# HT801/802/812/814/818 Firmware Release Notes

## IMPORTANT UPGRADING NOTE

- **The previous release notes can be downloaded here:**
  **HT801/802:** https://firmware.grandstream.com/Release_Note_HT80x_1.0.35.4.pdf
  **HT812/814:** https://firmware.grandstream.com/Release_Note_HT812_HT814_1.0.35.4.pdf
  **HT818:** https://firmware.grandstream.com/Release_Note_HT818_1.0.35.4.pdf

- **Once HT801/HT802/HT812/HT814 is upgraded to 1.0.43.11 or above, downgrading to 1.0.41.2 or lower firmware version is not supported because of support for 2nd generation individual certificate.**
- **Once HT818 is upgraded to 1.0.43.10 or above, downgrading to 1.0.41.2 or lower firmware version is not supported because of support for 2nd generation individual certificate.**

- **If HT8xx firmware version is equal or older than in 1.0.39.4, users cannot use web UI option "Upload from Local Directory" to upload a firmware file equal to or newer than 1.0.41.2. Please configure web UI option "Firmware Upgrade and Provisioning" to set a valid method for the device to obtain firmware via TFTP/HTTP/HTTPS over the network. Please see section "Upgrading and Provisioning" in *HT80X Administration Guide*, *HT81X Administration Guide*, and *HT818 Administration Guide* for details.**

- **Once HT801/HT802/HT812/HT814 is upgraded to 1.0.41.2 or above, downgrading to 1.0.39.4 or lower firmware version is not supported on below HW:**
  **HT801: 6.0A**
  **HT802: 2.7A**
  **HT812: 6.0A**
  **HT814: 5.0A**

- **If HT801/802 firmware version is older than 1.0.33.4, users cannot use web UI option "Upload from Local Directory" to upload a firmware file equal to or newer than 1.0.33.4. Please configure web UI option "Firmware Upgrade and Provisioning" to set a valid method for the device to obtain firmware via TFTP/HTTP/HTTPS over the network. Please see section "Upgrading and Provisioning" in *HT80X Administration Guide* for details.**

- **Once HT801 HW 4.0A is upgraded to 1.0.29.8 or above, downgrading to lower firmware version is not supported.**

- **Once HT801/HT802 is upgraded to 1.0.27.2 or above, downgrading to lower firmware version is not supported on below HW:**
  **HT801: 3.1A**
  **HT802: 2.0A**

- **Once HT801/HT802 is upgraded to 1.0.23.5 or above, downgrading to lower firmware version is not supported on below HW:**
  **HT801: 1.1B, 1.1C,**
  **HT802: 1.6B, 1.6C**

- **Once HT801/HT802 is upgraded to 1.0.3.2 or above, downgrading to 1.0.2.x firmware version or lower is not supported.**

- **Once HT801/HT802 is upgraded to 1.0.2.7, downgrading to 1.0.1.x firmware version or lower is not supported.**

- **Once HT812/HT814 is upgraded to 1.0.35.4 or above, downgrading to a lower firmware version is not supported on the below HW:**
  **HT812: 4.0A**
  **HT814: 3.0A**

- **Once HT812/HT814 is upgraded to 1.0.31.1 or above, downgrading to a lower firmware version is not supported on the below HW:**
  **HT812: 3.0A**
  **HT814: 2.0A**

- **Once HT812/HT814 is upgraded to 1.0.23.5 or above, downgrading to a lower firmware version is not supported on the below HW:**
  **HT812: 1.6A, 1.6C, 1.6D**
  **HT814: 1.7D, 1.7E, 1.7C**

- **Once HT812/HT814 is upgraded to 1.0.3.2 or above, downgrading to 1.0.2.x firmware version or lower is not supported.**

- **Once HT812/HT814 is upgraded to 1.0.2.x, downgrading to 1.0.1.x firmware version or lower is not supported.**

- **Once HT818 is upgraded to 1.0.31.1 or above, downgrading to a lower firmware version is not supported on HW 1.6A.**

