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## GRANDSTREAM NETWORKS

Firmware Release Notes  
Firmware Version 1.0.7.80  
Product Name: GXV3140  
Date: December 18, 2013

### SUMMARY OF UPDATES

The main purpose of this release is additional features implementing and addressing stability issues observed in previous releases.

### CHANGES SINCE FIRMWARE RELEASE 1.0.7.76

#### BUG FIXES

- Fixed RTP Marker bit was always set for RFC2833 packets
- Updated Hebrew language file

#### ENHANCEMENTS

- Added the support for K&D LCD
- Added the option to omit charset attribute in SIP Content-Type header
- Added the support for PC Port VLAN
- Added the option to use PPI and Privacy headers

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Firmware Version 1.0.7.76  
Product Name: GXV3140  
Date: December 19, 2012

### CHANGES SINCE FIRMWARE RELEASE 1.0.7.74

#### BUG FIXES

- Fixed incorrect "+" sign timer for onhook dialing
- Fixed incorrect Route header in CANCEL request when switching to secondary outbound proxy
- Improved WiFi driver stability

#### ENHANCEMENTS

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Firmware Version 1.0.7.74  
Product Name: GXV3140  
Date: October 2, 2012

### CHANGES SINCE FIRMWARE RELEASE 1.0.7.60

#### BUG FIXES

- Fixed Youtube application not working
- Removed broken Facebook application
- Fixed no video when a remote party was disconnected from a video conference
- Fixed malformed DHCP packets when hostname was longer than 14 bytes
- Fixed incorrect RFC 2833 sequence number increment
- Fixed no registration issue using static IP under LLDP
- Removed vendor restrictions on WiFi dongle
- Moved gxv3140cust file download after initial provision
- Fixed GUI crash issue when a call came in when playing slide show
- Updated backup DNS servers
- Fixed incorrect stock last update time
- Fixed display issue when minimizing the demo application
- Fixed not exiting video loopback when accessing voicemail
- Fixed Web UI display issue with IE9
- Fixed Skype account not displayed properly with Firefox browser
- Fixed disabled account shown as registered
- Fixed GUI crash issue when the number of contact groups exceeded the limit
- Fixed Web UI did not have "Save" and "Cancel" buttons in Network Settings
- Fixed loading browser favorites did not show file icon
- Moved "Enable video call" setting from codecs tab to call settings tab on Web UI

## ENHANCEMENTS

- Added the support for customized information widget. Pvalue P2349, P2449 and P2549 are used to customize the display in the Account Info User ID field. When this mode is enabled, IP address will not be displayed.
- Added client certificate in all HTTPS requests
- Added separate configurations of layer 3 QoS for SIP, audio RTP and video RTP
- Added an option to Check SIP User ID for Incoming INVITE for each account
- Added an option to Authenticate Incoming INVITE for each account
- Added an option to only accept SIP requests from known servers for each account
- Added Hebrew language support
- Added the support for dialing "+"
- Added the support to send DTMF via soft key
- Added options to handle remote video request

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Firmware Version 1.0.7.60

Product Name: GXV3140

Date: March 9, 2012

## CHANGES SINCE FIRMWARE RELEASE 1.0.7.50

### BUG FIXES

- Fixed sorting issue in contact application using Chinese
- Fixed errors when add stock symbols to the stock application
- Fixed save button not working in call history
- Fixed Twitter login error
- Fixed loading browser favorites did not show file icon
- Fixed Google Voice login error caused by too many redirects
- Fixed line display issue when had 3 calls and tried to build a conference
- Fixed GUI crash issue during 3-way conference call
- Fixed GUI crash issue if using Netease as video source

- Fixed volume icon display issue
- Fixed first audio RTP packet did not have mark bit set
- Fixed crash issue when early media was delivered after the call was cancelled
- Fixed screen saver time and LCD power off time showed blank in Web UI after factory reset
- Fixed incorrect soft key when running PIP and an IM was received
- Fixed frequent retries in Horoscope application
- Fixed saving call features would also disable direct IP call
- Fixed transfer issue under certain timing conditions
- Fixed minor display issues with Web browser
- Fixed headset icon did not reset after unplugged in conversation
- Fixed distinctive ring tone settings on Web UI
- Fixed enabling auto answer and call forward would also enable DND
- Fixed camera block icon incorrectly displayed
- Fixed video request status not correctly set
- Fixed GUI crash problem caused by non-compliant XML phone book
- Fixed crash issue when performing video on and off using SRTP
- Fixed crash issue when NAT-PMP service was not available
- Updated German language file

