Konfiguration des Grandstream HT 286 zur Anbindung der SIEDLE DCA 612-0

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Konfiguration des Asterisk-Servers

Diese Dokumentation beschreibt die Anbindung der Wechselsprechanlage SIEDLE DCA 612-0 an den Asterisk-Server. Die DCA 612-0 verfügt über einen analogen Ausgang (Western Stecker) und kann darüber an einen Analog-IP-Konverter angeschlossen werden. Zum Einsatz kam in diesem Projekt ein Grandstream HT 286, da dieser den erforderlichen Port bietet und relativ preiswert ist.
Auf dem Asterisk Server ist für den HT 286 ein SIP-Account anzulegen, damit er sich am Asterisk-Server anmelden kann:

/etc/asterisk/sip.conf

```
[Tuer]
type=friend
callerid="Tuer" <181>
host=dynamic
username=Tuer
secret=Tuer181
context=tuer
```

Der in der sip.conf definierte Kontext tuer muß auch in der extensions.conf aufgeführt sein:

/etc/asterisk/extensions.conf

```
[tuer]
    exten => s,1,DIAL(SIP/Zentrale,30,tr)
    exten => s,2,HANGUP()
```

Klingelt es an der Tür, kann die Verbindung zur DCA über eine der Tasten 0-9 hergestellt werden.
Das Öffnen der Tür erfolgt durch die Eingabe von #61, nachdem man zuvor die Verbindung mit einer der Tasten 0-9 hergestellt hat.

Die Konfiguration des HT 286 kann den Bildschirmphotos auf den folgenden Seiten entnommen werden.

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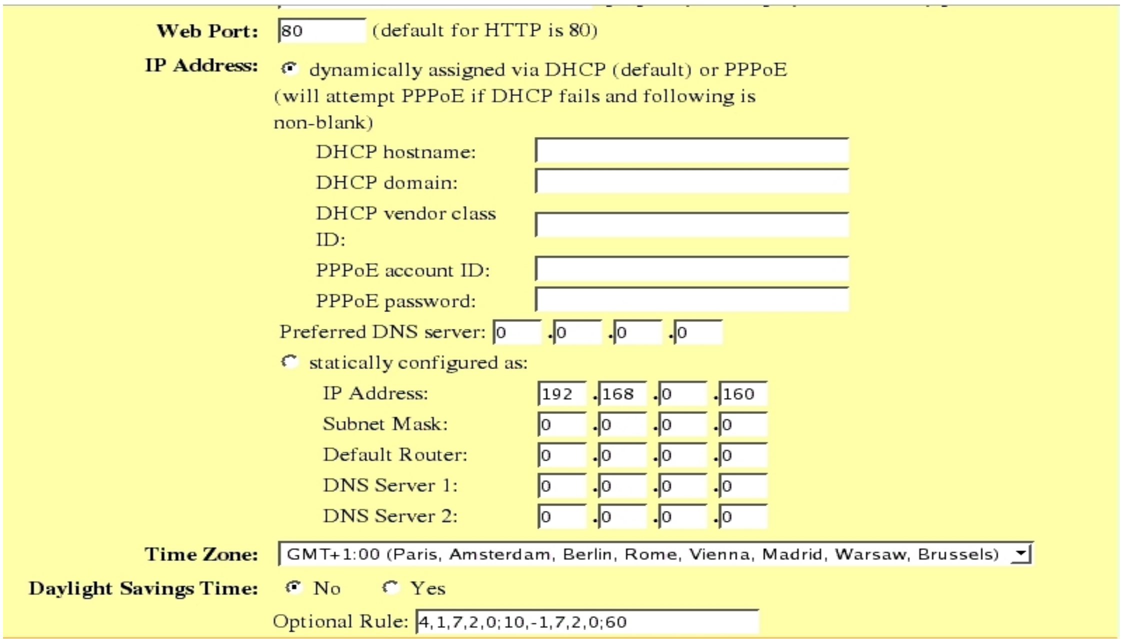
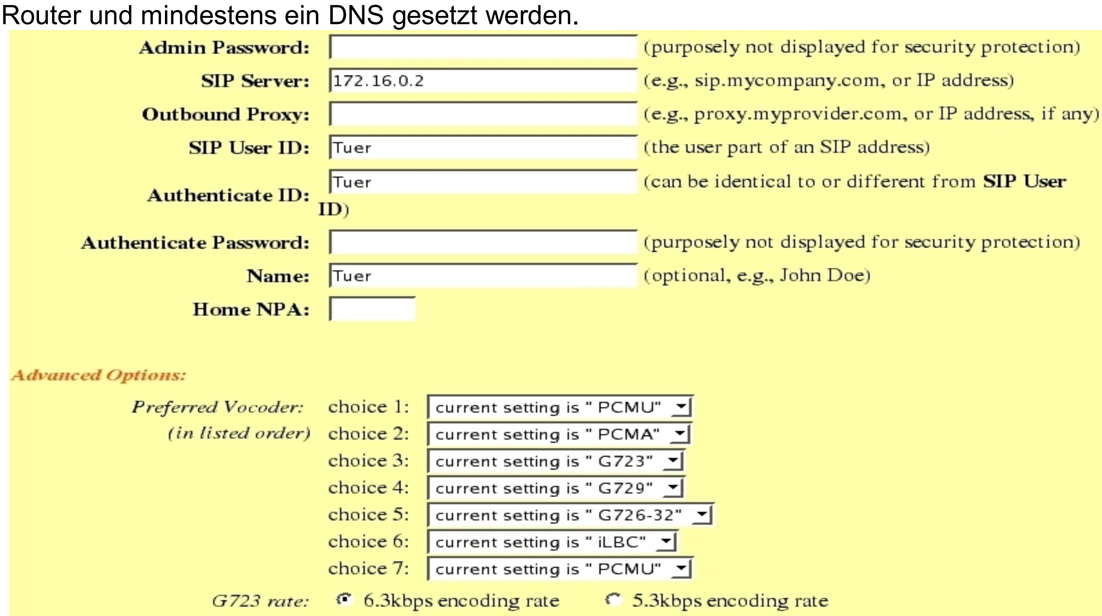


