

Avaya Solution & Interoperability Test Lab

Application Notes for Empix evolve Connect2 Server with Avaya IP Office – Issue 1.0

Abstract

These Application Notes describe the compliance testing of Empix evolve Connect2 Server with Avaya IP Office. Empix evolve Connect2 Server is a mobility enhancement program which provides the users of local IP Office extensions with the means to use their mobile handsets to make and receive calls via IP Office.

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.

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1. Introduction

The Empix evolve Connect2 Server is a member of the xtension **evolve** program suite. Empix evolve Connect2 Server can be used alone, or together with the other xtension **evolve** components. Empix evolve Connect2 Server is a PC-resident service which provides mobility service to local IP Office extensions. Empix evolve Connect2 Server provides mobile endpoints which are paired with local IP Office extensions with the following functionality:

- Answer incoming calls which were made to the paired local IP Office extension.
- Hold/retrieve.
- "Call through", allowing mobile endpoints to use existing connections to IP Office to make calls to PSTN endpoints.
- Initiate a second call.
- Switch between calls.
- Transfer a call to a local IP Office endpoint.
- Remotely activate / deactivate Empix evolve Connect2 service.
- Remotely activate / deactivate Do Not Disturb.

1.1. Interoperability Compliance Testing

The following tests were performed as part of the compliance testing.

- Verify the ability to simultaneously signal incoming calls to both the user's local extension and mobile phone, and to answer such calls from either the local extension or mobile phone.
- Verify the ability to do hold/retrieve from mobile phones.
- Verify the ability of a mobile phone to use the IP Office to make a "call through" to a PSTN endpoint.
- Verify the ability of a mobile phone user to establish a second call and switch between calls.
- Verify the ability of a mobile phone user to transfer a call to another endpoint.
- Verify the ability of a mobile phone to activate/deactivate the Empix evolve Connect2 service that phone.
- Verify the ability of a mobile phone to activate/deactivate Do Not Disturb (DND) that phone.
- Verify that calls to mobile phones which have activate DND are routed to the system attendant.
- Verify the ability of Empix evolve Connect2 Server to recover from power failure without manual intervention.
- Verify the ability of Empix evolve Connect2 Server to recover from interruptions to its LAN interface.

1.2. Support

Support is available from Empix at:

Empix evolve srl +39 0733 866 870 support@empixevolve.com http://www.empixevolve.com

2. Reference Configuration

The following diagram illustrates the configuration which was used for testing.



Figure 1: Empix evolve Connect2 Server Configuration

The following table shows the terminal types and extensions assigned to each of the telephone terminals used for these tests.

Endpoint	Ext	Virt	PSTN	Endpoint
		Ext		
А	201	601	+49 69 11111111 201	Avaya 9640
В	202	602	+49 69 11111111 202	Avaya 9640
С	203		+49 69 11111111 203	Avaya 9640
GSM.A			+49 222222222	GSM
GSM.B			+49 3333333333	GSM
Х			+49 4444444	

Table 1: Extensions Used for Testing

3. Equipment and Software Validated

Software Component	Version
Avaya IP Office	6 (8)
Avaya 9600 IP Telephones	S3.110B
MS XP Professional (Evolve Server platform OS)	SP2
Empire avalua Connect? Sorver	XTENSION EVOLVE 3.1
Empla evolve Connect2 Server	BUILD 20100802.013

Table 2: Version Numbers of Equipment and Software

4. Configure IP Office

The configuration and verification operations illustrated in this section were performed using the Avaya IP Office Manager program. When this program is started, a tree structure consisting of icons representing the configurable components of the system is displayed. When one of these icons is selected, the corresponding system component can be configured.



Figure 2: IPO Manager Component Tree

4.1. Licensing

IP Telephones included in the configuration each consume an Avaya IP Endpoint license, as described in reference [2].

Sufficient IP Office **SIP Trunk Channels** license instances are required to cover the maximum number of simultaneous active Empix evolve Connect2 calls which are to be handled by IP Office.

4.2. System

Select the "System" icon shown in **Figure 2** and enter the parameters shown in the following table. Select the tab shown in the "Tab" column to configure the parameters for that tab.

