

# **Generating Traffic for VolP Testing**

Goal: Set up and run VoIP traffic.

In this example, LANforge-FIRE is used to set up two VoIP test calls that may be used as a basis for VoIP load testing or VoIP Gateway testing.

- Test 1: Directed VoIP call where a LANforge endpoint calls another LANforge endpoint.
- Test 2: Gateway VoIP call where two LANforge endpoints register with a VoIP Gateway so that the call from one endpoint to the other goes through the gateway. The VoIP Gateway used in this example is Asterisk.

This cookbook does not cover FXS/FXO ports (analog RJ11 lines). It is possible that those setup require special commercial gateway features.

## Set up the LANforge physical connections

The same two ports are used for both tests. Connect eth1 and eth2 from the LANforge-FIRE system to a network switch that is also connected to the VoIP Gateway. This example assumes that your VoIP Gateway is set up properly. If you need assistance, you can contact us at support@candelatech.com.

#### 2.

1.

## Configure LANforge ports

Ports require valid IP addresses and IP masks.

A. Go to the Port Manager

0					LAN	orge M	anager Ve	rsion(5.3.	6)				$\odot$ $\otimes$ $\times$
<u>C</u> ontrol	Repor	ting	<u>[</u> ear-Off <u>I</u> nfo <u>P</u> lu	gins									
					3		Stop	All	Restart	Manager		Refresh	HELP
Layer-4	Ger	neric	Test Mgr Test	Grou	Resou	rce Mgr	Event Log	Alerts	Port Mgr	vAP Statio	ons Messag	es	
Status	5	Layer-	3 L3 Endps	1	VoIP/RTP	Vo	DIP/RTP Endps	Arma	ageddon	WanL	inks Att	enuators	File-IO
	Disp:	192.1	68.100.239:0	s	niff Packet	s	1 Clea	r Counters	Reset	Port	Delete		
	Rpt Tir	ner: 🗖	edium (8 s) 🔻		Apply		Ţ∏Ţie	w Details	Crea	ate	Mo <u>d</u> ify	<u>B</u> atch Modif	ý l
			1		All Et	hernet I	nterfaces (Por	ts) for all Re	esources				
Port	Pha	Down	IP	SEC	Alias	Parent Dev	RX Bytes	RX Pkts	Pps RX	bps RX	TX Bytes	TX Pkts	Pps TX
1.1.0			192.168.100.103	0	eth0		2,932,930	26,466	5	4,888	14,454,099	18,373	2
1.1.1			0.0.0.0	0	ethl		342	1	0	0	0	0	0
1.1.2			0.0.0.0	0	eth2		5,194,004,	3,431,073	1	1,043	5,194,040,	3,430,775	0
1.1.3			0.0.0.0	0	eth3		5,194,253,	3,432,951	3	3,460	5,193,974,	3,430,725	0
1.1.4			0.0.0.0	0	eth4		350	5	0	0	0	0	0
1.1.5			0.0.0.0	U	erus		0	0	0	0	350	5	
Logged	in to:	192.1	58.100.103:4002	as: A	dmin								

B. Modify eth2 and eth3 to set a valid network IP address and mask

	Current: LINK-	UP 1000bt-FD AUTO-	NEGOTIATE TSO GS	ormation O GRO		ß	
	Driver Info: Port	Type: Ethernet Drive	er: igb(5.4.0-k) Bu	s: 0000:0a:00.0	Cur: 2.5	GT/s xl Max: 2.5GT/s xl	
			Port Configur	ables			
Enable		General In	terface Settings		1	Port Rates	Advert Rates-
Set IF Down Set MAC	Down	Aux-Mgt				○ 10bt-HD ○ 10bt-FD ○ 100bt-HD	✓ 10bt-HD ✓ 10bt-FD
Set TX Q Len	DHCP-IPv6	DHCP Release	DHCP Vendor ID:	None	-	O 100bt-FD	☑ 100bt-HD
Set MTU	DHCP-IPv4	Secondary-IPs	DHCP Client ID:	None	-	0 10G-FD	🗹 100bt-FD
Set Offload	DNS Servers:	BLANK	Peer IP:	NA		Autonegotiate	1000-FD
Set Rate Info	IP Address:	0.0.0.0	Global IPv6:	AUTO			10G-FD
Set PROMISC	IP Mask:	0.0.0.0	Link IPv6:	AUTO		Renegotiate	40G-FD
Set Rx-All/FCS	Gateway IP:	0.0.0.0	IPv6 GW:	AUTO		Restart Xcvr	Flow-Contro
Set Bypass	Alias:		MTU:	1500			Offload -
Set Bridge Info	MAC Addr:	00:30:18:cc:5b:d2	TX Q Len	1000		RX-ALL	TSO Enable
Set CPU Mask	Br Cost:	Ignore 💌	Priority:	Ignore	-	RX-FCS	UFO Enable
	Rpt Timer:	medium (8 s) 🔻	Watchdog:	0	-	Development P	GS0 Enable
FTP	CPU Mask:	NO-SET	WiFi Bridge:	NONE	-	Bypass Power-DOWN	LRO Enabled
RADIUS			]			Bypass Disconnect	GRO Enable

