

August 13, 2020

Configure MiVoice Business 9.1 for use with Centurion CARES IVR

Description: This document provides a reference to Mitel Authorized Solutions providers for configuring the Mitel MiVB to connect to Centurion CARES IVR

Environment: MiVoice Business 9.1 (9.1.0.92), Mitel 69xx MiNET 01.05.02.024, Mitel 53xx MiNET 06.05.00.24

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Mitel Technical Configuration Notes – Configure MiVoice Business for use with Centurion CARES IVR

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Overview

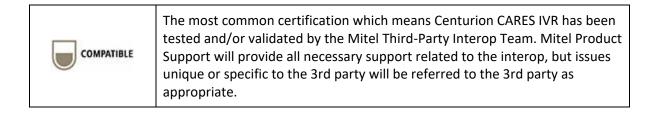
This document provides a reference to Mitel Authorized Solutions providers for configuring the Mitel MiVB to connect to Centurion CARES IVR. The different devices can be configured in various configurations depending on your VoIP solution. This document covers a basic setup with required option setup.

Interop History

Version	Date	Reason
1	August 2020	MiVoice Business 9.1 with Centurion CARES IVR

Interop Status

The Interop of Centurion CARES IVR has been given a Certification status. Enghouse will be included in the Mitel Interoperability Reference Guide (IRG). The status Centurion CARES IVR achieved is:



Software & Hardware Setup

This was the test setup to generate a basic SIP call between Centurion CARES IVR and the MiVB.

Note – Although this testing was performed on the below tested variants, the scope of this testing can be extended to other product variants that work with the same firmware. The list of components for which this testing can be considered applicable is given in the "Additional Applicable Variants" column of the following table –

Manufacturer	Tested Variants	Software Version	Additional Applicable Variants
Mitel	MiVoice Business	Release 9.1 (9.1.0.92)	Legacy flex GCP Flex – MPLS Variant
Mitel	69xx MiNET	01.05.02.024	N/A
Mitel	5330/5340 IP Sets	06.05.00.24	N/A
Centurion CARES	Centurion Cares IVR	14.4	

Tested Features

This is an overview of the features tested during the Interop test cycle and not a detailed view of the test cases. The features tested are applicable to two different topologies covered during the testing.

Note:

Both Normal and Call center IVR deployment has been tested

Feature	Feature Description	Issues
Basic Call	Making and receiving calls through Agent. Call in to the queue and Agent picks the call.	Z
Hold/Retrieve	Holding/Retrieving the current call. Making/receiving the second call	V
Call Transfer	Unattended and Attended transfer. Completing and Canceling the transfer before the call is answered	V
Conference	Agent 3-way Calling	1
DTMF	Supports for Both Inband and RFC 2833	
Long Call	30 minutes Calls between PSTN user and Agent	√
2B channel	2B Channel Transfer from IVR Server	V
Bridge	Call Bridge from IVR Server	√
End Call	Call End from CARES Soft Client	V
Hold	Hold from CARES Soft Client	1
Mute	Mute from CARES Soft Client	1
Hold	Hold from PSTN	1
Reconnect	Reconnect Line from CARES Soft Client	1
Make a Call	Make a Call from CARES Soft Client	1
Queue	Call in Queue and Answered by Agent once Ready	V
Resiliency	Resilient IVR for making and receiving calls	Δ
TLS	Making and Receiving Calls through Secure Mode	
🗹 - No issues f	ound $ imes$ - Issues found, cannot recommend using $ extsf{ }$.	- Issues found

Device Limitations and Known Issues

This is a list of problems or unsupported features when Centurion CARES IVR is connected to the MiVB.

Feature	Problem Description
Call Disconnect	Agent need to disconnect call manually in device
	Recommendation: Please contact Centurion for more Details
CTI Integration	There is no CTI Integration between Mitel and Centurion
	Recommendation: Please contact Centurion for more Details
Codec	Centurion only Support G711uLaw
	Recommendation: Please contact Centurion for more Details
PRACK	Centurion does not Support PRACK
	Recommendation: Please contact Centurion for more Details
TLS	Not Supported by Centurion
	Recommendation: Please contact Centurion for more Details

