

Avaya Solution & Interoperability Test Lab

Application Notes for Empix evolve Connect2 Server v3.1 with Avaya IP Office 7.0 – 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.

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.

2. General Test Approach and Test Results

All tests were performed manually. Only functional testing was performed: no performance testing was done.

2.1. 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 for that phone.
- Verify the ability of a mobile phone to activate/deactivate Do Not Disturb (DND) for 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.

2.2. Test Results

All tests produced the expected result.

2.3. Support

Support is available from Empix at:

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

3. Reference Configuration

The following Figure 1 illustrates the configuration which was used for testing.



Figure 1: Empix evolve Connect2 Server Lab Configuration

4. Equipment and Software Validated

Software Component	Version
Avaya IP Office	7.0
Avaya CS1000	7.5
Avaya Aura® Session Manager	6.1
Avaya IP Clients	0625C8A
Avaya H323 Clients	6.1(S9608_11HALBR6_1r28_V4r52)
Evolve Server platform OS	Microsoft Windows XP SP3
Empix evolve Connect2 Server	XTENSION EVOLVE 3.1 BUILD 20100802.013

Table 1: Version Numbers of Equipment and Software

5. 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 as shown in **Figure 2**. When one of these icons is selected, the corresponding system component can be configured.



Figure 2: IPO Manager Component Tree

This section explains the configuration of the following components of IP Office that is required for the compliance testing:

- Licensing.
- System Configuration.
- Extension Configuration.
- User Configuration.
- Line Configuration.
- Short Code Configuration.
- Incoming Call Route Configuration.

5.1. Licensing

IP Telephones included in the configuration each consume an Avaya IP Endpoint licenses. For complete information on Licensing refer to documents referred in Section 9[1].

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. Note that each mobile call requires two concurrent SIP channels active.

5.2. System Configuration

Select the **System** icon shown in **Figure 2** and enter the parameters shown in the **Table 1**. Select the tab(s) shown in the "Item" column to configure the parameters for that tab. Refer to **Figures 3** and **4**.

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

Table 1: System Configuration Parameters

12	00E007060E91*
System LAN1 LAN2 DNS	Voicemail Telephony Directory Services System Events
IP Address	192 168 150 109
IP Mask	255 · 255 · 255 · 0
Primary Trans. IP Address	0 · 0 · 0 · 0
RIP Mode	RIP 2 Broadcast (RIP 1 Compatibil 💙
	Enable NAT
Number Of DHCP IP Addresses	: 1
DHCP Mode	
Server O Client O D	Dialin 💿 Disabled Advanced

Figure 3: System Parameters: LAN1

2	00E007060E91*			$\cong \neg \times \checkmark$
System LAN1 LAN2 DNS V	oicemái Telephony Directory Services	System Events	SMTP SMD	R Twinning VCM CCR
Telephony Jones & Music Call Lo	g			
Analogue Extensions			anding Law —	
Default Outside Call Sequence	Normal	Swite	:h	Line
Default Inside Call Sequence	Ring Type 1 🛛 👻	💿 U	LAW	OLAW Line
Default Ring Back Sequence	Ring Type 2		LAW	O ALAW Line
Restrict Analogue Extension Ringe	er Voltage 📃			
Dial Delay Time (secs)	4	DSS	Status	
Dial Delay Count	0	📃 Auto	o Hold	
Default No Answer Time (secs)	15 🗢	🗹 Dial	By Name	
Hold Timeout (secs)	15 🗘	🗹 Shov	w Account Coc	le
Park Timeout (secs)	180 😂	📃 Inhil	bit Off-Switch I	Forward/Transfer
Ring Delay (secs)	5 🗘	Rest	trict Network I	nterconnect
Call Priority Promotion Time (secs)	Disabled 🗘	📃 Drop	o External Only	/ Impromptu Conference
Default Currency	USD	📃 Visu	ally Differentia	te External Call
Automatic Codec Preference	G.711 ULAW 64K 🛛 👻			

Figure 4: System Parameters: Telephony

5.3. Extension Configuration

To add a new extension, right-click the **Extension** icon shown in **Figure 2** and select **New H.323 Extension** (not shown). Set the **Base Extension** parameter to the extension to be assigned, and accept the default values for the remaining parameters as shown in **Figure 5** below. Repeat for any number of extensions that will be required.