Item	Parameter	Usage
LAN1	IP Address	Specify the IP address to be assigned to IP Office.
	IP Mask	Enter the IP mask to be used by the LAN.
Telephony	Inhibit Off-Switch	Uncheck this box.
	Forward / Transfer	

Table 3: System Configuration Parameters

	IP 500
System LAN1 LAN2 DNS	Voicemail Telephony Directory Services System Events
LAN Settings VoIP Network T	opology SIP Registrar
IP Address	192 - 168 - 150 - 109
IP Mask	255 255 255 0
Primary Trans. IP Address	0 . 0 . 0 . 0
RIP Mode	None
	Enable NAT
Number Of DHCP IP Addresses	200
DHCP Mode	
Server O Client	O Dialin O Disabled Advanced

Figure 3: System Parameters: LAN1

IP 500						
System LAN1 LAN2 DN5	Voicemail Telephony	Directory Services	System Events	SMTP SMDR	Twinning	
Telephony Tones & Music Call L	og					
Analogue Extensions			mpanding Law —			
Default Outside Call Sequence	Normal	× 5	witch			
Default Inside Call Sequence	Ring Type 1	×) OLAW		,	
Default Ring Back Sequence	Ring Type 2	✓) ALAW	ALAW Line		
Dial Delay Time (secs)	5		DSS Status			
Dial Delay Count	0 🗢 🗸 🗸 Auto Hold					
Default No Answer Time (secs)	25 📚 🗹 Dial By Name		Dial By Name			
Hold Timeout (secs)	0 🗢 Show Account Code		de			
Park Timeout (secs)	300 😂					
Ring Delay (secs)	5		Forward/Transfer]		
Call Priority Promotion Time (secs) Disabled	\$				
Default Currency	EUR		Restrict Network Interconnect			
			Drop External Only	y Impromptu Confe	erence	
Automatic Codec Preference	G.711 ALAW 64K	v	visually Differentia	ate External Call		

Figure 4: System Parameters: Telephony

4.3. Extensions

Select the "Extensions" icon shown in **Figure 2** and enter and click "new" to create an extension for each of the telephones A-C shown in **Table 1**. Set the "Base Extension" parameter to the extension to be assigned, and accept the default values for the remaining parameters.

	H323 Extension: 8011 201
Extn VoIP	
Extension Id	8011
Base Extension	201
Caller Display Type	On 💽
Reset Volume After Calls	
Device type	Avaya 9640
Module	0
Port	0
Disable Speakerphone	

Figure 5: Extension Screen

4.4. Create Users

Select the "Users" icon shown in **Figure 2** and click "new" to create a user for each of the telephones A-C shown in **Table 1** using the parameters shown in the following table.

Parameter	Usage
Name	Enter a descriptive name to identify the room.
Extension	Enter the telephone extension to be assigned to the endpoint (which was allocated in Figure 5).

Table 4: User Configuration Parameters

	Extn201: 201	
User Voicemail DND Shor	tCodes Source Numbers Telephony Forwarding Dial In Voice Reco	rding
Name	Extn201	
Password		
Confirm Password		
Full Name		
Extension	201	
Locale		*
Priority	5	*
System Phone Rights	None	*
Profile	Basic User	*

Figure 6: User Screen

4.5. Create SIP Line

This section contains a description of the configuration of the SIP trunk between IP Office and Empix evolve Connect2 Server. Select the "Line" icon shown in **Figure 2**, click "new", and enter the parameters shown in the following table.

Tab	Parameter	Usage	
	ITSP Domain Name	Enter the IP address of the Empix evolve Connect2 Server.	
	ITSP IP Address	Enter the IP address of the Empix evolve Connect2 Server.	
SIP Line	Use Network	Select "None" from the drop-down menu.	
SH Line	Topology Info		
	Send Port	Enter an available port number which matches the port number used for the "Interface" port in Figure 23 .	
	Local URI	Enter "*".	
	Contact	Select "Use Internal Data" from the drop-down menu.	
	Display Name	Select "Use Internal Data" from the drop-down menu.	
	Registration	Select "None" from the drop-down menu.	
	Incoming Group	Enter an available group number. This value must match	
SIP URI	Incoming Oroup	the group number used in Figure 12 and Figure 15.	
	Outgoing Group	Use the same value as was used for "Incoming Group".	
		This value must be sufficient to supply one channel each for	
	Max Calls per Channel	the maximum number of simultaneous Empix evolve	
		Connect2 calls, plus one channel each for the maximum	
		number of simultaneous call diversions or call transfers for	
		Empix evolve Connect2 calls.	
VoIP	DIP Compression Mode Check the "G.711" box, and uncheck the others.		

