GSC3505/GSC3510 Firmware Release Notes

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FIRMWARE VERSION 1.0.1.15

PRODUCT NAME
GSC3505/GSC3510

DATE
09/15/2021

FIRMWARE FILE INFORMATION
- Firmware file name: gsc3505fw.bin
- Firmware file name: gsc3510fw.bin

MD5: 316c2581d7f68ee994feec59c498a97b

CHANGES SINCE FIRMWARE VERSION 1.0.1.12

ENHANCEMENT
- Added support for Polycom Multicast Paging
- When provisioning whitelist/blacklist numbers, previously configured whitelisted/blacklisted numbers will now be deleted
- Added configurable option to specify the DNS cache duration
- Added configurable option to specify the refresh timer for DNS queries
- Added ability to hang up calls using the Sensor key
- Added support for adding a pause between songs played
- Added support for provisioning user certificate from a remote server
- Added support for provisioning Wi-Fi settings
- Added support for keeping the network configuration through a factory reset
- Added ability to configure Bluetooth device name

BUG FIX
- Fixed issue where Greylist password wasn’t working
- Fixed issue where device was sending NTP DNS request even when Option 42 is already available
- Fixed issue where device didn’t re-REGISTER using new IP after changing IP
- Fixed issue where error prompt was being displayed when making a change to a Contact group
- Fixed issue where Bluetooth volume adjustment during a call wasn’t working
- Fixed issue where music playback will be accelerated for a short time after the call ends if a call interrupts the music
- Fixed issue where if you configured multiple trigger times, the Web UI would look messy
- Fixed issue where DNS SRV Failover Mode setting, “Use current server until no response” wasn’t working correctly
- Fixed issue where it would take a long time to reconnect to the Wi-Fi network after being disconnected from the network for a long period of time
- Fixed issue where the device would fail to register using STUN unless you disable the setting “Only Accept SIP Requests from Known Servers”
- Fixed issue where multicast paging wouldn’t hang up
- Fixed issue where device would fail to register if you use a 3CX server domain name instead of the IP address
NEW FEATURES OVERVIEW

This section lists major new features and describes how to use it from the user’s point of view.

GROUP PAGING

● **Web Configuration**
  This option can be found on the web UI under Phone Settings → Multicast/Group Paging → Group Paging

  Multicast/Group Paging
  
  | Multicast Paging | Multicast Listening | Group Paging |
  
  General Settings

<table>
<thead>
<tr>
<th>Group Paging Address</th>
<th>Port</th>
<th>IGMP Keep-alive Interval(s)</th>
<th>Emergency Group Paging Volume</th>
</tr>
</thead>
<tbody>
<tr>
<td>224.0.1.116</td>
<td>5001</td>
<td>30</td>
<td>8</td>
</tr>
</tbody>
</table>

  Paging Config

<table>
<thead>
<tr>
<th>Group Paging</th>
<th>Priority Group</th>
<th>Emergency Group</th>
<th>Accept While Busy</th>
<th>Group</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>24</td>
<td>25</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
  
  |                      |                |                 |                   |       |

  Save

● **Functionality**
  You can configure multicast paging with Polycom phones’ unique multicast paging which uses group/channel identification in addition to multicast IP and port.

  ● **P-Value**

<table>
<thead>
<tr>
<th>P-Value</th>
<th>Description</th>
<th>Value Range</th>
<th>Default</th>
</tr>
</thead>
<tbody>
<tr>
<td>P22183</td>
<td>Group Paging Address:Port</td>
<td>224.0.0.0-239.255.255.255:1-65535</td>
<td>224.0.1.116:5001</td>
</tr>
<tr>
<td>P-Value</td>
<td>Description</td>
<td>Value Range</td>
<td>Default</td>
</tr>
<tr>
<td>---------</td>
<td>------------------------------------------</td>
<td>-------------</td>
<td>---------</td>
</tr>
<tr>
<td>P28160</td>
<td>DNS Failure Cache Duration (m)</td>
<td>0-1440</td>
<td>0</td>
</tr>
</tbody>
</table>

**DNS CACHE DURATION**

- **Web Configuration**
  This option can be found on the web UI under Network Settings -> Advanced Network Settings
  
  ![DNS Failure Cache Duration (m)](image)

- **Functionality**
  Configures the duration (in minutes) of previous DNS cache when DNS query fails. If set to "0", the feature will be disabled. Note: Only valid for SIP registration.

