiting indication. As with Copy, there is no mailbox synchronization between the email and voicemail mailboxes. Users can also select this mode by dialing \*07 from their extension.

- *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.

- 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 mailbox 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+, system default values can be set for these numbers and are used unless a different number is set within these user settings. Also for IP Office 5.0+, these values can be set using User Rights.

- Reception / Breakout (DTMF 0)

The number to which a caller is transferred if they press \*0 while listening to the mailbox greeting rather than leaving a message.

- 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.

- Breakout (DTMF 3)

The number to which a caller is transferred if they press \*3 while listening to the mailbox greeting rather than leaving a message.

4. Click OK to save the voicemail changes for the user.

5. Amend any other user details, then save and merge the configuration changes.

## 3.1 Voicemail Email Integration

For IP Office 4.2+, the use of Voicemail Email features with Embedded Voicemail is supported. This uses the IP Office system's SMTP settings to send messages to the customer's email server. That server then forwards those messages into the user email mailboxes.

Once enabled, users can select to have a email alert about each new voicemail message or to have the voicemail message forwarded to their email mailbox. In addition when listening to a message in their voicemail mailbox they can forward it to their email mailbox.

- **Warning**  
The sending of .wav files across a network creates a high loading on the network and networks servers. A one-minute message requires a 1MB .wav file.
1. Note that changing the IP Office's SMTP settings requires the system to be restarted.
  2. Obtain details of the customer's SMTP email server. It may be necessary to configure a user account on that server in order for it to accept and relay emails from the IP Office.
  3. Using IP Office Manager, receive the IP Office system configuration.
  4. Select System and then the SMTP tab.
  5. Enter the details to match the customer SMTP server.
    - **IP Address**  
The IP address of the customer's SMTP server. If not on the same subnet as the IP Office LAN, an IP route must also be added.
    - **Port**  
The SMTP listening port of the server. The default is 25.
    - **Email From Address**  
This is the address that will be used by the IP Office. Some servers will only relay messages from recognized full addresses or addresses in the same domain.
    - **Server Requires Authentication**  
If the server requires a user account to receive and send emails, enter the details of an account configured on that server for use by the IP Office.
  6. For each user, select User | Voicemail.
  7. In the Voicemail Email field enter the user's email address.
  8. Using the radio button, select the type of Voicemail Email function alerts for the user.
    - **Off**  
Don't send email alerts for new messages. Users can select this themselves by dialing \*03.
    - **Copy**  
Send a copy of each new message received to the user's email address. User's cannot select this mode themselves.
    - **Forward**  
Forward each new message received to the user's email address, deleting the message from their mailbox. Users can select this themselves by dialing \*07.
    - **Alert**  
Send an email alert for each new message received. Users can select this themselves by dialing \*02.
  9. Send the configuration back to the IP Office.

## 3.2 User Announcements

Announcements are played to callers waiting to be answered. This includes callers being presented to hunt group members, ie. ringing, and callers queued for presentation.


- IP Office 4.0+ supports announcements using Embedded Voicemail.
- If no voicemail channel is available for an announcement, the announcement is not played.
- Calls can be answered during the announcement.
- If a call is rerouted to a hunt group's Night Service Group or Out of Service Fallback Group, the announcements of the new group are applied.
- If a call overflows, the announcements of the original group are still applied, not those of the overflow group.
- For announcements to be used effectively, the hunt group's Voicemail Answer Time must be extended or Voicemail On must be unselected.

### Announcement Configuration

1. Open IP Office Manager.
2. Select the user or hunt group for which announcements are required.
3. View the Announcements tab.

The screenshot shows the 'Announcements' configuration window. It includes a 'Synchronise Calls' checkbox and several settings: 'Announcements On' (checked), 'Wait before 1st announcement (seconds)' (1), 'Flag call as answered' (unchecked), 'Post announcement tone' (Music on hold), '2nd Announcement' (checked), 'Wait before 2nd announcement (seconds)' (20), 'Repeat last announcement' (checked), and 'Wait before repeat (seconds)' (20). A flow diagram in the center shows the sequence: 'Play 1st announcement' leads to 'Post announcement tone', which leads to '2nd Announcement', which leads to 'Repeat last announcement', which leads to 'Wait before repeat (seconds)', which loops back to 'Play 2nd announcement'.

- **Announcements On:** *Default = Off.*  
This setting enables or disables announcements.
- **Wait before 1st announcement:** *Default = 10 seconds. Range = 0 to 9999 seconds.*  
This setting sets the time delay from the calls presentation, after which the first announcement should be played to the caller. If Synchronise Calls is selected, the actual wait may differ, see below.
- **Flag call as answered:** *Default = Off.*  
This setting is used by the IP Office CCC and CBC applications. By default they do not regard a call as answered until it has been answered by a person. This setting allows calls to be marked as answered once the caller has heard the first announcement. This setting is not used by the IP Office Customer Call Reporter application.
- **Post announcement tone:** *Default = Music on hold.*  
Following the first announcement, you can select whether the caller should hear *Music on Hold*, *Ringing* or *Silence* until answered or played another announcement.
- **2nd Announcement:** *Default = On.*  
If selected, a second announcement can be played to the caller if they have still not been answered.

- Wait before 2nd announcement: *Default = 20 seconds. Range = 0 to 9999 seconds.*  
This setting sets the wait between the 1st and the 2nd announcement. If Synchronize Calls is selected, the actual wait may differ, see below.
  - Repeat last announcement: *Default = On.*  
If selected, the last announcement played to the caller is repeated until they are answered or hang-up.
  - Wait before repeat: *Default = 20 seconds. Range = 0 to 9999 seconds.*  
If Repeat last announcement is selected, this setting sets is applied between each repeat of the last announcement. If Synchronize Calls is selected, this value is grayed out and set to match the Wait before 2nd announcement setting.
  - Synchronize calls: *Default = Off*  
This option can be used to restrict how many voicemail channels are required to provide the announcements.
    - *Off*  
When Synchronize calls is off, announcement are played individually for each call. This requires a separate voicemail channel each time an announcement is played to each caller. While this ensures accurate following of the wait settings selected, it does not make efficient use of voicemail channels.
    - *On*  
When Synchronize calls is on, if a required announcement is already being played to another caller, further callers wait until the announcement been completed and can be restarted. In addition, when a caller has waited for the set wait period and the announcement is started, any other callers waiting for the same announcement hear it even if they have not waited for the wait period. Using this setting, the maximum number of voicemail channels ever needed is 1 or 2 depending on the number of selected announcements.
4. Click OK to save the changes.
5. Click  to merge the configuration back to the IP Office.

