

Avaya Solution & Interoperability Test Lab

Application Notes for Innovation Technologies Worldwide InnLine 2020 with Avaya Communication Manager - Issue 1.0

Abstract

These Application Notes describe the procedures for configuring Innovation Technologies Worldwide InnLine 2020 as a third party voice messaging system.

Innovation Technologies Worldwide InnLine 2020 is a voice messaging systems that meets the needs of the lodging industry to help properties achieve a high level of guest service while enhancing operating efficiency.

Information in these Application Notes has been obtained through DevConnect compliance testing and additional technical discussions. Testing was conducted via the DevConnect Program at the Avaya Solution and Interoperability Test Lab.

1. Introduction

These Application Notes describe a compliance-tested configuration comprised of an Avaya Communication Manager and Innovation Technologies Worldwide InnLine 2020.

The overall objective of this interoperability compliance testing is to verify that the Innovation Technologies Worldwide InnLine 2020 can interoperate with Avaya Communication Manager. Serviceability testing was conducted to assess the reliability of the solution.

Innovation Technologies Worldwide InnLine 2020 is a voice messaging systems that specifically meets the needs of the lodging industry to help properties achieve a high level of guest service while enhancing operating efficiency.

The compliance testing will focus on the interface between Avaya Communication Manager and the Dialogic board in Innovation Technologies Worldwide InnLine 2020. During the compliance test, four analog lines were utilized to record calls to Technologies Worldwide InnLine 2020.



Figure 1: Configuration for the Innovation Technologies Worldwide InnLine 2020 Solution

CRK; Reviewed: SPOC 6/18/2008 Solution & Interoperability Test Lab Application Notes ©2008 Avaya Inc. All Rights Reserved.

2. Equipment and Software Validated

The following equipment and software/firmware were used for the sample configuration provided:

Equipment	Software/Firmware
Avaya S8720 Server	Avaya Communication Manager 5.0
	(R015x.00.0.825.4)
Avaya G650 Media Gateway	-
TN2312BP IP Server Interface	HW11 FW030
TN799DP C-LAN Interface	HW20 FW017
TN2302AP IP Media Processor	HW01 FW108
Avaya S8300 Server with Avaya G700 Media	Avaya Communication Manager 5.0
Gateway	(R015x.00.0.825.4)
Avaya 4600 Series IP Telephones	
4620SW (H.323)	2.7
4625SW (H.323)	2.7
Avaya 9600 Series IP Telephones	
9630 (H.323)	1.5
9650 (H.323)	1.5
Avaya 6408D+ Digital Telephone	-
Innovation Technologies Worldwide InnLine 2020	2.8.2
on Windows XP Pro	

3. Configure Avaya Communication Manager

This section provides the procedures for configuring node names, processor channel, analog recording stations, guestroom stations, hunt group, and coverage path on Avaya Communication Manager. All the configuration changes in Avaya Communication Manager are performed through the System Access Terminal (SAT) interface. The highlights in the following screens indicate the values used during the compliance test.

3.1. Configure Node Names

Enter the change node-names audix command, and provide a third party messaging system.

- Audix Names Enter a descriptive name for a third party messaging system
- IP address IP address of the Innovation Technologies Worldwide InnLine 2020 messaging system

```
    change node-names audix
    Page
    1 of
    1

    AUDIX NODE NAMES
    Audix Names
    IP Address

    audix
    192.45
    .80
    .201

    .
    .
    .
```

3.2. Configure Process Channel

Enter the **change communication-interface processor-channels** command to assign a processor interface channel.

- Proc Chan Select a processor channel for this link. Use the first channel available.
- Enable Enter y.
- Appl Enter or select **audix**.
- Mode Enter **s** for server.
- Interface Link Enter the TCP/IP link number used on the DATA MODULE form. During the compliance test, link 1 was used.
- Interface Chan Enter the TCP channel number (5000-64500 for Ethernet). This must match the PORT entry of the C-LAN device's parameters field in the InnLine 2020. The recommended entry for an InnLine 2020 is **5002**.
- Destination Node Enter the node name for the InnLine system as assigned on the AUDIX NODE NAMES form. During the compliance test, **audix** is used.
- Destination Port Use the default of **0**.
- Session Local Enter 1. This field must match the Local Node Number field in the switch dial plan.
- Session Remote Enter 1.
- Mach ID Enter 1.

chang	ge commu	inication	-inte	rface	proc	essor-	channels		Page	1 of	24
	PROCESSOR CHANNEL ASSIGNMENT										
Proc			Gtwy		Inte	rface	Destina	tion	Ses	sion	Mach
Chan	Enable	Appl.	То	Mode	Link	/Chan	Node	Port	Local	/Remot	e ID
1:	У	audix		S	1	5002	audix	0	1	1	1
2:	n										

3.3. Configure Analog Recording Stations

Enter the **add station p** command, where **p** is a valid extension in the provisioned dial plan. On **Page 1**, provide the following information:

- Type Enter **2500** for the station type.
- Port Enter the port number.
- Name Assign a descriptive name.