Table 5: SIP Line Configuration Parameters

1	SI	P Line - Line 18*	
SIP Line SIP URI VOIP	T38 Fax SIP Credentials		
Line Number	18 🗳	Registration Required	
ITSP Domain Name	192.168.150.3	In Service	\checkmark
ITSP IP Address	192 - 168 - 150 - 3	Use Tel URI	
Prefix		Check OOS	
National Prefix	0	Call Routing Method	Request URI 🛛 💉
Country Code			
International Prefix	00		
Send Caller ID	None		
-Network Configurati	ion		
Layer 4 Protocol	UDP 😽	Send Port 5061	\$
Use Network Topolo	igy Info None 😪	Listen Port 5060	\$

Figure 7: SIP Line Configuration Screen

×=====================================		SIP Line - Line 18 📑 🚽	X ✓ < >
SIP Line SIP	URI VOIP	38 Fax SIP Credentials	
Channel 1	Groups 18 18	Via Local URI Contact	Add Remove Edit
Edit Char	nel	<none></none>	OK
Local URI			Cancer
Contact		Use Internal Data	
Display N	ame	Use Internal Data	
Registrat	ion	0: <none></none>	
Incoming	Group	18	
Outgoing	Group	18	
Max Calls	per Channel	3	

Figure 8: SIP: SIP URI Configuration Screen

	IP Line - Line 18	☆ - × < >
SIP Line SIP URI VoIP T38 Fax SIP C	redentials	
Compression Mode Advanced	☑ G.711 ALAW 64K ☑ G.711 ULAW 64K ☑ G.729(a) 8K CS-ACELP ☑ G.723.1 6K3 MP-MLQ	 VoIP Silence Suppression Fax Transport Support Re-invite Supported
Call Initiation Timeout (s)	4	
DTMF Support	RFC2833	

Figure 9: SIP: VoIP Configuration Screen

4.6. Create PRI Line

This section contains a description of the IP Office configuration for use with a PRI interface to the PSTN, which was used for conformance testing. Other types of PSTN trunks can be used as well. Select the "Line" icon shown in **Figure 2**, click "new", and enter the parameters shown in the following table.

Parameter	Usage
Incoming Group ID	Assign the number of an otherwise unused Incoming Group ID.
Prefix	Enter the prefix which is used to initiate a local external call via the PSTN.
National Prefix	Enter the prefix which is used to initiate a national external call via the PSTN.
International Prefix	Enter the prefix which is used to initiate an international external call via the PSTN.
Line SubType	Select "ETSI" from the drop-down list, as required for access to the PSTN in Europe.
Outgoing Group ID	Assign the number as was assigned to the Incoming Group ID.

Table 6: Primary Rate Line Configuration Parameters

	PRI 30 - Line 13			🖻 • 🗙 🗸
PRI Line Short Codes Channel	s			
Line Number	13	Line SubType	ETSI	~
Card	4			
Port	P1			
Telephone Number		TEI	0	
Incoming Group ID	5	Outgoing Group ID	5	
		Number of Channels	30 😂	
Prefix	0	Outgoing Channels	30 😂	
National Prefix	00	Voice Channels	30 😂	
International Prefix	000	Data Channels	30 😂	
CRC Checking				
Clock Quality	Network 🗸 🗸	Line Signalling	CPE	~
Add 'Not end-to-end ISDN' Information Element	Never 🗸			
Send Redirecting Number				
Supports Partial Rerouting				
Force Number Plan to ISDN				
Support Call Tracing				
Active CCBS Support				
Passive CCBS Support				
Cost Per Charging Unit	618			

Figure 10: Primary Rate Line Configuration Screen

4.7. Short Codes

Select the "Short Code" icon shown in **Figure 2** and click "new" to allocate a short code to provide access to the PSTN via the PRI interface, as shown in the following table.

