

Grandstream Device Configuration

STATUS BASIC SETTINGS ADVANCED SETTINGS FXS PORT1 FXS PORT2

Account Active: No Yes

Primary SIP Server: (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: (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)

Allow DHCP Option 120 (override SIP server): No Yes

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: (the user part of an SIP address)

Authenticate ID: (can be identical to or different from SIP User ID)

Authenticate Password: (purposely not displayed for security protection)

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

DNS Mode: A Record SRV NAPTR/SRV

DNS SRV use Registered IP: No Yes

Tel URI: ▾

SIP Registration: No Yes

Unregister On Reboot: No Yes

Outgoing Call without Registration: No Yes

Register Expiration:	<input type="text" value="60"/>	(in minutes. default 1 hour, max 45 days)
Reregister before Expiration:	<input type="text" value="0"/>	(0-64800. Default 0 second)
SIP Registration Failure Retry Wait Time:	<input type="text" value="20"/>	(in seconds. Between 1-3600, default is 20)
SIP Registration Failure Retry Wait Time upon 403 Forbidden:	<input type="text" value="1200"/>	(in seconds. Between 0-3600, default is 1200. 0 means stop retry registration upon 403 response.)
Enable SIP OPTIONS Keep Alive:	<input checked="" type="radio"/> No <input type="radio"/> Yes	
SIP OPTIONS Keep Alive Interval:	<input type="text" value="30"/>	(in seconds. Between 1-64800, default is 30)
SIP OPTIONS Keep Alive Max Lost:	<input type="text" value="3"/>	(Number of max lost packets for SIP OPTIONS Keep Alive before re-registration. Between 3-10, default is 3)
Layer 3 QoS:	<input type="text" value="26"/>	SIP DSCP (Diff-Serv value in decimal, 0-63, default 26)
	<input type="text" value="46"/>	RTP DSCP (Diff-Serv value in decimal, 0-63, default 46)
Local SIP Port:	<input type="text" value="5060"/>	(default is 5060 for UDP and TCP; 5061 for TLS)
Local RTP Port:	<input type="text" value="5004"/>	(even number between 1024-65535, default 5004)
Use Random SIP Port:	<input checked="" type="radio"/> No <input type="radio"/> Yes	
Use Random RTP Port:	<input checked="" type="radio"/> No <input type="radio"/> Yes	
Enable RTCP:	<input type="radio"/> No <input checked="" type="radio"/> Yes	
Hold Target Before Refer:	<input type="radio"/> No <input checked="" type="radio"/> Yes	
Refer-To Use Target Contact:	<input checked="" type="radio"/> No <input type="radio"/> Yes	
Transfer on Conference Hangup:	<input checked="" type="radio"/> No <input type="radio"/> Yes	
Disable Bellcore Style 3-Way Conference:	<input checked="" type="radio"/> No <input type="radio"/> Yes	(Using star code *23 for 3-way conference)
Remove OBP from Route Header:	<input checked="" type="radio"/> No <input type="radio"/> Yes	
Support SIP Instance ID:	<input type="radio"/> No <input checked="" type="radio"/> Yes	
Validate Incoming SIP Message:	<input checked="" type="radio"/> No <input type="radio"/> Yes	
Check SIP User ID for incoming INVITE:	<input checked="" type="radio"/> No <input type="radio"/> Yes	(no direct IP calling if Yes)
Authenticate incoming INVITE:	<input checked="" type="radio"/> No <input type="radio"/> Yes	
Authenticate server certificate domain:	<input checked="" type="radio"/> No <input type="radio"/> Yes	
Authenticate server certificate chain:	<input checked="" type="radio"/> No <input type="radio"/> 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

SIP REGISTER Contact Header Uses:

LAN Address WAN Address

Caller ID Fetch Order:

Auto Disabled From Header

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 (in listed order):

Priority 1: RFC2833 ▼

Priority 2: SIP INFO ▼

Priority 3: In-audio ▼

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.)

Enable Call Features:

No Yes (if Yes, call features using star codes will be supported locally)

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)

Use SIP User-Agent Header:

Ring Tone 1 ▼

used if incoming caller ID is

Distinctive Ring Tone:

Ring Tone 1 used if incoming caller ID is

Ring Tone 1 used if incoming caller ID is

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 Visual MWI: No Yes

Do Not Escape '#' as %23 in SIP URI: No Yes

Disable Multiple m line in SDP: No Yes

Ring Timeout: (10-300, default is 60 seconds)

Delayed Call Forward Wait Time: (Allowed range 1-120, in seconds.)

No Key Entry Timeout: (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)

Dial Plan:

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:

Enable Session Timer: No Yes

Session Expiration: (90-64800. default 180 seconds)

Min-SE: (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 Vocoder in 200OK SDP: No Yes

Preferred Vocoder (in listed order):

choice 1:	<input type="text" value="G729"/>
choice 2:	<input type="text" value="iLBC"/>
choice 3:	<input type="text" value="OPUS"/>
choice 4:	<input type="text" value="G729"/>
choice 5:	<input type="text" value="G726-32"/>
choice 6:	<input type="text" value="iLBC"/>
choice 7:	<input type="text" value="OPUS"/>

Voice Frames per TX:

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 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:

Caller ID Scheme:

DTMF Caller ID: Start Tone Stop Tone

Polarity Reversal: No Yes (reverse polarity upon call establishment and termination)

Loop Current Disconnect: No Yes (loop current disconnect upon call termination)

Loop Current Disconnect Duration: (100 - 10000 milliseconds. Default 200 milliseconds)

Enable Pulse Dialing: No Yes

Enable Hook Flash: No Yes

Hook Flash Timing: In 40-2000 milliseconds range, minimum: maximum:

On Hook Timing: (In 40-2000 milliseconds range, default is 400)

Gain: TX RX

Disable Line Echo Canceller (LEC): No Yes

Disable Network Echo Suppressor: No Yes

Outgoing Call Duration Limit: (0-180 minutes, default is 0 (No Limit))

Ring Frequency: (15-60 Hz, default is 20 Hz)

Enable High Ring Power: No Yes

Ring Tones (Syntax: c=on1/off1-on2/off2-on3/off3;)

Ring Tone 1:

Ring Tone 2:

Ring Tone 3:

Ring Tone 4:

Ring Tone 5:

Ring Tone 6:

Ring Tone 7:

Ring Tone 8:

Ring Tone 9:

Ring Tone 10: