Grandstream Device Configuration STATUS BASIC SETTINGS ADVANCED SETTINGS FXS PORT1 FXS PORT2 **Account Active:** \bigcirc No Yes **Primary SIP Server:** (e.g., sip.mycompany.com, or IP address) sipgate.co.uk **Failover SIP Server:** (Optional, used when primary server no response) **Prefer Primary SIP** (yes - will register to Primary Server if Failover registration expires) O No O Yes Server: **Outbound Proxy:** sipgate.co.uk (e.g., proxy.myprovider.com, or IP address, if any) **Backup Outbound Proxy:** (e.g., proxy.myprovider.com, or IP address, if any) **Prefer Primary Outbound** (yes - will reregister via Primary Outbound Proxy if registration expires) O No O Yes **Proxy: Allow DHCP Option 120** Yes No (override SIP server): **SIP Transport:** O TCP O TLS (default is UDP) O UDP **SIP URI Scheme When** o sip o sips **Using TLS: Use Actual Ephemeral** O Yes **Port in Contact with** No TCP/TLS: **NAT Traversal:** O No Keep-Alive \bigcirc STUN O UPnP **SIP User ID:** 2647779e0 (the user part of an SIP address) **Authenticate ID:** (can be identical to or different from **SIP User ID**) 2647779e0 **Authenticate Password:** (purposely not displayed for security protection) (optional, e.g., John Doe) Name: John Newcombe DNS Mode: A Record ○ SRV ○ NAPTR/SRV DNS SRV use Registered ○ Yes Tel URI: Disabled SIP Registration: \bigcirc No Yes

Unregister On Reboot:	○ No Yes
Outgoing Call without Registration:	○ No • Yes
Register Expiration:	(in minutes. default 1 hour, max 45 days)
Reregister before Expiration:	0 (0-64800. Default 0 second)
SIP Registration Failure Retry Wait Time:	(in seconds. Between 1-3600, default is 20)
SIP Registration Failure Retry Wait Time upon 403 Forbidden:	(in seconds. Between 0-3600, default is 1200. 0 means stop retry registration upon 403 response.)
Enable SIP OPTIONS/NOTIFY Keep Alive:	• No OPTIONS ONOTIFY
SIP OPTIONS/NOTIFY Keep Alive Interval:	(in seconds. Between 1-64800, default is 30)
SIP OPTIONS/NOTIFY Keep Alive Max Lost:	(Number of max lost packets for SIP OPTIONS/NOTIFY Keep Alive before re-registration. Between 3-10, default is 3)
Layer 3 QoS:	SIP DSCP (Diff-Serv value in decimal, 0-63, default 26) RTP DSCP (Diff-Serv value in decimal, 0-63, default 46)
Local SIP Port:	(default is 5060 for UDP and TCP; 5061 for TLS)
Local RTP Port:	(even number between 1024-65535, default 5004)
Use Random SIP Port:	○ No Yes
Use Random RTP Port:	• No Yes
Enable RTCP:	○ No • Yes
Hold Target Before Refer:	O No O Yes
Refer-To Use Target Contact:	• No Yes
Transfer on Conference Hangup:	• No Yes
Remove OBP from Route Header:	○ No • Yes
Support SIP Instance ID:	○ No • Yes

Default No Yes						
Default No Yes						

DTMF Payload Type:	01							
Preferred DTMF method	riority 1: RFC2833 😊							
(in listed order):	riority 2: In-audio 😊							
Inband DTMF Duration:	Priority 3: In-audio In 40 2000 willian and a manage dynation. Too intended to the first of the second of the se							
	In 40-2000 milliseconds range, duration: 100 inter-duration: 50							
Disable DTMF Negotiation:	• No (negotiate with peer) Yes (use above DTMF order without negotiation)							
Generate Continuous RFC2833 Events:	No Yes (RFC2833 events are generated until key is released)							
Send Hook Flash Event:	No Yes (Hook Flash will be sent as a DTMF event if set to Yes)							
Flash Digit Control:	No Yes (Overrides the default settings for call control when both channels are in use	.)						
Callee Flash to 3WC:	No Yes							
Offhook Auto-Dial:	(User ID/extension to dial automatically when offhook)							
Offhook Auto-Dial Delay:	(0-60 seconds, default is 0)							
Proxy-Require:								
Use NAT IP:	(used in SIP/SDP message if specified)							
SIP User-Agent:								
SIP User-Agent Postfix:								
RFC2543 Hold:	No • Yes							
Disable Call-Waiting:	No Yes							
Disable Call-Waiting Caller ID:	No Yes							
Disable Call-Waiting Tone:	No Yes							
Disable Connected Line ID:	No Yes							
Disable Receiver Offhook Tone:	No Yes (ROH tone will not be played after offhook for 60 seconds)							
Disable Reminder Ring for On-Hold Call:	No Yes							
Disable Reminder Ring for DND:	No Yes							
Disable Visual MWI:	No Yes							
Visual MWI Type:	FSK NEON							