Network Topology

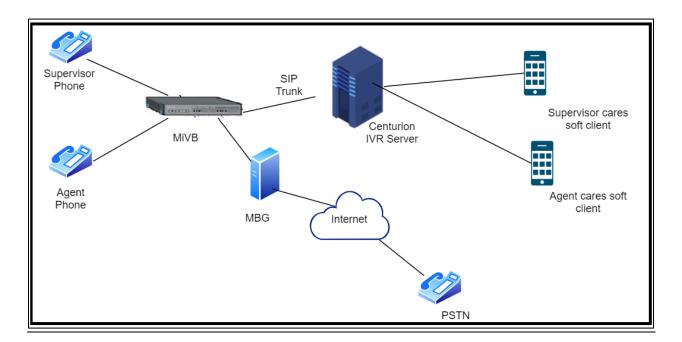


Figure 1 – Network Topology

Configuration Notes

This section is a description of how the SIP Interop was configured. These notes should give a guideline how a device can be configured in a customer environment and how Centurion CARES IVR connected with MiVB programming was configured in our test environment.

Disclaimer: Although Mitel has attempted to setup the interop testing facility as closely as possible to a customer premise environment, implementation setup could be different onsite. YOU MUST EXERCISE YOUR OWN DUE DILIGENCE IN REVIEWING, planning, implementing, and testing a customer configuration.

MiVB Configuration Notes

The following steps show how to program a MiVB to interconnect with Centurion CARES IVR.

Configuration Template

A configuration template can be found in the same Mitel Knowledge Management System (KMS) article as this document. The template is a Microsoft Excel spreadsheet (.csv format) **solely** consisting of the SIP Peer profile option settings used during Interop testing. All other forms should be programmed as indicated below. Importing the template can save you considerable configuration time and reduce the likelihood of data-entry errors. Refer to the MiVB documentation on how the Import functionality is used.

Network Requirements

- There must be adequate bandwidth to support the voice over IP. As a guide, the Ethernet bandwidth is approx. 85 Kb/s per G.711 voice session and 29 Kb/s per G.729 voice session (assumes 20ms packetization). As an example, for 20 simultaneous SIP sessions, the Ethernet bandwidth consumption will be approx. 1.7 Mb/s for G.711 and 0.6Mb/s. Almost all Enterprise LAN networks can support this level of traffic without any special engineering. Please refer to the MiVB Engineering guidelines for further information.
- For high quality voice, the network connectivity must support a voice-quality grade of service (packet loss <1%, jitter < 30ms, one-way delay < 80ms).

Assumptions for MiVB Programming

The SIP signaling connection uses UDP on Port 5060.

Licensing and Option Selection – SIP Licensing

Ensure that the MiVB is equipped with enough SIP Trunking licenses for the connection to Centurion CARES IVR. This can be verified within the License and Option Selection form.

Enter the total number of licenses in the SIP Trunk Licences field. This is the maximum number of SIP

MiVoice Business 9.1 with Centurion CARES IVR

trunk sessions that can be configured in the MiVB to be used with all service providers, applications and SIP trunking devices.

🕅 Mitel 🕴 MiVoice	Business			SDS Distributi	ion Error Status: Warning	□ ? (0 F
MN69 2	License and Option Selection on MN69	Search DN 🗸				Show form on MN69 (Lo	gin Node) 👻 🔂 🕈
11	Change				Pri	nt Import Expor	t Data Refresh
Licenses License and Option Selection System Capacity	License and Option Selection						
Dimension Selection Application Group Licensing 🞺	Embedded Voice Mail	35	100	0	100 Unrestricted	Yes	
LAN/WAN Configuration	Embedded Voice Mail PMS	0	No	1 \\	0 Unrestricted	Yes	
Voice Network System Properties Hardware	Trunking / Networking Digital Links	0	0	2 ₩	0 Unrestricted	Yes	
Trunks	Compression		80	0	80 Unrestricted	Yes	
Users and Devices	FAX Over IP (T.38)		0	4	4 Unrestricted	Yes	
Integrated Directory Services Voice Mail	SIP Trunks	0	50	0	50 Unrestricted	Yes	
Call Routing	Others						
Music On Hold Emergency Services Management	IDS Connection	0	No	1 14	0 Unrestricted	Yes	
Property Management	MLPP	0	No	0	0 Unrestricted	No	
Maintenance and Diagnostics	Configuration Options						
	Country	North Ame	erica				
	Extended Agent Skill Group	No					
	Maximum Elements per Cluster	30					

Figure 2 – License and Option Selection

Class of Service Assignment

The Class of Service Options Assignment form is used to create or edit a Class of Service and specify its options. Classes of Service, identified by Class of Service numbers, are referenced in the Trunk Service Assignment form for SIP trunks.