- A. If your network has DHCP service, you can select the 'DHCP-IPv4' checkbox so that each port is a DHCP client and will acquire its IP address from your DHCP server
- C. Verify the port configuration

0						LAN	orge M	anager Ve	rsion(5.3.	6)				$\odot$ $\otimes$ $\otimes$
<u>C</u> ontrol	Report	ting ]	ear-Off	Info <u>P</u> lu	gins	N				-				
						13		Stop	D All	Restart	Manager		Refresh	HELP
Layer-4	Gen	eric	Test N	Igr Test	Group	Resou	rce Mgr	Event Log	Alerts	Port Mgr	vAP Stati	ons Messag	jes	
Status	5	Layer-	3	L3 Endps		/oIP/RTP	V	DIP/RTP Endps	Arma	ageddon	WanL	inks Att	enuators	File-IO
	Disp:	192.1	58.1 <b>00</b> .	239:0	S	niff Packet	s	1 Clea	r Counters	Reset	Port	Delete		
	Rpt Tir	mer: m	edium	(8 s) 🔻		Apply		Į∐⊻ie	w Details	Crea	ate	Mo <u>d</u> ify	Batch Modif	ý
						All Et	nernet I	nterfaces (Por	ts) for all Re	esources				
Port	Pha	Down		IP	SEC	Alias	Parent Dev	RX Bytes	RX Pkts	Pps RX	bps RX	TX Bytes	TX Pkts	Pps TX
1.1.0			192.16	8.100.103	0	eth0		5,450,880	47,447	6	6,123	33,188,217	36,914	4
1.1.1			0.0.0.0	)	0	ethl		342	1	0	0	70	1	0
1.1.2			192.16	8.100.115	0	eth2		5,195,388,	3,440,390	1	1,315	5,195,028,	3,435,401	0
1.1.3			192.16	88.100.117	0	eth3		5,196,208,	3,447,955	3	2,521	5,194,961,	3,435,347	0
1.1.4		-	0.0.0.0	)	0	etn4		420	0	0	0	420	0	0
1.1.5			0.0.0.0	,	0	euro		0	U	0	U	420	0	0
•														•
Logged	in to:	192.16	58.100.	103:4002	as: A	dmin								

For more information see LANforge User's Guide: Ports (Interfaces)

### Set up Test 1, a Directed VoIP call.

A. Go to the VoIP/RTP tab

LANforge Manager Version(5.3.6)	$\odot$ $\land$ $\times$
Control Reporting Tear-Off Info Plugins	
Stop All Restart Manager Refresh	HELP
Layer-4         Generic         Test Mgr         Test Group         Resource Mgr         Event Log         Alerts         Port Mgr         vAP Stations         Messages           Status         Layer-3         L3 Endps         VolP/RTP         VolP/RTP         Armageddon         WanLinks         Attenuators	File-I0
Rpt Timer: fast (1 s) 🔻 Go Test Manager all 💌 Select All Start Stop Quiesce Clear	
View 0 - 500 View Go Display Create Modify Delete	
Cross Connects for Selected Test Manager	
Name         Type         State         Pkt Tx A → B         Pkt Tx A ← B         Bps Rx B         Bps Rx A         Rx Drop % A         Rx Drop % B         Delay A → B         Del	lay A ← B Jil
	•
Logged in to: 192.168.100.103:4002 as: Admin	