	H323 Extension: 8004 28004
Extn VoIP	
Extension Id	8004
Base Extension	28004
Caller Display Type	On 💉
Reset Volume After Calls	
Device type	Avaya 9608
Module	0
Port	0
Disable Speakerphone	

Figure 5: Extension Screen

5.4. User Configuration

Right-click the User icon shown in Figure 2 and select New (not shown) to create a user for each of the extension created using the parameters shown in the Table 2. Refer to Figure 6.

Item	Parameter	Usage	
	Nama	Enter a descriptive name to identify the	
	ivanic	user.	
	Password	Enter a password.	
User	Confirm Password	Confirm the password entered above.	
	Full Name	Enter a descriptive name to identify the	
	Full Name	Usage Enter a descriptive name to identify the user. Enter a password. Confirm the password entered above. Enter a descriptive name to identify the user. Enter the telephone extension to be assigned to the endpoint (which was allocated in Figure 5).	
		Enter the telephone extension to be	
	Extension	assigned to the endpoint (which was	
		allocated in Figure 5).	

Table 2: User Configuration Parameters

×××	Extn28004 9608: 28004				
Use	Voicemail DND Sho	ortCodes Source Numbers Telephony Forwarding Dial In Voice Recor	ding		
Na	ame	Extn28004 9608	Extn28004 9608		
Pa	issword	****			
Co	onfirm Password	****			
Fu	II Name	Extn 28004 IPO			
E×	tension	28004			
Lo	cale		*		
Pri	iority	5			
Sy	stem Phone Rights	None			
Pr	ofile	Basic User	*		

Figure 6: User Screen

5.5. Line Configuration

This section contains a description of the IP Office configuration for use with a SIP interface to the PSTN, which was used for conformance testing. Other types of PSTN trunks can be used as well. Right click the Line icon shown in Figure 2, select SIP Line (not shown) to be configured, and enter the parameters shown in Table 3. Refer to Figures 7, 8 and 9.

Item	Parameter	Usage	
	Line Number	Assign an available Line from the drop down box.	
SIP Line	ITSP Domain Name	Enter the relevant domain name configured in Session	
		Manager	
Transport	ITSP Proxy	Enter the IP Address of the Session Manager.	
Transport	Address		
	Local URI	Select "Use Internal Data" option from the drop down list.	
	Contact	Select "Use Internal Data" option from the drop down list.	
	Display Name	Select "Use Internal Data" option from the drop down list.	
SIP UKI	Registration	Select "0: <none>" option from the drop down list.</none>	
	Incoming Group	Enter the line number assigned.	
	Outgoing Group	Enter the line number assigned.	

Table 3: SIP Line Configuration Parameters

XXX		SIP Line	- Line 17			- *
SIP Line Pransport SI	P URI VOIP T3	8 Fax SIP Credentials				
Line Number	17 🜲					
ITSP Domain Name	bvwdev.com		In Service		~	
			Use Tel URI			
Prefix			Check OOS			
National Prefix	0		Call Routing	Method	Request URI	*
Country Code			Originator n forwarded a	umber for nd twinning calls		
International Prefix	00					
Send Caller ID	None	~				
Association Method	By Source IP ad	dress		~		
REFER Support						
Incoming		Auto	~			
Outgoing		Auto	~			

Figure 7: Line Configuration: SIP Line

SIP Line - Line 17*	r 1
SIP Line Transpord SIP URI VoIP T38 Fax SIP Credentials	
ITSP Proxy Address 10.10.10.1	
Network Configuration	
Layer 4 Protocol TCP Send Port 5060	
Use Network Topology Info None 🔽 Listen Port 5060	
Explicit DNS Server(s) 2 0 0 0 0 0 0	
Calls Route via Registrar 📃	
Separate Registrar	