## ENHANCEMENTS

- Increased the number of contact groups from 20 to 50
- Added user-agent header in HTTP request for phone book and screen saver downloading
- Added a prompt when enabling WiFi without reboot
- Added default ring tone configuration in LCD UI
- Added DHCP option 12/15/60 in Web UI
- Added the option to disable DND reminder ring splash
- Extended the caller ID display length
- Added caller name display in missed call history
- Added IP call support in Phone Book application
- Added USB LED Light indicator for deaf people

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Firmware Version 1.0.7.50

Product Name: GXV3140

Date: November 22, 2011

## CHANGES SINCE FIRMWARE RELEASE 1.0.7.3

### BUG FIXES

- Fixed Adelaide time zone rule according to the latest specification
- Fixed incorrect SRTP key in video 3-way conference
- Fixed GUI not able to exit PIP when in PIP mode and the ALARM was on
- Fixed GUI display issue when in PIP and voice mail arrived
- Fixed crash issue when SIP NOTIFY arrived before 200OK for SIP SUBSCRIBE had arrived
- Fixed GUI crash issue caused by horoscope application
- Fixed broken Google Voice support
- Updated YouTube API
- Fixed not able to edit a selected entry within a "Group" profile in Phonebook
- Fixed GUI reset P330 to empty after saving the phone book configuration to XML
- Fixed broken Youtube support
- Fixed Skype TOS may show multiple times if keep pressing Skype soft key
- Fixed Web UI display issue after deleting all Skype accounts
- Fixed LCD password protection issue

- Fixed Google Calendar always assumed “@gmail.com”

## ENHANCEMENTS

- Add the support for SIP INFO Flash event. Users need to add “Flash” soft key from menu->Personalize->Softkey and also enable DTMF via SIP INFO option
- Added LLDP support. VLAN ID and priority can be configured automatically via LLDP
- Added the support for URL in DHCP option 43 and 66
- Added the support for DHCPv4 option 120 per Moldova Telecom requirements
- Added the support for DHCPv4 option 2
- Added the support for DHCPv4 option 42
- Added the support to update SIP settings without reboot
- Added the support for UPnP IGDv2
- Increased Skype call log tab length
- Added an option not to escape ‘#’ in SIP URI. The P value is 1406.
- Added an option to send silent RTP during mute. The values are 2328, 2428 and 2528 for three accounts.
- Added downloadable Youtube parser plug-in.
- Added H.264 CIF resolution.
- Added local file support in GMI/Browser
- Added 802.1x configuration in LCD UI.
- Added the support for H.263 partial Optional Custom Picture Clock Frequency.
- Changed Skype auto answer behavior to call waiting.
- Added H.264 image size selection. The P values used are 2307, 2407 and 2507.
- Added Chinese PinYin input method.
- Added RFC5168 Web option. P values are 1331, 478 and 578. Possible choices are : 0 – disabled, 1 – enabled.
- Updated internet Radio list.
- Updated AEC support.
- Added Tel URI support.
- Added the support for P-value provisioning of language setting, phonebook download and screen saver.
- Added the support for 3CX call answered elsewhere behavior.
- Added the support for using ‘#’ in on hook dialing.
- Added the support for disabling in-call DTMF display.
- Added 3 Mexican time zones
- Added the methods to allow copying of custom screen layout files.
- Changed GXV3140 hold/unhold behavior to use disabled video media or no video media in SDP if the call is audio only.

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Firmware Version 1.0.7.3  
 Product Name: GXV3140  
 Date: November 15, 2010

## CHANGES SINCE FIRMWARE RELEASE 1.0.5.5

### BUG FIXES

- Changed Twitter application to match the latest public API
- Changed Video Frame Rate option 24fps to 25fps on Web UI
- Fixed display error when creating Facebook account
- Switched to dialing when the phone was in on hook dialing mode and then went off hook
- Fixed GUI crash issue when editing Phonebook pictures
- Fixed German language file not encoded in UTF-8

- Fixed broken onhook dialing and VM key dialing
- Fixed Google Voice application logout issue
- Fixed Google Voice application contact display issue
- Fixed File Manager display issue after copy& paste operation
- Fixed Chinese translation issue on Web login page
- Fixed GXV3140 not sending RTP packets under some conditions
- Fixed menu tree customization did not take effect

## ENHANCEMENTS

- Added Skype support
- Added 3G USB dongle configuration files upload
- Added 802.1x support. 3 P values are added.
  - P7901 – 0 802.1x disabled, 1 – EAP/MD5
  - P7902 – 802.1x identity
  - P7903 – MD5 password