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# FIRMWARE VERSION 1.0.45.2

## PRODUCT NAME

HT801, HT802, HT812, HT814, HT818

## DATE

02/15/2023

## FIRMWARE FILE INFORMATION

- HT801 firmware file name: ht801fw.bin
  MD5: 4f323e920c46d04cb23e6e73f30aad15
- HT802 firmware file name: ht802fw.bin
  MD5: 7b50751cd4286b288699231d24394d9f
- HT812 firmware file name: ht81xfw.bin
  MD5: f6b5c16bd8f2ce8919dea22fb2906a9a
- HT814 firmware file name: ht81xfw.bin
  MD5: f6b5c16bd8f2ce8919dea22fb2906a9a
- HT818 firmware file name: ht818fw.bin
  MD5: 16b86e29c1b4858cda24f9e688a5fae0

## ENHANCEMENT

- Added override config file option “cfgMAC_override.xml”.
- Added option "Download and Process All Available Config File. [Download and Process All Available Config Files]
- Added option “When To Restart Session After Re-INVITE received” [When To Restart Session After Re-INVITE received]
- Updated the option in “Unregister On Reboot” to 0 - No, 1 - All, 2 - Instance.

## BUG FIX

- Fixed device Call quality data not reported after the device factory reset.
- Fixed device Enabling Flash Digit Control should disable transfer using the flash key.
- Fixed the voice prompt *98 conflict issue with UCM.
- Fixed the DNS SRV Using the registered IP address function does not take effect.
- Fixed a bug that causes the device not start sending RTP.
- Fixed the sip server address and port settings that do not conform to the rules can be saved.
- Fixed CPE doesn't recover XMPP session when XMPP server goes down.
- Fixed an issue that notification has not been sent to the ACS.
- [HT8xx] Fixed device DDNS Username and DDNS Password could not save as null.
- [HT8xx] Fixed device issue causes stops registering.

- [HT8xx] Fixed device After the fax is sent, no audio on either side and the IVR becomes invalid.
- [HT818] Fixed the SSH cannot log in after factory restoration.
- Fixed when using the Russian page, there is an incomplete translation of a setting item.
- Fixed inbound long-duration call fails under certain configuration.
- Fixed an issue that causes by No audio for the second call received.
- Fixed the Syslog enabled on the HT device in the local deployment, and the content of the syslog package is empty.
- Fixed an error make a wrong or missing prompt for IVR diagnostics.
- Fixed the authenticate server certificate domain or chain option needs to be restarted to take effect.
- Fixed the software stops when using "Replace Beginning '+' with 00 in Caller ID" feature.
- Fixed the DTMF Negotiation Fails Upon Transfer.
- Fixed the firmware upgrade by TR069 doesn't use Target Filename.
- Fixed the configuration file that was downloaded from WebUI cannot be used.
- Fixed device as transferee cannot back to call if the transfer failed.
- Fixed device stops sending periodic information after a time.
- [HT8xx] Fixed the device software process stops after the group is started.
- [HT818] Fixed device when the failover SIP server address is domain name plus port registration, and the sending destination port is wrong.
- [HT818] Fixed after modifying the firmware server IP address or configuration server IP address via IVR, there is a probability that the wrong IP address will be broadcast.

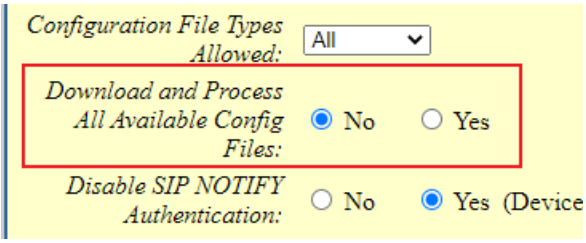
## NEW FEATURES OVERVIEW

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

### Download and Process All Available Config Files

- **Web Configuration**

Users can find the configuration section in Web -> Advanced Settings.




- **Functionality**

This feature allows users to download and process all available config files. By default, the device will provision the first available config in the order of cfgMAC, cfgMAC.xml, cfgMODEL.xml, and cfg.xml (corresponding to device-specific, model specific, and global configs). If this option is enabled, the phone

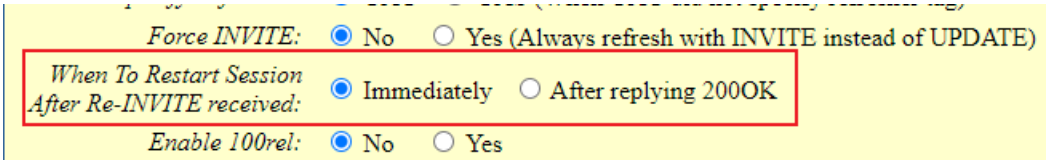
will inverse the downloading process to cfg.xml > cfgMODEL.xml > cfgMAC.bin > cfgMAC.xml. The following files will override the files that have already been loaded and processed.