- **P-Value**


<table>
<thead>
<tr>
<th>P-Value</th>
<th>Description</th>
<th>Value Range</th>
<th>Default</th>
</tr>
</thead>
<tbody>
<tr>
<td>P28160</td>
<td>DNS Failure Cache Duration (m)</td>
<td>0-1440</td>
<td>0</td>
</tr>
</tbody>
</table>

**DNS REFRESH TIMER**

- **Web Configuration**
  This option can be found on the web UI under Network Settings -> Advanced Network Settings

  ![DNS Refresh Timer (m)](image)

- **Functionality**
  Configures the refresh time (in minutes) for DNS queries. If set to "0", the phone will use the DNS query TTL from the DNS server response.

- **P-Value**


<table>
<thead>
<tr>
<th>P-Value</th>
<th>Description</th>
<th>Value Range</th>
<th>Default</th>
</tr>
</thead>
<tbody>
<tr>
<td>P28160</td>
<td>DNS Failure Cache Duration (m)</td>
<td>0-1440</td>
<td>0</td>
</tr>
<tr>
<td>P-Value</td>
<td>Description</td>
<td>Value Range</td>
<td>Default</td>
</tr>
<tr>
<td>------------------</td>
<td>--------------------------------------</td>
<td>-------------</td>
<td>---------</td>
</tr>
<tr>
<td>Pp_wifi_cert_ca_mode</td>
<td>CA Certificate Access Mode</td>
<td>0-1</td>
<td>0</td>
</tr>
<tr>
<td>Pp_wifi_cert_ca</td>
<td>Remote Access to CA Certificate</td>
<td>String</td>
<td></td>
</tr>
<tr>
<td>Pp_wifi_cert_user_mode</td>
<td>User Certificate Access Mode</td>
<td>0-1</td>
<td>0</td>
</tr>
<tr>
<td>Pp_wifi_cert_user</td>
<td>Remote Access to User Certificate</td>
<td>String</td>
<td></td>
</tr>
</tbody>
</table>

**Wi-Fi Settings**

- **Web Configuration**
  This option can be found on the web UI under Network Settings -> Wi-Fi Settings -> Add Network

---

**Wi-Fi Certificate**

- **Web Configuration**
  This option can be found on the web UI under Network Settings -> Wi-Fi Settings -> Add Network

  - **Functionality**
    Configures the device to obtain CA/User Certificates from a remote server

  - **P-Value**

---

**DNS Refresh Timer (m)**

- P4208: 0
  - 0-1440

● **Functionality**
Configures the device’s Wi-Fi settings such as the security mode, the EAP method, identity, and password.

● **P-Value**

<table>
<thead>
<tr>
<th>P-Value</th>
<th>Description</th>
<th>Value Range</th>
<th>Default</th>
</tr>
</thead>
<tbody>
<tr>
<td>83013</td>
<td>Phase 2 Authentication</td>
<td>0-4</td>
<td>0</td>
</tr>
<tr>
<td>83011</td>
<td>CA Certificate</td>
<td>String</td>
<td></td>
</tr>
<tr>
<td>83010</td>
<td>User Certificate</td>
<td>String</td>
<td></td>
</tr>
<tr>
<td>83014</td>
<td>Identity</td>
<td>String</td>
<td></td>
</tr>
<tr>
<td>83012</td>
<td>Anonymous Identity</td>
<td>String</td>
<td></td>
</tr>
<tr>
<td>83015</td>
<td>Password</td>
<td>String</td>
<td></td>
</tr>
</tbody>
</table>

**BT DEVICE NAME**

● **Web Configuration**
This option can be found on the web UI under Network Settings –> Bluetooth

