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Voice Portal

# Configuration Note 3910 – Rev. F (1/08)

Avaya Voice Portal (Software application)



Important:This Configuration Note specifies the minimum configuration<br/>required by voice portal. It is advisable to consult with your<br/>application designer to ensure you have a configuration to<br/>meet your specific requirements.

## 1.0 METHOD OF INTEGRATION

There is one IP Link (Ethernet) from the Voice Portal's Media Processing Platform (MPP) server to the PBX. The integration is done via the IP SoftPhone protocol with voice transmission and integration information carried over IP.

## 2.0 VOICE PORTAL ORDERING INFORMATION

For details on server hardware and software requirements please refer to:

- Avaya Voice Portal 3 Concepts and Planning
- Avaya Voice Portal 3 Installation and Configuration Guide

Disclaimer: Configuration Notes are designed to be a general guide reflecting AVAYA 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 Technical Assistance Center at 408.922.1822, and if appropriate we will include it in our next revision. AVAYA accepts no responsibility for errors or omissions contained herein.

An IP/CCMS connector, the link between the PBX and Voice Portal handles both call data information and voice communication

	3.0 PBX HARDWARE REQUIREMENTS
	For G3 and traditional Cabinet S87x0/S8500 PBXs
PBX hardware requirements	• TN2302 AP Media Processor / TN2602 AP Media Resource circuit packs (Crossfire). AP Media circuit packs are used to convert the audio levels for the IP telephone to audio levels for DCP phones when IP phones are used in a call with non-IP telephones.
	*FOR FAX Support: TN2302 Firmware 111 minimum / TN2602AP Firmware 24 minimum
	• <b>TN799</b> Control-LAN (CLAN) circuit pack for the signaling capability (either the B or C vintage) on the csi, si, and r platforms.
	For S8300/S87x0/8500 using newer media modules
	• Use of EXT 2 port on the front panel of G700 to connect to MPP Server.
	For connecting to PBX:
	• Category 5 wiring or line cord to connect MPP Server to PBX.
	3.2 PBX SOFTWARE REQUIREMENTS
DDV Coffeenance Dogeninger on to	• Minimum software release CM2.1
	• Minimum release Avaya CM 3.1 and Special Application (Green Feature) <i>SA8874 - Call status messages for 7434ND IP phones</i> is strongly recommended. SA8874 provides detailed call-progress indications to Avaya VP when the incoming or outgoing call is either a station-to-station call or is over a PRI trunk. This allows supervised transfer to fully integrate with Voice Portal for call progress and handling. Without this feature supervised transfers will function similar to blind transfers and callers may hear busy or similar tones that would otherwise be avoided. To order <i>SA8874</i> use Material Code #202775. <u>Note</u> : There is a cost to add this feature to your PBX.
	• AAS capability – Avaya CM station type (7434ND) used by Avaya VP does not allow for Auto-Available Skill (AAS) capability to be configured. To resolve this issue install patch 11586, available through CM 3.0 Load 346.
	Important: Account teams should check with Avaya Services to determine if any other patches may be needed for the Avaya CM release they will integrate with Avaya VP.
	4.0 SUPPORTED FEATURES
FEATURES	The Voice Portal system provides either full or partial automation of telephone transactions that would otherwise be performed by an operator, attendant, or contact center agent. These automated transactions are driven by speech applications where each speech application is designed and developed to satisfy specific customer needs.

**Note:** With Voice Portal 4.0 or higher, an alternate gatekeeper discovery address can be configured on the VPMS to be used if the primary address does not respond.

### 5.0 CONFIGURING THE PBX TO INTEGRATE

The following tasks must be completed when programming the PBX to integrate.

IMPORTANT NOTE: Although the integration uses the IP Softphone protocol for connectivity, they are defined within the PBX as 4-wire 7434ND (numeric display) sets.

The tasks are as follows:

- Configure Switch System Settings
- Create Pilot number for the Voice Portal hunt group.
- Define the stations assigned to Voice Portal.
- **NOTE:** A number of configuration shows screens that follow are shown displayed in the Avaya Site Administration GUI, also known as GEDI (Graphically Enhanced DEFINITY interface). Screens and parameters may appear different depending on PBX software revision and load. Please note, for those using Definity System Administration the tabs on the following screens correlate to the page #s as displayed on the admin screens.

#### **5.1 SYSTEM PARAMETER FEATURES**

Under Parameters double-click change system-parameters features.

