

Avaya Solution & Interoperability Test Lab

Application Notes for InteractCRM CallBackConnect 1.3 with Avaya Voice Portal 5.1 and Avaya Aura® Communication Manager 6.0 – Issue 1.0

Abstract

These Application Notes describe the configuration steps required for InteractCRM CallBackConnect 1.3 to interoperate with Avaya Voice Portal 5.1 and Avaya Aura® Communication Manager 6.0. InteractCRM CallBackConnect is a queue management solution which gives callers a choice to receive a return phone call when agents are busy. As agents become available, CallBackConnect calls the customers back and connects them with an available agent. CallBackConnect was developed using Avaya Dialog Designer and runs on a separate server. It uses the Voice Portal Web Services to initiate the outbound calls during callback.

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 the configuration steps required for InteractCRM CallBackConnect to interoperate with Avaya Voice Portal and Avaya Aura® Communication Manager. InteractCRM CallBackConnect is a queue management solution which gives callers a choice to receive a return phone call when agents are busy. As agents become available, CallBackConnect calls the customers back and connects them with an available agent. CallBackConnect was developed using Avaya Dialog Designer and runs on a separate server. It uses the Voice Portal Web Services to initiate the outbound calls during callback.

Using the call vectoring functionality available on Avaya Aura® Communication Manager, InteractCRM CallBackConnect can be incorporated into existing call routing strategies. These Application Notes describe the minimum call vector requirements for InteractCRM CallBackConnect. Details on vector programming can be found in [3], [4] and [5].

2. General Test Approach and Test Results

The feature test cases were performed manually. Calls were placed to the Vector Directory Number (VDN) and in the associated vector steps, the customer was given a choice to request a callback. If the customer chose this option, the call is then routed to the CallBackConnect Voice XML (VXML) application running on the Voice Portal, where he or she provided the callback number and optionally, the date and time for a scheduled callback.

At the scheduled time, CallBackConnect launched a call to a pre-configured VDN to find an available agent, and then puts the agent on hold while making a call to the customer. When the customer answers, CallBackConnect will transfer the call to the agent to complete the callback.

Both the CallBackConnect call flows - to leave the callback number and to launch the callback - were tested. During callback, call scenarios such as all agents busy, customer phone busy or no answer and invalid callback number were tested.

The serviceability test cases were performed manually by disconnecting the Ethernet cables on the CallBackConnect server and Voice Portal servers and rebooting of CallBackConnect servers and Voice Portal server.

2.1. Interoperability Compliance Testing

The interoperability compliance test included feature and serviceability testing.

The feature testing focused on verifying InteractCRM CallBackConnect for the following:

- Requesting an immediate or a scheduled callback.
- Performing a successful callback under normal conditions.
- Performing a callback under various call scenarios such as all agents busy, customer phone busy or no answer and invalid callback number.
- Callback rescheduled when not successful.

The serviceability testing focused on verifying the ability of InteractCRM CallBackConnect to recover from adverse conditions, such as disconnecting the Ethernet cables on the CallBackConnect server and Voice Portal servers, and rebooting CallBackConnect and Voice Portal.

2.2. Test Results

All feature and serviceability test cases were executed and passed.

2.3. Support

Technical support on InteractCRM CallBackConnect can be obtained through the following:

- Phone: +91-22-40553055
- Email: <u>tcsupport@interactcrm.com</u>

3. Reference Configuration

Figure 1 illustrates a sample configuration consisting of an Avaya S8800 Server running Avaya Aura® Communication Manager, an Avaya G650 Media Gateway, Avaya Voice Portal running on 2 servers and Avaya 9640 IP Telephones. InteractCRM CallBackConnect is installed on a Windows 2003 Server together with Microsoft SQL Server 2005 for database support. CallBackConnect voice application uses Nuance RealSpeak 4.5 to provide play back text-to-speech prompts. The Avaya C364T-PWR Converged Stackable Switch provides Ethernet connectivity to the servers and IP telephones.



