



# **BroadSoft Partner Configuration Guide**

Grandstream HT286/386/486/488/496 Analog Telephone Adapter & BT100 SIP Phone

> October 2007 Document Version 1.2

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# **BroadWorks<sup>®</sup> Guide**

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# **Document Revision History**

Version	Reason for Change
1.1	Introduced document for HT496 version 1.0.3.96 validation with BroadWorks R14.SP2
1.2	Added HT286/386/486/488/BT-100 models.

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# **Table of Contents**

1	Ov	rerview	5
2	Bro	oadWorks Validation Package Support Level	6
3	De	vice Capabilities and Known Interoperability Issues	7
	3.1 3.2	Capabilities Interoperability Issues	
4	Bro	oadWorks Device Identity/Profile	10
5	Bro	oadWorks Device Type	12
6	Со	onfiguration	13
	6.1	System Level Configuration	14
	6.2	Subscriber Level Configuration Parameters	15
7	En	hanced IP Phone Configuration	16
Appendix A: Sample HT-286 / HT-386 / HT-486 / HT-488 / HT-496 / BT-100 Configuration Files17			
	opend	lix A: Sample H1-286 / H1-386 / H1-486 / H1-488 / H1-496 / B1-100 Configuration F	lies1/
A	•	lix A: Sample H1-286 / H1-386 / H1-486 / H1-488 / H1-496 / B1-100 Configuration F lix B: BroadWorks Validation Package Test Items	



#### 1 Overview

This document describes the configuration procedures required for a Grandstream HT-286 / HT-386 / HT-486 / HT-488 / HT-496 / BT-100 to make full use of the capabilities of BroadWorks.

The HT-286 / HT-386 / HT-486 / HT-488 / HT-496 / BT-100 is one of the many access devices that interoperate with BroadWorks.

The HT-286 / HT-386 / HT-486 / HT-488 / HT-496 / BT-100 uses the Session Initiation Protocol (SIP) to communicate with BroadWorks for call control. It also translates voice to audio packets for transmission across a packet network.

This guide describes the specific configuration items that are important for use with BroadWorks. It does not describe the purpose and use of all configuration items on the HT-286 / HT-386 / HT-486 / HT-488 / HT-496 / BT-100. For those details, see the HT-286 / HT-386 / HT-486 / HT-488 / HT-496 / BT-100 *User Manual* supplied by Grandstream Error! Reference source not found.



# 2 BroadWorks Validation Package Support Level

Devices are validated according to *BroadWorks Validation Packages*. Each package validates a subset of features or items. This section describes the device's support level for a *BroadWorks Validation Package* as well as the features or items in the package that are not supported. For specific issues, see section 3.2 *Interoperability Issues*. For a complete list of items validated per package, see *Appendix B: BroadWorks Validation Package Test Items*.

BroadWorks Package	Support Level	Items Not Supported
Basic Call	Full	
BroadWorks Enhanced Services	Partial	Ring Splash
		Priority Alerting
		Priority Call Waiting
		Alternate Numbers
		Advanced Call Control
DUT Services – Call Control	Partial	Network Conference 3-Way
		Network Conference N-Way
DUT Services – Registration and Authentication	Partial	BroadWorks Authentication
DUT Services – FAX	Full	
DUT Services – Busy Lamp Field	None	
Redundancy	Partial	Call Setup Failover
		Mid-Call Failover
SBC/ALG	Full	
Shared Call Appearance	None	
Feature Key Synchronization	None	
Video	None	
TCP	None	



# 3 Device Capabilities and Known Interoperability Issues

This section describes the features supported by the HT-286 / HT-386 / HT-486 / HT-488 / HT-496 / BT-100, as well as BroadWorks interoperability issues and impact. The following table describes capabilities.

*Verified Revisions* shows the results of partner (vendor) testing of a specific BroadWorks version with a specific partner's device under test (DUT) version.

*Compatible Revisions* indicates the maintenance versions that should interface properly with BroadWorks.