Many different options may be required for your site deployment but ensure that "Public Network Access via DPNSS" Class of Service Option is configured for all devices that make outgoing calls through the SIP trunks in the MiVB.

- Public Network Access via DPNSS set to Yes
- Campon Tone Security/FAX Machine set to Yes
- Busy Override Security set to Yes
- Trunk Flash Allowed set to Yes
- Two B-Channel Transfer Allowed set to yes

Advanced Continued Continued <th< th=""><th>Class of Service Options on MN69</th><th>Search DN 🗸</th><th>Show form</th><th>on MN69 (Login N</th></th<>	Class of Service Options on MN69	Search DN 🗸	Show form	on MN69 (Login N
Case of Service Options Image: Instant I	Change Copy		Print Impo	t Export
 Interior Interior Interio	Page 1 of 11 > Go to Value	Go		
3 Centuron Advanced 3 Comment Conturion ACD Agent Rohavior on No Answer So ACD Agent Rohavior on No Answer So ACD Agent No Answer Timer So ACD Silent Monitor Accept No ACD Silent Monitor Accept No ACD Silent Monitor Accept Monitoring Non-Prime Lines No Monitor Accept Monitoring Non-Prime Lines No ACD Silent Monitor Accept Monitoring Non-Prime Lines No Monitor A	arr Class of Service Options			
Advanced 3 Comment Centurion ACD Agent Behavior no Answer Logott ACD Agent Behavior no Answer No ACD Silent Monitor Accept No ACD Silent Monitor Accept No ACD Silent Monitor Accept Monitoring Non-Prime Lines No ACD Silent Monitor Accept Ion Busy ACD Agent No Your Art Timer No Galf Announce Line No Off-Hook Voice Announce Allowed No Hadsfree AnswerBack Allowed No Bust Verride No Bust Override Security No Bust Descurity No	▼ 4	¥ H	10	
Class of Service Number 3 Corrent Certurent Certurent ACD Agent Behavior on No Answer Logout ACD Agent No Answer Timer Logout ACD Silent Monitor Accept No ACD Silent Monitor Accept No ACD Silent Monitor Accept Monitoring Non-Prime Lines No Monitor Accept Monitoring Non-Prime Lines No ACD Silent Monitor Accept Monitoring Non-Prime Lines No Monitor Accept Monitor Motification No Follow 2nd Atternate Rerouts for Recall to Busy ACD Agent No Work Timer No Call Announce Lline No Madsfree AnswerBack Allowed No Handsfree AnswerBack Allowed No Busy Override Security No Disable Executive Busy Override Tone No	🤣 3		enturion	
E Centrol ACD Agent Behavior on No Answer Logott ACD Agent No Answer Timer Logott ACD Agent No Answer Timer No ACD Silent Monitor Accept No ACD Silent Monitor Accept Monitoring Non-Prime Lines No Acto Silent Monitor Accept Monitoring Non-Prime Lines No Gift-Hoot Note Announce Allowed No Gift-Hoot Voice Announce Allowed No Busy Override Security<	General Advanced			
ACD Agent Behavior on No Answer Logott ACD Agent Behavior on No Answer 15 ACD Agent No Answer Timer 15 ACD Agent No Answer Timer No ACD Stient Monitor Accept No ACD Stient Monitor Accept Monitoring Non-Prime Lines No ACD Stient Monitor Accept Monitor Accept Monitoring Non-Prime Lines No ACD Stient Monitor Accept Monitor Accept Monitoring Non-Prime Lines No Actor Stient Monitor Accept Monitor Accept Monitoring Non-Prime Lines No Actor Stient Monitor Accept Monitor Accept Monitoring Non-Prime Lines No Goldow Consult Consult Accept Monitoring Monitori	Class Of Service Number			3
ACD Agent Behavior on No Answer Logott A CA Spent No Answer Timer 50 A CD Agent No Answer Timer Not A CD Agent No Answer Timer Not A CD Steint Monitor Accept Not A CD Steint Monitor Accept Monitoring Non-Prime Lines Not A CD Steint Monitor Accept Monitoring Non-Prime Lines Not A CD Steint Monitor Accept Monitoring Non-Prime Lines Not A CD Steint Monitor Accept Monitoring Non-Prime Lines Not A CD Steint Monitor Accept Monitoring Non-Prime Lines Not A CD Steint Monitor Accept Monitoring Non-Prime Lines Not A CD Steint Monitor Accept Monitoring Non-Prime Lines Not A CD Steint Monitor Accept Monitoring Non-Prime Lines Not A CD Steint Monitor Accept Monitor Accept Monitoring Non-Prime Lines Not A CD Steint Monitor Accept Monitoring Non-Prime Lines Not A CD Steint Monitor Accept Monitoring Non-Prime Lines Not A CD Steint Monitor Accept Monitoring Non-Prime Lines Not A For Monitor Accept Monitoring Non-Prime Lines Not A For Monitor Accept Monitoring Non-Prime Lines Not A For Monitor Accept Monitoring Non-Pri	Comment			Centurion