| Pvalue | Description | Value Range | Default |
|---|---|---|---|
| 8467 | Download and Process All Available Config Files | 0 - No<br>1 - Yes | 0 - No |

### When To Restart Session After Re-INVITE received

- **Web Configuration**

Users can find the configuration section in Web -> Profile 1 or 2




- **Functionality**

This feature allows users to support delays posting MediaChange Event.

| Pvalue | Description | Value Range | Default |
|---|---|---|---|
| 28744 | When To Restart Session After Re-INVITE received (FXS1 or Profile1) | 0 - Immediately<br>1 - After replying 200OK | 0 - Immediately |
| 28745 | When To Restart Session After Re-INVITE received (FXS2 or Profile2) | 0 - Immediately<br>1 - After replying 200OK | 0 - Immediately |

# FIRMWARE VERSION 1.0.43.11

## PRODUCT NAME

HT801, HT802, HT812, HT814

## DATE

12/1/2022

## FIRMWARE FILE INFORMATION

- HT801 firmware file name: ht801fw.bin
  MD5: 22ebe2d275303e29a1db50b5b50fbb67
- HT802 firmware file name: ht802fw.bin
  MD5: 05681126b5bfc789f507db2e108e0f62
- HT812 firmware file name: ht812fw.bin
  MD5: 3beec47975dc18ad062380b352baf726
- HT814 firmware file name: ht814fw.bin
  MD5: 3beec47975dc18ad062380b352baf726

## ENHANCEMENT

- Added Charter CA to the approved certificate list.
- Added support for TR-069 on the management interface. [Enable TR069 Through Management Interface]
- Added ability to send Syslog traffic through Management Interface.[Enable Syslog Through Management Interface]
- Added support for variable on Provisioning link. [Enable using tags in the URL]
- Updated the default option of “Disable Reminder Ring for DND (P29072/29172)” to “1 - Yes”.
- Optimized Syslog makes it more user-friendly.
- Add SSL Key Log File. [With Secret Key Information]
- Allow configuring devices through SSH from different networks. [Security Controls for SSH/Telnet Access]
- Added additional Flash Digit events.
- Optimized the layout of the software version on the status page to make it looks better.
- Add support of DHCP Option 150. [Additional Override DHCP Option]
- Add new special feature option “138- GIBTELECOM”(Profile1 or 2-> Special Feature-> GIBTELECOM).
- Add support for the "From Domain" option. [From Domain]
- GUI enhancement to display correctly port status.
- Added support for SRTP Key Length. [SRTP Key Length]
- Added HT81x support for Inband DTMF Duration. [Inband DTMF Duration]

- Added HT81x support for DSP DTMF Detector Duration Threshold. [DSP DTMF Detector Duration Threshold]
- Added support following up not on WebUI pvalues:
  P61701/61702 - TR-069 firewall rules (Value Range:1-65535, no default)
  P8603 - Root CA Version (0 - Current Root; 1 - New Root, default is 1)
  P8604 - Provision and upgrade to new Gen-2 certificate. (1- upgrade; 0 - no upgrade, default is 0).
  P8605 - Contents (text string) of Gen-2 certificate to upgrade. (String. Maxlength 8192, no default)
  P8606 - Contents (text string) of Gen-2 EC private key to upgrade. (String. Maxlength 8192, no default)
  P8615 - Disable filename in URL for config provision. (1 -Yes, 0 – No, default is 0)
  P8616 - Disable filename in URL for firmware upgrade. (1 -Yes, 0 – No, default is 0)