### Recording the Announcements

There are no default queue announcements for user and hunt groups. The maximum length for announcements is 10 minutes.

On new IP Office 4.0+ systems there are two default short codes that enable you to record announcements. On existing and upgraded systems these or similar short codes need to be added manually.

The default short codes are:

- \*91N; / N".1" / Record Message  
Used to record an announcement 1. For example, to record announcement 1 for a hunt group on extension 300 dial \*91300# and follow the instructions to record the new announcement.
- \*92N; / N".2" / Record Message  
Used to record an announcement 2. For example, to record announcement 2 for a hunt group on extension 300 dial \*92300# and follow the instructions to record the announcement.





# **Chapter 4.**

# **Hunt Group Mailbox Configuration**

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## 4. Hunt Group Mailbox Configuration

Embedded Voicemail creates a mailbox for each hunt group on the IP Office system. Calls are sent to the mailbox only when each available group member has been rung for the group's set ring time.

The group mailbox can be configured either through the mailbox (refer to the Embedded Voicemail User Guide) or through the hunt group settings in the IP Office Manager.



- **Message Waiting Indication**  
By default there is no message waiting indication to any user for hunt group messages. Users must be configured individually. For more information, see [Message Waiting Indication](#) <sup>[27]</sup>.
- **Mailbox Access**  
By default there is no mailbox access to hunt group mailboxes to collect messages. Users assigned hunt group message waiting indication may also gain access depending on their phone type or if using IP Office Phone Manager. Otherwise an access short code must be created for the hunt group. For more information, see [Hunt Group Mailbox Access](#) <sup>[28]</sup>.
- **Ringback**  
Embedded Voicemail can be set to ring the user whenever they have new messages in a hunt group mailbox for which they receive message waiting indication. This ringback is triggered the completion of a call at the user's extension.
- **Voicemail On/Off**  
The sending of calls to the group's mailbox can be switched off. Note however that this does not stop other methods of leaving messages directly in the mailbox.
- **Access Code**  
An access code can be assigned to the mailbox. Anyone accessing the mailbox must first enter this code before they can collect messages. The access code can be reset by the user once they are in the mailbox.

### WARNING: Changing Hunt Group Names

Mailboxes are created based on the unique group name within the IP Office configuration. Changing a group name will associate that group with a new mailbox. If it is necessary to change a group name, ensure that they have played and deleted all messages first. If a group name is changed without clearing the original mailbox, it will be necessary to create a short code based on the old group name in order to access the old mailbox.



The group mailbox can be configured either through the mailbox and system short codes or through the hunt group settings within the IP Office configuration.

To configure a group mailbox in IP Office Manager:

1. Open IP Office Manager and receive the IP Office configuration.
2. Click  Hunt Group to display the list of existing hunt groups.
3. Double-click the required hunt group.
4. Click the Voicemail tab. This tab includes settings that are used by IP Office Voicemail Lite and Voicemail Pro. For Embedded Voicemail complete the following details:
  - **Voicemail Code**  
This field can be used to set a mailbox access code. That code must then be entered by anyone attempting to retrieve messages from the mailbox.
  - **Voicemail On**  
When ticked, calls to the hunt group's number will divert to voicemail if all available group members are busy or do not answer within the group's set allocated answer interval.
5. Make any changes as required for the hunt group and click OK.
6. Repeat for any other hunt group.
7. Use  to save the new changes back to the IP Office system.

## 4.1 Message Waiting Indication

By default no message waiting indication is sent to any user for a hunt group mailbox. The following process shows how to give a user message waiting indication from a hunt groups mailbox. The method of indication will depend on the type of telephone the user has and whether they are using IP Office Phone Manager.

1. Start IP Office Manager and receive the IP Office configuration.
2. Click  User to display the list of existing users.
3. Double-click the user who requires hunt group message waiting indication.
4. Click the Source Numbers tab.
5. Click Add.
6. In the Source Number field, enter *H* followed by the name of the hunt group. For example, for the hunt group Main, enter *HMain*.
7. Click OK and repeat for any other hunt groups for which the user requires message waiting indication.
8. Click OK and repeat for any other users.
9. Use  to save the new changes back to the IP Office system.




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## 4.2 Hunt Group Mailbox Access

By default no user has access to a hunt group mailbox until specifically configured for such access. Hunt group mailboxes can be accessed using the following methods:

### Message Waiting Indication

Users who have been assigned hunt group message waiting indication are also given methods to access the hunt group mailbox. The method will depend on the telephone and/or software they are using. For more information, see [Message Waiting Indication](#) [27].

- **Avaya 4400 Series Telephone Users**  
DS display phone users on telephone models with a  MENU key also gain access once they have been configured for hunt group message waiting. The hunt group name is then displayed when the user presses  MENU,  MENU, Msgs, Voice. For more information, see your telephone user guide.
- **Phone Manager Users**  
Phone Manager users see the hunt group name and number of messages listed on the Messages tab. They can click this to access the hunt group mailbox.
- **Voicemail Ringback**  
If a user has voicemail ringback enabled, ringback will occur for new group messages as well as new personal messages. Ringback for personal messages takes place before any ringback for new group messages.
- **Visual Voice**  
If Visual Voice is available, the user will see the name of the hunt group listed. The number of new calls are shown in brackets next to the hunt group name.

### Short Code and button Access

A short code can be created for hunt group mailbox access, as detailed in the table. This can be a system wide or user specific short code. For information about setting up short codes, see the IP Office Manager help or guide.

Field	Contains...
Code	*99
Feature	Voicemail Collect
Telephone Number	"?Sales"
Line Group Id	0

The Voicemail Collect feature and hunt group mailbox name can also be assigned to a user's programmable button.

### Remote Access

The standard methods for remote mailbox access apply to users or to hunt groups. For more information, see [Remote Mailbox Access](#) [44].