Usage	Parameter	Usage
	Code	Enter 0N ;
	Feature	Select Dial from the drop-down menu.
PSTN Call	Telephone	Enter NSi followed by the telephone number of the PSTN
1 5 11 Cull	Number	connection, then an E .
	Line Group ID	Enter the group number which was assigned to the PSTN
		interface in Figure 10.
	Code	Enter the Empix evolve Connect2 Server routing code
	Couc	configured in Figure 21 , followed by "xx".
Empiy	Feature	Select Dial from the drop-down menu.
evolve		Enter the Empix evolve Connect2 Server routing code
Connect?	Telephone	configured in Figure 21 , followed by "N", followed by
Collicet2	Number	"@ <server ip="">, where <server ip=""> is the IP address of</server></server>
Call		Empix evolve Connect2 Server.
	Line Group ID	Enter the group number which was assigned to the SIP
		interface in Figure 7

Table 7: Shortcode Configuration Parameters

1	0N;: Dial*
Short Code	
Code	ON;
Feature	Dial
Telephone Number	NSi6911111111E
Line Group Id	5 🗸
Locale	Germany (German)
Force Account Code	

Figure 11: PSTN Access Short Code

XXX	Ξ	6xx: Dial
	Short Code	
	Code	6xx
	Feature	Dial
	Telephone Number	6N"@192.168.150.3"
	Line Group Id	18 🗸
	Locale	~
	Force Account Code	

Figure 12: Empix evolve Connect2 Server Access Short Code

4.8. Incoming Call Route

4.8.1. PSTN Incoming Call Routes

For each of the local extensions A and B, select the "Incoming Call Route" icon shown in **Figure 2** and click "new" to create an Incoming Call Route for routing calls from the PSTN for the local extensions. Assign parameters to this call route as shown in the following table. It routes calls from the PSTN to local extensions to Empix evolve Connect2 Server.

Tab	Parameter	Usage	
	Line Group Id	Enter the Group Id of the PRI line, as shown in Figure	
		10.	
Standard		Enter "0" followed by the PSTN number assigned to the	
Stanuaru	Incoming Number	PRI interface, followed by the Empix evolve Connect2	
	Incoming Number	Server routing code configured in Figure 21, followed by	
		the last two digits of the local extension.	
		Enter the Empix evolve Connect2 Server routing code	
Destinations	Destination	configured in Figure 21, followed by the last two digits	
		of the local extension	
Fallback Extension Select the local extension from the drop-down me		Select the local extension from the drop-down menu.	

Table 8: Parameters for Incoming Call Routes

1	0*	
Standard Voice Recording	Destinations	
Bearer Capability	Any Voice 🗸 🗸]
Line Group Id	5 🗸]
Incoming Number	06911111111601]
Incoming Sub Address]
Incoming CLI]
Locale	~	
Priority	1 - Low	
Tag]
Hold Music Source	System Source 🗸 🗸]

Figure 13: Incoming Call Route - Standard Parameters

	1	0	*	🖻 • 🛛 🗸 🗸
,	Standard Voice Recording Destinations			
		TimeProfile	Destination	Fallback Extension
	.0	Default Value	601 🗸	201 Extn201

Figure 14: Incoming Call Route - Destinations Screen

4.8.2. SIP Trunk Incoming Call Route

Select the "Incoming Call Route" icon shown in **Figure 2** and click "new" to create an Incoming Call Route for routing calls from the SIP trunk to local extensions. Assign parameters to this call route as shown in the following table:

Tab	Parameter	Usage
Standard	Line Group Id	Enter the Group Id of the SIP line.
Standard	Incoming Number	Leave this field blank.
Destinations	Destination	Enter ".".

Table 9: Parameters for Incoming Call Routes

××× 	1	B	📸 - 🗙	✓
Standard	Voice Recording	Destinations		
Bearer Ca	pability	Any Voice		*
Line Group	o Id	18		*
Incoming I	Number			
Incoming	5ub Address			
Incoming				
Locale				*
Priority		1 - Low		*
Tag				
Hold Music	: Source	System Source		*

Figure 15: SIP Incoming Call Route - Standard Parameters

	×××	18		📸 • 🗙 • <	>
	Standar	d Voice Recording Desti	nations		
I		TimeProfile	Destination	Fallback Extension	
I	•	Default Value		¥ .	~
l					

Figure 16: SIP Incoming Call Route - Destinations Screen

5. Configure Empix evolve Connect2 Server

The Empix evolve Connect2 Server installation process also installs MySQL and the Apache server. The installation procedure is beyond the scope of this document. However, the installation used for compliance testing was done using the prompted default values.