ACD Agent No Answer Timer 16 A CD Stark Busy on Login No A CD Stent Monitor Accept No A CD Stent Monitor Accept Monitoring Non-Prime Lines No A CD Stent Monitor Actept Monitor Allowed No A CD Stent Monitor Allowed No G Inforce Line No A Inforce Line No Off-Hook Voice Announce Allowed No Busy Override Security No Busy Override Security No	ACD			
ACD Make Busy on Login No ACD Stient Monitor Accept No ACD Stient Monitor Accept Monitoring Non-Prime Lines No ACD Stient Monitor Actept Monitor Allowed No ACD Stient Monitor Allowed No Follow 2nd Alternate Reroute for Recail to Busy ACD Agent No Work Timer No Call Announce Line No Off-Hook Voice Announce Allowed No Fuestream State Allowed No Busy Override Security No Diable Executive Busy Override Tone No	ACD Agent Behavior on No Answer			Logout
ACD Stient Monitor Accept No ACD Stient Monitor Accept Monitoring Non-Prime Lines No ACD Stient Monitor Actept Monitor Accept Monitoring Non-Prime Lines No ACD Stient Monitor Actept Monitor Accept Monitoring Non-Prime Lines No ACD Stient Monitor Actept Monitor Accept Monitoring Non-Prime Lines No ACD Stient Monitor Actignation No ACD Stient Monitor Actignation No Vert Timer Call Announce Line No Off-Hook Voice Announce Allowed No No Vert Timer No No Busy Override Security No No Disable Executive Busy Override Tone No	ACD Agent No Answer Timer			15
ACD Slient Monitor Accept Monitoring Non-Prime Lines No ACD Slient Monitor Allowed No ACD Slient Monitor Allowed No ACD Slient Monitor Auffication No Follow 2nd Alternate Reroute for Recall to Busy ACD Agent No Verk Timer Coll Announce Line No Off-Hook Voice Announce Allowed No No Handstree AnswerBack Allowed No No Busy Override Security No No Disable Executive Busy Override Tone No No	ACD Make Busy on Login			No
ACD Slint Monitor Allowed No ACD Slint Monitor Autoritation No Follow 2nd Alternate Reroute for Recall to Busy ACD Agent No Vertice Cold Alternate Reroute for Recall to Busy ACD Agent No Autor Transmottion Cold Alternate Reroute for Recall to Busy ACD Agent No Autor Transmottion Cold Alternate Reroute for Recall to Busy ACD Agent No Autor Transmottion Cold Alternate Reroute for Recall to Busy ACD Agent No Autor Transmottion Cold Alternate Reroute for Recall to Busy ACD Agent No Autor Transmottion No No No Autor Transmottion No No No Busy Override Security No No No Disable Executive Busy Override Tone No No No	ACD Silent Monitor Accept			No
ACD Slint Monitor Notification No Follow 2nd Atternate Reroute for Recall to Busy ACD Agent No Verk Timer 0 Announce Line No Off-Hook Voice Announce Allowed No Handstree AnswerBack Allowed No Everviet No Busy Override Security No Disable Executive Busy Override Tone No	ACD Silent Monitor Accept Monitoring Non-Prime Lines			No
Follow 2nd Atternate Reroute for Recall to Busy ACD Agent No Vert Timer 0 Announce Line No Off-Hook Voice Announce Allowed No Handsfree AnswerBack Allowed No Busy Override Security No Busy Override Security No Disable Executive Busy Override Tone No	ACD Silent Monitor Allowed			No
Work Timer 0 Announce Line No Off-Hook Voice Announce Allowed No Handsfree AnswerBack Allowed No Busy Override Security No Disable Executive Busy Override Tone No	ACD Silent Monitor Notification			No
Anounce Line No Off-Hook Voice Announce Allowed No Handsfree AnswerBack Allowed No Busy Override Security No Disable Executive Busy Override Tone No	Follow 2nd Alternate Reroute for Recall to Busy ACD Agent			No
Call Announce Line No Off-Hook Voice Announce Allowed No Handsfree AnswerBack Allowed No Busy Override Security No Disable Executive Busy Override Tone No	Work Timer			0
Off-Hook Voice Announce Allowed No Handsfree AnswerBack Allowed No Busy Override No Busy Override Security No Disable Executive Busy Override Tone No	Announce			
Handsfree AnswerBack Allowed No Busy Override Security No Disable Executive Busy Override Tone No	Call Announce Line			No
Busy Override No Busy Override Security No Disable Executive Busy Override Tone No	Off-Hook Voice Announce Allowed			No
Busy Override Security No Disable Executive Busy Override Tone No	Handsfree AnswerBack Allowed			No
Disable Executive Busy Override Tone No	Busy Override			
	Busy Override Security			No
Executive Busy Override No	Disable Executive Busy Override Tone			No
	Executive Busy Override			No
Call Control Timer	Call Control Timer			
Busy Tone Timer 30	Busy Tone Timer			30