Figure 8: Line Configuration: Transport

12	SIP Line - Line 17*
SIP Line Transport SIP UP	NOIP T38 Fax SIP Credentials
Channel Groups 1 17 17	Via Local URI Contact Display Name PAI Credential Max Calls < N 0: <non< td=""> 10</non<>
Edit Channel	<none></none>
Local URI	Use Internal Data
Contact	Use Internal Data
Display Name	Use Internal Data
PAI	None
Registration	0: <none></none>
Incoming Group	17
Outgoing Group	17
Max Calls per Channel	10 🗢

Figure 9: Line Configuration: SIP URI

This section also contains a description of the configuration of the SIP trunk between IP Office and Empix evolve Connect2 Server. Right click the Line icon shown in Figure 2, select SIP Line (not shown) to be configured, and enter the parameters shown in Table 4. Refer to Figures 10, 11, 12 and 13.

Item	Parameter	Usage
SIP Line	Line Number	Assign an available Line from the drop down box.
	ITSP Domain Name	Enter the IP address of the Empix evolve Connect2 Server.
Transport	ITSP Proxy Address	Enter the IP address of the Empix evolve Connect2 Server.
	Send Port	Enter the port number to communicate with the Empix evolve Connect2 Server.
	Local URI	Enter "*".
	Contact	Select "Use Internal Data" from the drop-down menu.
	Display Name	Select "Use Internal Data" from the drop-down menu.
SIP UKI	Registration	Select "None" from the drop-down menu.
	Incoming Group	Enter the line number assigned.
	Outgoing Group	Enter the line number assigned.
VoIP	Compression Mode	Check the "G.711 ALAW" box, and uncheck the others.

Table 4: SIP Line Configuration Parameters

1	SIP Line -	Line 18*		d -
SIP Line Transport SI	P URI VoIP T38 Fax SIP Credentials			
Line Number	18			
ITSP Domain Name	192.168.150.3	In Service		
		Use Tel URI		
Prefix		Check OOS		
National Prefix	0	Call Routing Method	Request URI	*
Country Code		Originator number for forwarded and twinning calls		
International Prefix	00			
Send Caller ID	None			
Association Method	By Source IP address	~		

Figure 10: SIP Line Configuration Screen

SIP Line - Line 18*	– *			
SIP Line Transport SIP URI VoIP T38 Fax SIP Credentials				
ITSP Proxy Address 192.168.150.3				
Network Configuration	_			
Layer 4 Protocol UDP Send Port 5061				
Use Network Topology Info None V Listen Port 5060				
Explicit DNS Server(s) 0 0 0 0 0 0 0 0				
Calls Route via Registrar 🔽				

Figure 11: Line Configuration: Transport

1	SIP Line - Line 18*			
SIP Line Transport SIP UR	SIP Line Transport SIP URI VoIP T38 Fax SIP Credentials			
Channel Groups	Channel Groups Via Local URI Contact Display Name PAI Credential Max Calls 1 18 18 * N 0: 0: 0			tial Max Calls
Edit Channel				
Via	<none></none>			
Local URI	*	*		
Contact	Use Internal Data	*		
Display Name	Use Internal Data	~		
PAI	None	*		
Registration	0: <none></none>			
Incoming Group	18			
Outgoing Group	18			
Max Calls per Channel	10			

Figure 12: SIP: SIP URI Configuration Screen

2	SIP Line - Line 18*	📥 - 🗙	
SIP Line Transport SIP UR	SIP Line Transport SIP URE VOIP T38 Fax SIP Credentials		
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 Re-invite Supported Use Offerer's Preferred Codec	
Fax Transport Support	T38		
Call Initiation Timeout (s)	4		
DTMF Support	RFC2833	¥	

Figure 13: SIP: VoIP Configuration Screen

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5.6. Short Codes

Right-click the **Short Code** icon shown in **Figure 2** and click **New** (not shown) to allocate a short code to provide access to the PSTN via the SIP interface, using parameters as shown in **Table 5**. Refer to **Figure 14**.

Item	Parameter	Usage
	Code	Enter 54xxx; Since DN of client on Avaya CS1000 used
		during compliance testing is 54000.
Short Code	Telephone	Enter 54N"@10.10.10.1" where 10.10.10.1 is the IP address
	Number	of Session Manager.
	Line Group ID	Enter the line number which was assigned to the PSTN
		interface in Figure 7 .