Empix evolve Connect2 Server uses a Web-based tool for configuration, which can be accessed from the server via <u>http://localhost:20080/login.php</u>. The initial login credentials are for Username "administrator, with Password "1234". These values should be changed subsequently for security reasons.

🖉 xtension evolve v3	3.1 - Windows Internet Explorer	
📀 🗢 🌘 http:/	//localhost:20080/login.php 🖌 🖌 🖢 Live Search	P -
🔶 Favorites 🛛 😦 👻	🍘 xtension evolve 🍅 xtension ev 🗴 🍈 🔹 🗟 🔹 🖶 🔹 Page 🗸	Safety + Tools + 🕡 + 🎽
xtension evolve v3.1 by empix evolve	Advanced search	Search English ¥
		.:: download area
EVOLVE EV	OLVE EVOLVE EVOLVE EVOLVE	
	Login Username: administrator Password: •••• Cogin. Please login xtension evolve v3.1.	~
	Second Intranet	🖓 🕶 🍭 100% 💌 🛒

Figure 17: Xtension evolve Login Screen

5.1. Install Updates

Navigate to "Administrative tools" \rightarrow "Updates". Click the "Check Updates" button to check for new updates, and the "Download & install" button to install needed updates.



Figure 18: Xtension evolve Update Screen

5.2. Install License

Navigate to "Administrative tools" \rightarrow "License" and enter the appropriate identification information. If a permanent license is available enter the license code into the "Serial Number" field and click the "Activate" button. If no license is available, a thirty-day trial license can be obtained without charge by clicking the "Request try'n buy" button.

xtension evolve v3.1 by empix evolve			Adv	anced search		Search English 💌
Contacts Messages		Calls	Fax	Connect2	Agenda	.:: download area
EVOLVE EVOLVE	EV	OLVE		EVOLVE		display: 10 20 50 100
 Personal Folders Contacts Groups of Contacts Messages Calls Faxes Connect2 Agenda Utilities Users and Groups Administrative tools Connect2 Connect2	hide menu	Simple Simple Na Addr Po Co Coun empixevo Lo Se Num	Advanced me: DevConnect ress Kleyerstr 94 stal try: Gemany bde: Gemany crial ber: A	com ? com ?	City: Frankfurt	Province: FR

Figure 19: Xtension evolve License Activation Screen

xtension evolve y	/3.1 evolve			Adva	nced search		Search English 💌
Contacts	Messages		Calls	Fax	Connect2	Agenda	.:: download area
EVOLVE	EVOLVE	EV	OLVE	EVOLVE	EVOLVE		display: 10 20 50 100
Person Image: Color Image: Color	onal Folders Intacts oups of Contacts essages	hide menu	License ⊙ _{Simple}	O Advanced			
E 🏖 Ca E 🏖 Far	lls ves		License	🥠 Client fa	x () Clien	it cti 💧 🌔	Canali ip
	enda			∎15	15	5	8
5 5 ₹\$\$\$\$@ [] {\} @ %3 # \$ \$) @ @ @ }@@@ } ⊞ □	inities ers and Groups inistrative tools Connect2 Ctr Disk Utilities Email Fax iGate License Routing Table Services SIP Providers	3	Nar Addri Co Count empixevo Lo Se Numb	me: DevConnect ess Kleyerstr 94 stal 12345 try: Gemany lve mrowe@avaya.c pin E22X-0FX7-SM6 Warning: you ar You license will A	com	City: Frankfurt ✓ Ok. I license. on 02/09/2010. uest try'n buy ?	Province: FR

Click the "Activate" button to activate the license.

Figure 20: Xtension evolve Try'n Buy License Activation Screen

5.3. Configure Call Routing

Navigate to "Administrative tools" \rightarrow "Routing Table" and enter the parameters shown in the following table.

Parameter	Usage
connect2	Enter the leading digit which is used to route connect calls.
faxserver skypetophone SIP gateway Recorder	If any of these services are used, this field should be set appropriately. If the service is not used, a digit should be entered which does not correspond to any numbers in the IP Office dialing plan, as none of these fields can be left blank.
Digits number	Enter the number of digits to be used for Empix evolve Empix evolve Connect2 Server extensions.