Network Element Assignment

Create a network element for Centurion CARES IVR. In this example, the soft switch is reachable by an IP Address and is defined as "Enghouse" in the network element assignment form.

The network element is required to allow the MiVoice Business to connect to the CCE server using SIP trunks.

Change			
Network Elements			Î
Name	Centurion		
Туре	Other		~
FQDN or IP Address	192.168.10.1	6	
Local	False		
Version			
Zone	1		
ARID			
SIP Peer			
SIP Peer Specific			
SIP Peer Transport	default 🗸		
SIP Peer Port	0		- 1
External SIP Proxy FQDN or IP Address			- 1
External SIP Proxy Transport	default 🗸		
External SIP Proxy Port	0		
SIP Registrar FQDN or IP Address			- 1
SIP Registrar Transport	default 🗸		
SIP Registrar Port	0		
SIP Peer Status	Always Active	~	-
		Save	Cancel

Figure 4 – Network Element Assignment

Trunk Attributes

Use Trunk Attributes form to configure Trunk Service Number. In this example, the Trunk Service Number 8 will be used to direct in this example. Please refer to the Mitel MiVB System Administration documentation for further programming information.

Change	
Trunk Attributes	
Trunk Service Number	9
Release Link Trunk	No 🗸
Call Recognition Service	Off 🗸
Direct Inward Dialing Service	Off On
Caller Based Routing Service	Off On
Class of Service	5
Class of Restriction	1
Baud Rate	300 🗸
Intercept Number	1
Non-dial In Trunks Answer Point - Day	
Non-dial In Trunks Answer Point - Night 1	
Non-dial In Trunks Answer Point - Night 2	
Dial In Trunks Incoming Digit Modification - Absorb	0
Dial In Trunks Incoming Digit Modification - Insert	
Dial In Trunks Answer Point	
Dial In Trunks Insert Forwarding Information	● No ─ Yes
Trunk Label	Centurion

Figure 5 – Trunk Attributes

SIP Peer Profile

The recommended connectivity via SIP Trunking does not require additional physical interfaces. IP/Ethernet connectivity is part of the base MiVoice Business Platform. SIP Peer profiles provision SIP trunks with local account information, outbound proxy server information, SIP trunk policies, Calling Line ID parameters, and authentication information.

The SIP Peer Profile should be configured with the following options.

- SIP Peer Profile Label Enter a name for the SIP peer profile Enghouse
- Network Element Centurion
- Address Type Enter a site-specific value for the IP address 192.168.10.69
- Interconnect Restriction Enter a site-specific value 1
- Maximum Simultaneous Calls The maximum number of SIP trunks 10
- Trunk Service Select the applicable value 9
- Enable Special Re-Invite Collision Handling Yes
- Route Call Using to Header Yes
- Enable Mitel Proprietary SDP No
- Force sending SDP in initial Invite message Yes
- Prevent the Use of IP Address 0.0.0.0 in SDP Messages Yes
- Suppress Use of SDP Inactive Media Streams Yes
- Disable Reliable Provisional Responses Yes
- Ignore Incoming Loose Routing Indication Yes
- Use P-Asserted Identity Header Yes
- Require Reliable Provisional Responses on Outgoing Calls No

NOTE: Ensure the remaining SIP Peer profile policy options are similar the screen capture below.