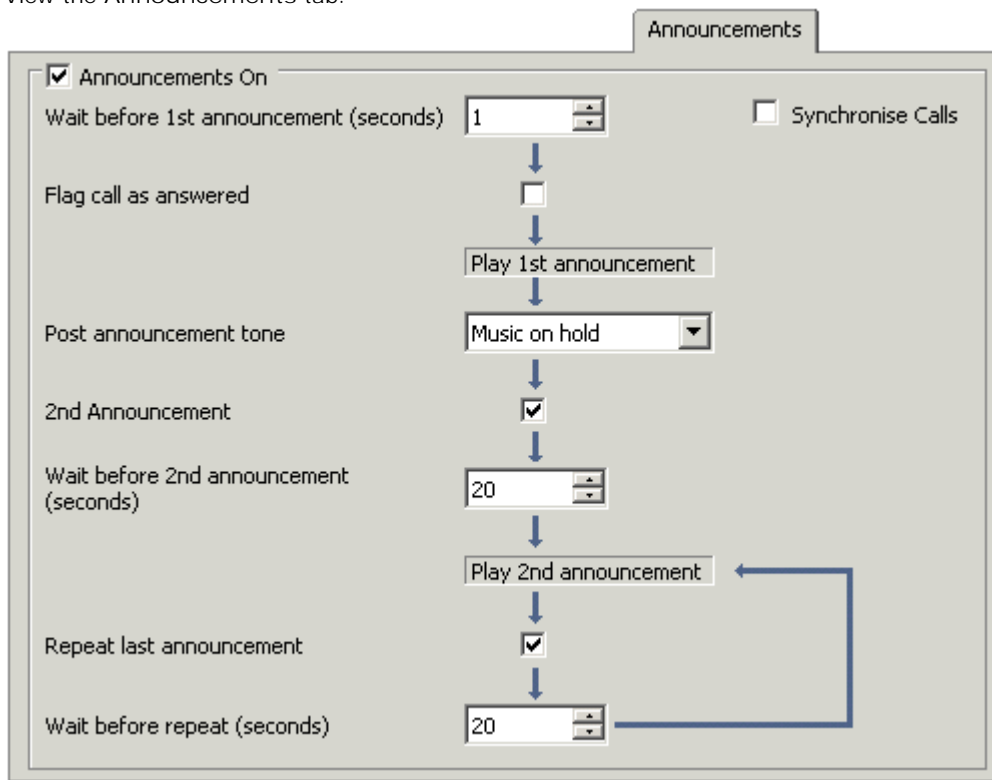
### 4.3 Announcements

Announcements are played to callers waiting to be answered. This includes callers being presented to hunt group members, ie. ringing, and callers queued for presentation.

- IP Office 4.0+ supports announcements using Embedded Voicemail.
- If no voicemail channel is available for an announcement, the announcement is not played.
- Calls can be answered during the announcement.
- If a call is rerouted to a hunt group's Night Service Group or Out of Service Fallback Group, the announcements of the new group are applied.
- If a call overflows, the announcements of the original group are still applied, not those of the overflow group.
- For announcements to be used effectively, the hunt group's Voicemail Answer Time must be extended or Voicemail On must be unselected.

#### Announcement Configuration


1. Open IP Office Manager.
2. Select the user or hunt group for which announcements are required.
3. View the Announcements tab.



- **Announcements On:** *Default = Off.*  
This setting enables or disables announcements.
- **Wait before 1st announcement:** *Default = 10 seconds. Range = 0 to 9999 seconds.*  
This setting sets the time delay from the calls presentation, after which the first announcement should be played to the caller. If Synchronise Calls is selected, the actual wait may differ, see below.
- **Flag call as answered:** *Default = Off.*  
This setting is used by the IP Office CCC and CBC applications. By default they do not regard a call as answered until it has been answered by a person. This setting allows calls to be marked as answered once the caller has heard the first announcement. This setting is not used by the IP Office Customer Call Reporter application.
- **Post announcement tone:** *Default = Music on hold.*  
Following the first announcement, you can select whether the caller should hear *Music on Hold*, *Ringing* or *Silence* until answered or played another announcement.
- **2nd Announcement:** *Default = On.*  
If selected, a second announcement can be played to the caller if they have still not been answered.

- 
- Wait before 2nd announcement: *Default = 20 seconds. Range = 0 to 9999 seconds.*  
This setting sets the wait between the 1st and the 2nd announcement. If Synchronize Calls is selected, the actual wait may differ, see below.
  - Repeat last announcement: *Default = On.*  
If selected, the last announcement played to the caller is repeated until they are answered or hang-up.
  - Wait before repeat: *Default = 20 seconds. Range = 0 to 9999 seconds.*  
If Repeat last announcement is selected, this setting sets is applied between each repeat of the last announcement. If Synchronize Calls is selected, this value is grayed out and set to match the Wait before 2nd announcement setting.
  - Synchronize calls: *Default = Off*  
This option can be used to restrict how many voicemail channels are required to provide the announcements.
    - *Off*  
When Synchronize calls is off, announcement are played individually for each call. This requires a separate voicemail channel each time an announcement is played to each caller. While this ensures accurate following of the wait settings selected, it does not make efficient use of voicemail channels.
    - *On*  
When Synchronize calls is on, if a required announcement is already being played to another caller, further callers wait until the announcement been completed and can be restarted. In addition, when a caller has waited for the set wait period and the announcement is started, any other callers waiting for the same announcement hear it even if they have not waited for the wait period. Using this setting, the maximum number of voicemail channels ever needed is 1 or 2 depending on the number of selected announcements.

4. Click OK to save the changes.

5. Click  to merge the configuration back to the IP Office.

## Recording the Announcements

There are no default queue announcements for user and hunt groups. The maximum length for announcements is 10 minutes.

On new IP Office 4.0+ systems there are two default short codes that enable you to record announcements. On existing and upgraded systems these or similar short codes need to be added manually.

The default short codes are:

- \*91N; / N".1" / Record Message  
Used to record an announcement 1. For example, to record announcement 1 for a hunt group on extension 300 dial \*91300# and follow the instructions to record the new announcement.
- \*92N; / N".2" / Record Message  
Used to record an announcement 2. For example, to record announcement 2 for a hunt group on extension 300 dial \*92300# and follow the instructions to record the announcement.

