



Inband signaling is used for integration

Supported Voice Processing Module

1.0 METHOD OF INTEGRATION

Integration is achieved by Inband signaling. Call forward to personal greeting is achieved via DTMF signals passed from the Avaya Merlin Magix to Octel 100. Message waiting indicators are set and canceled by dialing a feature access code followed by the extension number. A hookflash followed by the extension transfers the caller to the operator.

1.1 SUPPORTED VOICE PROCESSING MODULE

The Octel 100 is a Year 2000 (Y2K) compliant, PC based, enhanced voice messaging product release intended to replace the OPC, Signature Performer, CEO, CP, and CP+ product lines. For installed systems that have port capacities above 16 ports contact your Avaya representative for the proper solution

Disclaimer: Configuration Notes are designed to be a general guide reflecting AVAYA IIncr.'s experience configuring its systems. These notes cannot anticipate every configuration possibility given the inherent variations in all hardware and software products. Please understand that you may experience a problem not detailed in a Configuration Note. If so, please notify the TAC/TSO at (408) 922-1822 and if appropriate we will include it in our next revision. AVAYA Inc. accepts no responsibility for errors or omissions contained herein.

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O100 Ordering Information This integration will support 16 ports.	2.0 ORDERING INFORMATION There are many options available for this product, depending on the application. Voice Boards supported: Dialogic DIALOG/4 TM
	Fax Boards supported: Brooktrout TruFax [®] 200
	Internal Modem
	Please consult with your sales representative.
	3.0 AVAYA MERLIN MAGIX HARDWARE REQUIREMENTS
Avaya Merlin Magix Hardware Requirements	• One single line port for each Octel 100 port. This may be provided by
	 016TRR 16-tip/ring extension jacks with 4 touch-tone Receivers (TTRs).
	or
	 016ETR 16 ETR extension jacks including 6 with tip/ring functionality with 4 touch-tone receivers 491D1 Power Supply Module:
	 Equipped with optional 129B Frequency Generator 30 Hz. or
	– Equipped with optional 129C Frequency Generator 25 Hz.
	Note: A TTR is needed by an analog port whenever DTMFs are being processed. The number of TTRs is dependent on the number of analog ports and the loading of those ports. A good estimation is 0.75 TTRs per port for a moderately loaded system.
Avava Merlin Magix Software	3.1 AVAYA MERLIN MAGIX SOFTWARE REQUIREMENTS
Requirements	• Release 1,or 2.
	3.2 ADDITIONAL MATERIAL REQUIREMENTS
Additional Material Requirements	The voice board used to interface Octel 100 VoiceMail is a four-port board. System configurations may reflect partial use of a board. The board used to interface Octel 100 FaxMail is a two-port board. You will need:
	 One RJ-14 jack with 4-conductor line cord for every two Octel 100 ports.
	• For optional remote service access:
	 One analog line
	 One RJ-11 Jack for above and 2-conductor modular

telephone cord.

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- If optional FaxMail is installed:
 - One analog line per fax port
 - One RJ-11 jack for every Brooktrout TruFax[®] 200 fax port

4.0 SUPPORTED FEATURES

[✓] Items are supported			
System Forward to Personal Greeting		Multiple Return to Operator	[√]
All Calls	[]	Direct Call	[√]
Ring/no answer	[√]	Auto Attendant	[√]
Busy	[✔]	Outcalling	[√]
Busy/No Answer	[]	Personal Greeting of Original-Called Party	
Do Not Disturb	[]	Multiple Call Forward	[]
Station Forward to Personal Greeting		Double Call Forward	[]
All Calls	[✔]	Call Coverage	[√]
Ring/no answer	[]	Intercom Paging	[]
Busy	[]	Supervised Transfers	
Busy/No Answer	[]	Call Screening	[√]
Do Not Disturb	[]	Call Queuing	[√]
Flexible Forwarding		Intercom Paging ¹	[√]
Forward to No Answer Greeting	[]	Identify Calling Party (Ver. 1.5 and up)	
Forward to Busy Greeting	[]	System Forward to Personal Greeting	[√]
Intercom/CO Forwarding	[]	Station Forward to Personal Greeting	[]
Message Waiting		Flexible Forwarding (NA with CO)	[]
LCD Display	[]	Record Telephone Conversation²	[√]
LED	[✔]	¹ See Section 7.4	
Lamp	[]	² See Section 6.5	
Audible / Stutter Dial Tone	[]		