## BUG FIX

- Fixed device faxes may not be sent and received normally with specific fax machines.
- Fixed device still uses a random port for SIP registration when it's set to “No” on BroadSoft.
- Fixed device plays priority alert call waiting tone incorrectly on BroadSoft.
- Fixed device plays Alternate Number Call Waiting Tone incorrectly on BroadSoft.
- Fixed device cannot enable local call feature using certain dial plan on BroadSoft.
- Fixed a bug that causes server input not to conform to the rule.
- Fixed a bug that causes an ATA crash after calling itself.
- Fixed incorrect network information in SSH.
- Fixed retry wait time when subscribing to 403 Forbidden is always displayed in English when the language is switched.
- Fixed device cannot access the page and establish a call after unplugging and plugging the network cable while on PPPoE and OpenVPN network.
- Fixed device cannot config "OpenVPN Transport" via TR069.
- Fixed device didn't send HTTP to ACS if only IPV6 in WIFI.
- Fixed device OUI reported by CPE mismatch with real OUI in MAC address.
- Fixed an issue that causes the device still ring on DND.
- Fixed the log server domain name resolution order is incorrect.
- Fixed the bug that causes the device will not send require when the path contains “%”.
- Fixed the HT81x bug that causes the devices to resend the OpenVPN request process every five seconds after unplugging the network cable.
- Fixed device deleting node via ACS server will cause CPE crash.
- Fixed an error that causes a CPE crash while executing DeleteObject.
- Fixed device Audio lost when call waiting for caller ID is enabled.
- Fixed the checked state error when the Priority Header parameter is set to “Yes”.
- Fixed the bug caused by Call waiting dropped by MTAS Server.
- Fixed the status light is abnormal after the FTP upgrade fails.
- Fixed the copyright not translated into the Russian language on the Russian page.
- Fixed the bug that causes the call cannot to be resumed after pressing hold.

- Fixed device local RBT not played after 180 ringing.
- Fixed device the forced SRTP * 18 function is not effective when it is currently effective.
- Fixed device memory is OOM when the 1.0.41.2 version is changed.
- Fixed device high pitch beep present with first call waiting tone.
- Fixed a call forward fails issue on Zoom.
- Fixed HT8xx devices call gets ended by the server after 30 mins on hold on Zoom.
- Fixed HT81x devices sends out REGISTER to 4 accounts after provisioned with 4 FXS ports info on Zoom.
- Fixed device when calling certain numbers, the user will get a long ringback tone.
- Fixed device Jitter Buffer Type not getting used.
- Fixed device after the local three-party conference ends, the phone reports the call status as P2P.
- Fixed device after filling in the Custom Certificate with the GEN 1 certificate, sips TLS registration failed.
- Fixed device RTPevent flash is not sent before a call is established.
- Fixed device If the device IP and gateway are not in the same network segment, no error will be prompted.
- Fixed HT81x devices that can't dial and are unable to access the web during running the "FAX" case.
- Fixed HT81x devices after the fax is sent, no audio on both sides, and the IVR becomes invalid.

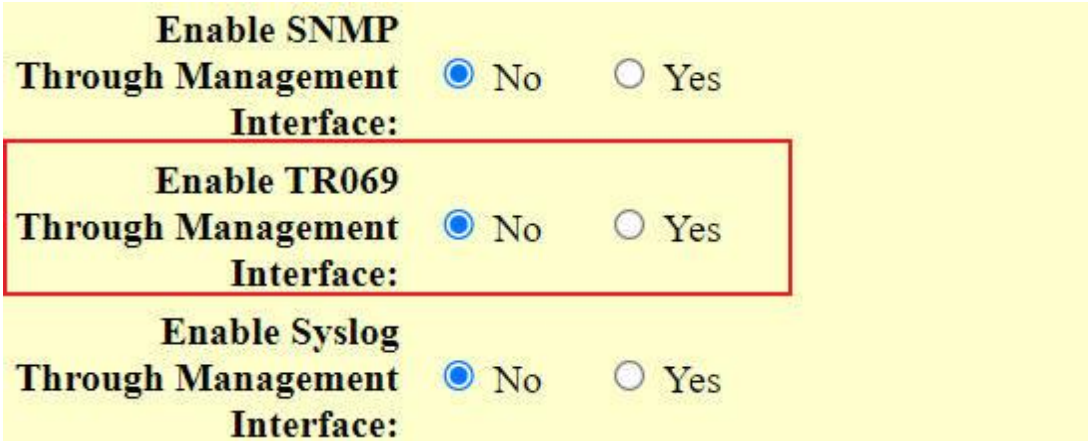
## NEW FEATURES OVERVIEW

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

### Enable TR069 Through Management Interface

- **Web Configuration**

Users can find the configuration section in Web -> Basic Settings.




- **Functionality**

This feature allows users to route TR069 packets through the management interface.