#### 3.1 Capabilities

Device Type	SIP ATA
Lines and Appearances	HT-286: 1 line 1 appearance per line
	HT-386: 2 lines 1 appearance per line
	HT-486: 1 line 1 appearance per line
	HT-486: 1 line 1 appearance per line
	HT-496: 2 lines 1 appearance per line
	BT-100: 1 line 1 appearance per line
Speaker/Power/Bridge	HT-286: No/No/Yes
	HT-386: No/No/Yes
	HT-486: No/No/Yes
	HT-488: No/No/Yes
	HT-496: No/No/Yes
	BT-100: Yes/No/Yes
	Indicates speaker phone, in-line power, device bridge/conference.
Verified Revisions	BroadWorks Release: 14.SP2
	Grandstream HT-286: 1.1.0.8
	Grandstream HT-386: 1.0.3.96
	Grandstream HT-486: 1.1.0.8
	Grandstream HT-488: 1.0.3.96
	Grandstream HT-496: 1.0.3.96
	Grandstream BT-100: 1.1.0.8
Compatible Revisions	BroadWorks Release: 14.SP2
	Grandstream HT-286: any maintenance version of 1.1.0.8
	Grandstream HT-386: any maintenance version of 1.0.3.96
	Grandstream HT-486: any maintenance version of 1.1.0.8
	Grandstream HT-488: any maintenance version of 1.0.3.96
	Grandstream HT496: any maintenance version of

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	1.0.3.96
	Grandstream BT-100: any maintenance version of 1.1.0.8
SIP Proxy FQDN DNS Lookup	A, SRV
(A, SRV, NAPTR)	
Outbound Proxy Configurable	Yes
Outbound Proxy FQDN DNS Lookup	A, SRV
(A, SRV, NAPTR)	
BroadWorks Redundancy Enabled	No
BroadWorks Shared Call Appearance	N/A
BroadWorks Enhanced IP Phone Configuration	No
Device Services	Call Forwarding, Call Transfer, 3-Way Conference, Call Waiting, Call Hold
Device Call Control	Device-Controlled
(Device-Controlled or Flash INFO- based)	
Codecs	PCMU, PCMA, G723.1 G729A/B, iLBC, G726-32
RFC 2833 DTMF	Yes
T.38 Fax	Yes
ТСР	No
TLS	No



# 3.2 Interoperability Issues

This section lists the known interoperability issues between BroadWorks and partner release(s). For more information on issues related to the particular software release, see the partner release notes.

None.

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# 4 BroadWorks Device Identity/Profile

BroadWorks configurable device identify/profile is introduced in BroadWorks Release 14.0. This section applies only to BroadWorks Release 14.0 and later.

The following table identifies the required BroadWorks device identity/profile settings for interoperability between the HT496 and BroadWorks. For an explanation of the profile parameters, refer to the *BroadWorks Device Inventory Guide* [4].

For most of the parameters below, an "X" indicates the parameter function is supported and/or required. If the item is blank, it is not supported.

#### Grandstream HT-286 / HT-386 / HT-486 / HT-488 / HT-496 / BT-100 Identify/Device Profile

•	
Signaling Address Type	Intelligent Proxy Addressing
Number of Lines	HT-286/HT-486/BT-100: 1 line HT-386/HT-488/HT-496: 2 lines
Ringback Tone/ Early Media Support	Local Ringback – No Early Media
Authentication	Enabled
Registration Capable	X
Static Registration Capable	
E.164 Capable	
Trusted	
Authenticate REFER	X
Authentication Override	
Video Capable	
RFC 3264 Hold	X
Route Advance	
Wireless Integration	
PBX Integration	
Use Business Trunking Contact	
Forwarding Override	
Conference Device	
Music On Hold Device	
Auto Configuration Soft Client	
Web Based Configuration URL	http://:%BWIPADDRESS%
Auto Configuration Type	2 Config File
Reset Event	checkSync
Enable Monitoring	
CPE System File Name	ataSystem.txt/bt100System.txt

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**Device File Format** 

%BWMACADDRESS%.txt

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# 5 BroadWorks Device Type

#### This section applies to BroadWorks Release 13.0 and before.

The following BroadWorks device type should be used for Grandstream HT-286 / HT-386 / HT-486 / HT-488 / HT-496 / BT-100.

- Grandstream HT-286
- Grandstream HT-386
- Grandstream HT-486
- Grandstream HT-488
- Grandstream HT-496
- Grandstream BT-100

The above device types require BroadWorks Release 13 MP<patch number>. If the BroadWorks system is currently at a lower patch level, either apply the necessary patch or use the following generic device type until the system can be patched accordingly.