**Device Name**

GSC3510
<table>
<thead>
<tr>
<th>P-Value</th>
<th>Description</th>
<th>Value Range</th>
<th>Default</th>
</tr>
</thead>
<tbody>
<tr>
<td>P8364</td>
<td>Device Name</td>
<td>String</td>
<td>GSC3510/3505</td>
</tr>
</tbody>
</table>
FIRMWARE VERSION 1.0.1.12

PRODUCT NAME
GSC3505/GSC3510

DATE
04/06/2021

FIRMWARE FILE INFORMATION
- Firmware file name: gsc3505fw.bin
- Firmware file name: gsc3510fw.bin

MD5: c1c466aa0e373fddbab23329670cf689

CHANGES SINCE FIRMWARE VERSION 1.0.1.10

BUG FIX
- Fixed issue where after provisioning, the GSC3510/3505 would continuously retry the download every 3 seconds
- Fixed issue where GSC3510/3505 couldn't receive incoming calls after registering an OpenSER account using TCP
- Fixed issue where pressing the "Phone UI" button on the 3CX Management Console wasn't automatically logging you in
FIRMWARE VERSION 1.0.1.10

PRODUCT NAME
GSC3505/GSC3510

DATE
10/21/2020

FIRMWARE FILE INFORMATION
● Firmware file name: gsc3505fw.bin
● Firmware file name: gsc3510fw.bin

MD5: 2da54332d952383b5c8e6289807999e8

CHANGES SINCE FIRMWARE VERSION 1.0.1.9

BUG FIX
● Fixed issue where GSC3505/GSC3510 wouldn't stay connected to GDMS after being factory reset via CPE.
FIRMWARE VERSION 1.0.1.9

PRODUCT NAME
GSC3505/GSC3510

DATE
07/23/2020

FIRMWARE FILE INFORMATION
- Firmware file name: gsc3505fw.bin
- Firmware file name: gsc3510fw.bin

MD5: 438ec80d1e9ef473244e98b34d1a90da

CHANGES SINCE FIRMWARE VERSION 1.0.1.6

BUG FIX
- Fixed issue where you can use the serial port to change the local RTP port to outside the allowed range
- Fixed issue where bluetooth could not be turned off through provisioning
- Fixed issue where if you use mDNS, the packet shows up as PTR regardless if you select Type SRV or Type A for _grandstream-cfg query
- Fixed v2 config not provisioning issues
FIRMWARE VERSION 1.0.1.6

PRODUCT NAME
GSC3505/GSC3510

DATE
05/08/2020

FIRMWARE FILE INFORMATION
● Firmware file name: gsc3505fw.bin
● Firmware file name: gsc3510fw.bin

MD5: 4931d45d0693c4c290d819bddda4995c

CHANGES SINCE FIRMWARE VERSION 1.0.1.5

ENHANCEMENT
● Added the ability to generate a zip file for multiple recording files
● Added the missed calls notification on Web UI
● Optimized web UI tooltips
● Optimized the sensor functions of the device

BUG fixing
● Fixed audio issue during multicast/paging
● Fixed the whitelist/blacklist provisioning issue
● Fixed Broadsoft INVITE and BYE failover issue
FIRMWARE VERSION 1.0.1.5

PRODUCT NAME
GSC3505/GSC3510

DATE
01/20/2020

FIRMWARE FILE INFORMATION
- Firmware file name: gsc3505fw.bin
- Firmware file name: gsc3510fw.bin

MD5: b7df8dddb9a5e9afbd772bb3e3d235a9e

CHANGES SINCE FIRMWARE VERSION 1.0.1.3

ENHANCEMENT
- Added the incoming rules options for each account [INCOMING CALL RULES FOR EACH ACCOUNT]
- Added Call Settings and Ringtone Settings for each account on GSC3505
- Added the error message for WPA/WPA2 password requirement
- Optimized the audio quality and improving the duplex algorithm
- Optimized some P-values that are not working on previous firmware

BUG FIX
- Fixed ring back tone issue when there is a password set for an incoming call
- Fixed P-value for provisioning blacklist and whitelist through Web UI
- Fixed the abnormality of the call waiting behavior
- Fixed some call waiting and call waiting tone issue
- Fixed LED status lights issue
- Fixed some Portuguese incorrect translation

NEW FEATURES OVERVIEW

This section lists major new features and describes how to use it from the user’s point of view.