isic Call Routing	Calling Line ID	SDP Options	Signaling and Header Manipulation	Timers	Key Press Event	Outgoing DID Ranges	s Profile Information
SIP Peer Profile I	_abel					C	Centurion
Network Element	t					C	Centurion
Local Account In	formation						
Registration	User Name						
Address Typ)e					IF	P Address: 192.168.10.6
Administration C	ptions						
Interconnec	t Restriction					1	
Maximum S	imultaneous Calls					5	
Minimum Re	eserved Call Licen	ses				0	
Outbound P	roxy Server						
SMDR Tag						0	
Trunk Servi	ce					9	1
Zone						1	
Authentication O	ptions						
User Name							
Password						*:	*****
Confirm Pas	sword					*:	*****
Authenticat	on Option for Inco	oming Calls				Ν	lo Authentication
Subscriptio	n User Name						
Subscriptio	n Password					*:	*****
Subscriptio	n Confirm Passwo	rd				*:	*****
Gateway Options	;						
Digital Trun	k Licenses					0	
Maximum D	igital/Analog Char	nels				0	

Figure 6 – SIP Peer Profile Assignment- Basic

asic	Call Routing	Calling Line ID	SDP Options	Signaling and Header Manipulation	Timers	Key Press Event	Outgoing DID Ranges	Profile Information	
Alte	rnate Destinati	on Domain Enat	bled						No
Alte	rnate Destinati	on Domain FQD	N or IP Address	3					
Ena	ble Special Re	invite Collision	Handling						No
Only	Allow Outgoi	ng Calls							No
Priv	ate SIP Trunk								No
Reje	ct Incoming A	nonymous Calls							No
Rou	te Call Using F	-Called-Party-ID	(if present)						Ye
Rou	te Call Using T	o Header							No

Figure 7 – SIP Peer Profile Assignment- Call Routing

asic Call Routi	ting Calling Line ID	SDP Options	Signaling and Header Manipulation	Timers	Key Press Event	Outgoing DID Ranges	Profile Information	
Default CPN								
Default CPN N	Name							
CPN Restrictio	ion							No
Override From	n Header with Default	CPN						No
Public Calling	g Party Number Passtr	rough						No
Strip PNI								No
Use Diverting	Party Number as Call	ing Party Numl	ber					No
Use Original C	Calling Party Number I	f Available						No

Figure 8 – SIP Peer Profile Assignment- Calling Line ID

Basic	Call Routing	Calling Line ID	SDP Options	Signaling and Header Manipulation	Timers	Key Press Event	Outgoing DID Ranges	Profile Information	
Allo	w Peer To Use	e Multiple Active	M-Lines						Yes
Allo	w Using UPD	ATE For Early Me	dia Renegotiati	on					No
Avo	oid Signaling H	lold to the Peer							Yes
AVF	Only Peer								Yes
Ena	ble Mitel Prop	rietary SDP							No
For	ce sending SD	P in initial Invite	message						Yes
For	ce sending SD	P in initial Invite	- Early Answer						No
Ign	ore SDP Answ	ers in Provisiona	I Responses						No
IP N	ledia Default								ipv4
Lim	it to one Offer	Answer per INV	TE						Yes
NAT	Keepalive								Yes
Pre	vent Codec Se	election on Answe	er						No
Pre	vent the Use o	f IP Address 0.0.	0.0 in SDP Mess	sages					Yes
Rej	ect Call withou	ıt telephone-ever	it payload						No
	•	To Enforce Symn							No
		ver If Duplicate O	ffer Is Received						No
	trict Audio Co								No Restrictio
		n Rate Override							No
	Packetization								20ms
-		of Offers in 2XX r		TE)					No
Sup	press Use of	SDP Inactive Med	lia Streams						Yes



Basic	Call Routing	Calling Line ID	SDP Options	Signaling and Header Manipulation	Timers	Key Press Event	Outgoing DID Ranges	Profile Information
Tru	nk Group Labe	I						
Allo	ow Display Upc	ate					N	0
Bui	ld Contact Usi	ng Request URI A	ddress				Ν	0
De-	register Using	Contact Address	not *				Y	es
Dis	able Reliable P	rovisional Respo	onses				N	0
Dis	able Use of Us	er-Agent and Ser	ver Headers				N	0
Dis	card Received	P-Asserted-Iden	tity Headers				N	0
Dor	nain for Trunk	Context						
E.1	64: Enable sen	ding '+'					N	0
E.1	64: Add '+' if di	git length > N dig	jits				0	
E.1	64: Do not add	'+' to Emergency	Called Party				N	0
E.1	64: Do not add	'+' to Called Part	у				N	0
For	ce Max-Forwar	d: 70 on Outgoin	g Calls				N	0
If T	LS use 'sips:' §	Scheme					Ν	0
Ign	ore Incoming L	oose Routing In	dication				N	0
Incl	ude Diversion	Header for EHDU	J				Ν	0
Mo	de for Out-of-B	and DTMF					R	FC 4733 DTMF
Mul	tilingual Name	Display					Ν	0
Onl	y use SDP to d	ecide 180 or 183					Y	es