Generic SIP Smart (Proxy Addr)



# 6 Configuration

Grandstream HT-286 / HT-386 / HT-486 / HT-488 / HT-496 / BT-100 can be configured via Web GUI Interface as well as via Configuration File through TFTP or HTTP.

The HT-286 / HT-386 / HT-486 / HT-488 / HT-496 / BT-100 accepts configuration files in a proprietary binary format which is produced by the Grandstream configuration tool. The configuration tool creates a device configuration file based on a configuration template and the device's MAC address. All Grandstream products' sample configuration templates are available on Grandstream's web site. A configuration template file contains all configuration parameters available for a product, with comments describing allowed values of the parameters. For a detailed parameter list, please refer to the corresponding firmware release configuration template [2].

When Grandstream device boots up or reboots, it will issue request for a binary configuration file named "cfgxxxxxxxx", where "xxxxxxxxx" is the MAC address of the device, i.e., "cfg000b820102ab". The configuration file name should be in lower cases.

Grandstream offers free Configuration File generator software in both Linux/Unix and Windows platform. Both Configuration File Generators can be downloaded from Grandstream official web site at <a href="http://www.grandstream.com/configurationtool.html">http://www.grandstream.com/configurationtool.html</a> [2].

The HT-286 / HT-386 / HT-486 / HT-488 / HT-496 / BT-100 can be configured with a configuration file using the Trivial File Transfer Protocol (TFTP) or through its embedded web server. The following examples describe how to set the parameters using a configuration file. This configuration description assumes the HT-286 / HT-386 / HT-486 / HT-488 / HT-496 / BT-100 will use the Dynamic Host Configuration Protocol (DHCP) to obtain an IP address and other network settings. The HT-286 / HT-386 / HT-486 / HT-488 / HT-496 / BT-100 should be configured to load the configuration file each time it resets or re-synchronizes. For detailed information on automated provisioning, please check the *HT-286 / HT-386 / HT-486 / HT-488 / HT-496 / BT-100 User Manual* Error! Reference source not found.

The capabilities of the HT-286 / HT-386 / HT-486 / HT-488 / HT-496 / BT-100 have been verified for use with BroadWorks based on the settings described in the following table. For more information on the meaning, purpose, and applicability of the individual configuration items, see the *HT-286 / HT-386 / HT-486 / HT-488 / HT-496 / BT-100 configuration template* [2].

#### **Configuration Files**

Files Provided by Partner	Level	Description
HT-286 / HT-386 / HT-486 / HT-488 / HT- 496 / BT-100 Configuration Template Example: sipp1_config_1.1.0.8.txt sipp2_config_1.0.3.96.txt	System and Subscriber	Contains configurable parameters that apply to an individual device in a deployment.
cfgMAC Example: cfg000b82000000	System and Subscriber	Binary configuration file generated from configuration template and an individual device's MAC address.

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## 6.1 System Level Configuration

This section describes system-wide configuration items that are generally required for each HT-286 / HT-386 / HT-486 / HT-488 / HT-496 / BT-100 to work with BroadWorks. Subscriber-specific settings are described in the next section.

#### {THIS IS JUST AN EXAMPLE AND IS NOT INTENDED AS A COMPLETE OR SUFFICIENT TABLE OF PARAMETERS. EACH DEVICE WILL VARY AND MAY BE COMPLETELY DIFFERENT. IF YOUR DEVICE DOES NOT SUPPORT CONFIG FILES USE GUI CAPTURES OR OTHER METHODS TO DESCRIBE THE CONFIGURATION.}

