Tijdhof Consulting Technotes

Configuratie van de Grandstream BudgeTone BT101 en BT102 IP Phone

Tijdhof Consulting - 1 februari 2006



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Voorafgaand aan de configuratie

- Deze manual is bedoeld voor de BudgeTone BT101 en BT102. Het verschil tussen deze modellen is dat model BT101 één ethernetpoort heeft, en dat model BT102 twee ethernetpoorten heeft (t.b.v. aansluiting bij een netwerkapparaat).
- 2. Sluit de Grandstream BudgeTone BT101/BT102 IP-telefoon aan op uw netwerk door een vrije ethernetpoort van uw router¹ te gebruiken. Ook kunt u de ethernetkabel van uw computer aansluiten op PC-poort van de Grandstream BudgeTone. Via de LAN-poort van de Grandstream verbindt u vervolgens uw computer met internet. De Grandstream fungeert dan als router; zowel uw computer als uw Grandstream telefoon zijn met internet verbonden.
- 3. Sluit de meegeleverde stroomadapter van de BudgeTone aan op de telefoon en op het stroomnet. De BudgeTone start nu op. Om de telefoon te configureren dient u de configuratiepagina van de BudgeTone te openen. Dit kan via uw internetbrowser. Het IP-adres waarop de configuratiepagina kan worden gevonden, vindt u als volgt:
 - zet de telefoon op speaker-stand
 - druk op button [menu]
 - het IP-adres wordt nu in het display getoond.

Het IP-adres van de BudgeTone kunt u via de configuratiepagina desgewenst vast instellen.

4. Open de browser op uw computer en ga naar het getoonde IP-adres. Gebruik als wachtwoord [admin]; ook dit kunt u via de configuratiepagina wijzigen, wij raden u aan dit ook te doen.

STATUS BASIC SETTINGS ADVANCED SETTINGS

5. De configuratiepagina van de BudgeTone verschijnt, bestaande uit de volgende tabbladen:

Status	Statusgegevens van de telefoon en uw VoIP-accounts	
Basic settings	Basisinstellingen voor de IP-telefoon	
Advanced settings	VoIP-account-instellingen voor de IP-telefoon	

- 6. In principe zijn de standaard-instellingen van de telefoon geschikt voor direct gebruik tenzij uw netwerkstructuur een wijziging vereist; u kunt gelijk uw VoIP-accounts configureren en direct bellen. Sommige VoIP-diensten vereisen enige aanpassing van de standaardconfiguratie. Details worden hieronder besproken en met schermprints geïllustreerd.
- 7. Na het configureren en na iedere wijziging van de BudgeTone configuratiepagina (ongeacht welk tabblad) klikt u altijd op [update] gevolgd door [reboot]. De telefoon wordt opnieuw gestart om de gewijzigde gegevens van kracht te laten worden.

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¹ TIP: gebruik bij voorkeur een router die QoS biedt om uw gesprekskwaliteit te optimaliseren.

Configuratie van een BudgetPhone VolP-account

VoIP-aanbieder Budgetphone biedt haar VoIP-diensten aan op prepaid- of abonnementsbasis. Een Budgetphone VoIP Account Card biedt u een telefoonnummer waarmee u via VoIP bereikbaar bent en de dienst Voicemail-2-Email (u ontvangt voicemailberichten als geluidsbestand op uw emailadres). Uw VoIP-telefoonnummer heeft de structuur van een normaal telefoonnummer. Het netnummer kunt u zelf uitkiezen bij het activeren van uw account. Het abonneenummer begint met 711 (bv. : 010 – 711 01 50). De BudgetPhone Account Card is één jaar geldig; het nummer kan daarna desgewenst worden verlengd.