Ist im lokalen Netzwerk kein DHCP-Server im Einsatz, müssen die IP-Adresse, die Subnetz-Maske, der Default Router und mindestens ein DNS gesetzt werden.



Die Adresse des SIP-Servers muß entsprechend angepaßt werden.

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iLBC frame size:	(•) 20ms ( ) 30ms
iLBC payload type:	[97] (between 96 and 127, default is 97)
Silence Suppression:	(•) No ( ) Yes
Voice Frames per TX:	[2] (up to 10/20/32/64 for G711/G726/G723/other codecs respectively)
Fax Mode:	( ) T.38 (Auto Detect) (•) Pass-Through
Layer 3 QoS:	[48] (Diff-Serv or Precedence value)
Layer 2 QoS:	802.1Q/VLAN Tag [0] 802.1p priority value [0] (0-7)
Allow incoming SIP messages from SIP proxy only:	(•) No ( ) Yes
Use DNS SRV:	(•) No ( ) Yes
User ID is phone number:	(•) No ( ) Yes
SIP Registration:	(•) Yes ( ) No
Unregister On Reboot:	( ) Yes (•) No
Register Expiration:	[3600] (in seconds. default 1 hour, max 45 days)
Early Dial:	(•) No ( ) Yes (use "Yes" only if proxy supports 484 response)
Allow outgoing call without Registration:	(•) No ( ) Yes
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 Dial Key:	( ) No (•) Yes (if set to Yes, "#" will function as the Dial key)