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Firmware Release Notes  
 Firmware Version 1.0.5.5  
 Product Name: GXV3140  
 Date: August 10, 2010

## CHANGES SINCE FIRMWARE RELEASE 1.0.3.24

### BUG FIXES

- Fixed broken Youtube support due to Youtube URL scheme change
- Fixed mute state not consistent when in a conference on mute and a remote party hung up
- Fixed account status web page display issue
- Fixed GUI crash issue in auto dial testing
- Fixed not sending RTP issue under certain conditions
- Fixed processing of INVITE 200 OK without SDP using PRack (interop with ZTE IMS)
- Fixed broken redial using '#'
- Fixed no video when playing video news
- Fixed no call waiting indicator when a call waiting came in and pressed transfer key
- Fixed possible timing issue for SRTP mode setting during re-INVITE
- Fixed DSP crash issue when playing certain video files
- Fixed broken on hook dialing account selection
- Fixed Web UI compatibility issues with Google Chrome browser
- Fixed H.264 decoder issue with Blinkmind video conferencing server

### ENHANCEMENTS

- Added the option to disable call log
- Added Dutch language support
- Added Arabic display support
- Added date/time display format configuration in Web UI
- Disabled local DTMF tone playing under Mobotix special mode
- Added GMI API to support IVDR
- Changed P-Asserted-Identify header in SIP INVITE to P-Preferred-Identify
- Changed media playing to stop when incoming call comes in
- Added phone book XML format checking in local download mode
- Hid PPPoE password display in Web UI
- Improved speaker duplex performance

- Added jitter buffer length configuration
- Added IP address format validation in Direct IP Call soft key configuration
- Added experimental USB 3G dongle support.
- Added movie trailer feature under Online Video
- Added the support for RDF and ATOM formats for RSS News
- Added Google Voice dialer under Social Network
- Added Multimedia News under Multimedia

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Firmware Release Notes  
Firmware Version 1.0.3.24  
Product Name: GXV3140  
Date: April 22, 2010

## CHANGES SINCE FIRMWARE RELEASE 1.0.3.20

### BUG FIXES

- Fixed failed to load browser application when it was minimized and then changed the language setting
- Fixed crash problem when pressing PIP key quickly in 3-way video conference call
- Fixed SRTP hold/unhold issue
- Fixed H.263 decoder crash problem if incoming video RTP packets did not set marker bit properly
- Fixed low dial tone volume issue
- Fixed OSD display issue in camera/LCD factory test menu.
- Fixed direct IP soft key was available even though direct IP call was disabled
- Fixed crash issue with invalid H.263 stream from Posterity Tech soft phone
- Fixed SRTP configuration became inconsistent when changed without reboot
- Fixed Web UI login issue if special characters are used for password
- Fixed last SIP URI parameter was not un-escaped
- Fixed GUI crash issue when dismissing multiple notification windows
- Fixed handling of CNG packets with more than 10 coefficients

### ENHANCEMENTS

- Added XML provision support
- Added GUI customization support
- Added HTTP/HTTPS/FTP proxy support for applications
- Added European language text input support
- Added manual system clock setting
- Added ZTE IMS special feature mode (value 114)
- Added Mobotix special feature mode (value 115)
- Changed video display/PIP mode switching sequence
- Added the support for Alert-Info based paging calls
- Added port range checking for HTTP in Web UI
- Added checking when configuring direct IP call in soft key

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Firmware Release Notes  
Firmware Version 1.0.3.20  
Product Name: GXV3140

Date: February 14, 2010

## CHANGES SINCE FIRMWARE RELEASE 1.0.3.11

### BUG FIXES

- Fixed GUI crash problem when deleting all stocks while the alarm clock expired
- Fixed video window display problem when playing video file with volume bar on
- Fixed only PCMU/H.264 was used in hold/unhold re-INVITE
- Fixed factory reset default value only enabled PCMU for audio codec
- Fixed outgoing call not cancelled when it had not reached ringing stage and an incoming call was accepted
- Fixed H.263/H.263+ negotiation problem
- Fixed in-audio DTMF issue
- Fixed GUI crash issue when navigating in World Photo application using USB mouse
- Fixed Flickr photo upgrade issue
- Fixed input method could not be changed when adding Flickr account using LCD
- Fixed GUI crash issue when navigating in Photobucket application
- Fixed GUI crash issue when pressing "Back" key after sending SIP instant message
- Fixed attended transfer problem triggered by timing differences
- Fixed Safari browser compatibility issue
- Fixed SSL certificate and key were truncated during provision
- Fixed transfer window could not be cancelled if pressing TRNF and END/CANCEL keys quickly
- Fixed video ring back did not display properly
- Fixed dynamic payload type was not updated after re-INVITE
- Fixed new message tone did not stop if it was also used for ring tone
- Fixed DND label display issue
- Fixed new message reminder window did not pop up when playing Youtube video and a new message came in
- Fixed call forward icon display if call forward was cancelled via star code
- Fixed video loopback issue when playing music file in the background
- Fixed product model display issue in Web UI
- Fixed screenshot directory was not writable in file manager
- Fixed GUI crash issue when running Web browser for a long time
- Fixed slide show issue when using Flickr as the pictures
- Fixed H.264 payload type issue when multiple H.264 payloads were offered in SDP