During the compliance test, four analog ports were assigned for the purpose of recording.

add station 26001		Page	1 of	4
	STATION			
Extension: 26001	Lock Messages? n		BCC:	0
Type: 2500	Security Code:		TN:	1
Port: 01A0601	Coverage Path 1:		COR:	1
Name: line-1	Coverage Path 2:		COS:	1
	Hunt-to Station:		Tests?	У
STATION OPTIONS				
XOIP Endpoint type: auto	Time of Day Lock Tab	Le:		
Loss Group: 1	Message Waiting Indicate	or: non	le	
Off Premises Station? n				
Survivable COR: inter	nal			
Survivable Trunk Dest? y				

On Page2 of the STATION form, set the following fields:

- LWC Reception Enter **audix**.
- LWC Activation Enter **n**.
- Switchhook Flash Enter y.
- AUDIX Name Enter **audix** as assigned on the AUDIX NODE NAMES form.
- Distinctive Audible Alerting Enter **n**.
- Adjunct Supervision Enter y. This provides disconnect supervision on the voicemail station ports.

add station 26001	Page 2 of 4
	STATION
FEATURE OPTIONS	
LWC Reception: audix	
LWC Activation? n	Coverage Msg Retrieval? y
LWC Log External Calls? n	Auto Answer: none
CDR Privacy? n	Data Restriction? n
Redirect Notification? y	Call Waiting Indication: y
Per Button Ring Control? n	Att. Call Waiting Indication: y
Bridged Call Alerting? n	Distinctive Audible Alert? n
Switchhook Flash? y	Adjunct Supervision? y
Ignore Rotary Digits? n	
H.320 Conversion? n	Per Station CPN - Send Calling Number?
Service Link Mode: as-needed	
Multimedia Mode: basic	
MWI Served User Type:	
AUDIX Name: audix	
	Coverage After Forwarding? s
	Direct IP-IP Audio Connections? y
Emergency Location Ext: 26001	IP Audio Hairpinning? n

3.4. Configure guestroom stations

Enter the **add station p** command, where **p** is a valid extension in the provisioned dial plan. On **Page 1**, specify a phone type, descriptive name, phone security code, and coverage path. During the compliance test, coverage path is set to **1**.

add station 22001			Page	1 of	5
		STATION			
Extension: 22001		Lock Messages? n		BCC:	0
Type: 4620		Security Code: *		TN:	1
Port: IP		Coverage Path 1: 1		COR:	1
Name: guestroom-1		Coverage Path 2:		COS:	1
		Hunt-to Station:			
STATION OPTIONS					
		Time of Day Lock Tabl	e:		
Loss Group:	19	Personalized Ringing Patter	n: 1		
		Message Lamp Ex	t: 22	001	
Speakerphone:	2-way	Mute Button Enable	d?y		
Display Language:	english	Expansion Modul	e? n		
Survivable GK Node Name:					
Survivable COR:	internal	Media Complex Ex	:t:		
Survivable Trunk Dest?	У	IP SoftPhor	le? y		

3.5. Configure Hunt Groups

Enter the **add hunt-group n** command, where **n** is an unused hunt group number. On **Page 1** of the HUNT GROUP form, assign a descriptive Group Name, Group Extension valid in the provisioned dial plan, and Group Type.

- Group Name Enter a name for this group.
- Group Extension Enter an unassigned extension. This extension will be the access code for message retrieval. Both office staff and guests will use this access code.
- Group Type Enter **ddc**.

add hunt-group 99			Page	1 of	60
		HUNT GROUP			
Group Number:	99	ACD?	n		
Group Name:	test1	Queue?	n		
Group Extension:	50099	Vector?	n		
Group Type:	ddc	Coverage Path:			
TN:	1	Night Service Destination:			
COR:	1	MM Early Answer?	n		
Security Code:		Local Agent Preference?	n		
ISDN/SIP Caller Display:					

On **Page 2**, provide the following information:

- LWC Reception Enter **none.**
- AUDIX Name Enter **audix** as assigned on the AUDIX NODE NAMES form.
- Message Center Enter **audix**.
- Message Center AUDIX Name Enter **audix** as assigned on the AUDIX NODE NAMES form
- Calling Party Number to INTUITY AUDIX Enter **n**.

add hunt-group 99	HUNT GROUP		Page	2 of	60
	LWC Reception: none	AUDIX Name:	audix		
	Message Center: audix				
Mess Calling Party Nu	age Center AUDIX Name: audix Primary? n amber to INTUITY AUDIX? n				