B. Click the Create button:

0			Cr	eate/Modify	Cross C	onn	ect						$\odot$
					Cross Con	nect	Information	n					4
\$	CX Name:	test-1	Rpt Tim	er: fast	(1 s)	-	Test M	anager	defau	t_tm	- C	Х Туре: 🛛 🗸	oice - SIP
	Multi-Call	Oirected	Min Call	l Duration (s)	File	-	Max Ring T	ïme <mark>(</mark> s):	20	i	• c	odec:	6.711u
	Continuous Call	🔾 Use Gateway	Max Cal	ll Duration (s)	File	-	Min Inter-C	all Gap (s	): 3		- s	tart Delay: 3	
		Don't Send RTP	Number	r Of Calls	INFINITE	-	Max Inter-0	Call Gap (	s): 3	·	• Q	uiesce: 4	5 (45 sec)
											_		
					TX Endpo	int (e	endpoint A)					-	
Endp Name:	test-1-A	UnManage	d	Bind SIP	UDP F	ort		AUT	D			Tx File	media/fema
Besource	1 (iv2)	Don't Ansv	ver 🔽	Record	SIP Po	ort		506	D			Destination	n: AUTO
Port:	2 (eth2)	🚽 🗌 Rcv Call		Enable PESQ	IP Tos	i:		Best	Effort	(0)	-	Speaker	/dev/audio
IP Addr:	AUTO	▼ 🗌 No Tunneli	ng 🔲	Play to speak	er Socke	et Pri	ority:	0				Call Gatewa	ay: AUTO
Phone #	AUTO	📃 🗌 No Fast St	art 🔲	VAD	VAD D	elay	(ms)	250				Record File	AUTO
Display Name:	AUTO	📃 🗌 Single Cod	ec 🗌	Override SDP	VAD F	orce	Send	300	0			PESQ Serve	er: 127.0.0.1(3
Auth User Nam Reg Expire:	auro 300				Jitter I	Buffe	er:	8				Quiesce:	45 (45 sec
		;			RX Endpo	int (e	endpoint B)	)					
Endp Name:	test-1-B	UnManage	d 🖌	Bind SIP	UDP F	ort		AUT	D			Tx File	media/fema
Shelf:	1	Don't Ansv	ver 🖌	Record	SIP Po	ort		506	D			Destination	n: AUTO
Port:	3 (eth3)	Rcv Call		Enable PESQ	IP Tos	):		Best	Effort	(0)	-	Speaker	/dev/audio
IP Addr:	AUTO	▼ 🗌 No Tunneli	ng 🔲	Play to speak	er Socke	et Pri	ority:	0				Call Gatewa	ay: AUTO
Phone #	AUTO	No Fast St	art 🔲	VAD	VAD D	elay	(ms)	250				Record File	AUTO
Display Name:	AUTO		ec 🗆	Override SDP	VAD F		Send	300	)		-	PESO Senve	er: 127.0.0.1:1
Auth User Nam	e: AUTO				littor	Puffe	0	8				Quiosco	45 (45 sec
Reg Expire:	300	•			jitter	bulle	si :	<u>°</u>				Quiesce:	43 (43 580
•													•

- A. Enter test-1 in the CX Name field
- B. Select the Multi-Call and Directed buttons
- C. Endpoint A is on port eth2 in this example. If you have a PESQ licensed server available, you can select Record and Enable PESQ.
- D. Endpoint B is on port eth3. If you are using PESQ, be sure to enter a Record File and the IP address and port of your PESQ licensed server. Be sure to select the **Rcv Call** checkbox for this endpoint to receive the call.
- E. Be careful of the VoIP phone number: you might have to format the number as extension@IP-address, E.G.: 5678@192.168.1.10
- F. Click **OK** to create the VoIP Directed call
- C. Verify that the test call is created

