Grandstream Device Configuration

Account Active: ○ No ● Yes

Primary SIP Server: `sipgate.co.uk` (e.g., sip.mycompany.com, or IP address)

Failover SIP Server: `                   ` (Optional, used when primary server no response)

Prefer Primary SIP Server: ● No ○ Yes (yes - will register to Primary Server if Failover registration expires)

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 Proxy: ● No ○ Yes (yes - will reregister via Primary Outbound Proxy if registration expires)

SIP Transport: ● UDP ○ TCP ○ TLS (default is UDP)

SIP URI Scheme When Using TLS: ○ sip ● sips

Use Actual Ephemeral Port in Contact with TCP/TLS: ● No ○ Yes

NAT Traversal: ● No ○ Keep-Alive ○ STUN ○ UPnP

SIP User ID: `2975509e0` (the user part of an SIP address)

Authenticate ID: `2975509e0` (can be identical to or different from **SIP User ID**)

Authenticate Password: `                   ` (purposely not displayed for security protection)

Name: `John Newcombe` (optional, e.g., John Doe)

DNS Mode: ● A Record ○ SRV ○ NAPTR/SRV

DNS SRV use Registered IP: ● No ○ Yes

Tel URI: [Disabled ⇅]

SIP Registration: ○ No ● Yes

Unregister On Reboot: ● No ○ Yes

Outgoing Call without ○ No ● Yes

Registration:

Register Expiration: `10` (in minutes. default 1 hour, max 45 days)

Reregister before Expiration: `0` (0-64800. Default 0 second)

SIP Registration Failure Retry Wait Time: `20` (in seconds. Between 1-3600, default is 20)

SIP Registration Failure Retry Wait Time upon 403 Forbidden: `1200` (in seconds. Between 0-3600, default is 1200. 0 means stop retry registration upon 403 response.)

Enable SIP OPTIONS/NOTIFY Keep Alive: ● No ○ OPTIONS ○ NOTIFY

SIP OPTIONS/NOTIFY Keep Alive Interval: `30` (in seconds. Between 1-64800, default is 30)

SIP OPTIONS/NOTIFY Keep Alive Max Lost: `3` (Number of max lost packets for SIP OPTIONS/NOTIFY Keep Alive before re-registration. Between 3-10, default is 3)

Layer 3 QoS: `26` SIP DSCP (Diff-Serv value in decimal, 0-63, default 26)
`46` RTP DSCP (Diff-Serv value in decimal, 0-63, default 46)

Local SIP Port: `44260` (default 5062)

Local RTP Port: `44204` (even number between 1024-65535, default 5012)

Use Random SIP Port: ● No ○ Yes

Use Random RTP Port: ● No ○ Yes

Enable RTCP: ○ No ● Yes

Hold Target Before Refer: ○ No ● 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

Validate Incoming SIP Message: ● No ○ Yes

Check SIP User ID for incoming INVITE:	● No ○ Yes (no direct IP calling if Yes)
Authenticate incoming INVITE:	● No ○ Yes
Authenticate server certificate domain:	● No ○ Yes
Authenticate server certificate chain:	● No ○ Yes
Trusted CA certificates:	
Allow Incoming SIP Messages from SIP Proxy Only:	● No ○ Yes (no direct IP calling if Yes)
Use Privacy Header:	● Default ○ No ○ Yes
Use P-Preferred-Identity Header:	● Default ○ No ○ Yes
Use P-Access-Network-Info Header:	○ No ● Yes
Use P-Emergency-Info Header:	○ No ● Yes
SIP REGISTER Contact Header Uses:	● LAN Address ○ WAN Address
Caller ID Fetch Order:	● Auto ○ Disabled ○ From Header
Allow SIP Factory Reset:	● No ○ Yes
SIP T1 Timeout:	0.5 sec
SIP T2 Interval:	4 sec
SIP Timer D:	0 (0 - 64 seconds. Default 0)
DTMF Payload Type:	101
Preferred DTMF method	Priority 1: RFC2833

(in listed order):	Priority 2:	In-audio ⇕
	Priority 3:	In-audio ⇕

Inband DTMF Duration: 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   (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   ○ Yes

Disable Multiple m line in SDP:	● No ○ Yes
Ring Timeout:	`60` (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:	○ No ● 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 ○ Yes (Use timer even when remote party does not support)
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	○ No ● Yes

Vocoder in 200OK SDP:

