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Panasonic NCP - How to interconnect with Panasonic NCP PBX?

- 2N[®] VoiceBlue Next Parameters
 - IP address: 192.168.88.2
 Dart: 5060
 - Port: 5060
 - Firmware: 03.00.03rc3
 - PBX Panasonic KX-NCP500VNE
 - IP address: 192.168.88.101
 - IP DSP: 192.168.88.102
 Darty 5060
 - Port: 5060
 Port Invito: 50
 - Port Invite: 5060
 Firmware: 003-000

2N VoiceBlue Next settings

1. SIP trunk interconnection

For the setting of the trunk between the $2N^{\circledast}$ VoiceBlue Next and your PBX you need to configure SIP proxy (GSM \rightarrow IP) for GSM incoming calls. SIP proxy (IP \rightarrow GSM) is designed to secure communication just with traffic from your Panasonic PBX. You can specify the IP address and port from which SIP packets will be accepted.

teway Gateway | Update | Restart UNICATIONS TELECO Gateway control 1 x 10ms . Gateway configuration 2 x 10ms -System parameters VolP parameters Codec priority GSM basic parameters The IP address The IP address and port Priority 1: 11a (8) . . GSM groups assignment to which the from which SIP packets Priority 2 11u (0) - GSM outgoing groups Priority 3: traffic is send . will be accepted · GSM incoming groups · Prefixes **IP addresses** . LCR table SIP proxy (IP->GSM): 192.168.92.246 CLIP Routing table Set default port SIP proxy (GSM->IP): Mobility Extension 192.168.92.246 Set default port 5060 Ethernet configuration SIP registrar: 0.0.0.0 Login configuration NAT firewall: 0.0.0.0 · Web configuration STUN server 0.0.0.0 3478 Set default port · Report configuration Next STUN server request (60-6553, 0=off) [s]: Configuration backup Tones generated to VoIP Dial tone to VolP: English Logout ()

In case you leave there 0.0.0.0 it will be open for all traffic.

2. Configuration of the LCR (Least Cost Routing)

The GSM operator has e.g. in our country prefix 7 and 8 with a 9-digit number. The setting is below.





System parameters
 VoIP parameters

0:00/24:00

0:00/24:00

1/

2/

- GSM basic parameters
- GSM groups
- assignment
- GSM outgoing groups
 GSM incoming groups
- Prefixes

Gateway control

LCR table

GSM groups assignment

Off

Off

1

2

Edit

Edit

Remove

Remove

Use as in week

Use as in week

Gateway configuration			
System parameters	Module:	Outgoing:	Incoming:
VoIP parameters	0. module	1. Group 💌	1. Group 💌
GSM basic parameters	1. module	2. Group 💌	1. Group 💌

3. Configuration of GSM outgoing groups

You are able to set up different setting for each GSM group (CLIR, free minutes, virtual ring tone, roaming and others)



		Gatew	Gateway
Gateway control	GSM outgoing groups		
Gateway configuration			
System parameters	1. GSM group 2. GSM group		
VolP parameters	Compared as this are		
GSM basic parameters	General settings		
 GSM groups assignment 	Delay for CONNECT [s]:	Off	
 GSM outgoing groups 	Minimal ring duration to send "SMS at no answer" [s]:	Off 👱	
GSM incoming groups	Delay for ALERTING [s]:	4	
Prefixes	'Minute' parameter:	Count of minutes	2
LCR table	Day of deleting statistics in group (every month):	1	
CLIP Routing table	Generate virtual ring tone:	<u></u>	
Mobility Extension	Call length counting:	Seconds	
Ethernet configuration			
Login configuration	Disconnect call		
Web configuration		_	
Report configuration	SIM limit exceeded:	-	
Configuration backup	No ALERTING before CONNECT:		
	Send CLIP from VoIP to GSM/UMTS		
			by your GSM / UMTS operator. In
Logout ()			

4. Incoming calls

For incoming calls you can define 2 groups with the different behavior and assign them to the GSM modules. The settings are similar with GSM groups assignment for outgoing calls.

GSM groups assignmentModule:Outgoing:Incoming:0. module1. Group1. GroupImage: Colspan="3">Image: Colspan="3"0. module1. GroupImage: Colspan="3">Image: Colspan="3">Image: Colspan="3"										
Module:	Outgoing:		Incoming:							
0. module	1. Group	-	1. Group	•						
1. module	2. Group		1. Group							

In GSM incoming groups you can define the behavior for each GSM incoming group. Choose the mode to Reject, Ignore, Accept incoming calls or Callback.





You can define the list of called numbers which will be automatically dialed after DTMF dialing timeout if the customer does not press any button within the specified time. From the configuration you can see 10 seconds for DTMF dialing and after that the call will be routed to the extension 100 to your Panasonic PBX (if you set up SIP proxy (GSM->IP) in VoIP parameters).