Figure 10 – SIP Peer Profile Assignment- SDP Options

Basic	Call Routing	Calling Line ID	SDP Options	Signaling and Header Manipulation	Timers	Key Press Event	Outgoing DID Ranges	Profile Information
Incl	ude Diversion	Header for EHDU	J				N	lo
Mo	de for Out-of-E	and DTMF					R	RFC 4733 DTMF
Mul	tilingual Name	Display					Ν	lo
Onl	y use SDP to a	decide 180 or 183					Y	es
Pre	fer From Head	er for Caller ID					Ν	lo
Q.8	50 Reason Hea	aders					Ν	lo
Rec	uire Reliable I	Provisional Respo	onses on Outgo	bing Calls			Ν	lo
Sig	nal Privacy (if	enabled) on Eme	rgency Calls				Ν	lo
Sup	press Incomir	ng Name					Ν	lo
Sup	press Redired	tion Headers					Ν	lo
Use	Fixed Retry T	ïme for 491					Ν	lo
Use	Privacy: none	9					Ν	lo
Use	P-Asserted Id	lentity Header					Y	es
Use	P-Asserted Id	lentity for Billing					Ν	lo
Use	P-Call-Leg-ID	Header					Ν	lo
Use	P-Early-Media	a Header					Ν	lo
Use	P-Preferred lo	dentity Header					Ν	lo
Use	Restricted Ch	naracter Set For A	uthentication				Ν	lo
Use	To Address in	n From Header on	Outgoing Call	s			Ν	lo
Use	user=phone						Ν	lo
Use	user=phone f	or Diversion Hea	der				Ν	lo

Figure 11 – SIP Peer Profile Assignment- Signaling and Header Manipulation

Basic	Call Routing	Calling Line ID	SDP Options	Signaling and Header Manipulation	Timers	Key Press Event	Outgoing DID Ranges	Profile Information
Kee	p-Alive (OPTIC	ONS) Period						120
Reg	istration Perio	d						3600
Reg	istration Perio	d Refresh (%)						50
Reg	istration Maxi	mum Timeout						90
Ses	sion Timer							90
Ses	sion Timer: Lo	cal as Refresher						No
Sub	scription Perio	bd						3600
Sub	scription Perio	od Minimum						300
Sub	scription Perio	od Refresh (%)						80
Invi	te Ringing Res	ponse Timer						0

Figure 12 – SIP Peer Profile Assignment- Timers

Basic	Call Routing	Calling Line ID	SDP Options	Signaling and Header Manipulation	Timers Key Press Eve	nt Outgoing DID Ranges	Profile Information	
All	ow Inc Subscrip	tions for Local E)igit Monitoring					No
All	ow Out Subscri	ptions for Remot	e Digit Monitori	ing				No
Fo	rce Out Subscri	ptions for Remot	e Digit Monitor	ing				No
Re	quest Outbound	Proxy to Handle	e Out Subscript	ions				No
KP	ML Transport							default
KP	ML Port							0

Figure 13 – SIP Peer Profile Assignment- Key Press Event

Basic	Call Routing	Calling Line ID	SDP Options	Signaling and Header Manipulation	Timers	Key Press Event Outgoing DID Ranges	Profile Information	
								Update
Inde	¢			DID Range			CPN Substitution	

Figure 14 – SIP Peer Profile Assignment- Outgoing DID Ranges

Basic	Call Routing	Calling Line ID	SDP Options	Signaling and Header Manipulation	Timers	Key Press Event	Outgoing DID Ranges	Profile Information	
Cre	ator								
Dat	e Created								
Cre	ated with Versi	on							
Ser	vice Provider								
Ven	dor Notes								

Figure 15 – SIP Peer Profile Assignment- Profile Information

ARS Digit Modification Plans

Ensure that Digit Modification for outgoing calls on the SIP trunk to Centurion CARES IVR absorbs or injects additional digits according to your dialling plan. In this example, we will be absorbing no digits.