# **Chapter 5.**

# **Auto Attendant Configuration**

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## 5. Auto Attendant Configuration

In addition to basic voicemail operation, you can create auto attendants using Embedded Voicemail. For IP Office 4.1+, up to 40 auto attendant services are supported whereas previously only 4 were supported.

Each auto attendant consists of:

- Actions

Each of the normal DTMF dialing keys; \*, # and 0 to 9, can be assigned to an action. Callers can dial-through prompts, that is press an action key while listening to the greetings prompts. For IP Office 4.0+, you can also assign an action to the key Fax. If a transfer action is set, on detecting fax tone the auto attendant will route the call to the fax transfer destination as specified using the Blind Transfer action.

- Blind Transfer

Callers are transferred to the selected destination. This action is used with the key Fax so that when a fax tone is detected the call is transferred to the specified extension.

- Dial by Name *IP Office 5.0+*

Callers can dial the name of the user they require. A list of matching names is then played to them to make a selection.

- Dial by Number

Callers can dial the required extension number. There is no prompt associated with the action. If a prompt is required it is as part of the menu prompt. Unexpected results may occur if the dial plan is not a uniform length. Hunt group and user extension numbers should all be the same length.

- Normal Transfer

Transfers the caller to a specified number. This is a supervised transfer, that is, if busy or unanswered the call will follow the settings of the target user or hunt group. If the destination field is left blank, callers can dial the extension number that they require, however no prompts will be played.

- Not Defined

Take no action.

- Replay Greeting

Repeat the menu greeting.

- Transfer to Attendant

Used to access one auto attendant from another.

- Prompts

You can record separate morning, afternoon and evening (out of hours) greeting prompts. Which prompt is used is defined by associated Time Profiles. The greeting prompt is followed by a menu options prompt. This is used to inform the caller of the auto attendant options. For more information, see [Recording Prompts](#).

- In situations where time profiles are absent, overlap or conflict; the order of precedence given is to time profiles assigned to *Morning*, *Afternoon* and then *Evening*.




## 5.1 Create an Auto Attendant

The following process shows by example the setup for an auto attendant for Embedded Voicemail. In this example the auto-attendant should give callers the option to press 0 for reception (hunt group 200) or 1 for sales (hunt group 301).

- For details of routing calls to the auto attendant, see [Routing Incoming Calls to an Auto Attendant](#) <sup>367</sup>.

To create an auto attendant:

- Start IP Office Manager and load the required configuration.
- Note that if time profiles are going to be used in an auto attendant, the time profile has to be created before creating the auto attendant. For more information, see the IP Office Manager help.
- Click  Auto Attendant. Any existing Auto Attendants are listed.
- Click Create a New Record in the Group Pane. Select Auto Attendant. In the Name field enter the name for the auto attendant. This can be up to 15 characters in length.

Auto Attendant
Actions

**Auto Attendant Configuration**

Name	<input type="text" value=" &lt;Auto Atten:0&gt;"/>	Enable Local Recording	<input checked="" type="checkbox"/>
Maximum Inactivity	<input type="text" value="8"/>		
AA Number	<input type="text" value="01"/>		
Direct Dial-By-Number	<input type="checkbox"/>		
Dial By Name Match Order	<input type="text" value="Last then First"/>		

---

	Time Profile	Recording Name	Shortcode
Morning	<input type="text" value=" &lt;None&gt;"/>	<input type="text" value=" &lt;None&gt;"/>	<input type="text" value=""/>
Afternoon	<input type="text" value=" &lt;None&gt;"/>	<input type="text" value=" &lt;None&gt;"/>	<input type="text" value=""/>
Evening	<input type="text" value=" &lt;None&gt;"/>	<input type="text" value=" &lt;None&gt;"/>	<input type="text" value=""/>
Menu Options		<input type="text" value=" &lt;None&gt;"/>	<input type="text" value=""/>

- Name:** *Range = Up to 12 characters*  
This field sets the name for the auto-attendant service. External calls can be routed to the auto attendant by entering AA:Name in the destination field of an Incoming Call Route.
- Maximum Inactivity:** *Default = 8 seconds; Range = 1 to 20 seconds, Software level = 3.0+.*  
This field sets how long after playing the prompts the Auto Attendant should wait for a valid key press. If exceeded, the caller is either transferred to the Fallback Extension set within the Incoming Call Route used for their call or else the caller is disconnected.
- Enable Local Recording:** *Default = On, Software level = 4.0+ (Q2 2007 Maintenance release).*  
When off, use of short codes to record auto-attendant prompts is blocked. The short codes can still be used to playback the greetings.
- Direct Dial-By-Number:** *Default = Off, Software level = 6.0+.*  
This setting affects the operation of any key presses in the auto attendant menu set to use the *Dial By Number* action.
  - If selected, the key press for the action is included in any following digits dialed by the caller for IP Office extension matching. For example, if 2 is set in the actions to *Dial by Number*, a caller can dial 201 for extension 201.
  - If not selected, the key press for the action is not included in any following digits dialed by the caller for IP Office extension matching. For example, if 2 is set in the actions to *Dial by Number*, a caller must dial 2 and then 201 for extension 201.
- Dial by Name Match Order:** *Default = First Name/Last Name, Software level = 5.0+.*  
Determines the name order used for the the Embedded Voicemail Dial by Name function. The options are *First then Last* or *Last then First*.
- AA Number:** *Software level = 4.1+.*  
This number is assigned by the IP Office and cannot be changed. It is used in conjunction with short codes to access the auto attendant service or to record auto attendant greetings.

- Morning/Afternoon/Evening/Menu Options:

Each auto-attendant can consist of three distinct time periods, defined by associated time profiles. A greeting can be recorded for each period. The appropriate greeting is played to callers and followed by the Menu Options greeting which should list the available actions.

- Time Profile

The time profile that defines each period of auto-attendant operation. When there are overlaps or gaps between time profiles, precedence is given in the order morning, afternoon and then evening.