### Set up Test 2, a Gateway VoIP call.

A. Go to the VoIP/RTP tab

0			LANfo	rge Manag	er Versio	n(5.3.6)				$\odot$
Control R	eporting <u>T</u> ea	r-Off <u>I</u> nfo <u>P</u> lugir	ıs							
				$\Im$	Stop All	Re	start Manag	er	Refres	h HELP
Layer-4 Status	Generic Te Layer-3	est Mgr   Test Gr L3 Endps	oup Resour VoIP/RTP	ce Mgr Eve VoIP/RTF	ent Log Ale PEndps	Armaged	Mgr VAP St don Wa	ations Mes anLinks	Attenuators	File-IO
	Rpt Timer: fa	st (1s)	Go Test M	anager all	•	Select	t All Start	<u>S</u> top <u>C</u>	uiesce	ear
	View 0	- 500		▼ Go		D	isplay Cr <u>e</u>	ate Mo <u>d</u> if	/ Delete	
	1		Cro	ss Connects	for Selected	Test Manage	er —	-		
Name	Туре	State	Pkt Tx A → B	Pkt Tx A ← B	Bps Rx B	Bps Rx A	Rx Drop % A	Rx Drop % B	Delay A → B	Delay A ← B Jit
test-1	SIP/G.711u	Stopped	0	0	0	0	0	0	0	0
Logged in	to: 192.168.	100.103:4002 as	: Admin							

B. Click the Create button:

<u>\$</u>			Create/	Modify Cross Connect			
			Cros	s Connect Information			
(	X Name:	test-2	Rpt Timer: fast (1 s	s) 🔻 Test Mar	nager default_tm 🖣	CX Type:	/oice - SIP
	Multi-Call	O Directed	Min Call Duration (s)	ile 🔻 Max Ring Tim	e (s): 20	Codec:	5.711u 👻
	Continuous Call	Use Gateway	Max Call Duration (s)	ile 🔻 Min Inter-Cal	I Gap (s): 3	Start Delay:	
		Don't Send RTP	Number Of Calls	NFINITE 🔻 Max Inter-Ca	ll Gap (s): 3	Quiesce: 4	/5 (45 sec) ▼
			TX	Endpoint (endpoint A)			
Endp Name:	test-2-A	UnManage	d 🛛 🗹 Bind SIP	UDP Port	AUTO	Tx File	media/female_voice_8khz.wav
Shelf:	1	Don't Ansv	ver 🔲 Record	SIP Port	5060	Destination:	AUTO
Resource:	1 (brent-6port)	Boy Call	Enable PESO	IP ToS:	Best Effort (0)	Speaker	/dev/audio
Port:	3 (eth2)			Content Delevitor	0	Call Cataway	22222201021691002465060
IP Addr:	2222	No runneli	ng play to speaker	Socket Priority:	0	can Gateway:	pass2222@192.108.100.240.3000
Display Name:	2222	No Fast St	art 🗌 VAD	VAD Delay(ms)	250	Record File	AUTO
Auth User Nam	e: AUTO	Single Cod	ec 🗌 Override SDP	VAD Force Send	3000	PESQ Server:	127.0.0.1:3998
Reg Expire:	300	-		Jitter Buffer:	8	Quiesce:	45 (45 sec) 👻
			RX	Endpoint (endpoint B)			
Endp Name:	test-2-B	🗌 UnManage	d 🗾 🗹 Bind SIP	UDP Port	AUTO	Tx File	media/female_voice_8khz.wav
Shelf:	1	Don't Ansy	ver Record	SIP Port	5060	Destination:	AUTO
Resource:	1 (brent-6port)	▼ Den Call		ID T-C	Pact Effort (0)	Casalian	(devlaudie
Port:	4 (eth3)	▼ P RCV Call	Enable PESQ	IP TOS:	Best Errort (0)	Speaker	/dev/addio
IP Addr:	AUTO	No Tunneli	ng 🔄 Play to speaker	Socket Priority:	0	Call Gateway:	pass3333@192.168.100.246:5060
Phone #	3333	No Fast St	art 🗌 VAD	VAD Delay(ms)		Record File	
Auth User Name:	a: AUTO	Single Cod	ec 🗌 Override SDP	VAD Force Send		PESQ Server:	
Reg Expire:	300	•		Jitter Buffer:	8	Quiesce:	45 (45 sec) 👻
		Apply	ОК Г	Refresh Batch	-Create Can	cel	

- A. Enter test-2 in the CX Name field
- B. Select the Multi-Call and Use Gateway buttons
- C. Endpoint A is on port eth2 in this example. Be sure to enter the proper username and password for the endpoint so that it can authenticate with the VoIP Gateway if necessary.
- D. Configure gateway authentication:
  - I. To register with the gateway, often the **Auth User Name** is the phone extension (like 3333).
  - II. The **call gateway** begins with the extension password: pass333@192.168.100.245:5060
- E. Endpoint B is on port eth3. Be sure to select the Rcv Call checkbox for this endpoint to receive the call.
- F. Click  $\mathbf{OK}$  to create the VoIP Gateway call