INCOMING CALL RULES FOR EACH ACCOUNT
- Web Configuration
  This option can be found on the web UI under Account --> Account# -> Call Settings -> Incoming Call Rules.
- **Functionality**
  Allow to set incoming call rules for each account registered. This configuration will over rule the global incoming call rules.

- **P-Value**

<table>
<thead>
<tr>
<th>P-Value</th>
<th>Description</th>
<th>Value Range</th>
<th>Default</th>
</tr>
</thead>
<tbody>
<tr>
<td>P60044</td>
<td>Incoming Call Rules</td>
<td>0, 1, 2, 3, 4</td>
<td>4</td>
</tr>
<tr>
<td>P60045</td>
<td>Incoming Call Rules – Password</td>
<td>Numbers Only</td>
<td></td>
</tr>
</tbody>
</table>
FIRMWARE VERSION 1.0.1.3

PRODUCT NAME
GSC3505/GSC3510

DATE
01/02/2020

FIRMWARE FILE INFORMATION
- Firmware file name: gsc3505fw.bin
- Firmware file name: gsc3510fw.bin

MD5: 3844a6e1e043e61e87ae492a7766ecfa

CHANGES SINCE FIRMWARE VERSION 1.0.1.1

ENHANCEMENT
- Added to support failover mechanism based on DNS SRV [REGISTER BEFORE DNS SRV FAIL-OVER]
- Added the ability to delay the auto-answer [AUTOMATIC ANSWER RINGING TIME]
- Added the ability to adjust the Busy Tone Expiration [BUSY TONE EXPIRATION]
- Added a timeout when the Visible to nearby Bluetooth devices is on [BLUETOOTH VISIBILITY TIMEOUT]
- Added the option to Enable/Disable the HTTP access [ENABLE/DISABLE HTTP ACCESS]
- Added the ability to disable IP2location and Wifi Certification [ENABLE/DISABLE DNS SERVER QUERY]
- Added the ability to play/stream the music based on set schedule [AUTO MODE PLAY TIME]
- Added the ability to display date/time on the Web UI
- Added the ability to provision the audio level settings
- Added the ability to support MP3 Format files on the Music Feature
- Optimized some P-values that are not working on previous firmware

BUG FIX
- Fixed some call history issue that won’t show after awhile
- Fixed Bluetooth PIN mismatching when pairing with GXP
- Fixed the Bluetooth Codec negotiation to support broadband (mSBC)
- Fixed the IPv6 issue when only enabling IPv4 only
- Fixed incorrect Time zone for "São Paulo" to UTC-3
- Fixed hold the SIP call when there is an incoming call from connected Bluetooth devices
- Fixed RTSP stream will not resume after receiving a call
- Fixed RTSP address cannot be saved when it’s not in the correct format
- Fixed Dropping a call when there is a second incoming call
- Fixed the TR069 settings when configured
- Fixed Bluetooth lost connection with GVC after rebooting the GVC
- Fixed some Bluetooth configuration issue after reboot

NEW FEATURES OVERVIEW

This section lists major new features and describes how to use it from the user’s point of view.

REGISTER BEFORE DNS SRV FAIL-OVER
- Web Configuration
This option can be found on the web UI under Account -> Account# -> General Settings -> Register Before DNS SRV Fail-Over.

- **Functionality**
  When this feature is enabled, the device will register using the outbound proxy when the SIP server is failed to get the registration.