Select tab 5 and verify that the field 7434ND? is set to "y"

Figure 1: System Parameters Features - Tab 5



Configuring the PBX to integrate

#### 5.1.1 Ensuring best-quality IP Audio

To ensure best audio quality when calling Voice Portal from an IP phone, use the "**display ip-codec-set 1**" command and verify that a G711MU codec is shown at the first position.

Voice Portal supports **Voip Audio Formats** set to **audio/basic**(default) or **audio/x-alaw-basic**. This selection is defined on the VPMS's web page under the **VoIP Settings**. Make sure the switch is configured to support the codec you select. If you have selected **audio/basic** on the VPMS, then the codec set on the switch should include **G711MU**. If you have selected **audio/x-alaw-basic** on the VPMS, then the codec set on the switch should include **G711A**.

**Note:** When Voice Portal negotiates a codec from the switch at call setup, it typically will use the first codec on the list (below). A G711MU codec is typically used in the US and Japan, while a G711A is used in Europe and other parts of the world.

#### Figure 1a: Codec Sets



-continued on next page -

Ensuring the best audio quality.

"disp ip-codec-set 1"

**FAX:** Starting with Voice Portal 4.1 a fax tone detection feature is available. For this feature to work, you must configure the PBX correctly.

**Note:** Turn <u>off</u> the special fax handling as shown here in this codec set. This allows the fax to be handled as an ordinary voice call. With a codec set that uses G.711, this setting is required to send faxes to non-Avaya systems that do not support T.38 fax.

IP Codec Set Allow Direct-IP Multime	
Allow Direct-IP Multime	
	edia? n
Nodo Dodundonou	
FAX off 0	
Modem off 0	
TDD/TTY US 3	
Clear-channel n 0	

#### 5.1.2 Media Encryption

Voice Portal supports Media Encryption set to **Yes** (default) or **No**. This selection is defined on the VPMS's web page under the **H.323 Connections**. Be sure the switch has Media Encryption appropriately configured for **AES** (Encryption), **AEA** (Encryption) and/or **None** (No Encryption).

If Voice Portal has **Media Encryption** set to **Yes**, then the MPP will support Media Encryption for the switch set to **AES**(Encryption), **AEA** (Encryption) and/or None (No Encryption).

If Voice Portal has **Media Encryption** set to **No**, then the switch must have **None** (No Encryption) enabled (*see above - Figure 1a Codec Sets*). If this option is not set, then calls to the MPP will get dead air.

#### 5.1.3 IP-IP Direct Audio settings

The **IP-IP Direct Audio** settings must be enabled. Figure 1b (below) shows how to verify this. Use the "**display ip-network-region 1**" command and review.

-continued on next page -



#### Figure 1b: IP-Network-Region 1 (Tab 1 or Page 1)



#### 5.2 Configuration Requirements for Voice Portal Stations

- Create a **sequential** range of stations that will be used by Voice Portal. Each station should have the following five fields set as shown below.
  - 1. Type = 7434ND
  - 2. Display Name = Speech Access (this name would replace "\*Columbia 8050" in our example below)
  - 3. Display Module = y

<u>Note</u>: only after you select "y" will you see Display Language appear

- Display Language = <u>English</u>
- 5. Security Code = Set to a valid value.

<u>Note</u>: Voice Portals allows the security codes to be the same for every station, or incrementally set for stations in a given range.

6. IP SoftPhone? = y

#### Figure 2: Station options – Page 1 of 5

<u>Note</u>: The following screens for configuring the **Station Options are shown** using the standard terminal display. If you are using the Avaya Site Administration GUI, also known as GEDI (Graphically Enhanced DEFINITY interface), the page numbers would be depicted graphically as

Verify Direct Audio settings are set to "yes"

"disp ip-network-region 1"

tabs. Screens and parameters may appear different depending on PBX software revision and load.