On **Page 3**, assign each extension to the group in sequential order.

add hu	int-group	99			Page 3 of 60
			HUNT GF	ROUP	J
	Group	Number: 99	Group Extensi	ion: 50099	Group Type: ucd-mia
Memk	ber Range	Allowed: 1 -	1500 Ad	dministered	Members (min/max): 1 /4
				Total Adm	inistered Members: 4
GROUP	MEMBER AS	SSIGNMENTS			
	Ext	Name(19	characters)	Ext	Name(19 characters)
1:	26001	line-1		14:	
2:	26002	line-2		15:	
3:	26003	line-3		16:	
4:	26004	line-4		17:	
5:				18:	
6:				19:	

3.6. Configure Coverage Path

Use the **add coverage path** command to define the coverage path that redirects unanswered calls to InnLine voicemail. After two rings, calls go to hunt group 99 (**h99**).

add coverage path 1			Page 1 of 1
	COVERAGE I	PATH	2
Coverage	Path Number: 1		
		Hunt af	ter Coverage? n
Next	Path Number:	Linkage	1
COVERAGE CRITERIA			
Station/Group Status	Inside Call	Outside Call	
Active?	У	У	
Busy?	У	У	
Don't Answer?	У	У	Number of Rings: 2
All?	n	n	
DND/SAC/Goto Cover?	У	У	
Holiday Coverage?	n	n	
COVERAGE POINTS			
Terminate to Coverage P	ts. with Bridged	Appearances?	n
Point1: h99 Rn	g: Point2:		
Point3:	Point4:		

4. Configure Innovation Technologies Worldwide InnLine 2020

Innovation Technologies Worldwide installs, configures, and customizes the InnLine 2020 voice messaging system for their end customers. This section only describes the device interfaces and Ports configuration for the InnLine 2020 application to communicates with Avaya Communication Manager. Refer to [2] for configuring the InnLine 2020 application.

4.1. Configure Device Interfaces

Open the InnLine 2020 system page, and click the 🕓 🖻 button to open the InnLine 2020 system configuration page.



Click the **Device Interfaces** link from the left pane of the screen, and select **New Interface**.

	Innovation Technologies Worldwide
System • Device Interfaces System Voice Ports Port Types Device Interfaces Administrators Tenants Avaya Certification System Avaya Certification System Automated Attendants Guest Services Menus Guest Tutorials Distribution Lists	Back New Interface CLAN
- Notifications - Special Message Notifications - Mailboxes	

From the Select New Interface Type screen, select Avaya C-LAN Protocol and click on OK.

Avaya C-LAN Protocol		ок
Active Voice PMS Alcatel OmnIPCX 4400 AHL PBX Alcatel OmnIPCX 4400 AHL PMS Avaya C-LAN Protocol Avaya Passive PMS Centigram Emulation Centigram protocol (no msg counts) Computerized Lodging Systems PMS Courtyard PMS DID Routing Protocol (Exacom) Encore PMS Fidelio PMS Fidelio PMS Fidelio PMS (NOT CENTIGRAM) Hitachi Compatible PMS to Mitel PBX Hitachi FOA port Hitachi SYS MSG port Hitachi VMS	•	Cancel

From the Avaya C-LAN Protocol screen, click on the **Other Settings** tab and provide the following information:

- Associated Tenant select **Avaya Certification System** using the drop down menu.
- Parameters Provide IP address of the C-LAN circuit pack for IPADDRESS, and the channel number configured in **Section 3.2** for PORT.

Click on **OK**.

Avaya C	-LAN Protocol	×
Infor	mation Other Settin	95 Notes
	Associated Tenant:	Avaya Certification System
	Parameters:	IPADDRESS=192.45.80.87 PORT=5002 MSGTOI
	Echo Messages?	
	Device Number Translation:	© None O Strip Leading Digit 7 7
		Only in Range: through 55
		OK Cancel

4.2. Configure Voice Ports

Open the InnLine 2020 system configuration page. Click the **Voice Ports** link from the left pane of the screen, and select **Port Wizard**.

			INN	NLINE 20	Vorldwide
System - Voice Ports System Voice Ports Device Interfaces Administrators Tenants Avaya Certificatie Avaya Certificatie Guest Service Guest Service	on System tendants es Menus Is	Back Port Types	Port Wizard		
Distribution Li Notifications Special Me	sts essage Notifications				

From the Port Wizard screen, provide the following information:

- 1st Extension Enter the first analog recording extension
- Starting Port Enter the starting port. During the compliance test, the starting port was set to **1**.
- Ending Port Enter the ending port. During the compliance test, the ending port was set to **4**, since four recording stations are configured during the compliance test.
- Tenant Select Avaya Certification System using the drop-down menu.
- Port Type Select Avaya CLAN using the drop-down menu. Click on OK.