Om een BudgetPhone VoIP-account te configureren, dient u uw BudgetPhone telefoonnummer en -wachtwoord bij de hand te hebben. Sluit de BudgeTone IP Phone aan zoals beschreven op pagina 2, open de Grandstream configuratiepagina en open het tabblad van de gewenste account:

Account active	Vink aan : yes
SIP server	Budgetphone.nl
Outbound Proxy	sip.budgetphone.nl
SIP User ID	31 + netnummer + telefoonnummer (bv. 31717110300)
Authenticate ID	31 + netnummer + telefoonnummer (bv. 31717110300)
Authenticate password	Uw BudgetPhone account password

T3

Met deze instellingen is uw Budgetphone-VoIP-account geconfigureerd. Sluit af met [Update] en [Reboot] om de wijzigingen te activeren.

Daarnaast kunt u overwegen om de CODECs voor uw gesprekken via BudgetPhone aan te passen voor een optimale gesprekskwaliteit. Deze instellingen vindt u Advanced Settings bij de Advanced Options. In onze tests bleken onderstaande instellingen tot het meest optimale resultaat te leiden; deze instellingen hanteren wij voor alle VoIP-accounts op alle Grandstream VoIP-apparatuur:

Preferred Vocoder: (in listed order)	choice 1: choice 2: choice 3:	PCMU Y PCMA Y PCMU Y	choice 5: choice 6: choice 7:	PCMU PCMU PCMU	> > >
(in listed order)	choice 3: choice 4:	PCMU Y	choice 8:	PCMU	~

Op de volgende pagina vindt u een configuratiepagina ingevuld met Budgetphone VoIP-accountgegevens.

CODECs zijn compressie- en decompressietools om de spraaksignalen zo compact mogelijk te kunnen verzenden.

Achtergrandinformatie over CODECs vindt u bij opzo VoIP technotes:

Achtergrondinformatie over CODECs vindt u bij onze VoIP technotes: www.tijdhof.com/technotes.php.

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www.tijdhof.n	IIIGeII

	Grandstream Device Configuration
	STATUS BASIC SETTINGS ADVANCED SETTINGS
Admin Password:	(purposely not displayed for security protection)
SIP Server:	budgetphone.nl (e.g., sip mycompany com, or TP address)
Outbound Proxy:	sip.budgetphone.nl (e.g., proxy.myprovider.com, or IP address, if any)
SIP User ID:	gebruikersnaam (the user part of an SIP address)
Authenticate ID:	gebruikersnaam (can be identical to or different from SIP User ID)
Authenticate Password:	(purposely not displayed for security protection)
Name:	Tijdhof Consulting (optional, e.g., John Doe)
Advanced Options:	
Preferred Vocoder: (in listed order)	choicc 1: current satting is" PCMU"
(in tibled or der)	choice 2: current setting is "FCMA" choice 3: current setting is "FCMU"
	choice 4: current setting is " FCMU" >
	choice 5: current satting is " FCMU"
	choice 5: eurrent satting is " PCMU"
	choice 7: current satting is " FCMU" choice 8: current satting is " FCMU"
G723 rate:	6.3kbps encoding rate 5.3kbps encoding rate
iLBC frame size:	© 20ms 30ms
iJBC payload type:	97 (between 96 and 127, default is 97)
Silence Suppression:	No Yes
Voice Frames per IX:	2 (up to 10/20/32/64 for G711/G726/G723/other codecs respectively)
Layer 3 QoS:	(Diff-Serv or Precedence value)
Layer 2 OoS:	802.1Q/VLAN Tag 0 802.1p priority value 0 (0-7)
Use DNS SRV:	No ○ Yes Suz.1p priority value (0-7)
User ID is phone number:	No O Yes
SIP Registration:	⊚ Yes ○ No
Unregister On Reboot:	○ Yes ● No
Register Expiration:	60 (in minutes, default 1 hour, max 45 days)
Early Dial:	No Yes (use "Yes" only if proxy supports 484 response)
Dial Plan Prefix:	(this prefix string is added to each dialed number)
No Key Entry Timeout:	4 (in seconds, default is 4 seconds)
Use # as D:al Key:	○ No • Yes (if set to Yes, "#" will function as the "(Re-)Dizl" key)
local SIP port:	5000 (default 5060)
local RTP port:	5004 (1024-65535, default 5004)
Use random port:	⊙ No ○ Yes
NAT Traversal:	○ No
keep-alive interval:	(in seconds, default 20 seconds)
Use NATIP	(if specified, this IP address is used in SIP/SDP message)
Proxy-Require:	(if specified, the content will appear in Proxy-Require header)
Firmware Upgrade:	
	○ Viz HTTP Server fm.grandstream.com/gs
	Automatic HTTP Upgrade. O No Yes, check for upgrade every 7 days (default 7 days)
Voice Mail UserID:	
SUBSCRIBE for MWI:	(User ID/extension for 3rd party voice mail system) No, do not staid SUBSCRIBE for Message Waiting Indication
SSSCREED JOI MINT.	Yes, send periodical SUBSCRIBE for Message Waiting Indication
Auto Answer:	⊕No OYcı
Offhook Auto-Dial:	(User ID/extension to dial automatically when offhook)
Enable Call Features:	○ No ● Yes (if Yes, Call Forwarding & Call-Waiting-Disable are supported locally)
Disable Call-Waiting:	⊙ No O Yes
Send DTMF:	⊙ in-audio ○ via RTP (RFC2833) ○ via SIP INFO
DIMF Payload Type:	101
Send Flash Event:	No ○ Yes (Flash will be sent as a DTMF event if set to Yes)
NTP Server:	(URI or IP address)
	6 system ring tone
Default Ring Tone:	Custom ring tone 1, used if incoming caller ID is Custom ring tone 2, used if incoming caller ID is
	Custom ring tone 3, used if incoming caller ID is
Send Anonymous:	No ○ Yes (caller ID will be blocked if set to Yes)
Lock keypad update:	No ○ Yes (configuration update via keypad is disabled if set to Yes)
Syslog Server.	
Syslog Level:	current setting is "NONE" 😕
	Update Cancei Reboot
	All Rights Reserved Grandstream Networks, Inc. 2005