- Short code

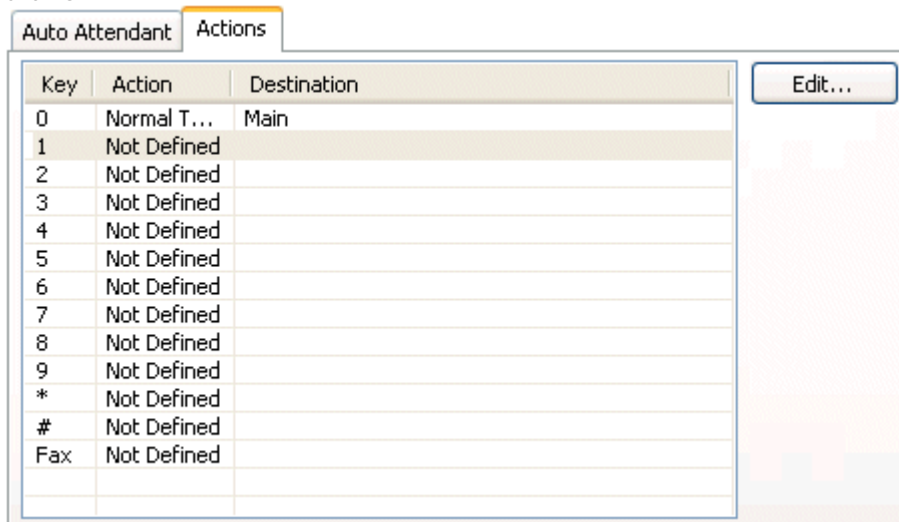
These fields indicate the system short codes automatically created to allow recording of the time profile greetings and the menu options prompt.

- Recording Name: *Default = Blank. Range = Up to 31 characters, Software level = 4.0+ (Q2 2007 Maintenance release).*

This field appears next to the short code used for manually recording auto-attendant prompts. It is only used is using pre-recorded wav files as greeting rather than manually recording greetings using the indicated short codes. If used, note that the field is case sensitive and uses the name embedded within the wav file file header rather than the actual file name. The utility for converting .wav files to the correct format is provided with Manager and can be launched via [File | Advanced | LVM Greeting Utility](#)<sup>[40]</sup>. Files then need to be manually transferred to the embedded voicemail memory card.

5. Click the Actions tab. The option to press 0 for reception (hunt group Main) is entered by:

- Click with the Key 0 row. Click Edit.
- Select the action Normal Transfer from the available options.
- Select the required destination. In this example the group **Main** is selected.
- Click OK.



6. The option to press 1 for sales (hunt group 301) is entered by:

- Click within the Key 1 row. Click Edit.
- Select the action Normal Transfer from the available options.
- Select the required destination, for this example the group **Sales**.
- Click OK.

7. Click OK to save the auto attendant. Short codes are automatically created for the auto attendant and the codes can be viewed in the Auto Attendant tab.

8. Click  to save the new changes back to the IP Office system.

9. Following the system reboot, you can record prompts for the auto attendant using the short codes created. For more information, see [Recording Prompts](#)<sup>[35]</sup>.

## 5.2 Recording Prompts

When a new auto attendant is created, a number of short codes are automatically added to the system short codes table. The short codes allow the recording of the various auto attendant prompts. The appropriate number to dial is indicated against each greeting on the Auto Attendant tab in IP Office Manager.

The telephone number part takes the form *AA:Name.x*, where *Name* is the name of the auto attendant service, and *x* is *1* for the morning greeting, *2* for the afternoon greeting, *3* for the evening greeting and *4* for the menu options prompt.

For IP Office 4.1+ the number can also take the form *AA:N.x* where *N* is the auto attendant number and *x* is *1* for the morning greeting, *2* for the afternoon greeting, *3* for the evening greeting and *4* for the menu options prompt.

When using any of these short codes, you hear the options:

- 1 to hear the current prompt.
- 2 to record a new prompt.
- 3 to save the new prompt.


### Notes

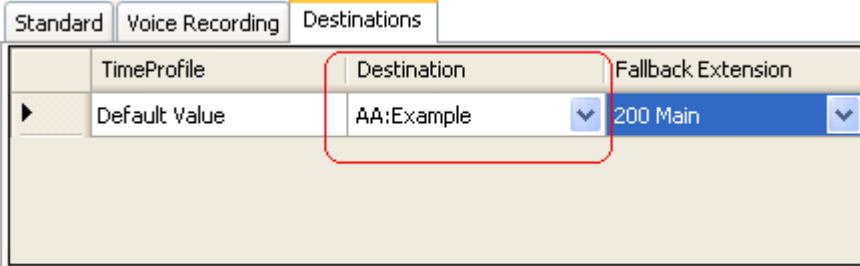
- To prevent abuse of these default short codes, they can be deleted or changed. They can also be removed from the system short codes section and rebuilt in the user short codes of a trusted user. Alternately, disabling the Enabling Local Recording option (IP Office 4.0 May 2007 maintenance release and higher) stops the use of short codes to record the auto attendant greetings.
- Using the Dial feature, the short codes can be assigned to a programmable button. This allows quick access and recording of any prompts that change frequently.

## 5.3 Routing Incoming Calls to an Auto Attendant


An integral voicemail auto attendant created can be specified as a destination in the IP Office Incoming Call Routes table. Internal callers can access an auto attendant through a programmed DSS button or Phone Manager speed dial.

To route incoming calls to an auto attendant:

1. Start IP Office Manager and load the required configuration.
2. Click  Incoming Call Route and select the required route.
3. View the Standard tab. Check that the settings match the calls you expect to be routed to the auto attendant (for full details refer to the IP Office Manager documentation).
4. Click the Destination tab. In the Destination field use the drop down list to select the auto attendant. The names of the configured auto attendants are shown prefixed with *AA:*.



TimeProfile	Destination	Fallback Extension
Default Value	AA:Example	200 Main

5. In the example above the Fallback Extension has also been set to route calls to a hunt group. The Fallback Extension setting is used for callers in the auto attendant who do not make a valid key press within the auto attendant's Maximum Inactivity time.
6. Using time profiles, additional destination sets can be added to use the auto attendant at certain times of day or to use different auto attendants at different times.
7. Click OK.
8. Use  to save the new changes back to the IP Office system.

## 5.4 Transferring Calls to an Attendant

Normally calls are directed to an auto attendant by an IP Office incoming call route. However it can also be useful to transfer calls received at an internal extension to an auto attendant.