### ENHANCEMENTS

- Added Czech language support
- Added special mode "China Mobile". The value for the special mode is 113. At present when enabled, the device will ignore P-Asserted-Identify header
- Increased handset loudness to solve Australia audio test issue

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Firmware Release Notes  
Firmware Version 1.0.3.11  
Product Name: GXV3140  
Date: December 30, 2009

## CHANGES SINCE FIRMWARE RELEASE 1.0.3.10

### BUG FIXES

- Fixed GUI might have a chance to crash when pressing the TRNF key
- Fixed '#' could not be used as send key when in blind transfer mode
- Fixed device freeze problem when it tried to restore the second music ring tone
- Fixed slide show function did not function in Photo Viewer application
- Fixed GUI might freeze if a call came in the same time video playing started
- Fixed "Send Audio" soft key did not work for direct IP call
- Fixed GUI crash issue when in the missed call window and the language setting was changed via Web UI
- Fixed ring tone did not stop if the CANCEL was received before 180 response

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Firmware Release Notes  
 Firmware Version 1.0.3.10  
 Product Name: GXV3140  
 Date: December 18, 2009

## CHANGES SINCE FIRMWARE RELEASE 1.0.1.18

### BUG FIXES

- Fixed IP Diff-Serv value was set as IP TOS
- Fixed not able to add phonebook record with the same name as other records
- Fixed DTMF transmission issue in early media

### ENHANCEMENTS

- Added support for Weather Forecast localization
- Added Youtube application
- Added Daily Horoscope support
- Added SIP Instant Message sending feature from PhoneBook and Call History applications
- Added feature to allow an Internet Radio channel to be used as alarm clock alert tone
- Added feature to allow account order adjustment
- Added screen saver and slide show display effects
- Added feature to backup and restore user configuration data to/from IPVideoTalk server. This includes phonebook, My Favorite radios, language setting, etc.
- Added the feature to profile user application usage patterns (used applications, time spend per applications, frequency, etc.)
- Added support to retry media playing 3 times before giving up
- Added special effects for LCD display turning on and off
- Added support for SIP message delivery status notification
- Added support to upload photos to PhotoBucket and Phanfare
- Added IP2Location application to lookup and IP address and map it to the city and state
- Added support to scale/stretch customized background images
- Added support for customized screen saver using online photo album and HTTP
- Added GXV3000 style HTTP based screen saver
- Added support for PRACK/100rel
- Added H.264 I Frame reference only
- Added H.264 redundant P Frame for I Frame loss
- Added H.264 packetization mode configuration
- Added screen saver preview support
- Added slide show support
- Added World Photo application
- Added high-resolution snapshot feature under the local loopback
- Added soft keyboard support. This feature is only enabled when a USB mouse is inserted
- Added Video configurations in the LCD settings
- Added support to accept a call as audio only
- Added adaptive cyclic MB intra refresh support and the configuration for network packet loss
- Added SRTP support

- Added "Today" application
- Added phone contact black list support
- Added OpenVPN support
- Added facebook support
- Added support for Grandstream banded USB WiFi dongle
- Added motion detection triggered display "wakeup"
- Added support for video 3-way conferencing
- Added Twitter support
- Added support for video recording
- Added L16-256 audio codec support
- Added sprop-parameter-sets SDP parameter for H.264 to solve compatibility issues with old Broadsoft versions
- Added two new star codes: \*01 to set preferred codec per call and \*02 to force a codec per call
- Added support for H.263 and H.263+
- Added the option to enable/disable motion detection
- Added methods to access minimized applications
- Added support for music ring tones. Only MP3 files are supported
- Added support for video clip uploading to Youtube and PhotoBucket
- Added Weather application
- Added demo soft key for GXV3140 marketing clip.
- Added dialing time options to disable video calling mode