Figure 1: Test Configuration

4. Equipment and Software Validated

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

Equipment/Software	Version
Avaya S8800 Server	Avaya Aura® Communication Manager
	6.0
	(Service Pack 00.0.345.0-18567)
Avaya G650 Media Gateway	-
TN2312BP IP Server Interface	HW07, FW049
TN799DP C-LAN Interface	HW01, FW034
TN2302AP IP Media Processor	HW20, FW120
TN2185B BRI Trunk	000004
Avaya Voice Portal	5.1
	Service Pack 1
Avaya C364T-PWR Converged Stackable Switch	4.5.18
Avaya 9640 IP Telephones	3.1.1 (H.323)
InteractCRM CallBackConnect	1.3
on	
Dell PowerEdge 1950	Microsoft Windows Server 2003, SP2
Microsoft SQL Server	Microsoft SQL Server 2005, SP3
• Sun Java SE Development Kit (JDK)	Version 6 Update 22
Apache Tomcat	5.5.17

5. Configure Avaya Aura® Communication Manager

These Application Notes assume that Communication Manager is installed and operational. This section describes the steps for configuring Communication Manager to work with InteractCRM CallBackConnect as well as the integration steps for Voice Portal. All configurations in the section are administered using the System Access Terminal (SAT). The procedures covered include the following:

- Configure Avaya Voice Portal H.323 Stations
- Configure Avaya Voice Portal Hunt Group
- Configure Vectors and VDNs

5.1. Configure Avaya Voice Portal H.323 Stations

For these Application Notes, H.323 stations will provide the integration between Communication Manager and Voice Portal. Calls to these stations will be routed to Voice Portal which will run a VXML application from the CallBackConnect server. Enter the **add station n** command. In the station form, set the **Type** to **7434ND**, set **Port** to **IP** and provide a descriptive **Name**. Specify a **Security Code**, which will be used in **Section 6.1 Step 2** when configuring Voice Portal and set the **Display Module** and **IP SoftPhone** fields to **y**.

add station 10201	Pa	ge 1 of	6
	STATION	-	
Extension: 10201	Lock Messages? n	BCC:	0
Type: 7434ND	Security Code: 1234	TN:	1
Port: IP	Coverage Path 1:	COR:	1
Name: VP #1	Coverage Path 2:	COS:	1
	Hunt-to Station:		
STATION OPTIONS			
	Time of Day Lock Table:		
Loss Group: 2	Personalized Ringing Pattern:	1	
Data Module? n	Message Lamp Ext:	10201	
Display Module? y			
Display Language: english	Coverage Module?	n	
Survivable COR: internal	Media Complex Ext:		
Survivable Trunk Dest? y	IP SoftPhone?	У	
	Remote Office Phone?	n	
	IP Video Softphone?	n	
Short/	Prefixed Registration Allowed:	default	

On Page 2 set MultiMedia Mode to enhanced.

add station 10201	Page 2 of 6
	STATION
FEATURE OPTIONS	
LWC Reception: spe	Auto Select Any Idle Appearance? n
LWC Activation? y	Coverage Msg Retrieval? y
LWC Log External Calls? n	Auto Answer: none
CDR Privacy? n	Data Restriction? n
Redirect Notification? y	Idle Appearance Preference? n
Per Button Ring Control? n	Bridged Idle Line Preference? n
Bridged Call Alerting? n	Restrict Last Appearance? y
Active Station Ringing: single	
H.320 Conversion? n	Per Station CPN - Send Calling Number?
Service Link Mode: as-needed	EC500 State: disabled
Multimedia Mode: enhanced	
MWI Served User Type:	Display Client Redirection? n
AUDIX Name:	Select Last Used Appearance? n
	Coverage After Forwarding? s
Demote Orftenberg December Orlle	and here have to to to here a strange
Remote Soluphone Emergency Calls: 8	as-on-local Direct IP-IP Audio Connections? y
Emergency Location Ext: 10201	Always Use? n IP Audio Hairpinning? y

JC; Reviewed: SPOC 2/9/2011 On Page 6 add a normal button to the station.

```
add station 10201 Page 6 of 6
STATION
DISPLAY BUTTON ASSIGNMENTS
1: normal
2:
```

Repeat the above steps for each Voice Portal station. In this configuration, ten Voice Portal stations were configured with an extension range of 10201-10210.

5.2. Configure Avaya Voice Portal Hunt Group

To route the calls to Voice Portal, a hunt group is created to include all the Voice Portal stations configured in the steps above. To add a hunt group, use the command **add hunt-group n**. Enter a descriptive name for **Group Name**, set **Group Extension** to an available extension number and set **Group Type** to **ucd-mia**.

add hunt-group 200			Page	1 of	60
	HINT CROUP				
	HONI GROOP				
Group Number:	200	ACD?	n		
Group Name:	Voice Portal	Queue?	n		
Group Extension:	10200	Vector?	n		
Group Type:	ucd-mia	Coverage Path:			
TN:	1 Night Ser	vice Destination:			
COR:	1	MM Early Answer?	n		
Security Code:	Local	Agent Preference?	n		
ISDN/SIP Caller Display:	grp-name				

On Page 3, add the Voice Portal stations configured in Section 5.1 to the hunt group.

add hu	unt-group	200							Page	е	3 of	60	
					HUNT	GROUP							
	Group	Number:	200	Group 1	Exten	sion: 1	0200		Group Ty	pe:	ucd-	mia	
Memb	ber Range	Allowed:	: 1 -	1500		Adminis	stered 1	Members	(min/ma	x):	1	/10	
						Tot	al Adm	inister	ed Member	rs:	10		
GROUP	MEMBER AS	SSIGNMENT	ſS										
	Ext	Nan	ne(19	charac	ters)		Ext		Name(19	cha	aract	ers)	
1:	10201	VP	#1			14:							
2:	10202	VP	#2			15:							
3:	10203	VP	#3			16:							
4:	10204	VP	#4			17:							
5:	10205	VP	#5			18:							
6:	10206	VP	#6			19:							
7:	10207	VP	#7			20:							
8:	10208	VP	#8			21:							
9:	10209	VP	#9			22:							
10:	10210	VP	#10			23:							
11:						24:							
12:						25:							
13:						26:							

5.3. Configure Vectors and VDNs

5.3.1. Configure Vector to Integrate CallBackConnect

To add CallBackConnect functionality to an existing call centre ACD, the vectors and VDNs that queued the calls to the agents can be modified as shown below. A brief explanation of the relevant vector steps are as follows:

- Step 04 prompts the customer to press 1 if they wish to schedule a callback.
- Step 05 evaluates if the caller pressed 1, and if yes, jumps to Step 07.
- Step 06 jumps back to Step 03 if the caller chooses not to do callback.
- **Step 07** routes the call to the Voice Portal hunt group configured in **Section 5.2** and the CallBackConnect application will prompt the caller for callback details.

Note: This is a sample vector. It is possible to provide additional call treatment within the vector such as queue announcements, expected-wait-time evaluation and time of day routing, please see [3], [4] and [5] for further information.

```
Page 1 of
change vector 11
                                                                                                         6
                                             CALL VECTOR
     Number: 11
                                      Name: CBCon Eq-Q2Aqts
                                                        Meet-me Conf? n
                                                                                             Lock? n
      Basic? y EAS? y G3V4 Enhanced? y ANI/II-Digits? y ASAI Routing? y
 Prompting? y LAI? y G3V4 Adv Route? y CINFO? y BSR? y Holidays? y
 Variables? y 3.0 Enhanced? y
01 wait-time 1 secs hearing ringback
02 queue-tosets hearing ringback02 queue-toskill 5 pri m03 wait-time30 secs hearing music04 collect1 digits after announcement 1996205 goto step7 if digits06 goto step3 if unconditionally07 route-tonumber 1020002 dialogwith cov n if u
                                                                           for none
                                                                            1
                                                   with cov n if unconditionally
08 stop
09
```

5.3.2. Configure VDN to Queue to Agents

The VDN to queue to the agents was created already prior to the integration with CallBackConnect. It is included here for reference.

```
change vdn 14011

VECTOR DIRECTORY NUMBER

Extension: 14011

Name*: VDN: CBCon Eg-Q2Agts

Destination: Vector Number 11

Meet-me Conferencing? n

Allow VDN Override? n

COR: 1

TN*: 1

Measured: none
```

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5.3.3. Configure CallBackConnect Vector

This vector was used exclusively by CallBackConnect to reserve agents to handle a customer callback. CallBackConnect used the Voice Portal Web Services to initiate the outbound calls from the Voice Portal H.323 stations to this VDN/vector. When agents answered such a callback call, they were placed on hold while CallBackConnect made another call to the customer.