You can transfer calls to an Auto Attendant by:

- [Using Programmed Buttons](#) <sup>[37]</sup>.
- [Using Phone Manager](#) <sup>[37]</sup>.
- [Using SoftConsole](#) <sup>[38]</sup>.
- [Using Short Codes](#) <sup>[38]</sup>.

### Using Programmed Buttons

On Avaya phones with programmable buttons, those buttons can be programmed to access auto attendant services.

To create an auto attendant button:

1. From the IP Office system configuration, set the action of one of the users programmable buttons to Dial.
2. Set the associated telephone number to AA: *Name* where *Name* matches the name of the auto attendant.
3. Save this configuration change back to the IP Office.

When the user receives a call they want to transfer to the auto-attendant, they can use a programmed button.

To transfer a call using the programmed button:



1. Place the call on hold.
2. Press the button programmed for the auto-attendant.
3. Hang-up the call at their extension. This will cause a blind transfer of the held call to the auto-attendant.

### Using Phone Manager

To create an auto attendant speed dial:

1. Within the user's Phone Manager, click the Speed Dials tab.
2. Right-click the speed dial panel and select **New > Speed Dial Group Member**. The Speed Dial window opens.
3. In the Name field, enter a name for the Auto Attendant.
4. In the Number field, enter AA: *Name* where *Name* matches the name of the auto attendant.
5. Click OK.

To transfer a call using the Speed Dial:

1. During a call that you want to transfer to the auto attendant click  Hold to place the call on hold.
2. Click the Speed Dials tab.
3. Click the speed dial created for the auto attendant.
4. Click  Complete Transfer to transfer the held caller.



---

## Using SoftConsole

To create an auto attendant speed dial:

1. Click the required BLF Group tab.
2. Right-click the speed dial panel and select New > BLF Group Member. The New BLF Group Member window opens.
3. In the Name field, enter a name for the Auto Attendant.
4. In the Number field, enter AA: *Name* where *Name* matches the name of the auto attendant.
5. Click OK.

To transfer a call using the Speed Dial:

1. During a call that you want to transfer to the auto attendant click  Hold to place the call on hold.
2. Click the BLF Group tab.
3. Click the speed dial created for the auto attendant.
4. Click  Complete Transfer to transfer the held caller.

## Using Short Codes

The Auto Attendant short code feature can be used to connect to a particular auto attendant. The Telephone Number field takes the form AA: followed by the Auto Attendant service name.

In the example below, dialing \*98 would connect the user with the auto attendant named *Example*.

Field	Contains...
Code	*98
Feature	Auto Attendant
Telephone Number	AA: Example
Line Group Id	0

Once a short code for a particular auto attendant has been created, callers can be transferred.


To transfer a caller:

1. Press TRANSFER.
2. Dial the auto attendant short code.
3. Press TRANSFER again to complete the process.


## 5.5 Using Auto Attendant to Access Voicemail

A useful function in auto attendants is to let callers access their own voicemail mailbox. This can be achieved by first creating a short code and then using the short code as an auto attendant destination.

To create a short code for remote access:

1. Start IP Office Manager and load the required configuration.
2. For the user or hunt group for which you want to create remote access, open their settings and on the Voicemail tab ensure that a Voicemail Code has been set. Remote access will not work without this.
3. In the configuration tree panel, click  Shortcode. Any existing system short codes are listed.
4. Click Create a New Record in the Group Pane. Select Short Code.
5. Create a short code such as the following example:

Field	Contains...
Code	*99
Feature	Voicemail Collect
Telephone Number	?
Line Group Id	0

6. Click OK to add the new short code.
7. Create an auto attendant and select the key that the caller should use. Set the keys Action to Normal Transfer. Type the short code in the destination, in the example it would be \*99.
8. Click OK.
9. Click  to save the new changes back to the IP Office system.

External callers to the auto-attendant selecting the right option will now be challenged to enter the mailbox number and then the mailbox access code. If entered correctly they will be able to collect messages.

## 5.6 Using Named Announcement Files

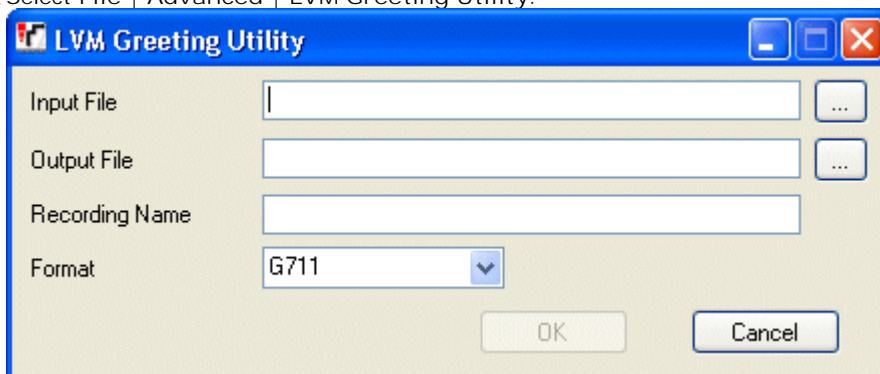
IP Office 4.1+ allows pre-recorded files to be converted and used as auto attendant greetings. This approach allows greetings to be recorded by methods other than through the IP Office phone short codes. It also allows the same greeting to be shared by several auto attendants.

- Preventing Over Recording of Uploaded Files  
Once uploaded to the IP Office, the converted files can still be recorded over using the default short codes for recording auto attendant greetings. To prevent this use de-select the Enable Local Recording option of the auto attendant.

### A. Converting the Recordings


This process converts the source WAV file recording to the format required by the IP Office Embedded Voicemail.

1. The original recording must be in the following WAV file format. If it is in a different format, convert the file using a tool such as Windows Sound Recorder.
  - PCM/Uncompressed.
  - 8000 KHz, 16bit, Mono.
2. Start IP Office Manager.
3. Select File | Advanced | LVM Greeting Utility.



4. Click on the ... button for Input File and select the WAV file.
5. Click on the ... button for Output File and select the location into which you want the converted file saved.
6. Select the Format *G711*.
  - Enter a name for the file (up to 8 characters with no spaces) and end the file name with *.c11*.
  - Enter a name for the recording in the Recording Name field. This is the name that will be entered into the IP Office configuration to use the recording. Note that the field is case sensitive.
7. Ensure that the Format matches that selected for the Output File settings chosen above.
8. Click OK.