Step	Command	Purpose	
System Configuration Items			
Step 1	Set SIP Proxy/Domain. sipProxy = as.broadworks.net	Set the HT-286 / HT-386 / HT- 486 / HT-488 / HT-496 / BT-100 SIP server to the Fully Qualified Domain Name (FQDN) for the BroadWorks Application Server cluster. The domain must match the domain configured for the BroadWorks subscriber's	
Step 2	<pre>Set Outbound Proxy. outBoundProxy = sbc.broadworks.net</pre>	line/port domain. Set the outbound proxy to the session border controller (SBC) if one is deployed between the HT-286 / HT-386 / HT-486 / HT- 488 / HT-496 / BT-100 and BroadWorks. If there are redundant SBCs, set it to the FQDN for the SBC cluster.	
Step 3	Enable DNS SRV lookup. Use_DNS_SRV = "Yes" ;	Enable DNS SRV lookups.	
Step 4	Set register mode. SIP Registration = "Yes"	Enable SIP register.	
Step 5	Set SIP Timers. Register Expiration = 60	The default registration period is 60 minutes.	
Step 6	Enable negotiated DTMF type. Send DTMF = "via RTP (RFC2833)"	Set the HT-286 / HT-386 / HT- 486 / HT-488 / HT-496 / BT-100 to enable inband or RFC 2833 negotiated DTMF.	
Step 7	Disable local feature code services. Enable Call Features = "No"	Disable feature access codes controlled by the device.	
Step 8	Enable BroadSoft mode. Special Feature = "Broadsoft"	Set the HT-286 / HT-386 / HT- 486 / HT-488 / HT-496 / BT-100 in BroadSoft mode.	

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## 6.2 Subscriber Level Configuration Parameters

This section identifies the device-specific parameters, including registration and authentication. These settings must be unique across devices in order to be matched with the settings for a BroadWorks subscriber.

Provisioning a subscriber to register with BroadWorks allows calls to terminate to the subscriber's line. Registration requires that a unique address of record (AoR) is provisioned on BroadWorks and the phone; provisioning an AoR on BroadWorks consists of setting the line/port parameter to a unique value within the Application Server cluster.

Grandstream HT-286 / HT-386 / HT-486 / HT-488 / HT-496 / BT-100 supports one SIP accounts (lines), two SIP accounts, one SIP account, two SIP accounts, two SIP accounts, and 1 SIP account, respectively. The follow example shows how to configure subscriber elements for an account.

Step	Command	Purpose		
Subscriber Co	Subscriber Configuration Items			
Step 1	<pre>Set Register User ID for each line. Example: SIP User_ID = "2405551111" ;</pre>	The register user ID must correspond with the line/port setting on BroadWorks.		
Step 2	<pre>Enable SIP Authentication for each line. Example: Authenticate ID = "1111@as.mycompany.com" ; Authenticate Password = "welcome" ;</pre>	If the Authentication service is configured on BroadWorks, these parameters must be configured to match the BroadWorks settings.		
Step 3	Configure display name for each line. Example: Name = "Claire Smith" ;	For each line, configure the name to be displayed on the device.		



# 7 Enhanced IP Phone Configuration

Enhanced IP Phone Configuration is a BroadWorks feature that enables automatic generation of device configuration files, given administrator-supplied templates.

For more information on the Enhanced IP Phone Configuration feature, see the Enhanced IP Phone Configuration Guide [3].

The HT-286 / HT-386 / HT-486 / HT-488 / HT-496 / BT-100 uses only a phone-specific file to configure the device. However, the Enhanced IP Phone Configuration feature requires a system and a phone-specific file for each device. To satisfy the system file requirement, an empty file (*ataDefault.txt, bt100Desfult.txt*) will need to be uploaded to BroadWorks as the system file. This file will be sent to the FTP server but will not actually be used for the configuration file generation. The group template file is used to build the configuration files for the devices of this device type assigned to the group. For a sample HT-286 / HT-386 / HT-486 / HT-488 / HT-496 / BT-100 group template file, see Appendix A.

**NOTE**: BroadSoft does not manage or distribute template files for use with the Enhanced IP Phone Configuration feature. Obtain template files from Grandstream or use the configuration files obtained from Grandstream for the specific Grandstream firmware release to create template files appropriate for your installation.

Since HT-286 / HT-386 / HT-486 / HT-488 / HT-496 / BT-100 require the configuration files be converted into a binary format, an extra step must be performed when using this feature. After the configuration files have been sent to the TFTP server and before the phone is reset, the configuration files must be converted to binary format using Grandstream's configuration tool. For detailed information on automated provisioning, please check the Grandstream configuration tool user guide [2].