Table 5: Shortcode Configuration Parameters: PSTN

XXX	₹	54xxx: Dial*	
5	Short Code		
	Code	54xxx	
	Feature	Dial 💌	
	Telephone Number	54N"@10.10.10.1"	
	Line Group Id	17 💌	
	Locale	▼	
	Force Account Code		

Figure 14: PSTN Access Short Code

Right-click the **Short Code** icon shown in **Figure 2** and click **New** (not shown) to allocate a short code to provide access to the Empix evolve Connect2 Server via the SIP interface, using parameters as shown in **Table 6**. Refer to **Figure 15**.

Item	Parameter	Usage
	Code	Enter 66N; Since DN assigned on Empix evolve Connect2
		Server used during compliance testing is 66xxx.
Short Codo	Telephone	Enter 66N"@192.168.150.3" where 192.168.150.3 is the IP
Short Code	Number	address of the Empix evolve Connect2 Server.
	Line Group ID	Enter the line number which was assigned to the interface in
		Figure 10.

Table 6: Shortcode Configuration Parameters: Empix evolve Connect2 Server

1		
Short Code		
Code	66N;	
Feature	Dial	
Telephone Number	66N"@192.168.150.3"	
Line Group Id	18 🗸	
Locale		
Force Account Code		

Figure 15: Empix evolve Connect2 Server Access Short Code

5.7. Incoming Call Route

PSTN Incoming Call Routes

Right-click the **Incoming Call Route** icon shown in **Figure 2** and click **New** (not shown) to create an Incoming Call Route for routing calls from the PSTN to local extensions. Assign parameters to this call route as shown in **Table 7**. Refer to **Figures 16** and **17**.

Item	Parameter	Usage
Standard	Line Group Id	Enter the Group Id of the SIP line, as shown in Figure 7 .
Destinations	Destination	Configure the local extension of the called party number by entering a value of ".".

Table 7: Parameters for Incoming Call Routes

××××	17	
Standard Voice Recording	Destinations	
Bearer Capability	Any Voice	*
Line Group Id	17	*
Incoming Number		
Incoming Sub Address		
Incoming CLI		
Locale		~
Priority	1 - Low	*
Tag		
Hold Music Source	System Source	~

Figure 16: Incoming Call Route - Standard Parameters

×====		17	🖻 - X V	′ < >
Standard	d Voice Recording Destinations	>		
	TimeProfile	Destination	Fallback Extension	
•	Default Value	\frown	×	~

Figure 17: Incoming Call Route - Destinations Screen

SIP Trunk Incoming Call Route

Right-click the **Incoming Call Route** icon shown in **Figure 2** and click **New** (not shown) to create an Incoming Call Route for the SIP trunk to local extensions. Assign parameters to this call route as shown in **Table 8**. Refer to **Figures 18** and **19**.

Tab	Parameter	Usage
Standard	Line Group Id	Enter the Group Id of the SIP line, as shown in Figure 10 .
Destinations	Destination	Enter ".".

Ξ 18 Standard Voice Recording Destinations Any Voice Bearer Capability Line Group Id 18 Incoming Number Incoming Sub Address Incoming CLI Locale ¥ Priority 1 - Low ¥ Tag Hold Music Source ¥ System Source

Table 8: Parameters for Incoming Call Routes

Figure 18: SIP Incoming Call Route - Standard Parameters

Ĩ		18		📸 • 🗙 🗸 < >	
Standard Voice Recording Destinations					
	TimeProfile	Destination	_	Fallback Extension	
•	Default Value		*	~	
]	

Figure 19: SIP Incoming Call Route - Destinations Screen

6. 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. Refer to **Section 9[2]** for further information on complete installation and configurations of the Empix evolve Connect2 Server.

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>. Log in using the initial login credentials as shown in **Figure 20** below.