OVERZICHT CONFIGURATIE BUDGETPHONE VOIP-ACCOUNT

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1 februari 2006

Configuratie van een Voipbuster Vol P-account

Een Voipbuster-VoIP-account kunt u gratis aanvragen op www.Voipbuster.com en bestaat uit een gebruikersnaam en wachtwoord. U krijgt hiervoor de mogelijkheid om uit te bellen. Het verkrijgen van een nummer voor VoIPbuster is helaas gelimiteerd mogelijk. Met uw Voipbuster accountgegevens en de standaard server- en identificatiegegevens van Voipbuster kunt u een VoIP-gateway of IP-telefoon in enkele seconden configureren.

Sluit de BudgeTone Ip Phone aan zoals beschreven op pagina 2, open de Grandstream configuratiepagina en open het tabblad van de gewenste account:

Account active	Vink aan: yes
SIP server	sip1.voipbuster.com (N.B.; adres wordt regelmatig gewijzigd - check het juiste adres op www.voipbuster.com)
Outbound Proxy	[laat dit veld leeg]
SIP User ID	uw voipbuster gebruikersnaam
Authenticate ID	uw voipbuster gebruikersnaam
Authenticate password	Uw voipbuster password
NAT-Traversal (STUN)	Vink aan: yes

Met deze instellingen is uw Voipbuster-VoIP-account geconfigureerd. Sluit af met [Update] en [Reboot] om de wijzigingen te activeren.