# Appendix A: Sample HT-286 / HT-386 / HT-486 / HT-488 / HT-496 / BT-100 Configuration Files

**NOTE**: The following samples are examples and should be used as a reference only. DO NOT CUT AND PASTE THESE EXAMPLES TO GENERATE YOUR CONFIGURATION FILES. Use the configuration files obtained from Grandstream with the specific release to generate your configuration files.

#### System Default Parameters:

NOTE: This is an example file and should be used for reference only.

```
# SIP Default Generic Configuration File
****
# Account 1
# HT-286 / HT-486 / BT-100 supports Account 1 only #
*******
# SIP Server
P47 = as.broadworks.net
# Outbound Proxy
P48 = sbc.broadworks.net
# Use DNS SRV. 0 - no, 1 - yes.
P103 = 1
# SIP Registration. 0 - no, 1 - yes
P31 = 1
# Register Expiration (in minutes. default 1 hour, max 45 days)
P32 = 60
# Send DTMF. 8 - in audio, 1 - via RTP, 2 - via SIP INFO
# 11 - In Audio & RTP & SIP INFO, 9 - In Audio & RTP
# 10 - IN Audio & SIP INFO, 3 - RTP & SIP INFO
P73 = 1
# Enable Call Features. 0 - no, 1 - yes
P191 = 0
# Special Feature. 102 - BroadSoft
P198 = 102
****
# Account 2
                                         #
#
                                         #
*******
# SIP Server
P747 = as.broadworks.net
```

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```
# Outbound Proxy
P748 = sbc.broadworks.net
# Use DNS SRV. 0 - no, 1 - yes.
P702 = 1
# SIP Registration. 0 - no, 1 - yes
P731 = 1
# Register Expiration (in minutes. default 1 hour, max 45 days)
P732 = 60
# Send DTMF. 8 - in audio, 1 - via RTP, 2 - via SIP INFO
# 11 - In Audio & RTP & SIP INFO, 9 - In Audio & RTP
# 10 - IN Audio & SIP INFO, 3 - RTP & SIP INFO
P773 = 1
# Enable Call Features. 0 - no, 1 - yes
P751 = 0
# Special Feature. 102 - BroadSoft
P767 = 102
```

**Phone-Specific Parameters:** 

NOTE: This is an example file and should be used for reference only.

```
# SIP Device-specific Configuration File
*****
# Account 1
                                 #
# HT-286 / HT-486 / BT-100 supports Account 1 only #
****
# SIP User ID
P35 = 2405551111
# Authenticate ID
P36 = 1111@as.mycompany.com
# Authenticate password
P34 = welcome
# Display Name
P3 = Claire Smith
*****
# Account 2
                                 #
                                 #
#
*****
# SIP User ID
P735 =
# Authenticate ID
P736 =
```

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```
# Authenticate Password
P734 =
# Display Name
P703 =
```

#### Group Template File: ATA-GroupTemplate.txt /BT100- GroupTemplate.txt

NOTE: This is an example file and should be used for reference only.

```
****
# SIP Default Generic Configuration Parameters
                                     #
****
*****
# Account 1
                                     #
# HT-286 / HT-486 / BT-100 supports Account 1 only #
****
# SIP Server
P47 = as.broadworks.net
# Outbound Proxy
P48 = sbc.broadworks.net
\# Use DNS SRV. 0 - no, 1 - yes.
P103 = 1
# SIP Registration. 0 - no, 1 - yes
P31 = 1
# Register Expiration (in minutes. default 1 hour, max 45 days)
P32 = 60
# Send DTMF. 8 - in audio, 1 - via RTP, 2 - via SIP INFO
# 11 - In Audio & RTP & SIP INFO, 9 - In Audio & RTP
# 10 - IN Audio & SIP INFO, 3 - RTP & SIP INFO
P73 = 1
# Enable Call Features. 0 - no, 1 - yes
P191 = 0
# Special Feature. 102 - BroadSoft
P198 = 102
****
                                     #
# Account 2
#
                                     #
*****
# SIP Server
P747 = as.broadworks.net
# Outbound Proxy
```