Extension evolve v	3.1 - Windows Internet Explorer	
🔆 🔁 🗢 🍊 http:	://localhost:20080/login.php 🛛 🖌 🗙	Live Search
🔶 Favorites 🛛 😦 🗸	🌈 xtension evolve 🍅 xtension ev 🗴 🚺 🔹	🔊 🕆 🖃 🖶 🔻 Page 🗸 Safety 🕶 Tools 🕶 🔞 👻
		<u>~</u>
xtension evolve v3.1 by empix evolve	Advanced se	arch Search English 💌
		.:: download area
EVOLVE	TOLVE EVOLVE EVOLVE EVO	OLVE
	Login Username: administrator Password: ••••	
	Please login xtension evolve v3.1.	
		×
		🥶 😼 Local intranet 🦓 👻 🔍 100% 👻 🛒

Figure 20: Empix evolve Connect2 Server Login Screen

This section explains the configuration of the following components of Empix evolve Connect2 Server that is required for the compliance testing:

- Installing Updates.
- Installing License.
- Configure Routing Table.
- Configure System Parameters.
- Configure iGate.
- Adding Users.
- Starting Service.

6.1. Install Updates

Navigate to Administrative tools > Updates. Click the Check Updates button to check for new updates, and the Download & install button to install needed updates as shown in Figure 21 below.



Figure 21: Empix evolve Connect2 Server Update Screen

6.2. Install License

Navigate to Administrative tools > License and enter all 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. Refer to Figure 22 below.

xtension evolve v3.1 by empix evolve		Adva	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 Connect2 Agenda Utilities Utilities Users and Groups Connect2 Connect2 Connect2 Connect2 Connect2 Email Fax Gate License Routing Table 	License Simple Na Addr Po Coun empixevo Locan	Advanced me: DevConnect ess	com	Dity:	Province:

Figure 22: License Activation Screen

6.3. Configure Routing Table

Navigate to Administrative tools > Routing Table (not shown) and enter the parameters shown in the following table. Refer to Figure 23 below.

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

Table 9: Routing Table Configuration Parameters

vtension_ evolve vé	2.1			Advan	ced search		Search
Contacts	Messages		Calls	Fax	Connect2	Agenda	.:: download area
EVOLVE	EVOLVE	EV	OLVE		EVOLVE	Journal 📃	display: 10 20 50 100
Personal Folde Contacts Groups of C Groups of C Group	and a constants	hide menu	Routing Simple Calls Har Select ca Use Gnu System (System (co. fax SIP gi Re Digits nu	C Advanced Advanced Ils handler GK to handle calls prefix phone 56 nnect2 66 server 76 ecorder 8 umber: 5			
Service	s		Address	PABX:			

Figure 23: Xtension evolve Routing Table

6.4. Configure System Parameters

Navigate to Administrative tools > Connect2 and enter the parameters shown in Table 10. Refer to Figure 24 below.

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
Operator	is unable to answer.

Table 10: Empix evolve Connect2 Server Configuration Parameters



Figure 24: Empix evolve Connect2 Server Configuration Screen

6.5. Configure iGate

Navigate to Administrative tools > iGate and enter the parameters as shown in Table 11. Refer to Figure 25.

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 11 .

xtension evolve v3.1 by empix evolve English 🔽 Advanced search Search Messages Calls Connect2 Agenda Contacts .:: download area display: 10 | 20 | 50 | 100 Personal Folders iGate Configuration hide menu 🗄 😂 Contacts O Simple 💿 Advanced H 🖉 Groups of Contacts H 😓 Messages Gateway: H 😂 Calls н.323 🔘 SIP 💽 192.168.150.109 🗄 🍓 🛛 Faxes 🗄 😂 Connect2 🗄 🍣 🛛 Agenda H.323 🗉 😂 🛛 Utilities Local Username: Interface: *:1721 iGate 🗉 省 Us<u>ers and Group</u>s Codec: Tos: 🗆 🔏 Administrative tools 0x010 G.711-Alaw-64k Connect2 Gatekeeper: 🗢 Cti localhost 📃 Disk Utilities 🗭 Email Disable FastStart: Disable H245 Tunneling: 5 - Ган-Disable H245 during setup: 8 iGate SIP 2 License Local Username: Interface: 3 Routing Table *:5061 iGate Services Tos: Codec: 1 SIP Providers G.711-Alaw-64k 0x010 S Skypetophone Register: Register User: 🞯 Updates 👅 Trash Register Password:

Table 2: iGate Configuration Parameters

Figure 8: iGate Configuration Screen

6.6. Add Users

Perform the procedures described in this section for each of the client endpoints that were created in Section 5.4. Navigate to Users and Groups > New User, select the Simple radio button and enter the parameters shown in Table 13. Refer to Figure 24.

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	Fax	Connect2	Agenda	.:: download area
EVOLVE	EVOLVE	EVOLVE		EVOLVE	Journal 📃 🛛 d	lisplay: 10 20 50 100
Personal Folde	entacts	and and a simple simpl	New User) Advanced as contact			
E Calls Faxes Connect2			Jsername: Extr280	04	Password: 🐽	
🖿 🗨 Agenda 🗄 🚱 Utilities		Persona	Informations			
Services	Broups		Name: Extn280	004	Surname:	
New Us	er		Company:		Email address	
Mew Gro	que	Phone n	umbers			
Administrat	roups ive tools		Office fax:		Mobile:	

Figure 24: User Info Screen

Under the **Phone numbers** section, enter the **Mobile** number of the user. During compliance testing a DN **54002** on the Avaya CS1000 was emulated for a mobile phone. Refer to **Figure 25** below.

* *	🗲 xtension evolve v3.1		🐴 🔹 🔊 🖶 🔹 🔂 Page 🕶 🍈 T <u>o</u> ols 🔹 🂙
	Show Users New Group Show Groups Control Control Control Control Control Control Control Control Cont	Phone numbers Telephone: Office fax:	Mobile: 54002

Figure 9: User Phone Numbers Screen

Under the Cti section enter the parameters as shown in Table 14. Refer to Figure 26.

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 14: User Cti Parameters

Cti Line id IP Office Phone: 28004 Line numeric id 28004
Area

Figure 26: User Cti Screen

Note here that if Presence Server application is not installed on the system then the Line ID drop down is not provided. User then just needs to populate the Line numeric id field. During compliance testing Presence Server application was installed and therefore the Line id drop down option is seen as shown in Figure 26 above.

Under the **Connect2 configuration** section, enter the parameters shown in **Table 16**. Refer to **Figure 27**.

Parameter	Usage	
Connect? Number	Enter the virtual extension to be assigned to the user. This must	
Connect2 Number	match the short code created in Figure 15.	
Number or id	Add the user's mobile phone number to the list.	
Twin calls	Check this box.	
Destination 1	on 1 Enter the user's mobile phone number.	
Destination 2	Enter the user's local extension.	
Extension Number	Enter the user's local extension.	

Table 3: Empix evolve Connect2 Server User Parameters

🚖 🏟	律 xtension evolve v3.1	🟠 • 🗟 • 🖶 Page • 🄇
**	<pre>xtension evolve v3.1 xtension evolve v</pre>	
	Good morning administrator, today is Wednesday 10/08/2011, there are for you: 0 new messages 0 calls lost 0 new faxes 0 new appointments 0 new appointments	Extension number: 28004 Destination 1: 54002 Destination 2: 28004 Extension number: 28004

Figure 27: User Connect2 Configuration Screen

6.7. Start Service

Navigate to Administrative tools > Services, check the connect2 box, and click the Start xtension evolve service button as shown in Figure 28 below.



Figure 10: Services Configuration Screen

7. Verification Steps

Use the following steps to verify that evolve 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 (not shown).
- The xtension iGate status screen is displayed (not shown).
- 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 iGate screen (not shown).

8. Conclusion

All of the executed test cases have passed and met the objectives outlined in **Section 2**. The Empix evolve Connect2 Server application is considered compliant with Avaya IP Office Release 7.0.

9. Additional References

[1] Product documentation for Avaya products may be found at: <u>https://support.avaya.com/css/Products/</u>

[2] Product documentation for Empix evolve Connect2 Server may be found at: <u>http://www.empixevolve.com/downloads/</u>

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