- **P-Value**

<table>
<thead>
<tr>
<th>P-Value</th>
<th>Description</th>
<th>Value Range</th>
<th>Default</th>
</tr>
</thead>
<tbody>
<tr>
<td>P29095, P29195, P29295, P29395, P29495, P29595, P53695, P53795, P53895, P53995, P54095, P54195, P54295, P54395, P54495, P54595</td>
<td>Register Before DNS SRV Fail-over for each account#</td>
<td>0, 1</td>
<td>1</td>
</tr>
</tbody>
</table>

**AUTOMATIC ANSWER RINGING TIME**

- **Web Configuration**
  This option can be found on the web UI under Phone Settings -> Call Settings -> Automatic Answer Ringing Time.
● **Functionality**
  Allow the GSC to ringing for some specific time (in seconds) before auto-answering the incoming call when the Greylist set to Auto-Answer.

● **P-Value**

<table>
<thead>
<tr>
<th>P-Value</th>
<th>Description</th>
<th>Value Range</th>
<th>Default</th>
</tr>
</thead>
<tbody>
<tr>
<td>P8486</td>
<td>Automatic answer ringing time</td>
<td>0 – 60 (seconds)</td>
<td>5</td>
</tr>
</tbody>
</table>

**BUSY TONE EXPIRATION**

● **Web Configuration**
  This option can be found on the web UI under Phone Settings > Call Settings > Busy Tone Ring Time (s).

● **Functionality**
  Configure the timeout for Busy Tone during the call.

● **P-Value**

<table>
<thead>
<tr>
<th>P-Value</th>
<th>Description</th>
<th>Value Range</th>
<th>Default</th>
</tr>
</thead>
<tbody>
<tr>
<td>P8347</td>
<td>Busy Tone Ring Time (s)</td>
<td>0 – 120</td>
<td>30</td>
</tr>
</tbody>
</table>

**BLUETOOTH VISIBILITY TIMEOUT**

● **Web Configuration**
  This option can be found on the web UI under Network Settings -> Bluetooth -> Visibility Timeout.
● **Functionality**
GSC3505/GSC3510 added some options for Bluetooth Visibility timeout before it turned back to 'Invisible' mode.

● **P-Value**

<table>
<thead>
<tr>
<th>P-Value</th>
<th>Description</th>
<th>Value Range</th>
<th>Default</th>
</tr>
</thead>
<tbody>
<tr>
<td>P22331</td>
<td>Bluetooth Visibility Timeout</td>
<td>0, 2, 5, 60</td>
<td>2</td>
</tr>
</tbody>
</table>

**ENABLE/DISABLE HTTP ACCESS**

● **Web Configuration**
This option can be found on the web UI under System Settings -> Security Settings -> Web/SSH Access -> Allow Web Page Access.

● **Functionality**
Enable/disable the HTTP Access.
### P-Value

<table>
<thead>
<tr>
<th>P-Value</th>
<th>Description</th>
<th>Value Range</th>
<th>Default</th>
</tr>
</thead>
<tbody>
<tr>
<td>P29605</td>
<td>Allow Web Page Access</td>
<td>0, 1</td>
<td>1</td>
</tr>
</tbody>
</table>

### ENABLE/DISABLE DNS SERVER QUERY

- **Web Configuration**
  This option can be found on the web UI under Maintenance -> Upgrade -> Advanced Settings -> Allow AutoConfig service access.

- **Functionality**
  Options to enable/disable to access the AutoConfig service from service.ipvideotalk.com

- **P-Value**

<table>
<thead>
<tr>
<th>P-Value</th>
<th>Description</th>
<th>Value Range</th>
<th>Default</th>
</tr>
</thead>
<tbody>
<tr>
<td>P7070</td>
<td>Allow AutoConfig Service Access</td>
<td>0, 1</td>
<td>1</td>
</tr>
</tbody>
</table>

### AUTO MODE PLAY TIME

- **Web Configuration**
  This option can be found on the web UI under Applications -> Music -> Auto Mode Play Time.
● **Functionality**  
To set some schedule to play/stream the music during Auto Mode.
FIRMWARE VERSION 1.0.1.1

PRODUCT NAME
GSC3505/GSC3510

DATE
09/24/2019

FIRMWARE FILE INFORMATION
● Firmware file name: gsc3505fw.bin
● Firmware file name: gsc3510fw.bin

MD5: 91a540eb5b2777c810d9bf06536e66fa

CHANGES SINCE FIRMWARE VERSION 1.0.0.24

ENHANCEMENT
● Added the ability to stream Radio/Music on the device. [MUSIC/RADIO STREAMING]
● Added pairing PIN code with Bluetooth device. [BLUETOOTH PIN CODE]
● Added minimum & maximum TLS version. [MIN/MAX TLS VERSION]
● Added a prompt to restart the device after modifying PNP (3CX) Auto Provision
● Added an ability to adjust the volume during playing the radio/music
● Changing “DATE” for the time display under call history and recording files to “TIME AND DATE”
● Optimized web UI prompts
● Optimized the audio quality

BUG FIX
● Fixed the calling prompt after ended the call from GVC when connecting using Bluetooth
● Fixed the inconsistency the volume during an active call
● Fixed the duplication issue when adding the numbers to the whitelist/blacklist
● Fixed adding a contact from the call history if the contact already existed in contact list
● Fixed call history does not refresh automatically
● Fixed unable to save the audio file address when editing both audio file address and play mode
● Fixed non-stop playing music when modifying the audio file address during the playback
● Fixed some DHCP issues after rebooting the device
● Fixed failing automatically downloads contacts after download interval
● Fixed failing to get a network address when using PPPoE
● Fixed some error when displaying the time on recording file
● Fixed the password input name shown as SSID in MAC&PEM
● Fixed the display name when the detected Bluetooth devices is using Chinese characters
● Fixed not displaying the second incoming call interface
● Fixed abnormality when unplugging/plugging the internet cable or switching networks
● Fixed some DTMF issue during call
● Fixed unable to delete a contact after 2000 contacts
● Fixed successfully saved the configuration when the IP, subnet mask, and default gateway are empty on when using Static IP
NEW FEATURES OVERVIEW

This section lists major new features and describes how to use it from the user’s point of view.

MUSIC/RADIO STREAMING

- **Web Configuration**
  This option can be found on the web UI under Applications -> Music.

- **Functionality**
  Allow to stream a radio using RTSP address, for example: rtsp://ip address/musicFile.ts. Also, allow to play an audio file that is in RTSP format (.ts) or a RTSP format file converted from MP3 format.

- **P-Value**

<table>
<thead>
<tr>
<th>P-Value</th>
<th>Description</th>
<th>Value Range</th>
<th>Default</th>
</tr>
</thead>
<tbody>
<tr>
<td>P953</td>
<td>RTSP Server Path</td>
<td>See Config template for full value list</td>
<td></td>
</tr>
<tr>
<td>P22328</td>
<td>RTSP Play Mode</td>
<td></td>
<td>0</td>
</tr>
</tbody>
</table>

BLUETOOTH PIN CODE

- **Web Configuration**
  This option can be found on the web UI under Network Settings -> Bluetooth -> Bluetooth PIN
● **Functionality**

GSC3505/GSC3510 added support a PIN Code when connecting with Bluetooth devices.

● **P-Value**

<table>
<thead>
<tr>
<th>P-Value</th>
<th>Description</th>
<th>Value Range</th>
<th>Default</th>
</tr>
</thead>
<tbody>
<tr>
<td>P22291</td>
<td>Bluetooth Pair Pin Code</td>
<td>Numbers only</td>
<td></td>
</tr>
</tbody>
</table>

**MIN/MAX TLS VERSION**

● **Web Configuration**

This option can be found on the web UI under System Settings -> Security Settings -> TLS -> Minimum TLS Version / Maximum TLS Version.
- **Functionality**

  Allow the GSC3505/GSC3510 to accepting the connection from the lower TLS version.

- **P-Value**

<table>
<thead>
<tr>
<th>P-Value</th>
<th>Description</th>
<th>Value Range</th>
<th>Default</th>
</tr>
</thead>
<tbody>
<tr>
<td>P22293</td>
<td>Minimum TLS Version</td>
<td>See Config template for full value list</td>
<td>11</td>
</tr>
<tr>
<td>P22294</td>
<td>Maximum TLS Version</td>
<td>See Config template for full value list</td>
<td>99</td>
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