local SIP port:	[5060] (default 5060)
local RTP port:	[5004] (1024-65535, default 5004)
Use random port:	(•) No ( ) Yes
NAT Traversal:	( ) No (•) Yes, STUN server is: [ ] (URI or IP:port)
keep-alive interval:	[20] (in seconds, default 20 seconds)
Use NAT IP	[ ] (used in SIP/SDP message if specified)
Proxy-Require:	[ ]
SUBSCRIBE for MWI:	(•) No, do not send SUBSCRIBE for Message Waiting Indication ( ) Yes, send periodical SUBSCRIBE for Message Waiting Indication
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)
Use Bell-style 3-way Conference:	(•) No ( ) Yes (if Yes, *23 will be disabled)
Disable Call-Waiting:	(•) No ( ) Yes
Send DTMF:	[ ] in-audio [x] via RTP (RFC2833) [ ] via SIP INFO
DTMF Payload Type:	[101]
Send Flash Event:	(•) No ( ) Yes (Flash will be sent as a DTMF event if set to Yes)
Onhook Threshold:	[800 ms]

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FXS Impedance:	CTR21 (270 Ohm + 750 Ohm||150nF)
Caller ID Scheme:	ETSI-FSK (France, Germany, Norway, Taiwan, UK-CCA)
Onhook Voltage:	36V
Polarity Reversal:	(•) No ( ) Yes (reverse polarity upon call establishment and termination)
NTP Server:	ptbtime1.ptb.de (URI or IP address)
Send Anonymous:	(•) No ( ) Yes (caller ID will be blocked if set to Yes)
Anonymous Method:	(•) Use From Header ( ) Use Privacy Header
Time to ring:	60 seconds
Special Feature:	Standard
Syslog Server:	
Syslog Level:	NONE
Session Expiration:	180 (in seconds. default 180 seconds)
Min-SE:	90 (in seconds. default and minimum 90 seconds)
Caller Request Timer:	( ) Yes (•) No (Request for timer when making outbound calls)
Callee Request Timer:	( ) Yes (•) No (When caller supports timer but did not request one)
Force Timer:	( ) Yes (•) No (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:	( ) Yes (•) No (Always refresh with INVITE instead of UPDATE)
Firmware Upgrade and	Upgrade Via ( ) TFTP (•) HTTP

Betreibt man einen lokalen Zeitserver, kann statt der ptbtime1.ptb.de auch dieser gesetzt werden.

Provisioning:	Firmware Server Path: fm.grandstream.com/gs Config Server Path: fm.grandstream.com/gs Firmware File Prefix: ___ Firmware File Postfix: ___ Config File Prefix: ___ Config File Postfix: ___ Automatic Upgrade: (•) No ( ) Yes, check for upgrade every 10080 minutes (default 7 days) (•) Always Check for New Firmware ( ) Check New Firmware only when F/W pre/suffix changes ( ) Always Skip the Firmware Check
Firmware Key:	(in Hexadecimal Representation)
Authenticate Conf File:	(•) No ( ) Yes (cfg file would be authenticated before acceptance if set to Yes)
Lock keypad update:	(•) No ( ) Yes (configuration update via keypad is disabled if set to Yes)
Allow conf SIP Account in Basic Settings:	(•) No ( ) Yes
Override MTU Size:	0
Volume Amplification:	*TX* 0dB default *RX* 0dB default
Call Progress Tones:	

	Frequency 1 (Hz)	Frequency 2 (Hz)	ON (x10ms) (C1;C2;C3)	OFF (x10ms) (C1;C2;C3)
Dial Tone	350	440	0	0

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Volume Amplification: *TX* 0dB default *RX* 0dB default

Call Progress Tones:

	Frequency 1 (Hz)	Frequency 2 (Hz)	ON (x10ms) (C1;C2;C3)	OFF (x10ms) (C1;C2;C3)
Dial Tone	350	440	0	0
Recall Dial Tone	350	440	10	10
Message Waiting	350	440	10	10
Confirmation	350	440	10	10
Audible Ringing	440	480	200	400
Busy Tone	480	620	50	50
Reorder Tone	480	620	25	25
Receiver Offhook Tone	1400	2600	10	10

Links

Grandstream HT 286: http://grandstream.com/ht286.html

SIEDLE: http://www.siedle.de/

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