4.1 DISCONNECT TYPE

Disconnect supervision is indicated by the Merlin Magix returning internal dialtone. For proper external disconnect supervision, Ground start, or Supervised Loop start CO lines are recommended. (*See Note section 7.2*)

5.0 CONFIGURING THE AVAYA MERLIN MAGIX

Before you begin programming, it is recommended that a hard copy of the customer database be obtained to verify existing programming. All changes to the Avaya Merlin Magix should be performed by a certified System Manager—those personnel who plan, program, maintain, and manage the system or, qualified support personnel who are responsible for installation and initial system programming.

Note: Assignment of extensions has two elements send, and receive. As "sender", an extension can only be assigned to either an extension or a group. As "receiver", an extension can be assigned in multiple groups. An extension number, once assigned to a Calling Group or Line/Pool, is committed as a Sender. This extension, however, can be used as a Receiver in other groups. Only the extensions for the tip/ring ports associated with a voice

Only the extensions for the tip/ring ports associated with a voice messaging system may be in VMI Calling Groups. There is a

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Supported Integration Features

Programming Avaya Merlin Magix system parameters

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system maximum of 20 VMI Calling Groups, and any one Calling Group may have a maximum of 20 members. An extension may be a member of only one Calling Group.

5.1 DEFAULT NUMBERING SCHEME

The following figure is a 2-digit map of the factory settings in gray spaces.

0		Operator Con			0 (0		
Ŧ.		Extens					
2			Exten	sions 20-29			
3			Exten	sions 30-39			
4			Exten	sions 40-49			
5			Exten	sions 50-59			
6	Extens 60-4	ions 1	Extra Extension 6700–6842	6843-6849	Extra 440 Series Adjunct MFMs Termin Adapter 6850–69	00- s/ al rs	6993-6999
7	Main Pool 70	Adjuncts 710-766	767-769	Calling Gro 770–791,7920	ups)7929	Pi	aging Groups 793–799
8	8001	Lines/1 B01-	Frunks 880	Park 881-888	8892		Pools 890-899
9		ARS A	ccess (Hybrid/P	BX mode)/Idle Li	ne Access	9	

1 LDN (QCC Queue) 2 Remote Access

Extensions can be renumbered to any number shown in the white spaces.

5.2 AVAYA MERLIN MAGIX SYSTEM PROGRAMMING

Refer to the Programming section in the Avaya Merlin Magix manual for information on entering, saving, and exiting database programming.

The factory setting is Hybrid/PBX, we recommend the Magix system be configured as a hybrid/PBX. This programming must be done when the system is idle. In addition, this programming will cause the system to restart when you are finished. Therefore, choose an appropriate time for this procedure.

Magi Facto	x's Mode ry Setting	All Hybrid/PBX
From the	System Pro	gramming Menu
Select	System	
Select	Mode	
Select	Hybrid/P	BX
Press <er< td=""><td>nter> to sav</td><td>e.</td></er<>	nter> to sav	e.

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Avaya Merlin Magix System Programming

System \rightarrow Mode \rightarrow Select mode (Hybrid/PBX) \rightarrow Enter

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\rightarrow TransferRtn \rightarrow Drop \rightarrow Dial
no. of rings (0-9) \rightarrow 4
\rightarrow Enter \rightarrow TT Duration \rightarrow Drop
ightarrow Dial no. of ms (50–200 ms, in
increments of 25 ms) \rightarrow 75
→ Enter → TT Interval → Drop →
Dial no. of ms (50–200 ms, in
increments of 25 ms)
\rightarrow 50 \rightarrow Enter \rightarrow Back \rightarrow Back

AuxEquip → VMS/AA

Display the Octel 100 Ports

 $\begin{array}{l} \text{Maintenance} \rightarrow \text{Ports} \rightarrow \text{Stations} \\ \rightarrow \text{Status} \end{array}$

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At this point, the system will restart as noted above. To continue programming, re-enter system programs.