Table 10: Routing Table Configuration Parameters

Contacts	Messages		Calls	Fax	Connect2	Agenda	.:: download area
EVOLVE	EVOLVE	EV	OLVE		EVOLVE	dis	splay: 10 20 50 100
	ntacts ntacts oups of Contacts assages IIs xes nnect2 enda ilities ers and Groups ministrative tools Connect2 Cti Disk Utilities Email Fax iGate License	hide menu	Routing Simple Calls Ham Select ca Use Gnu System p Skypete co fax SIP g Re Digits nu	Table Advanced Advanced Advanced Advanced Advanced Control			

Figure 21: Xtension evolve Routing Table

5.4. Configure System Parameters

Navigate to "Administrative tools" \rightarrow "Connect2" and enter the parameters shown in the following table.

Parameter	Usage
Country code	Enter the country dialing code preceded by a "+" character.
Operator	Enter the number of the extension to which calls are to be routed if a user is unable to answer.

Table 11: Empix evolve Connect2 Server Configuration Parameters

xtension evolve v by empix	/3.1 evolve			Adva	inced search		Search English 💌
Contacts	Messages		Calls	Fax	Connect2	Agenda	.:: download area
EVOLVE	EVOLVE	EV	OLVE	EVOLVE	EVOLVE	dis	play: 10 20 50 100
Person Person	onal Folders outs of Contacts essages alls ess onnect2 eenda ilities eers and Groups ministrative tools Connect2 Cti Disk Utilities Email	hide menu	Connec System p	tt2 configurat arameters Number fi	tion or outside calls: Country code: Dialtone wave: old music wave: Sreetings wave: Help wave: Help wave: Autoreject: Save Conf	0 +49 xts/c2/dialtone.wav xts/c2/holdmusic.wav xts/c2/greeting.wav xts/c2/help.wav 203 on off on off	

Figure 22: Empix evolve Connect2 Server Configuration Screen

5.5. Configure iGate

Navigate to "Administrative tools" \rightarrow "iGate" and enter the parameters shown in the following table.

Parameter	Usage
Gateway	Enter the IP address of IP Office, and click the SIP radio button.
Interface	Enter "*:" followed by the port number used to receive SIP messages. This should match the "Send Port" value configured for Figure 7 .

Table 12: iGate Configuration Parameters

xtension evolve v3.1 by empix evolve		Adv	anced search		Search English 💌
Contacts Messages	Calls	Fax	Connect2	Agenda	.:: download area
EVOLVE	EVOLVE	EVOLVE	EVOLVE		display: 10 20 50 100
 Personal Folders Contacts Groups of Contacts Messages Calls Faxes 	Gateway: 192.168.15	Onfiguration O Advanced 0.109	Н.323	O 51P 💽	
 ■ Connect2 ■ Agenda ■ Utilities ■ Utilities ■ Connect2 ■ Administrative tools Connect2 Cti 	H.323 Local Usi iGate Tosi 0x010 Gatekeep localhost	ername:	Inter *:17 Code 6.71	face: 21 ec: 11-Alaw-64k	
Disk Utilities	Disa Disa SIP Local Usa	ble FastStart: ble H245 during set ername:	up:	Disable H245 Tu face:	unneling:
 Services SIP Providers Skypetophone 	Tos: 0x010 Register:		Code G.7 Regi	oi ec: 11-Alaw-64k ster User:	
Updates			Regi	ster Password:	

Figure 23: iGate Configuration Screen

5.6. Add Users

Navigate to "Users and Groups" \rightarrow "New User", select the "Advanced" radio button, select the "Info" tab, and enter the parameters shown in the following table.

Parameter	Usage
Username / Password	Enter authorization credentials to be used by the user.
Name	Enter the first name of the user.

Table 13: User Info Parameters

Contacts	Messages	Calls	Бан	Connect2	Agenda	.:: download area
EVOLVE		EVOLVE	EVOLVE	EVOLVE	di	isplay: 10 20 50 100
Person ₩ 22 Co	mal Folders ntacts oups of Contacts issages Ils xes nnect2	Pie Pie Pie Pie Info Ph Login	e ③ Advanced ele as contact one numbers Addres Username: Extr201	ses Groups Cti	Fax Connect2 S Password: •••	81P
■ 🖓 Ut ■ 🍣 Ut ■	enda Ilities ers and Groups New User Show Users	Name	Name: Exth201 iddle Name:		Sumame:	

Figure 24: User Info Screen

Select the "Phone numbers" tab, and enter the parameters shown in the following table.