Preferred Vocoder (in listed order):

choice 1: [PCMU ⇕]
choice 2: [PCMA ⇕]
choice 3: [G723 ⇕]
choice 4: [G729 ⇕]
choice 5: [G726-32 ⇕]
choice 6: [iLBC ⇕]
choice 7: [OPUS ⇕]
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: [97] (between 96 and 127, default is 97)

OPUS Payload Type: [123] (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   ○ Disabled

Jitter Buffer Type: ○ Fixed   ● Adaptive

Jitter Buffer Length: ○ Low   ● Medium   ○ High

SRTP Mode: ● Disabled   ○ Enabled but not forced   ○ Enabled and forced

Crypto Life Time: ○ Disabled   ● Enabled

SLIC Setting: [UK ⇕]

Caller ID Scheme: [SIN 227 - BT ⇕]

DTMF Caller ID: *Start Tone* [Default ⇕] *Stop Tone* [Default ⇕]

Disable Unknown Caller ID: ● No   ○ Yes

Replace Beginning '+' with ● No   ○ Yes

00 in Caller ID:		
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: `200` (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: `400` (In 40-2000 milliseconds range, default is 400)

Gain: TX [-2dB ⇕] RX [-8dB ⇕]

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 [   ]
[Ring Tone 1 ⇕] used if incoming caller ID is [   ]

Ring Tones (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 Tone:

Call Waiting Tone 1 ⬍   used if incoming caller ID is [   ]
Call Waiting Tone 1 ⬍   used if incoming caller ID is [   ]
Call Waiting Tone 1 ⬍   used if incoming caller ID is [   ]

Call Waiting Tones   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: ○ No   ● Yes   ○ Enable All
(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 individual features enable setting.)

Reset Call Features: ● No   ○ Yes

```
-----------------------
```

SRTP Feature: ◯ No ● Yes

Enable SRTP: `16`

Disable SRTP: `17`

```
-----------------------
```

SRTP per call Feature: ◯ No ● Yes

Enable SRTP per call: `18`

Disable SRTP per call: `19`

```
-----------------------
```

CID Feature: ◯ No ● Yes

Enable CID: `31`

Disable CID: `30`

```
-----------------------
```

CID per call Feature: ◯ No ● Yes

Enable CID per call: `82`

Disable CID per call: `67`

```
-----------------------
```

Direct IP Calling Feature: ◯ No ● Yes

Direct IP Calling: `47`

```
-----------------------
```

CW Feature: ◯ No ● Yes

Enable CW: `51`

Disable CW: `50`

```
-----------------------
```

CW per call Feature: ◯ No ● Yes

Enable CW per call: `71`

Disable CW per call: `70`

```
-----------------------
```

Call Return Feature: ◯ No ● Yes

Call Return: `69`

```
-----------------------
```

Unconditional Forward Feature: ○ No ⦿ Yes

Enable Unconditional Forward: `72`

Disable Unconditional Forward: `73`

```
-----------------------
```

Busy Forward Feature: ○ No ⦿ Yes

Enable Busy Forward: `90`

Disable Busy Forward: `91`

```
-----------------------
```

Delayed Forward Feature: ○ No ⦿ Yes

Enable Delayed Forward: `92`

Disable Delayed Forward: `93`

```
-----------------------
```

Paging Feature: ○ No ⦿ Yes

Paging: `74`

```
-----------------------
```

DND Feature: ○ No ⦿ Yes

Enable DND: `78`

Disable DND: `79`

```
-----------------------
```

Blind Transfer Feature: ○ No ⦿ Yes

Enable Blind Transfer: `87`

```
-----------------------
```

Disable LEC per call Feature: ○ No ⦿ Yes

Disable LEC per call: `03`

```
-----------------------
```

Disable Bellcore Style 3-Way Conference: ⦿ No ○ Yes

Star Code 3WC Feature:	○ No	● Yes	
Star Code 3WC:	23		

Forced Codec Feature:	○ No	● Yes	
Forced Codec:	02		
PCMU Codec Feature:	○ No	● Yes	
PCMU Codec:	7110		
PCMA Codec Feature:	○ No	● Yes	
PCMA Codec:	7111		
G723 Codec Feature:	○ No	● Yes	
G723 Codec:	723		
G729 Codec Feature:	○ No	● Yes	
G729 Codec:	729		
iLBC Codec Feature:	○ No	● Yes	
iLBC Codec:	7201		
G722 Codec Feature:	○ No	● Yes	
G722 Codec:	722		

[Update] [Apply] [Cancel] [Reboot]