Program the Voice Mail System/Automated Attendant Options as follows:

Magix's Mode	All
Factory Setting	touch-tone duration: 100 ms
	Interval between digits: 50 ms
	Number of rings before transfer sent to backup: 4

From the System Programming Menu

Select AuxEquip

Select VMS/AA

From the VMS/AA screen, select **TransferRtn**. This parameter, Transfer Return, represents the number of rings before calls transferred by the Octel 100 are sent to a designated backup position. Set it to "0" to disable this feature. If supervised transfers are used, this parameter should either be disabled or set higher than the Max Rings in the Mailbox Class of Service.

The default value for Transfer Return is 4. To modify this parameter, erase the current setting, using the **Drop** key. Enter the desired value and press **Enter**.

From the VMS/AA screen, select **TT Duration**. This parameter should be set to 75 (milliseconds). If it is not, erase the current setting, using the **Drop** key and enter **75**. Press **Enter** to save your entry.

From the VMS/AA screen, select **TT Interval**. This parameter should be set to 50 (milliseconds). If it is not, erase the current setting, using the **Drop** key and enter **50**. Press **Enter** to save your entry.

Press Exit twice to return to the System Programming menu.

5.3 DISPLAY THE OCTEL 100 PORTS

Display numbers of equipment to be used for Octel 100. View the extension profile by using this procedure:

From the System Programming Menu

- Select Maintenance
- Select Ports
- Select Stations
- Select Status

The profile shows:

- "T/R" if the port is programmed as T/R.
- "UNEQUIPPED" if the port is programmed as ETR and an MLS or ETR telephone is not connected to the ports.

Extensions → or More → Group Calling →Hunt Type →Dial calling group extension number → Enter →Circular → Enter →Back → Back →Members →Dial Octel 100 extension number →Next →Exit

Extensions \rightarrow or More \rightarrow Group Calling \rightarrow or More \rightarrow Group Type \rightarrow Dial calling group extension number \rightarrow Enter \rightarrow Integrated VMI \rightarrow Enter \rightarrow Back \rightarrow Back

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5.4 CREATE CALLING GROUP FOR OCTEL 100

Magix's ModeAllFactory SettingCircular hunting pattern

From the System Programming Menu

Select **Extensions**

Press **More** to display second page

Select Group Calling

Select Hunt Type

Enter the extension number to be assigned to the Calling Group

Select Circular

Select Exit

Return to Group Calling Menu

Select Members

Enter extension number just assigned above

Select Enter

Note: An Octel 100 port can only belong to one calling group. A QCC cannot be a member of a calling group.

At Enter Group Members Prompt:

Specify first Octel 100 port extension number. If extension numbers are sequential, press the next key to add next Octel 100 port. If ports are not sequential, press enter to add next extension number. Repeat until all Octel 100 ports have been added.

Select Exit

5.5 SETUP GROUP TYPE FOR OCTEL 100 CALLING GROUP

Magix's Mode All Factory Setting Automatic Log Out

Return to Group Calling Menu

Set up Group Type for Octel 100 calling group (this instructs Magix to send mailbox ID information)