### B. Editing an Auto Attendant to Use Named Recordings

1. Start IP Office Manager and receive the IP Office configuration.
2. Select the  Auto Attendant form and select or create the required auto attendant.
3. In the **Recording Name** field enter the name of the greeting to be used. This is the **Recording Name** entered during the files conversion, not the actual file name. It is case sensitive.
4. If only converted greeting files are to be used with the auto attendant, it may be advisable to disable the Enable Local Recording option to stop any system user recording over the file.
5. Send the configuration back to the IP Office.

### C. Transferring the Recording to the Embedded Voicemail Memory Card

Using IP Office Manager, select File | Advanced | Embedded File Management. Drag and drop the recording created above into appropriate folder on the memory card. For IP500v2 systems this is dynamic\lvmail\AAG folder on the System SD card, for other systems it is the lvmail\AAG folder.



## 5.7 Dial by Name

IP Office 5.0 allows the option Dial by Name to be selected as an auto attendant option. Callers selecting this option are asked to dial the name they require and then press #. The recording name prompts of matching users are then used to allow the caller to make their selection.

The name order used for set to first name/last name or last name/first name by the [Dial by Name Match Order](#) <sup>[33]</sup> setting on the Auto Attendants settings.

The name used for matching is taken from the user's configuration within the IP Office configuration. The Full Name is used if set, otherwise the Name is used.

Users are exclude from Dial by Name if they:

- Are marked as Ex Directory (User | User) in the IP Office configuration.
- Do not have a recorded mailbox name prompt.
  - They can record their own name by dialing \*05 after accessing their mailbox.
- The function assumes that a standard ITU lettered dialing pad is being used.



- The action prompts the caller to dial the name they require and then press #. For example, dialing 527 matches names starting with JAS (for example "Jason") and KAR (for example "Karl"). Callers can also press \*# to exit without making a selection.
  - If no matches are found, the caller is given the option to retry.
  - If 10 or less matches are found, the matching mailbox name greetings are played as part of a selection list, i. e. *"Press 1 for ..., press 2 for ..., ..."*.
  - If more then 10 matches are found, the caller is prompted to either press # to hear the first 10 or to dial more characters to reduce the number of matches. If they select to play the list, after each set of 10 matches they can either make a selection or follow the prompts for other options.



# Chapter 6.

# Miscellaneous

---

## 6. Miscellaneous

### 6.1 Remote Mailbox Access

Remote mailbox access is accessing a mailbox from any location does not match the mailbox user or hunt group's number. That includes both internal and external access.

- Remote access is only possible if the mailbox user or hunt group has a voicemail code set in the IP Office configuration.

There are a number of ways to enable remote mailbox access.

1. Direct from an Incoming Call Route

An incoming call route could be configured to enable remote access to a mailbox. The option *Voicemail* can be selected as the Destination and/or Night Service Destination of an Incoming Call Route.

2. Using a Short Code

A short code can be created that uses the Voicemail Collect feature but without a mailbox name specified in the Telephone Number field will trigger remote access. An example is shown below. This short code could be utilized by users on the system, as the destination in an Incoming Call Route or as the destination for a auto attendant option.


Field	Contains...
Code	*99
Feature	Voicemail Collect
Telephone Number	?
Line Group Id	0

3. Via an Auto Attendant

An auto attendant can be used to enable remote access to a mailbox. A short code similar to the example could be entered as the Destination for one of the auto attendant Normal Transfer key options. For more information, see [Using Auto Attendant to Access Voicemail](#)<sup>39</sup>.

## 6.2 Monitoring Embedded Voicemail

The IP Office Monitor application can be used to observe the operation of Embedded Voicemail.

1. From the Start menu select Programs > IP Office.
2. Select  Monitor.
3. From the File menu, click Select Unit. The Select System to Monitor window opens.
4. Enter the Control Unit IP Address and password. Depending on the IP Office system's configuration, the password required is either the system password or the separate monitor password if set.
5. Check that the Control Unit Type is set to IP Office.
6. Click OK.
7. The Monitor application attempts to connect with the control unit. If successful, something similar to the following will appear.

```
***** SysMonitor v6.0 (11031) *****
***** contact made with 192.168.42.119 at 10:08:25 15/11/2006 *****
***** System (192.168.42.119) has been up and running for 1day, 19hrs, 3mins and 7secs(154987775mS) **
154987776mS PRN: Monitor Started IP=192.168.42.130 IP 500 4.0(11031) IP500_40
      (IP Office: Supports Unicode, System Locale is eng)
154987776mS PRN: LAW=A PRI=0, BRI=4, ALOG=4, ADSL=0 VCOMP=32, MDM=0, WAN=0, MODU=0 LANM=0 CkSRC=1 VMAIL=1 (
154987778mS LIST2: IFACE(4) "LAN1", "LAN2", "DialIn", "RemoteManager"
A:\lvmail\ENG\*. *
155088356mS PRN: LVM Flash A: NextFlashItemScan: Scanning A:\lvmail\ITA\*. *
155088456mS PRN: LVM Flash A: NextFlashItemScan: Finished Scanning A:\lvmail\ITA\*. *
155088462mS PRN: LVM Flash A: NextFlashItemScan: Finished Scanning A:\lvmail\*. *
155088462mS PRN: LVM Flash A: NextFlashItemScan: END-OF-LIST found
155088462mS PRN: LVM FlashMan: FiveMinuteActions: called 2006/11/15 10:10:02
155088520mS PRN: LVM FlashMan: FiveMinuteActions: Free: 955.9 MBytes ( 92% )
155088520mS PRN: 33 Hours 11 Minutes Approx. Remaining
155088520mS PRN: FMML Size: 27
```

8. From the Filters menu select Trace Options. The All Settings window opens.
9. The following Embedded Voicemail events can be selected to be included on the monitor trace:
10. On the Call tab, select the options that you want to monitor in the Embedded Voicemail section.
11. On the System tab, select Print.
12. The Trace Color selection on the System tab is applied to Embedded Voicemail events.
13. Click OK.
14. Embedded Voicemail events are now shown in the Monitor trace when running. These events are all prefixed LV.