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```
P748 = sbc.broadworks.net
# Use DNS SRV. 0 - no, 1 - yes.
P702 = 1
# SIP Registration. 0 - no, 1 - yes
P731 = 1
# Register Expiration (in minutes. default 1 hour, max 45 days)
P732 = 60
# Send DTMF. 8 - in audio, 1 - via RTP, 2 - via SIP INFO
# 11 - In Audio & RTP & SIP INFO, 9 - In Audio & RTP
# 10 - IN Audio & SIP INFO, 3 - RTP & SIP INFO
P773 = 1
# Enable Call Features. 0 - no, 1 - yes
P751 = 0
# Special Feature. 102 - BroadSoft
P767 = 102
*******
# SIP Device-specific Configuration Parameters
                                        #
******
****
# Account 1
                                        #
# HT-286 / HT-486 / BT-100 supports Account 1 only #
****
# SIP User ID
P35 = %BWLINEPORT-1%
# Authenticate ID
P36 = %BWAUTHUSER-1%
# Authenticate password
P34 = %BWAUTHPASSWORD-1%
# Display Name (John Doe)
P3 = %BWCLID-1%
****
# Account 2
                                        #
#
                                        #
*****
# SIP User ID
P735 = %BWLINEPORT-2%
# Authenticate ID
P736 = %BWAUTHUSER-2%
# Authenticate Password
P734 = %BWAUTHPASSWORD-2%
# Display Name (John Doe)
P703 = %BWCLID-2%
```



# Appendix B: BroadWorks Validation Package Test Items

BroadWorks Validation Package	Items Supported	
Basic Call	Basic Call Origination / Termination	
	Call Failure Codes	
	Session Audit	
	Ringback	
	Dial Plan	
	Inband DTMF	
	RFC 2833/Negotiation	
	DTMF Relay	
	Codec Renegotiation	
BroadWorks Enhanced Services	Basic CommPilot Call Manager Functions	
	Voice Messaging Audio MWI	
	Voice Messaging Visual MWI	
	Ring Splash	
	Priority Alerting	
	Priority Call Waiting	
	Alternate Numbers	
	Advanced Call Control	
	Anonymous Call	
	Remote Restart	
	Call Park Retrieve – Answer with Hold	
DUT Services – Call Control	Call Waiting	
	Call Hold	
	Blind Transfer	
	Attended Transfer	
	3-Way Call	
	Network Conference 3-Way	
	Network Conference N-Way	
DUT Services – Registration and	Authenticated Registration	
Authentication	Maximum Registration	
	Minimum Registration	
	Rejected Registration	
	Authenticated Origination	
	Authenticated Re-INVITE	
	Authenticated REFER	
	BroadWorks Authentication	

The following table describes the items tested in each *BroadWorks Validation Package*.

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BroadWorks Validation Package	Items Supported
DUT Services - FAX	FAX Passthrough
	FAX T38
DUT Services – Busy Lamp Field	Basic BLF
Redundancy	DNS
	Registration Failover
	Call Setup Failover
	Mid-Call Failover
SBC/ALG	Registration
	Call Origination
	Call Termination
Shared Call Appearance	Line Seize
	Line Lamp Management
	Line Hold/Retrieve
	Multiple Call Arrangement
	SCA Bridging
Feature Key Synchronization	Feature Key Synchronization
Video	Integrated Video Phone
	Video Services
	Video Add-On
ТСР	Basic



### References

[1] Grandstream Networks, Inc. 2007. HT-286 / HT-386 / HT-486 / HT-488 / HT-496 / BT-100 User Manual. Download at:

http://www.grandstream.com/user manuals/

AND GUI Interfaces:

http://www.grandstream.com/user\_manuals/GUI/.

- [2] Grandstream Networks, Inc. 2007. Grandstream Configuration Tool and Templates. Available from <u>http://www.grandstream.com/configurationtool.html</u>.
- [3] BroadSoft, Inc. 2006. *BroadWorks Enhanced IP Phone Configuration Guide,* Release 14.0. Available from BroadSoft at <u>www.broadsoft.com/boulevard</u>.
- [4] BroadSoft, Inc. 2006. *BroadWorks Device Inventory Guide*, Release 14.0. Available from BroadSoft at <u>www.broadsoft.com/boulevard</u>.
- [5] BroadSoft, Inc. 2006. *BroadWorks Redundancy Guide,* Release 14.0. Available from BroadSoft at <u>www.broadsoft.com/boulevard</u>.

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http://emailbydomain.com Auto manuals search

http://auto.somanuals.com TV manuals search

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