Press More to display second page

Select Group Type

Enter extension number of the Octel 100 calling group

Press Enter

Select Integrated VMI

Press Enter to Save

Press Back twice to return to Extensions Menu

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·····						
Extensions -> or Moro	5.6 GROUP COVERAGE ME	ENIBER ASSIGNMENTS				
→Group Coverage →Dial Group	From Extensions Menu Fress Mon	re to display second page				
Number(1-30) for Octel 100	Select Group Coverage					
→Enter →Dial extension number	Enter a number (1 - 30) as coverage	ge group number for Octel 1	00			
\Rightarrow Enter \Rightarrow Back \Rightarrow Back	When prompted for extension num 100 calling group will supply Voic	When prompted for extension numbers, enter extension number that Octel 100 calling group will supply VoiceMail Box.				
Magiy's Mada All	Press Enter to Save					
Factory Setting Not applicat	Press Back twice to return to Syste	em Programming Menu				
	5.7 PROGRAM GROUP COV	VERAGE DELAY INTER	VAL			
	If supervised transfers are used, thi set higher than the Max Rings in th default value for Group coverage d	is parameter should either be ne Mailbox Class of Service. lelay interval is 3 rings.	e disabled or The			
Extensions → or More → or More → Cover Delay →	Magix's Mode All Factory Setting 3 Rings					
Group → Dial Sender's Extension	Select Extensions					
→Enter → Number of Rings (1 -	Press More to display second page					
	Select Cover Delay					
	Select Group					
	Select Dial Sender's Extension	n				
	Press Enter to continue					
	Select Number of Rings (1 - 9)) 4				
	Press Enter to Save	, -				
	To assign trunks to ring directly to	Octel 100				
	Select Extensions					
	Press More to display second page					
	Select Group Calling					
	Select Line/Pool (Select Line/Pool)	ee Note: Section 7.3)				
	Enter Octel 100 calling group exter	nsion number				
	Press Enter					
	At "Enter Line/Pool numbers" pror want Octel 100 to answer	mpt identify line or pool of l	ines you			
	Note: Incoming calls on each line one calling group.	e/trunk or pool can be direc	ted to only			
	5.8 CONFIGURING PORTS	TO OUTCALL				
	The default settings on the Avaya M from Group Types programmed as	Merlin Magix, unrestricted of Integ VMI. If the customer	outdialing desires			

1 100 0

0.

NT.

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Extensions → Restriction → Extension of first Octel 100 → Enter →Unrestricted →Enter → Next

Extensions → ARS Restrict → Extension ofOctel 100 → Enter → change to 3 or greater → Enter Octel 100 Configuration Note (7007) Avaya Merlin Magix

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outdialing access for the Voice Mail system, (for Beeper notification, etc..) program the ports to outdial as follows.

Magix's ModeAllFactory SettingRestricted for Integrated VoiceMail ports

Set the Octel 100 ports restriction level to allow outdialing.

Select **System Programming** Select Extensions Select Restriction Enter the first Octel 100 port to be used for outdialing Select Enter Select Unrestricted Enter Select Repeat until all the Octel 100 ports that you require for outdialing have been changed. NEXT: Set the ARS Restriction to allow outdialing.

Magix's ModeHybrid/PBX onlyFactory SettingRestricted for Integrated VoiceMail ports

ASSIGNING ARS RESTRICTION LEVEL FOR OCTEL 100 EXTENSION

- Select System Programming
- Select Extensions
- Select ARS Restrict

Enter the first Octel 100 port to be used for outdialing

Select Enter

The current ARS Restriction level will be displayed.

The restriction level should be a 3 or higher to allow for unrestricted outdialing.

To change restriction level:

Select Backspace

Enter **3** (from the dial pad)

Select Enter

Repeat until all the Octel 100 ports that you require for outdialing have been changed.

5.4 CONFIGURING THE SUBSCRIBER STATIONS

Set up a coverage group for extending call to Octel 100

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Extensions → or More → or More → Cover Delay → Group → Dial Sender's Extension → Enter → Number of Rings (1 - 9) 4→ Enter → Back → Back	Magix's ModeAll Factory Setting3 RingsSelectExtensionsPress More to display second pageSelectCover DelaySelectGroup Number (extension assigned tSelectDial Sender's ExtensionPress Enter to continueSelectNumber of Rings (1 - 9) 4Press exit twiceRepeat until all subscriber extensions have been a	o the Octel 100 Calling Group)0 added
	6.0 CONFIGURATION OF THE OCTEL	100
Octel 100 Configuration	The Avaya Magix integration codes should alread Octel 100 provides for the detection of caller id v Octel 100 setup sections may be checked to verif integration codes are not correct, run the Integrate Merlin Magix switch.	dy be entered. Section 6.1 is for when available from the switch. y that this is done. If the or program and select the Avaya
	6.1 OCTEL 100	
Integration for Octel 100	Outside Line Access Code Off Hook Delay (OFFHDLY) Hook Flash Interval (FLINTVL) DTMF Tone Length (TONELEN)	9, 15 50 8
	Transfer, Paging and Screening Parameters Custom Transfer Code Intercom Paging Code Transfer Release Code when Busy Transfer Release Code when No Answer Call Screening Release Code when Busy Call Screening Release Code when No Answer Call Screening Release Code when Reject Call Screening Release Code When Transfer Release Code for Intercom Paging	&,XDR &,C3799N See Section 7.4 &,& &,& &,& &,& &,& &,& &,& &,& &,& &,
	Message Waiting Parameters Permit Message Waiting Lights Message Waiting Light Prefix ON Message Waiting Light Prefix OFF	✓ #53 #*53
	Inband Parameters Total Number of DID Digits DID Terminating Character Seconds to Wait for First Digit Millisecs to Wait for Next Digit	15 * 4 500
	Inband Templates	