Note: This is a sample vector. It is possible to provide additional call treatment within the vector such as placing callback to a different agent skill performing callback, queuing the callback with higher priority and time of day routing, please see [3], [4] and [5] for further information.

```
change vector 12 Page 1 of 6

CALL VECTOR

Number: 12 Name: CBCon-ResrvAgts
Meet-me Conf? n Lock? n
Basic? y EAS? y G3V4 Enhanced? y ANI/II-Digits? y ASAI Routing? y
Prompting? y LAI? y G3V4 Adv Route? y CINFO? y BSR? y Holidays? y
Variables? y 3.0 Enhanced? y
01 wait-time 1 secs hearing silence
02 queue-to skill 5 pri m
03 wait-time 300 secs hearing silence
```

5.3.4. Configure VDN for CallBackConnect Vector

Use the command **add vdn n**, where **n** is an available extension. Enter a descriptive name for Name and enter vector 12 that was configured in the previous section as the **Destination: Vector Number**.

```
change vdn 14012 Page 1 of 3
VECTOR DIRECTORY NUMBER
Extension: 14012
Name*: CBConnect Callback2Agt
Destination: Vector Number 12
Meet-me Conferencing? n
Allow VDN Override? n
COR: 1
TN*: 1
Measured: none
```

6. Configure Avaya Voice Portal

This section provides the procedures for configuring Voice Portal. Voice Portal is configured via an Internet browser using Voice Portal Management System (VPMS) web interface. It is assumed that Voice Portal and the WebLM license file have already been installed. In this configuration, Voice Portal is connected to Communication Manager using H.323 VoIP Connection. The procedures fall into the following areas:

- Configuring H.323 Connection to Avaya Aura® Communication Manager
- Add Applications
- Configure Web Service Authentication

6.1. Configuring H.323 Connection to Avaya Aura® Communication Manager



-p	
2.	In the Add H.323 Connection screen, specify a Name and enter the IP address of the
	Avava S8800 Server in the Gatekeeper Address field. Set Media Encryption to No as i
	was not configured on Communication Manager for this testing
	was not configured on communeation manager for tins testing.
	Avava Voice Portal Management System - Windows Internet Evologer
	Certificate Error 🦩 🗙 Goode 5G
	😭 🏟 🛕 Avaya Voice Portal Management System
	AVAVA Welcome, admin
	Last logged in yesterday at 5:55:47 PM SG1
	Voice Portal 5.1 (VoicePortal) nº Home 7. Help @ Logott Expand All Collapse All
	Viser Management Roles Add H 323 Connection
	Users Login Options Use this page to add a new H 323 connection
	System Monitorn Active Calls
	Port Distribution Name: CM
	Audit Log Viewer Endures: 10.1.10.10
	Alarm Manager System Management Alternative Gatekeeper Address:
	MPP Manager Gatekeeper Port: 1719
	System backup ▼ System Configuration Media Encryption: C Yes No Alarm Codes ▼
	Done
	Type and click Add. Accept the default values for the other fields and click Save.
	Type and click Add. Accept the default values for the other fields and click Save.
	Type and click Add. Accept the default values for the other fields and click Save.
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	Type and click Add. Accept the default values for the other fields and click Save.
	Type and click Add. Accept the default values for the other fields and click Save.