Parameter	Usage
Telephone	Enter the PSTN number of the user's local extension.
Mobile	Enter the user's cell phone number.

Table 14: User Phone Numbers Parameters



Figure 25: User Phone Numbers Screen

Select the "Cti" tab, and enter the parameters shown in the following table.

Parameter	Usage					
Line ID	Select the IP Office device name for the user from the drop-down menu.					
Line numeric id	Enter the user's extension number.					

Table 15: User Cti Parameters



Figure 26: User Cti Screen

Select the "Connect2" tab, and enter the parameters shown in the following table and enter the parameters shown in the following table.

Parameter	neter Usage					
Connect? Number	Enter the virtual extension to be assigned to the user. This must match					
Connect2 Number	the short code created in Figure 12.					
Number or id	Add the user's cell phone number to the list.					
Twin calls	Check this box.					
Destination 1	Enter the user's cell phone number.					
Destination 2	Enter the user's local extension.					
Extension Number	Enter the user's local extension.					

Table 16: Empix evolve Connect2 Server User Parameters

Contacts	Messages	Calls		Fax	Connect2	Agend	ª .:: download area	
EVOLVE	EVOLVE	EVOLV	E EV		EVOLVE		display: 10 20 50 100	
 Personal Folders Contacts Groups of Contacts Messages Calls Calls Faxes Connect2 Agenda Utilities Utilities Users and Groups New User Show Users New Group Show Groups Mew Groups Calls Trash 		Pige Pige Info Con Cor	Insert new user Simple Advanced Visible as contact Info Phone numbers Addresses Groups Cti Fax Connect2 SIP Connect2 configuration Connect2 Number: 601 Active: ↓ DnD: _ Callback: _					
			iber or ia:	Add	Remove			
Good morning adm today is Thursday there are for you: 0 new messages 0 calls lost 0 new faxes 0 new appointment O new appointment	inistrator, 19/08/2010. s mpix e evo	Ve Des Ext	nsion numb Joing phone tination 1: tination 2: tinsion numb	eri numbers - Tv 0022 201 eri 203	vin calls ♥			

Figure 27: Empix evolve Connect2 Server User Screen

5.7. Start Service

Navigate to "Administrative tools" \rightarrow "Services, check the "connect2" box, and click the "Start xtension evolve service" button.



Figure 28: Services Configuration Screen

6. General Test Approach and Test Results

All tests were performed manually. Only functional testing was performed: no performance testing was done. All tests produced the expected result.

7. Verification Steps

Use the following steps to verify that User Connect2 Server and Avaya IP Office are each configured correctly.

- Click on the "iGate" icon in the Windows shortcut tray in the low right corner of the server display.
- The xtension iGate status screen is displayed.
- Make a call from a PSTN endpoint to a local IP Office extension which is "twinned" to cell phone.
- The call progress can be seen on the screen, as shown below.

xtension iGate									
Calls in pro	gress:	Running	xten		empixevolve.com S.F				
ld	Ch	Calling	Called	Status					
1329	2		201	Alerting					
1328	1		0015	Alerting					
1327	0	601	0069	100					
(c) 2003-2010 Empix Evolve xtension iGate v4.56									

Figure 29: iGate Status Screen

8. Conclusion

These Application Notes describe the compliance testing of Empix evolve Connect2 Server with Avaya IP Office. The various features of Empix evolve Connect2 Server which involve interaction with telephony were tested. A detailed description of the configuration required for both the Avaya IP Office and the Empix evolve Connect2 Server is documented within these Application Notes.

9. Additional References

This section references documentation relevant to these Application Notes. The Avaya product documentation is available at <u>http://support.avaya.com</u>.

- [1] Avaya Office 6.0 Manager 8.0, May 2010, Document Number 15-601011
- [2] Avaya IP Office Release 6 H323 IP Telephone Installation, March 2010, 15-601046
- [3] Installing and configuring xtension evolve, July 2010, ver 2.2

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