Daarnaast raden wij u aan om een STUN-server in te stellen voor het gebruik van Voipbuster. Om dit in te stellen logt u opnieuw in op de Grandstream. Dit keer gaat u naar tabblad Advanced Settings. Het veld STUN-server vult u als volgt in:

	The state of the s	
STUN server:	stun.voipbuster.com	(URI or IP.port)

Verder kunt u overwegen om de CODECs voor uw gesprekken via BudgetPhone aan te passen voor een optimale gesprekskwaliteit. Deze instellingen vindt u op pagina Advanced Settings bij de Advanced Options. In onze tests bleken onderstaande instellingen tot het meest optimale resultaat te leiden; deze instellingen hanteren wij voor alle VoIP-accounts op alle Grandstream VoIP-apparatuur:

Preferred Vocoder: (in listed order)	choice 1: choice 2: choice 3: choice 4:	PCMU PCMA PCMU PCMU	* * *	choice 5: choice 6: choice 7: choice 8:	PCMU PCMU PCMU PCMU	> > >
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Op de volgende pagina vindt u een configuratiepagina ingevuld met Voipbuster VoIP-accountgegevens.

STUN (Simple Traversal of UDP over NATs) is een netwerkprotocol dat ervoor zorgt dat uw VoIP-data wordt gefaciliteerd in het vinden van de juiste route in het netwerk indien daarin routers met NAT worden gebruikt. CODECs zijn compressie- en decompressietools om de spraaksignalen zo compact mogelijk te kunnen verzenden.

 $\textit{Meer informatie over CODECs vindt u bij onze VoIP technotes: } \underline{\textit{www.tijdhof.com/technotes.php}}.$

TG

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N.B.:

het SIP-servera dres van

Voipbuster is momenteel sip1.voipbuster.com

Dit adres is onderhevig aan veranderingen. Ondervindt u problemen, vraag dan de juiste sip-server instelling na

bij Voipbuster.