C. Verify that the test call is created

			LANforge	Manage	er Versio	n(5.3.6)				$\odot$ $\otimes$ $\otimes$
Control R	eporting <u>T</u> ea	r-Off <u>I</u> nfo <u>P</u> lugi	ns							
					Stop All	Re	start Manage	r	Refres	h HELP
Layer-4 Status	Generic Te Layer-3	est Mgr   Test G L3 Endps	roup Resource N VoIP/RTP	Igr Eve VoIP/RTP	ent Log Ale Endps	rts Port M Armagedd	lgr VAP Stat on War	tions Mes nLinks	sages Attenuators	File-I0
	Rpt Timer: fa	st (1s)	Go Test Mana	ger all	-	Select	All Start	<u>S</u> top Q	uiesce Cle	ar
	View 0	- 500	-	Go		Di	splay Cr <u>e</u> a	te Mo <u>d</u> ify	Delete	
	1	1	Cross C	onnects f	or Selected	Fest Manage	r			
Name	Туре	State	Pkt Tx A → B Pkt	Tx A ← B	Bps Rx B	Bps Rx A	Rx Drop % A F	Rx Drop % B	Delay A → B	Delay A ← B Jit
test-1	SIP/G.711u	Stopped	0	0	0	0	0	0	1	1
test-2	SIP/G.711u	Stopped	0	0	0	0	0	0	0	0
					\$					
•			III							Þ
Logged in	to: 192.168.	100.103:4002 a	s: Admin							

For more information see LANforge User's Guide: VolP Call Generator

5.

Run test-1 and test-2 individually.

A. Select test-1 and click the **Start** button

0			LANfor	ge Manag	er Versio	n(5.3.6)				$\odot$ $\otimes$ $\times$
<u>Control</u> R	eporting <u>T</u> ea	r-Off <u>I</u> nfo <u>P</u> lugi	ns							
					Stop All	Re	start Manager		Refresh	HELP
Layer-4 Status	Generic Te Layer-3	est Mgr   Test G L3 Endps	roup Resource VoIP/RTP	e Mgr Ev VolP/RTI	ent Log Ale P Endps	erts Port M Armagedd	Igr VAP Station	s Mess ks A	ages Attenuators	File-I0
	Rpt Timer: fa	st (1s)	▼ Go Test Mar	nager all	•	Select	All Start S	top Qui	iesce Clear	
	View 0	- 500	•	Go		Di	splay Cr <u>e</u> ate	Mo <u>d</u> ify	Delete	
	1	ï	Cross	Connects	for Selected	Test Manage	r			
Name	Туре	State	$Pkt\;Tx\;A\toB\;P$	kt Tx A ← B	Bps Rx B	Bps Rx A	Rx Drop % A Rx D	rop % B D	elay A → B Dela	ay A ← B Jit
test-1	SIP/G.711u	In progress	1,077	1,077	55,943	55,941	0.093	0	0	0
test-2	SIP/G.711u	Stopped	0	0	0	0	0	0	0	0
										•
Logged in	to: 192.168.	100.103:4002 as	: Admin							

#### B. Go to the VoIP/RTP Endps tab to see detailed results:

4			LANforge N	lanager	Version(5	i.0.9)				- = ×
<u>Control</u> R	eporting <u>T</u> ear-O	off Help								
					Stop All	Re	start Manager		Refresh	HELP
1										
Collision-	-Domains File-	IO Layer-4	Generic Test N	lgr Resou	irce Mgr	Serial Spa	ns PPP-Links	Port Mgr	Messages	
Status	Layer-3	L3 Endps V	OIP/RTP VOIF	/RTP Endps	Auc	lio/Visual	AV Endps	Armaged	don W	anLinks
			View 0 - 400	▼ Go		Del	ete			
				——All End	lpoints—					
Name	State	Reg State	PESQ Tx Pkts	Rx Pkts	Tx Bytes	Rx Bytes	Dropped 000 F	kts Dup Pkts	iB Silence	iB Under
test-1-A	In progress	Unreg 7: 4	4.21 13,55	1 13,558	2,168,1	2,169,2	0	0 0	0	0
test-1-B	In progress	Unreg 7:4	13,56	1 13,551	2,169,7	2,168,1	0	0 0	0	0
test-2-A	Stopped	Unreg 0: C	)	0 0	0	0	0	0 0	0	0
test-2-B	Stopped	Unreg 0: C	)	0 0	0	0	0	0 0	0	0
										•
Logged in	to: localhost:40	12 as: Admin								