Panasonic NCP settings (by Masscomm)

1. Connection settings

First of all we need to create a new slot as SIP Trunk (SIP Gateway Virtual type).

By default Panasonic NCP has the port 35060 opened to receive INVITE messages from the other side. We



have to switch Virtual rack and V-SIPGW16 card to mode "OUS". Then we have to change the parameter in the virtual rack and card Properties of the rack->Virtual SIP Gateway (Trunk) Number of port of SIP Value: 5060. (Default value 35060)

🚰 default - Consola de mantenimier	nto KX-NCP - [1:Configuración - 1:Ranura - Propiedades del armano - G	ateway SIP virtual]		
Archivo(?) Desconectar(D) Herran	nentas(T) Utildades(V) Ver(L) Ventana(M) Ayuda(H)			E.
of 📾 🚨 💞				
Meni del sistema 🛛 🗙	1.1 Ranura Propiedades del puerto - Osteway SIP virtual Propiedad	es del armario – Gateway SIP virtual		
1.Configuración				
1.Ratura	OK(Q) Concelar(C) Aplcor(A)			
🗊 2 Extensión portábl				
di 3.01ros	Principal Temporizador			
🖀 4 Prioridad de Reloj	Descripción	Valor		
	Número de puerto del cliente SIP	5060		
	NAT Traversal	Apagado		
	NAT - Nº de puerto UDP para voz (RTP)	16000		
	NAT - Capacidad de envío del paquete Keep Alve	Desectiver		
	NAT - Tpo de paquete Keep Alive	Blank UDP		
	NAT - Intervalo da envio del paquete Keep Alive (a)	20		
	NAT - Dirección IP global fija			
	STUN capacidad	Desectivar		
	Número de puerto del cliente STUN	33478		
	STUN External Address Detection Retry Counter	1		
	STUN Recording Interval	500 ma		
	Capacided de verificación del número del interlocutor llamade SP	Disable(High->Low)		
	Capacidad de direccionamiento de respuesta simétrica	Activar		
2. Salona Grupos Estansianse I. Slapasinse S. Janonnes	Capacidad 100rel	Activar (Pasivo)		
2. Sistema	Tono de devolución de llamade a interlocutor externo	Desactivar		
3.Grupos	*) Para que los cambios sean váldos deberá reiniciar el sistema.			
4.Extensiones				
5.Dispositivos Opcionales				
6.Fundaries				
7.Restricciones				
8.SAR				
9 Red Privada				
10.LN y Entrada de Llamadas				
11.Nantenimiento				
Mode Interactive - default (RS-232C)	Tipo - NC2500 Nivel - I	installadior	VaratinD03-000	Región005-014

After this change, the PBX must be restarted!

2. SIP Trunk settings

The port which is going to be used has to be set as OUS. In the main tab fill the following parameters:

Channel Attribute=Basic Channel Name=VoiceBlue IP address=192 168 88 2 (in the example)

2 1																
nü del sistema 3	¢ 1.1	Ranur	a Prop	redades del	puerto -	Gateway SIP virtual										
Senfiguración																
1.Ranura		OK	0	Cancelar(C	9	Aplicar(A)										
2 Extensión portábil		lomar	dolla	Seleccionar	DOWNER	don(5) Adadr (novedor/P)									
S Olica							_									
within the de rector		Princip	el Cu	enta Reg	istrar	NAT Opción	Interlocutor lamante	Interlocutor	lamado 💛	Voz / FAX	RTPIRTOP	T.38 C	pción T.38	OSP	Servicio auplementario	
		_										landin dalar	a dia 00			
					-	6		,	ombre de pro	rveedor	0.	incoción del si	a vidor pir-		Nombre del servidor SIP	Dominio dal servicio S
		-	Ubicación	Narura	Puent	Conexian	Attibutos de canal	0	20 caracteres	8)	(20 caracteres))	Dirección I	P	(100 caracteres)	(100 caracteres)
		3	1	1	1	INS	Basic channel				VoiceBlue		192.168.88	2	5060	
			2	1	2	Defectuoso	No se utiliza								5060	
			3	1	3	Defectuoso	No se utiliza								5060	
			4	1	4	Defectuoso	No se utiliza								5060	
			5	1	5	Defectuoso	No se utiliza								5060	
			6	1	6	Detectuoso	No se utiliza								5060	
			7	-	·	Detectuoso	No se utéze								5060	
			0	1	•	Detectuoso	No se utiliza								5060	
			9	1	3	Detectuoso	No se utiliza								5050	
		-	10	1	10	Detectuoso	No se utiliza								5060	
scenta		2	42	-	12	Defectuoso	No se stáza								5060	
apea			13	1	13	Defectuoso	No se utiliza								5060	
tensiones			14	1	14	Defectuoso	No se utiliza								5060	
spoailivos Opcionales			15	1	15	Defectuoso	No se utiliza								5060	
nciones			18	1	18	Defectuoso	No se utiliza								5060	
stricciones																
R																
d Privada																
N y Entrada de Llamadas																
		4														