Do Not Escape '#' as %23 in SIP URI:	○ No
Disable Multiple m line in SDP:	○ No
Ring Timeout:	(0-300, default is 60 seconds, 0 means no timeout)
Delayed Call Forward Wait Time:	20 (Allowed range 1-120, in seconds.)
No Key Entry Timeout:	4 (1-15, default is 4 seconds)
Early Dial:	○ No Yes (use "Yes" only if proxy supports 484 response)
Dial Plan Prefix:	(this prefix string is added to each dialed number)
Use # as Dial Key:	○ No • Yes (if set to Yes, "#" will function as the "(Re-)Dial" key)
Disable # as Redial Key:	○ No Yes (if set to Yes, "#" will not function as ReDial key)
Dial Plan:	{ x+ \+x+ *x+ *xx*x+ }
SUBSCRIBE for MWI:	 No, do not send SUBSCRIBE for Message Waiting Indication Yes, send periodical SUBSCRIBE for Message Waiting Indication
Send Anonymous:	○ No Yes (caller ID will be blocked if set to Yes)
Anonymous Call Rejection:	○ No Yes
Special Feature:	Standard
Enable Session Timer:	O No O Yes
Session Expiration:	180 (90-64800. default 180 seconds)
Min-SE:	90 (90-64800. default 90 seconds)
Caller Request Timer:	○ No Yes (Request for timer when making outbound calls)
Callee Request Timer:	○ No Yes (When caller supports timer but did not request one)
Force Timer:	○ No
UAC Specify Refresher:	○ UAC ○ UAS • Omit (Recommended)
UAS Specify Refresher:	○ UAC ○ UAS (When UAC did not specify refresher tag)
Force INVITE:	○ No Yes (Always refresh with INVITE instead of UPDATE)
Enable 100rel:	○ No Yes
Add Auth Header On Initial REGISTER:	○ No Yes
Conference URI:	

Use First Matching Vocoder in 2000K SDP:	○ No • Yes						
Preferred Vocoder	choice 1: PCMU 😊						
(in listed order):	choice 2: PCMA 😊						
	choice 3: G723 🗘						
	choice 4: G729 ©						
	choice 5: G726-32 😌						
	choice 6: iLBC						
	choice 8: PCMU 💠						
Voice Frames per TX:	2						
G723 Rate:	• 6.3kbps encoding rate 5.3kbps encoding rate						
iLBC Frame Size:	• 20ms 30ms						
Disable OPUS Stereo in SDP:	○ No Yes (removes "/2" from offer)						
iLBC Payload Type:	(between 96 and 127, default is 97)						
OPUS Payload Type:	(between 96 and 127, default is 123)						
VAD:	• No Yes						
Symmetric RTP:	○ No Yes						
Fax Mode:	○ T.38 ○ Pass-Through						
Re-INVITE After Fax Tone Detected:	• Enabled O Disabled						
Jitter Buffer Type:	○ Fixed ○ Adaptive						
Jitter Buffer Length:	○ Low • Medium ○ High						
SRTP Mode:	 Disabled						
Crypto Life Time:	O Disabled • Enabled						
SLIC Setting:	UK						
Caller ID Scheme:	SIN 227 - BT						
DTMF Caller ID:	Start Tone Default Stop Tone Default						
Disable Unknown Caller	• No Yes						

ID:	
Replace Beginning '+' with 00 in Caller ID:	• No Yes
Polarity Reversal:	No ○ Yes (reverse polarity upon call establishment and termination)
Loop Current Disconnect:	No ○ Yes (loop current disconnect upon call termination)
Play busy/reorder tone before Loop Current Disconnect:	• No Yes (play busy/reorder tone before loop current disconnect upon call fail)
Loop Current Disconnect Duration:	(100 - 10000 milliseconds. Default 200 milliseconds)
Enable Pulse Dialing:	○ No Yes
Pulse Dialing Standard:	General Standard 💠
Enable Hook Flash:	○ No • Yes
Hook Flash Timing:	In 40-2000 milliseconds range, minimum: 300 maximum: 1100
On Hook Timing:	(In 40-2000 milliseconds range, default is 400)
Gain:	TX -2dB
Disable Line Echo Canceller (LEC):	• No Yes
Disable Network Echo Suppressor:	• No Yes
Outgoing Call Duration Limit:	0 (0-180 minutes, default is 0 (No Limit))
Ring Frequency:	20Hz default 😊
Enable High Ring Power:	No ○ Yes
RFC2833 Events Count:	8 (between 2 and 10, default is 8)
RFC2833 End Events Count:	3 (between 2 and 10, default is 3)
Distinctive Ring Tone:	Ring Tone 1 used if incoming caller ID is Ring Tone 1 used if incoming caller ID is used if incoming caller ID is used if incoming caller ID is
	(Syntax: c=on1/off1-on2/off2-on3/off3;)
Ring Tone 1:	c=2000/4000;