Port Wizard	X			
1st Extension:	26001 Starting Port:			
Disable?	Ending Port: 4 🚔			
Tenant:	Avaya Certification System 🔽			
Port Type:	Avaya CLAN			
Call Direction:	In-bound only			
Out-bound Actions:	▼ All Out-bound Actions			
Default Mailbox:	AA Go To			
Guest Direct Call:	Logs in to guest mailbox 💌			
OK Cancel				

Under Voice Ports menu, four voice ports are created and configured.

System · Voice Ports						E 20	orldwide
System Voice Ports Port Types Device Interfaces Administrators Tenants Avaya Certification System Automated Attendants Guest Services Menus Guest Tutorials Distribution Lists Notifications Special Message Notifications	Back Back Port 04	Port Types	Port Wizard	Port 01	Port 02	Port 03	

Click the 🔊 🖻 button to start monitor and record stations. The following shows the InnLine 2020 Telephone Port Activity screen that is setup with four analog recording stations.

	Innovation Technologies Worldwide
8242	Call ITW at (608) 798-3555 for technical support
Telephone Port Activity	 Monitor: All Activity
01 wait for call	000 InnLine runtime started Tue Mar 04 13:00:58 2008 002 initializing
02 wait for call	004 initializing 003 initializing
03 wait for call	001 Wait for call 003 Wait for call 004 Wait for call
04 wait for call	

5. Interoperability Compliance Testing

The interoperability compliance test included feature and serviceability testing. The feature testing evaluated the ability of Innovation Technologies Worldwide InnLine 2020 as a voice messaging system by making calls from intra-switch, inter-switch and PSTN calls. The serviceability testing introduced failure scenarios to see if Innovation Technologies Worldwide InnLine 2020 can resume updating after failure recovery.

5.1. General Test Approach

The general approach was to make manual calls to the hunt group number, recording lines, or guestroom phones, and messages are stored in Innovation Technologies Worldwide InnLine 2020. Retrieval of stored messages was verified. For serviceability testing, failures such as Ethernet cable pulls and resets were applied.

5.2. Test Results

All test cases were executed and passed.

6. Verification Steps

Place a call and verify that a voicemail message can be left and retrieved for the user. The following shows a sample screen shot of a voice message being stored in Innovation Technologies Worldwide Innline 2020.

		Innovation Technologies Worldwide
Telephone Port Activity		✓ Monitor: All Activity
01 play 513	<u> </u>	007 play 513 007 loop ourrent drop detected
02 wait for call		007 wait for call 007 off hook 007 CDIRECT CALL FROM 280 >>
03 wait for call		007 hang-up detected (VBPlayMACPrompts:A) 004 dial &,500 002 og hook
04 wait for call		006 off hook 007 wait for call 006 << DIRECT CALL FROM 280 >> 006 of au 513

7. Support

Technical support for Innovation Technologies Worldwide InnLine 2020 is available via the support link at <u>http://www.innovationtw.com/support</u> or by calling the support telephone number at (800)424-6757.

8. Conclusion

These Application Notes illustrate the procedures for configuring the Innovation Technologies Worldwide InnLine 2020 voice messaging system to store calls coming from a hunt group, direct recording lines, or guestroom via a coverage path. During compliance testing, Innovation Technologies Worldwide InnLine 2020 successfully stored calls and users were able to retrieve messages.

9. Additional References

This section references the Avaya and Innovation Technologies Worldwide documentation that are relevant to these Application Notes.

The following Avaya product documentation can be found at <u>http://support.avaya.com</u>. [1] *Administrator Guide for Avaya Communication Manager*, Release 5.0, Issue 4, January 2008, Document Number 03-300509

The following Innovation Technologies Worldwide product documentation was provided by Innovation Technologies Worldwide.

[2] InnLine 2020 & Express Voice Mail PBX Installation and Testing Guide, 01 July 2001

©2008 Avaya Inc. All Rights Reserved.

Avaya and the Avaya Logo are trademarks of Avaya Inc. All trademarks identified by B and TM are registered trademarks or trademarks, respectively, of Avaya Inc. All other trademarks are the property of their respective owners. The information provided in these Application Notes is subject to change without notice. The configurations, technical data, and recommendations provided in these Application Notes are believed to be accurate and dependable, but are presented without express or implied warranty. Users are responsible for their application of any products specified in these Application Notes.

Please e-mail any questions or comments pertaining to these Application Notes along with the full title name and filename, located in the lower right corner, directly to the Avaya DevConnect Program at devconnect@avaya.com.