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Authenticate ID Authenticate Passworth Name Tythol Consulting (copional, e.g., John Doc) Abounced Options: Tythol Consulting Abounced Options: Proferred Focadar: (in) Basis divides choice 3: choice 1: choice 4: choice 3: choice 4: choice 4: choice 4: choice 5: choice 6: choice 6	•	
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Content Cont	r cuite.	(Optional, e.g., John Doc)
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local SIP port. 5060 (default 5060) local KIP port. 5004 (1024-65535, default 5004) Use random port. No Yes Yes, STUN server is stunvoipouster.com (URI or IP-port) keep-alive interval: 20 (in seconds, default 20 seconds) Usa NAT IP (if specified, this IP address is used in SIP/SDP message) Proxy-Require: (if specified, the content will appear in Proxy-Require header) Firmware Upgrade: (via TYTP Server 168 75 215 189 Via HTTP Server (in grandsheam con/lys Automatic HTTP Upgrade: No (User ID/extension for 3rd party voice mail system) SUBSCRIBE for MWI: (See and periodical SUBSCRIBE for Message Waiting Indication Yes, send periodical SUBSCRIBE for Message Waiting Indication Ves and periodical SUBSCRIBE for Message Waiting Indication Ves and periodical SUBSCRIBE for Message Waiting Indication Ves and periodical SUBSCRIBE for Message Waiting Indication Ves send periodical SUBSCRIBE for Message Wait		
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MAT Inversal. Ves, STUN server is: stanvoipouster.com (URI or IPport) keep-alive interval. Usa NAT IP Proxy-Require: (if specified, this IP address is used in SIP/SDP message) (if specified, the content will appear in Proxy-Require header) Firmware Upgrade: Via TFIP Server 168 75 215 189 Via HTIP Server Integral/Stream cont/ys Automatic HTIP Upgrade No Ves, check for upgrade every days (default 7 days) Voice Meil User/ID: (User ID/extension for 3rd party voice mail system) SUBSCRIBE for MWI: No, do not send SUBSCRIBE for Message Waiting Indication Yes, send periodical SUBSCRIBE for Message Waiting Indication Yes and SUBSCRIBE for Message Waiting Indication Yes, send periodical SUBSCRIBE for Message Waiting Indication Yes (all Periodical SUBSCRIBE		
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Use NATIP (if specified, this IP address is used in SIP/SDP message) Proxy-Require:		
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Firmware Upgrade: ○ Via HTTP Server ○ Via HTTP Server Image and Subsequence of the great o	Usa NAT IP	(if specified, this IP address is used in SIP/SDP message)
O Via HTTP Server Integrands tream configs Automatic HTTP Upgrade: O No ● Yes, check for upgrade every 7 days (default 7 days) Voice Mail UserID: SUBSCRIBE for MWI: O No, do not send SUBSCRIBE for Message Waiting Indication O Yes, send periodical SUBSCRIBE for Message Waiting Indication Auto Answer: O No ● Yes (If Yes, Cell Forwarding & Call Waiting Disable are supported locally) Brable Call-Waiting: O No ● Yes (If Yes, Cell Forwarding & Call Waiting Disable are supported locally) Disable Call-Waiting: O No ● Yes (If Yes, Cell Forwarding & Call Waiting Disable are supported locally) Disable Call-Waiting: O No ● Yes (Flash will be sent as a DTMF event if set to Yes) International Type: International Type: O No ● Yes (Flash will be sent as a DTMF event if set to Yes) International Type: O Castona ring tone 1, used if incoming caller ID is O Castona ring tone 2, used if incoming caller ID is O Castona ring tone 3, used if incoming caller ID is Send Anonymous: O No ● Yes (caller ID will be blocked if set to Yes) Lock kaypad update: Syslog Server: Syslog Level: Current setting is "NONE" ▼	Proxy-Require:	(if specified, the content will appear in Proxy-Require header)
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O No ② Yes, check for upgrade every 7 days (default 7 days) Voice Mail UserID: (User ID/extension for 3rd party voice mail system) SUBSCRIBE for MWI: ② No, do not send SUBSCRIBE for Message Waiting Indication O Yes, send periodical SUBSCRIBE for Message Waiting Indication Auto Answer: ② No ② Yes Offhook Auto-Dial: (User ID/extension to dial automatically when offhook) Enable Call Features: ③ No ③ Yes (if Yes, Call Forwarding & Call Waiting Disable are supported locally) Disable Call-Waiting: ③ No ③ Yes Send DTMF: ③ in-audio ○ via RTP (RFC2833) ○ via SIP INFO DTMF Payload Type: Send Flash Event: ③ No ③ Yes (Flash will be sent as a DTMF event if set to Yes) Immenist gov (URI or IP address) ② system sing tone 1, used if incoming caller ID is ○ castom ring tone 2, used if incoming caller ID is ○ castom ring tone 3, used if incoming caller ID is Send Anonymous: ③ No ③ Yes (caller ID will be blocked if set to Yes) Lock kaypad updata: ⑤ No ③ Yes (configuration update via keypad is disabled if set to Yes) Current setting is "NONE" ▼		
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Disable Call-Waiting: Send DTMF. Send DTMF. On o Yes (in-arctio o via RTP (RFC2833)) ovia SIP INFO DTMF Payload Type: Send Flash Event: NTP Server: On o Yes (Flash will be sent as a DTMF event if set to Yes) time nist gov (URI or IP address) System ring tone Custom ring tone 1, used if incoming caller ID is custom ring tone 2, used if incoming caller ID is Castom ring tone 3, used if incoming caller ID is Send Anonymous: No Yes (caller ID will be blocked if set to Yes) Lock kaypad updata: Syslog Server: Syslog Level: Current setting is "NONE"		
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DIMF Payload Type: Send Flack Event: No Yes (Flask will be sent as a DIMF event if set to Yes) NIP Server: time nist gov (URI or IP address) system ring tone castom ring tone 1, used if incoming caller ID is castom ring tone 2, used if incoming caller ID is castom ring tone 3, used if incoming caller ID is Send Anonymous: No Yes (caller ID will be blocked if set to Yes) Lock kaypad update: No Yes (configuration update via keypad is disabled if set to Yes) Syslog Server: Syslog Level: Current setting is "NONE"		
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NTP Server: time nist gov (URI or IP address) • system ring tone • caston ring tone 1, used if incoming caller ID is • caston ring tone 2, used if incoming caller ID is • caston ring tone 3, used if incoming caller ID is Send Anonymous: • No • Yes (caller ID will be blocked if set to Yes) Lock kaypad updata: • No • Yes (configuration update via keypad is disabled if set to Yes) Syslog Server: Syslog Level: current setting is "NONE"		
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Default Ring Tone: Castons ring tone 1, used if incoming caller ID is Castons ring tone 2, used if incoming caller ID is Castons ring tone 3, used if incoming caller ID is Send Anonymous: No Yes (caller ID will be blocked if set to Yes) Lock kaypad updata: Syslog Server: Syslog Level: Current setting is "NONE"	121 00 (0)	
Custom ring tone 2, used if incoming caller ID is custom ring tone 3, used if incoming caller ID is Send Anonymous. No Yes (caller ID will be blocked if set to Yes) Lock kaypad updata. No Yes (configuration update via keypad is disabled if set to Yes) Syslog Servar: Syslog Level: current setting is "NONE"	Defined Poor To	
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Syslog Server: Syslog Level: current setting is "NONE"		
Syslog Level: current setting is "NONE"		via keypad is disabled if set to Tes)
		curent setting is "NONE" 🔻
Update Cancel Reboot	system teres.	