6.2. Add Applications

tep	Description							
1.	Navigate to System	a Configuration > Applications and click Add (not she	own). On the					
	Add Application page, specify a Name for the application, set the Type field to							
	VoiceXML, and set the VoiceXML URL field to a URL provided by CallBackConnect							
	that will point to ar	application hosted on the CallBackConnect server. In t	he Speech					
	Servers section sel	lect Nuance for TTS and select a suitable TTS voice For	or this testin					
	Nuance TTS was a	lready configured for Voice Portal with the English(IS	(A) on US T					
	Muallee 115 was a	incady configured for voice fortal with the English (05						
	IVI voice instaneu.							
	Avaya Voice Portal Manage	ment System - Windows Internet Explorer	X					
		J.du/voicePortai/races/main.jsr						
	📈 🕸 🗛 Avaya Voice Porta	Management System						
	Αναγα	Last logged in to	Welcome, admin day at 2:30:47 PM SGT					
	Voice Portal 5.1 (VoicePo	rtal) ff Home	?.Help ❸ Logoff					
	Expand All Collapse All	You are here: <u>Home</u> > System Configuration > <u>Applications</u> > Add Application	<u>_</u>					
	Roles Users	Add Application						
	Login Options Real-Time Monitoring	Use this page to deploy and configure a new VoiceXML or CCXML application on the Voice Portal system	n.					
	System Monitor Active Calls	Name: CallBackConnect						
	System Maintenance	Enable: Yes O No						
	Trace Viewer Log Viewer	Type: VoiceXML						
	Alarm Manager ▼ System Management							
	MPP Manager Software Upgrade	URL						
	System Backup System Configuration Alarm Codes							
	Alarm/Log Options Applications MPP Servers	VoiceXML URL: http://10.1.10.121:9081/CallBackConnect_Engine/Start	Verify					
	Speech Servers	Mutual Certificate Authentication: O Yes 💿 No						
	VoIP Connections VPMS Servers Security	Basic Authentication: O Yes O No						
	Certificates Licensing	Speech Servers						
	Standard	ASR: No ASR V TTS: Nuance V						
	Scheduled	Mandarin(Taiwan) zh-TW Ya-Ling F Voices: Mandarin(Taiwan) zh-TW Mei-Ling F						
		English(USA) on US Tam M						
		Lingiisin(CGA) en-CS Tolin W	-					

Step	Description	
	Voice Portal launched an application based on the called number. Scroll dow	n to the
	Application Launch section, and select Inbound. In the Called Number field	d, enter the
	Voice Portal Hunt Group Extension configured in Section 5.2 and click Ad	d . Click
	Save.	
	Note: The Voice Portal H 323 Stations configured in Section 5.1 can also be	added in the
	list of Called Number to test the CallBackConnect application when dialing	to the
	inst of Caned Aumoer to test the CanbackConnect appreation when diamig	to the
	Annual Union Dankel Management Contage - Uliadame Takament Conference	
	Avaya voice Portal Management System – Windows Internet Explorer	
	A Avaya voice Portal Management System	······································
	Δνανα	Welcome, admin
	Last logged in today	at 2:30:47 PM SGT
	Voice Portal 5.1 (VoicePortal) fi Home ?-	Help 😧 Logoff
	User Management	
	Users	
	Real-Time Monitoring O Number C Number Range C URI System Monitor	
	Active Calls Called Number: 10200 Add	
	System Maintenance Audit Log Viewer Troe Viewer	
	Log Viewer Alarm Manager <pre></pre>	
	System Management MPP Manager Remove	
	Software Upgrade System Backup	
	Alarm Codes Speech Parameters >	
	Applications MPP Servers Penorting Parameters	
	Report Data SNMP	
	Speech Servers Advanced Parameters >	
	VPND Servers Servers Servers Save Cancel Help Certificates	
	lirensinn I	
	internet internet	100% • /

6.3. Configure Web Service Authentication

Step	Description
1.	Navigate to System Configuration > VPMS Servers and click VPMS Settings (not shown). On the VPMS Settings page, scroll down to the Web Service Authentication section. For Outcall, specify a User Name and Password for CallBackConnect to instruct Voice Portal to make outbound calls. Click Save
	✓ Orce Portal to Inface Outbound carls. Crick Save. ✓ Avaya Voice Portal Management System - Windows Internet Explorer ✓ ▲ https://10.1.10.80/VoicePortal/faces/main.jsf ✓ ▲ Avaya Voice Portal Management System ▲ Avaya Voice Portal Management System
	Voice Portal 5.1 (VoicePortal) ft Home ?. Help © Logoff Expand All Collapse All Disk: 90 80
	Andre Uog Newen Application Reporting Log Viewer Application Reporting Alarm Manager User Name: <default> Y System Manager Password: Software Upgrade System Configuration Y System Configuration Verify Password:</default>
	Alarm Codes Alarm/Log Options Applications Applications MPP Servers Report Data SNMP Speech Servers VOIP Connections VPMS Servers VPMS Servers Verify Password:
	Save Apply Cancel Help Standard Custom ▼

7. Configure InteractCRM CallBackConnect

This section provides the procedures to configure InteractCRM CallBackConnect. InteractCRM CallBackConnect Server was deployed on a Windows 2003 Server running Apache Tomcat 5.5.17.

From the InteractCRM CallBackConnect server, edit the file **CBM_Dev.properties** located in the folder **<CallBackConnect Home>\configuration\config** using Notepad. Configure the following parameters.

Parameter	Value
callmanager.vp.ip	IP address of Voice Portal Management System
callmanager.vp.ws.username	User Name for Outcall configured in Section 6.3.
callmanager.vp.ws.password	Password for Outcall configured in Section 6.3.

🗭 CBM_Dev.properties - Notepad	
<u>File E</u> dit F <u>o</u> rmat <u>V</u> iew <u>H</u> elp	
<pre># Matured Job Scheduler, Specify Interval in Minutes scheduler.interval=20 callmanager.vp.ip=10.1.10.80 # Timeout in Miliseconds callmanager.vp.ws.timeout=300000 callmanager.vp.ws.username=outcall callmanager.vp.ws.password=***** callmanager.vp.ws.appName=CallbackConnect callmanager.vp.ws.appName=CallbackConnect callmanager.rec.file.url=http://192.168.0.207:8080/CBM_v1.0_mod/recordings/ callmanager.rec.file.path=abc database.name=SQL request.immediate.disable=0 request.set.connect.timeout.secs=600 </pre>	4
<u> </u>	

8. Verification Steps

This section provides the tests that can be performed to verify proper configuration of Communication Manager, Voice Portal and CallBackConnect.

8.1. Verify Communication Manager

Verify the status of the administered Voice Portal H.323 stations by using the status station n command, where n is a H.323 station created in Section 5.1. The Service State field should display in-service/on-hook or in-service/active.

status station 10201				Page	1 of	7
	GENERA	AL STATU	JS			
Administered Type:	7434ND		Service State:	in-service/or	n-hook	
Connected Type:	N/A	TCP	Signal Status:	connected		
Extension:	10201					
Port:	S00099	Parar	meter Download:	not-applicabl	le	
Call Parked?	no		SAC Activated?	no		
Ring Cut Off Act?	no					
Active Coverage Option:	1	one-X	Server Status:	N/A		
EC500 Status:	N/A (Off-PBX	Service State:	N/A		
Message Waiting:						
Connected Ports:						
Limit Incoming Calls?	no					
-						
User Cntrl Restr: none			HOSPITALIT	Y STATUS		
Group Cntrl Restr: none			Awaken at:			
			User DND: not	t activated		
			Group DND: not	t activated		
		I	Room Status: oc	cupied		

8.2. Verify Voice Portal

From the VPMS web interface, click **System Management > MPP Manager**. On the MPP Manager page, verify that the MPP server is **Online** and **Running**.



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8.3. Verify InteractCRM CallBackConnect

Place a call to the Voice Portal hunt group extension to verify that a callback can be scheduled using the CallBackConnect voice application. Verify that the callback is received at the desired time and phone number.

9. Conclusion

These Application Notes describe the configuration steps required for InteractCRM CallBackConnect to interoperate with Avaya Aura® Communication Manager 6.0 and Avaya Voice Portal 5.1. All feature and serviceability test cases were completed successfully.

10. Additional References

This section references the Avaya and InteractCRM documentations that are relevant to these Application Notes.

The following Avaya product documentations can be found at <u>http://support.avaya.com</u>.

[1] Administering Avaya Aura[™] Communication Manager, Release 6.0, Document No. 03-300509, August 2010.

[2] Avaya AuraTM Communication Manager Feature Description and Implementation, Release 6.0, Issue 8.0, June 2010, Document No. 555-245-205.

[3] Administering Avaya AuraTM Call Center Features, Release 6.0, November 2010.

[4] Programming Call Vectors in Avaya Aura[™] Call Center, Release 6.0, June 2010.

[5] Avaya Aura[™] Call Center Feature Reference, Release 6.0, November 2010.

The following product documentations are available from InteractCRM.

[6] InteractCRM CallBackConnect Installation Guide, Release 1.3, September 2010.

[7] InteractCRM CallBackConnect Administrator Manual, Release 1.3, September 2010.

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