- A. The PESQ score will be reported after the first successful call is completed and updated after each subsequent call
- B. NOTE: Endpoints are unregistered while the call is in progress because they are not calling through the VolP gateway
- C. Stop test-1, select test-2 and click Start

<b>\$</b> 2				LA	Nforge Mana	ger Version	(5.3.3)					
<u>Control</u> <u>R</u>	eporting	Tea	r-Off Info Plugir	ns						_		
						Stop All	Resta	art Manage	r	Refres	h HE	LP
File-IO	Laver-	4 0	Generic Test I	Mar Test G	roup Res	ource Mar	Event Loc	Alerts	Port Mar	Message		
Status	Layer	-3	L3 Endps Vo	DIP/RTP Vo	IP/RTP Endp	s Armag	eddon	WanLinks	Attenuato	rs Collis	ion-Domain	ns
Rpt	Timer:	defau	ılt (5 s) 🔻	Go Test Ma	nager all	-	Sele	ct All Sta	art Stop	Quiesce	Clear	
Viev	w	0 - 20	00		Go		[	Display C	r <u>e</u> ate <u>M</u> e	odify De	lete	
				Cros	s Connects f	or Selected	Test Mana	ager				
Name	Тур	be	State	Pkt Tx A → B	Pkt Tx A ← B	Bps Rx B	Bps Rx A	Rx Drop % A	Rx Drop % B	Delay A → B	Delay A ← E	3 Jit
test-1	SIP/G.7	llu	Stopped	15,752	15,762	57,886	57,923	0.07	0	0	(	
test-2	SIP/G.7	llu	In progress	1,185	1,185	56,531	56,531	0.084	0	0	(	)

#### D. Go to the VolP/RTP Endps tab to see detailed results:

			LANforge Ma	nager Vers	ion(5.3.3)					
ontrol <u>R</u> eporti	ng Tear-Off Info F	Plugins								
				Stop A		Restart M	anager		Refresh	HELP
ile-IO Laye	r-4 Generic T	est Mgr Test	Group Res	ource Mgr	Event Lo	Alerts	Port Mg	r Messa	ges	
Status La	yer-3 L3 Endps	VoIP/RTP	VoIP/RTP En	dps Arm	ageddon	WanLir	ks Atte	nuators	Collision-D	omains
		/iew 0 - 400	Go	_				1		
				C	lear De	elete <u>B</u> at	ch Modify			
					ate					
				An Enupon	11.5					
alls Attempte	d Calls Completed	Calls Failed	CF 404	CF 408	CF Busy	CF Cancel	Calls Ans	Destination	Source Addr	Elapse
					-			Addr		10
	0 0	0	0	0	0	0	0	2161386	4826976	348
	0 0	0	0	0	0	0	0	4826976	2161386	348
	4 3	0	0	0	0	0	0	9201601	9502721	114
	<u>v </u>	U	0	0	0	0	4	9302721	9201001	114

A. PESQ remains 0: 0 when it is disabled for the call in progress

B. NOTE: Endpoints are registered with the VoIP gateway while the call is in progress

C. Calls Attempted, Calls Completed and Calls Failed can be viewed by scrolling to the right on the VolP/RTP Endps tab

For more information see LANforge User's Guide: VoIP Call Generator

6.

#### **Diagnosing Problems**

- A. If your VoIP endpoint is not going on-hook, check your VoIP gateway to see if the extension is failing to register.
- B. Extensions failing to register might be missing name hostname or IP of the voice gateway they are calling.
- C. Some gateways want **Auth User Name** to include the IP or hostname, E.G. **3333@grandstream** or **3333@192.168.100.245**. Make sure any hostnames are resolvable using nslookup \$name or host -v \$name.
- D. Your VoIP gateway should log when extensions go on-hook, please check the gateway logs
- E. Some gateways will not accept direct extension dialing but require extension@gateway style dialing, E.G. the phone number that extension 2222 would call wants to look like 3333@192.168.100.245

Candela Technologies, Inc., 2417 Main Street, Suite 201, Ferndale, WA 98248, USA www.candelatech.com | sales@candelatech.com | +1.360.380.1618