MN69	ź.	ARS Digit Modification Plans on MN69	Search DN 🗸		Show form on MH89 (Login Node) V Go 🕈
		Change Change Page Change All Clear			Print Import Export Data Refresh
Licenses LAN/WAN Configuration		C Page 1 of 55 > Go to Val	ue Go		
Voice Network System Properties		🔗 ARS Digit Modification Plans			
Hardware		Digit Modification Number	Number of Digits to Absorb	Digits to be Inserted	Final Tone PlanInformation Marker
Trunks		🥔 1	3		
Users and Devices		🥔 2	0		
Integrated Directory Services		<i>🕫</i> 3	0		
Voice Mail		Ø 4	0		
Call Routing		🥟 5	0		
Automatic Route Selection (ARS)		₽ 6	3		
ARS Call Progress Tone Detection 🛹		Ø 7	3		
ARS Digit Modification Plans 🧬		₽ 8	0		
ARS Maximum Dialed Digits 🎺		a 9	0		
ARS Routes		≠ 10	0		
ARS Route Lists		🧈 11	0		
ARS Route Plans		✓ 12			
ARS Digits Dialed		✓ 13	0		
ARS Leading Digits		🤣 13 🤣 14	•		
ARS Day and Time Zones 🎺		✓ 14 ✓ 15			
ARS Node Identities		✓ 15	0		

Figure 16 – Digit Modification Assignment

ARS Routes

Create a route for SIP Trunks connecting a trunk to Centurion CARES IVR. In this example, the SIP trunk is assigned to Route Number 10. Choose SIP Trunk as a routing medium and choose the SIP Peer Profile and Digit Modification entry created earlier.

Change	
ARS Routes	
Route Number	11
Routing Medium	SIP Trunk 🗸
Trunk Group Number	
SIP Peer Profile	Centurion 🗸
PBX Number / Cluster Element ID	
COR Group Number	1
Digit Modification Number	3
Digits Before Outpulsing	✓
Route Type	PSTN Access Via DPNSS 🗸
Compression	Off 🗸
	Save Cancel

Figure 17 – SIP Trunk Route Assignment

ARS Digits Dialed

ARS initiates the routing of trunk calls when certain digits are dialed from a station. In this example, when a user dials 4443000, the call will be routed to Centurion CARES IVR and 4443001, the call will be routed to Centurion CARES Contact Center IVR

If case of PSTN user need to reach IVR through SIP Trunk, then we need map 4443001 and 4443000 to existing DID

	Change							
	This form al record:	lows you to	change on	ne or more reco	ords, startir	ng at the	following	*
	Digits Dialed	Number of Dig	its to Follow	Termination Type	Termination	Number		
	444	Unknown		Route	10			
		umber of records Change Range P		1 Pattern:				l
	Field Name		Change action	Value to cha	nge	Increm	ient by	1
	Field Name Digits Dialed				nge	Increm	nent by	l
	Digits Dialed	gits to Follow	action	~ 444	_	Increm	nent by	ł
-	Digits Dialed	-	action Change to	V 444	_	Increm -	nent by	l
	Digits Dialed Number of Di	Гуре	action Change to Change to	 ✓ 444 ✓ Unknown ✓ Route ✓ 	_	Increm -	nent by	
	Digits Dialed Number of Di Termination 1	Гуре	action Change to Change to Change to	 ✓ 444 ✓ Unknown ✓ Route ✓ 	_	Increm - -	nent by	• •

Figure 18 – ARS Digit Dialed Assignment

Chang	е								
This for record:		ows yo	u to change	one or more reco	ords, sta	arting	at the fo	llowing	Ì
DID Nur	nber	Primary	Node Id (PNI)	Destination Number	DID Typ	e			
1469565	51607			1593001	Standar	d DID			
			ecords to change inge Programmin						
Field N	ame		Change action	Value to change		Incr	ement by		
DID Nur	mber		Change to ∨	14695651607					
Primary	Node	ld (PNI)	Change to ∨						
Destina	tion Nu	umber	Change to ∨	4443001					
DID Typ	e		Change to 🗸	Standard DID		-			
					Preview		Save	Cancel	

Figure 19 – DID Mapping

Note:

Please Contact Centurion for Configuration. In Lab environment configuration was done by Centurion Team

Glossary

MiVoice Business	MiVB
MiNET Interface	MiNET
Mitel Solutions Alliance	MSA
Knowledge Management System	KMS
Class of Service	COS
Automatic Route Selection	ARS