Ring Tone 2:	c=2000/4000;				
Ring Tone 3:	c=2000/4000;				
Ring Tone 4:	c=2000/4000;				
Ring Tone 5:	c=2000/4000;				
Ring Tone 6:	c=2000/4000;				
Ring Tone 7:	c=2000/4000;				
Ring Tone 8:	c=2000/4000;				
Ring Tone 9:	c=2000/4000;				
Ring Tone 10:	c=2000/4000;				
Distinctive Call Waiting	Call Waiting Tone 1 used if incoming caller ID is				
Tone:	Call Waiting Tone 1 used if incoming caller ID is				
•	Call Waiting Tone 1 used if incoming caller ID is				
	Syntax: f1=val[, f2=val[, c=on1/off1[-on2/off2[-on3/off3]]]; Frequencies are in (300, 3400) Hz and cadence on and off are in (0, 64000) ms)				
Call Waiting Tone 1:	f1=440@-13,c=300/10000;				
Call Waiting Tone 2:	f1=440@-13,c=300/10000;				
Call Waiting Tone 3:	f1=440@-13,c=300/10000;				
Call Waiting Tone 4:	f1=440@-13,c=300/10000;				
Call Waiting Tone 5:	f1=440@-13,c=300/10000;				
Call Waiting Tone 6:	f1=440@-13,c=300/10000;				
Call Waiting Tone 7:	f1=440@-13,c=300/10000;				
Call Waiting Tone 8:	f1=440@-13,c=300/10000;				
Call Waiting Tone 9:	f1=440@-13,c=300/10000;				
Call Waiting Tone 10:	f1=440@-13,c=300/10000;				
Call Features Settings					
Enable Call Features:					
	When enabled, Do No Disturb, Call Forward and other call features can be used via the local feature				
	codes on the phone. Otherwise, the ITSP feature codes will be used. Enable All will override all ndividual features enable setting.)				
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Reset Call Features:	No	O Yes		
SRTP Feature:	O No	Yes		
Enable SRTP:	16]		
Disable SRTP:	17	ĺ		
		-		
SRTP per call Feature:	O No	Yes		
Enable SRTP per call:				
Disable SRTP per call:]		
CID Feature:	O No	Yes		
Enable CID:	31]		
Disable CID:	30			
CID per call Feature:	O No	Yes		
Enable CID per call:	82			
Disable CID per call:	67			
Direct IP Calling Feature:	O No	Yes		
Direct IP Calling:	47			
CW Feature:	O No	Yes		
Enable CW:	51			
Disable CW:	50			
CW 11 F				
CW per call Feature:		• Yes		
Enable CW per call:				
Disable CW per call:	70			
Call Return Feature:	O No	• Yes		

Call Return:	69			
Unconditional Forward Feature:	O No	• Yes		
Enable Unconditional Forward:	72			
Disable Unconditional Forward:	73			
Busy Forward Feature:	O No	• Yes		
Enable Busy Forward:	90			
Disable Busy Forward:	91			
Delayed Forward Feature:	O No	• Yes		
Enable Delayed Forward:	92			
Disable Delayed Forward:	93			
Paging Feature:	O No	Yes		
Paging:	74			
DND Feature:	O No	Yes		
Enable DND:	78			
Disable DND:	79			
Blind Transfer Feature:	O No	Yes		
Enable Blind Transfer:	87			
Disable LEC per call Feature:	O No	• Yes		
Disable LEC per call:	03			

Disable Bellcore Style 3- Way Conference:	O No	○ Yes			
Star Code 3WC Feature:	O No	Yes			
Star Code 3WC:	23				
Forced Codec Feature:	O No	Yes			
Forced Codec:	02				
PCMU Codec Feature:	O No	Yes			
PCMU Codec:	7110				
PCMA Codec Feature:	O No	Yes			
PCMA Codec:	7111				
G723 Codec Feature:	O No	Yes			
G723 Codec:	723				
G729 Codec Feature:	O No	Yes			
<i>G729 Codec:</i>	729				
iLBC Codec Feature:	O No	Yes			
iLBC Codec:	7201				
G722 Codec Feature:	O No	Yes			
G722 Codec:	722				
		Update Apply Cancel Reboot			
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