In tab Account the fields Name, Authentification ID, password, should be filled. In our case we set all parameters as VoiceBlue



rchivo(E) Desconectar(D) Her	ramentas	ω	Jtildades(U)	Ver(V)	Vent	ana(W) Ayuda(H)										
s 🗃 🛍 🥔																
nú del sistema 🔅	× 1.1	Ranun	a Propiede	des del p	puerto -	Gateway SIP virtual										
Configuración																
1.Ranura 2.Extensión portálil 3.Otros		OK) Coman	0) Ca do(<u>U</u>) Se	ncelar(C lecclonar)	Aplicer(<u>A</u>) dor(<u>S</u>) Añader	proveedor(<u>P</u>)									
4.Phonoad de Neioj		Princip	al Cuenta	Regi	strar	NAT Opción	Interlocutor llamante	Interloce	utor llamado	Voz / FAX	RTNRTCP	T.38 0	pción T.38	DSP	Servicio suplementario	
			Ubicación	Ranura	Puerto	Conexión	Nombre (84 caracteries)		D de autenti (64 caracter	cación es)	Contrass (32 cara	eña de autenti Interes)	cación			
		1	1	1	1	NS	VoiceBlue		VoiceBlue		VoicaBlu	18				
			2	1	2	Defectuoso	i									
			3	1	3	Defectuoso	1									
			4	1	4	Defectuoso	1									
			5	1	5	Defectuciso										
			6	1	8	Defectuoso										
			7	1	7	Defectuoso	Į									
			8	1	8	Defectuoso	l									
			9	1	9	Defectuoso										
		-	10		10	Defectuoso	1				_					
tema	- 1	2	11	4	12	Defectuoso	1									
poe			13	1	13	Defectuoso	1									
ensiones			14	1	14	Defectuoso	1									
positivos Opcionales			15	1	15	Defectuoso	î									
ncienea			16	1	16	Defectuoso	1									
stricciones							-									
R																
d Privada																
N y Entrada de Llamadas																
antenimiento																

We go to tab REGISTRAR and we have to set REGISTRAR CAPACITY as DISABLED. After that we will configure the server to Registrar Name: VoiceBlue; IP= 192.168.88.2.

del sistema X	1.1 Ranu	ra Propio	decies del	puerte -	Cateway SP virtual							
nfoursción												
Renura	CK	(0)	Concelar(C		plicar(A)							
Extensión portátil							_					
Otros	Сота	ndo(<u>U</u>) S	eleccionar	proveed	lor(<u>3)</u> Añadir	proveedor(P)						
Prioridad de Roloj	Princi	pal Cuent	n (Rog	istrar)	NAT Opciin	Interlocutor lia	mante interlocutor	Iemedo Voz / FAX	RTPIRTOP T.38	Opción T.38	DSP	Servicio suplementario
									Servi	ider Registrer		
	•	Ubicación	Ranura	Puerto	Conexión	Registrar capacidad	Registrar intervalo de envio (s)	Der de baja la capacidad cuando el puerto INS	Nombre (20 caracteres)	De	ección P	Número de puerto Servidor Registrar
	(4)	1	1	1	NS	Desectivar	300	Activar	VeiceBlue	19	2.168.88.2	5060
		2	1	2	Defectuoso	Activar	3600	Activar				5060
		3	1	3	Defectuoso	Activar	3600	Activar				5060
		4	1	4	Defectuoso	Activer	3600	Activar				5060
		5	1	5	Defectuoso	Activar	3600	Activar				5060
		8	1	G	Defectuoso	Activar	3600	Activar				5860
		7	1	7	Defectuoso	Activar	3600	Activar				5060
		8	1	8	Defectuoso	Activar	3600	Activar				5060
		9	1	9	Defectuoso	Activer	3600	Activar				5060
		10	1	10	Defectuoso	Activar	3600	Activar				5060
iema	9	11	1	11	Defectuoso	Activar	3600	Activar				5060
upoe		12	1	12	Defectuoso	Activar	3600	Activar				5060
tensiones		13	1	13	Defectuaso	Activer	3600	Activar				5060
ispositivos Opcionales		14	1	14	Defectuoso	Actwar	3600	Activar				5060
nciones		15	1	15	Defectuoso	Activar	3600	Activar				5060
stricciones		16	1	16	Detectuoso	Activar	3600	Activar				5860
n												
ed Privada												
N y Entrada de Llamadaa												

After having followed all previous steps, the port must be set in mode INS (It should remain marked). Now we are able to do the testing of the interconnection between both devices.

More product information:

2N[®] VoiceBlue Next (Official Website 2N)