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#00#R##	Auto Login
#02#S#R#	Go to Voice Mail
#03##R#	Go to Voice Mail
#02#?#R#	Go to Voice Mail
#05?	Go to VM Get Mailbox
#XX###	Go to VM Get Mailbox
#08?	Go to VM Get Mailbox

These Codes apply to the Inband Template:

R = Receiving Mailbox

S = Sending Mailbox X = Ignore Character Valid Characters are: \sim \$ * # 0-9 A-D F N T

Note: Some versions of the Integrator Utility added an Inband Code that resembled Go VM, Get M~ox instead of Go to VM Get Mailbox as above. This integration will fail if the Inband Information is not corrected. To correct this Open the System Setup and verify the Inband information is as described in Inband Templates above.

Note: Verify all these dialing sequences for your switch

7.0 CONSIDERATIONS / ALTERNATIVES

The following items should be considered, below:

- □ Transfers
- Disconnect Types
- Line/Pool Considerations
- □ Intercom Paging
- □ Calling Group Log Out
- **D** Trunk to Trunk Transfers

7.1 TRANSFERS

Internal calls transferred by Octel 100 do not follow a coverage path, they will forward to the console after the number of rings designated in the Transfer Release parameter. If this parameter is not set, internal transfers will ring no answer.

If the Octel 100 is programmed to execute a supervised transfer, Handsfree Announce must be disabled. If call forwarding is on at the station, ensure that it is for Ring/No Answer only, and that the ring timer is greater than the Maximum Rings for the mailbox.

7.2 DISCONNECT TYPES

The Avaya Merlin Magix does not provide consistent disconnect signaling. Therefore, it may be necessary for the Voice Mail system to disconnect on silence. Caller prompting and subscriber training are recommended to

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Important notes concerning this integration

encourage both callers and subscribers to exit the system completely when finished.

7.3 LINE/POOL CONSIDERATIONS

DID trunks/lines cannot be grouped in pools. Loop-start lines are automatically placed in pools; you must manually remove them if the line is to be used for paging loudspeakers, Music on Hold, or maintenance alarms.

A QCC cannot be a member of a Line/Pool.

7.4 INTERCOM PAGING

The Avaya Merlin Magix will support either Intercom paging, (over the telephone speakers), or External Paging, (over a loud speaker).

This integration is set up with the codes for Intercom Paging.

If you wish to use External Paging, you must edit the Intercom Paging code as follows:

&,C5#98xxNR xx = the trunk number of the paging trunk port.

7.5 CALLING GROUP LOG OUT

If the Avaya Merlin Magix loses power, or the Voice Mail System is shut down for a period of time, the Voice Mail Calling group will log itself out and not direct calls to the Voice Mail. To expedite the re-login of the Calling Group you must dial each Octel 100 port individually and enter #44.

For example, if Octel 100 ports are numbered 320 through 323, then dial 320 from a station set followed by #44; repeat for 321, 322, and 323.

7.6 TRUNK TO TRUNK TRANSFERS

If your application calls for the Octel 100 to transfer an external caller to an outside telephone number, you must allow Trunk to Trunk transfers on the Octel 100 ports.

Magix's Mode	All
Factory Setting	disabled

Select Extensions

Press More to display the second page

Press More again to display the third page

Select Trk Transfer

Enter the Octel 100 port extension numbers.

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Extensions → or More → or More → TrkTransfer → Dial Octel 100 Extension → Enter → Back → Back

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Select Enter

Select Back twice

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