<u>Important</u>: When configuring station options, the **Port** field is where you would enter **IP** (see red note below left). **Once you have added the user, the system then assigns a port.** 



### Figure 4: Station options – Page 3 of 5

Set the Button Assignments for the first two call appearances as shown.

display station 57001	CULT ON		Page	3 of	5
SITE DATA	STATION				
Room:		Headset?	n		
Jack:		Speaker?	n		
Cable:		Mounting:	d		
Floor:		Cord Length:	0		
Building:		Set Color:			
ABBREVIATED DIALING					
List1:	List2:	List3:			
BUTTON ASSIGNMENTS 1: call-appr 2: call-appr 3: 4: 5:	6: 7: 8: 9: 10:				

### Figure 5: Station options – Page 4 of 5

The default feature options should be left unchanged.

digplay station 57001		Daga	1 of	F
display station 57001	STATION.	Page	4 01	5
	DIATION			
BUTTON ASSIGNMENTS				
11:	23:			
12:	24:			
13:	25:			
14:	26:			
15:	27:			
16:	28:			
17:	29:			
18:	30:			
19:	31:			
20:	32:			
21:	33:			
22:	34:			

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#### 11 Voice Portal Figure 8: HUNT GROUP - Tab 3 change hunt-group 2 send (return) help (IS) cancel (esc) enter (I3) schedule (I9) next (I7) previous (I8) next form (I6) 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 4 HUNT GROUP Group Number: 2 Group Extension: 7915 Group Type: ucd-mia Member Range Allowed: 1 - 1500 Administered Members (min/max): 1 /5 Total Administered Members: 5 GROUP MEMBER ASSIGNMENTS Ext Name (24 characters) Ext Name (24 characters) 1: 8050 \*Columbia 8050 14: 2: 8051 \*Columbia 8051 15: 3: 8052 \*Columbia 8052 16: 4: 8053 \*Columbia 8053 17: 5: 8054 \*Columbia 8054 18: 6: 19: 7: 28: 8: 21: 22: 9: 10: 23: 11: 24: 12: 25: 13: 26: At End of Member List Right-click in a field to see a list of valid entries or help text

#### 5.4 ESTABLISHING THE LICENSE FILE

A LICENSE FILE " IP\_API\_A" MUST BE DESIGNATED FOR VOICE PORTAL. BELOW IS THE SCREEN THAT SHOWS IP REGISTRATIONS BY ID.

CHECK TO ENSURE IP-API\_A IS LISTED. OTHERWISE IT MAY BE NECESSARY TO ADD THE LICENSE TO CUSTOMER OPTIONS TABLE.

display sys	tem-parameters MAXI	customer-options MUM IP REGISTRATIONS BY PRODUC	r id	Page	10 of	11
Product ID IP_API_A IP_API_B IP_API_C IP_Agent IP_IR_A IP_Phone IP_ROMax IP_Soft IP_eCons	<pre>Rel. Limit</pre>	Used 124 0 0 117 0 11 0 0 0 0 0 0 0 0 0 0 0				

	Voice 1	Portal 12				
	6.0 C	ONFIGURING SERVER				
	Se	ee the Avaya Voice Portal – Installation and Configuration Guide				
	7.0 T	ESTING				
	7.1	Testing the Application				
		Call the pilot number for your system. Validate the functionality.				
Testing the	8.0 CC	8.0 CONSIDERATIONS				
Application	8.1	Although we indicated Group Type on a Hunt Group as the selected method of call distribution, users may opt to modify this according to their own needs.				
	8.2	A Maintenance Port is optional and configured on the switch as a non- maintenance port. The port should be in its own hunt group, or in a hunt group with other maintenance ports. It is used for testing applications or MPPs (Media Processing Platform). Each allocated MPP should have one maintenance port.				
	8.3	<b>ANI/DNIS sent to Voice Portal -</b> The ANI or DNIS sent to the Voice Portal should contain numbers only. Non-numerical values may cause the MPP improperly map the ANI/DNIS to the application to run.				
		-continued on next page -				

	Document History				
Revision	lssue Date	Reason for Change			
Α	11/10/05	GA release			
В	03/23/06	Added note regarding IP packet size setting in ip-codec-set (see page 4)			
С	<b>09/01/06</b> Added TN2602AP (a.k.a. Crossfire) circuit pack to Section 3.0 (PBX Requirements) as an alternate to the TN2302AP.				
D	03/08/07	Updated CN with new Green Feature requirement Section 3.2			
E 10/8/07 Updated section 3.0 with AAS/7434ND info and added SA8874 numb to clarify the green feature noted in same section.		Updated section 3.0 with AAS/7434ND info and added SA8874 number to clarify the green feature noted in same section.			
F	1/18/08	Added new screen (page 2 of ip-codec-set) and sidebar in section 5.1.1 for fax tone detection that is available starting in VP 4.1			

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