### Embedded Voicemail Housekeeping

The embedded voicemail performs housekeeping approximately every 5 minutes, subject to other system activity. This can be seen in IP Office System Monitor by enabling the trace option Filters | Call | House Keeping (Embedded Voicemail).

The details include the approximate remaining message capacity of the memory card.

```
156165753mS LVM(housekeeping): FlashMan: FiveMinuteActions: called 2009/01/29 06:52:55
156165796mS LVM(housekeeping): FlashMan: FiveMinuteActions: Free: 426.4 MBytes ( 81% )
156165796mS LVM(housekeeping): 14 Hours 48 Minutes Approx. Remaining
156165796mS LVM(housekeeping): FMML Size: 35
```

### Checking the Prompt Sets




The additional embedded voicemail features added in new IP Office releases require new prompts. Missing prompts can be reported in IP Office System Monitor by enabling the trace options Filters | System | Error. Error messages are output at regular intervals.

```
158267586mS ERR: EVM 4p0 upgrade file clips missing
158267587mS ERR: EVM 4p2 upgrade file clips missing
158267592mS ERR: EVM 5p0 upgrade file clips missing
```

---

## 6.3 Button Programming

The same features used for Embedded Voicemail short codes can also be assigned to telephone buttons.



1. Start IP Office Manager and receive the IP Office configuration.
2. Click  User to display the list of existing users.
3. Click the required user.
4. Click the **Button Programming** tab.
5. Click the button line that you want to change. Click Edit. The Edit Button fields are shown at the bottom of the form.
6. Click  at the end of the Action field. The Button Programming window opens.
7. Select Advanced > Voicemail to display the list of voicemail features.
8. Select the feature required:
  - **Voicemail Collect**  
Allows access to a mailbox to collect or leave messages. The mailbox and action are determined by the associated telephone number. This takes the form "*?Name*" for message collection and "*# Name*" for leaving a message. The *Name* part must match the user or hunt group name set in the IP Office configuration. On suitable phones the DSS key displays VMCol followed by the name.
  - **Voicemail On**  
This feature switches the diversion of calls to the user or group mailbox on/off. When programmed on a DSS key, the action toggles so no separate Voicemail Off key is required. On suitable phones the DSS key displays VMOn.
  - **Voicemail Ringback On**  
This feature switches new message ringback notification on/off. When programmed on a DSS key, the action toggles so that no separate Voicemail Ringback Off key is required. On suitable phones the DSS key displays VMRB+.
9. Repeat for all the keys required.
10. Click OK.
11. Repeat for any other users.
12. Use  to save the new changes back to the IP Office system.

## 6.4 Visual Voice

A user can be given a display menu to user for access to their mailbox. The menu provides the user with options to listen to messages, send messages, change their greetings and password.

- Note  
The Visual Voice feature is not available on all telephones. It requires an Avaya phone with multi-line (more than 2 ) display.
- MESSAGES Button  
For IP Office 4.2+, the MESSAGES button on phones can be configured to activate Visual Voice rather than access the spoken voicemail prompts. Within IP Office Manager, select System | Voicemail | Messages Button Goes to Visual Voice.

To give a user a Visual Voice button

1. Start IP Office Manager and receive the IP Office configuration.
2. Click  User to display the list of existing users.
3. Click the required user.
4. Click the Button Programming tab.
5. Click the button line that you want to change.
6. Right-click in the Action field.
7. Select Emulation > Visual Voice.
8. Click OK to save the button details for the selected user.
9. Repeat for any other users.
10. Use  to save the new changes back to the IP Office system.

---

## 6.5 Short Codes

Embedded Voicemail supports a number of IP Office short code features.

### Default Short Codes

The following default system short codes can be used with Embedded Voicemail.

- **Collect Messages: \*17**  
Can be used by users to access the mailbox associated with their extension.
- **Voicemail On/Off: \*18/\*19**  
Switches the diverting of callers to the user's mailbox on/off.
- **Voicemail Ringback On/Off: \*48/\*49**  
Switches new message ringback to the user on/off.
- **Record Message:**  
The Record Message feature is used to record announcements that are used when callers to a hunt group are queued. For more information, see [Configuring Queue Announcements](#) [29].
  - \*91N; - To record an Announcement 1 for a hunt group.
  - \*92N; - To record an Announcement 2 for a hunt group.

### Short Code Features

Additional short codes can be added as required using the short code features listed below. For full details of short codes refer to the IP Office Manager documentation.

- **Voicemail Collect**  
This short code feature can be used to create short codes for collecting or leaving messages. The exact action is set by the use of either ? or # in the telephone number. For example *"?Main"* would indicate collection of messages in the mailbox called *Main*. *"#Main"* would indicate that a user wants to leave a message in the mailbox called *Main*. Note that the quotation marks " " are required and the name must match the user or hunt group whose mailbox is being accessed. For example:

Field	Contains...
Code	*99
Feature	Voicemail Collect
Telephone Number	"?Main"
Line Group Id	0

- Using just ? in the Telephone Number without quote marks and a mailbox name allows remote access. The user would be prompted to enter the mailbox number and then the mailboxes access code if set.
- **Voicemail On/Voicemail Off**  
These two features switch the diversion of calls to the user or group mailbox on/off. No telephone number is required for either of these features.
- **Voicemail Ringback On/Off**  
These two features switch new message ringback notification on/off. No telephone number is required for either of these features.
- **Auto Attendant**  
This feature is used for the recording of auto attendant prompts and greetings. Normally the short codes for this are created automatically. However they can be deleted and reassigned as required. For more information, see [Create an Auto Attendant](#) [33].
- **Record Message**  
Allows the recording of announcement messages for users and hunt groups.
- **Shutdown Embedded Voicemail**  
Supported for IP Office 4.0+. Allows the embedded voicemail service provided by the memory card to be disabled. For pre-IP Office Release 6 systems, this short code should be used before removing a memory card from the system. For IP Office Release 6+ systems, a memory card shutdown command should be used instead.
- **Startup Embedded Voicemail**  
Supported for IP Office Release 6+. Allows an embedded voicemail service that has been shutdown to be restarted.



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