OVERZICHT CONFIGURATIE VOIPBUSTER VOIP-ACCOUNT

Telefoon 050 526 49 33 | Fax 050 526 49 63 | info@tijdhof.nl | www.tijdhof.nl

Schermprints van de configuratiebladen van de BudgeTone IP Phone

Grandstream Device Configuration			
STA	TUS BASIC SETTINGS ADVANCED SETTINGS		
MAC Address:	00.0B.82.04.8C.10		
WAN IP Address:	10.0.0.100		
Product Model:	BT100		
Software Version:	Program 1.0.6.7 Bootloader 1.0.1.0 HTML 1.0.0.49 VOC 1.0.1.0		
System Up Time:	0 day(s) 0 hour(s) 3 minute(s)		
Registered:	Yes		
PPPoE Link Up:	disabled		
	detected NAT type is symmetric NAT		
NAT Mapped IP:			
NAT Mapped Port:			
Total Inbound Calls:			
Total Outbound Calls:			
Total Missed Calls:			
Total Call Time (in minutes):			
Total SIP Message Sent:			
Total SIP Message Received:			
Total RTP Packet Sent:			
Total RTP Packet Received:			
Total RTP Packet Loss:	U		
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STATUSPAGINA BUDGETONE BT101/BT102 IP PHONE

Grandstream Device Configuration		
	STATUS BASIC SETTINGS ADVANCED SETTINGS	
End User Password:	(purposely not displayed for security protection)	
IP Address:	O dynamically assigned via DHCP (default) or PPPoE	
	(will attempt PPPoE if DHCP fails and following is non-blank)	
	PPPoE account ID:	
	PPPoE password:	
	Preferred DNS server: 0 .0 .0 .0	
	statically configured as:	
	IP Address: 10 .0 .0 .100	
	Subnet Mask: 255 , 255 , 0	
	Default Router: 10 0 140	
	DNS Server 1: 10 .0 .140	
	DNS Server 2: 0 ,0 ,0 ,0	
Time Zone:	GMT+1:00 (Paris, Amsterdam, Berlin, Rome, Vienna, Madrid, Warsaw, Brussels)	
Daylight Savings Time:	○ No • Yes (if set to Yes, display time will be 1 hour ahead of normal time)	
Date Display Format:	○ Year-Month-Day○ Month-Day-Year⊙ Day-Month-Year	
	Update Cancel Reboot All Rights Reserved Grandstresm Networks, Inc. 2005	

BASIC SETTINGS PAGINA BUDGETONE BT102 IP PHONE > ALLEEN DE BT102 HEEFT TWEE LAN-POORTEN EN EEN ROUTERFUNCTIE.

Pagina 7/8 1 februari 2006

Deze informatie werd u aangeboden door:

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