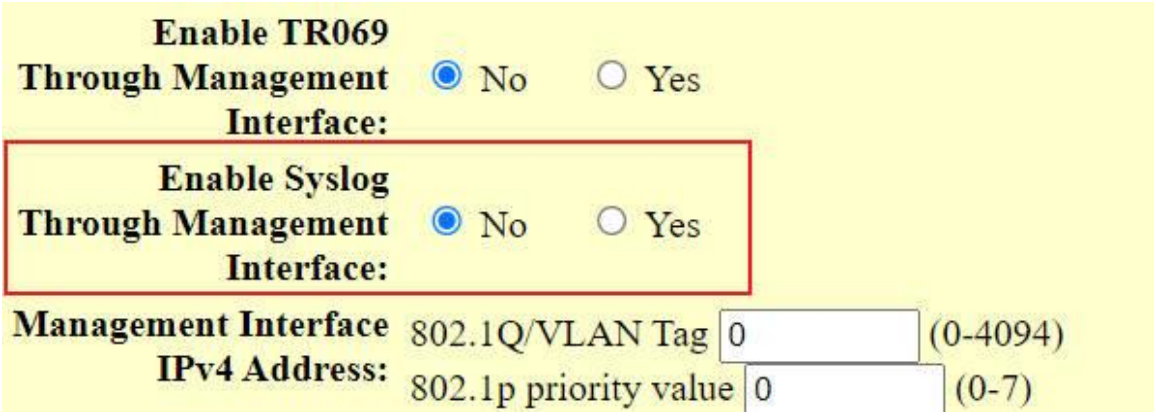
| Pvalue | Description | Value Range | Default |
|---|---|---|---|

| | | | |
|---|---|---|---|
| 8607 | Enable TR069 Through Management Interface | 0 - No<br>1 - Yes | 0 - No |

### Enable Syslog Through Management Interface

- **Web Configuration**

Users can find the configuration section in Web -> Basic Settings.




- **Functionality**

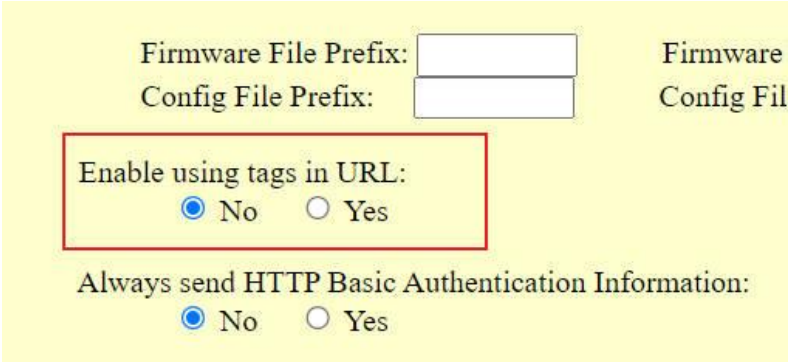
This feature allows users to route Syslog packets through the management interface.

| Pvalue | Description | Value range | Default |
|---|---|---|---|
| 8610 | Enable Syslog Through Management Interface | 0 - No<br>1 - Yes | 0 - No |

### Enable using tags in the URL

- **Web Configuration**

Users can find the configuration section in Web -> Advanced Settings.



- **Functionality**

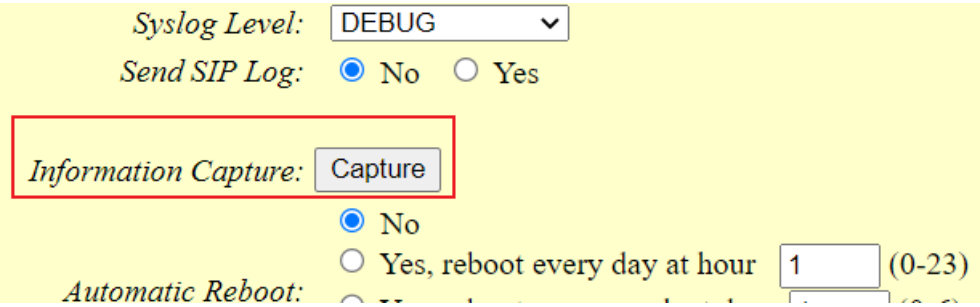
This feature allows users can configure variables on the configuration server path to differentiate the directories on the server.

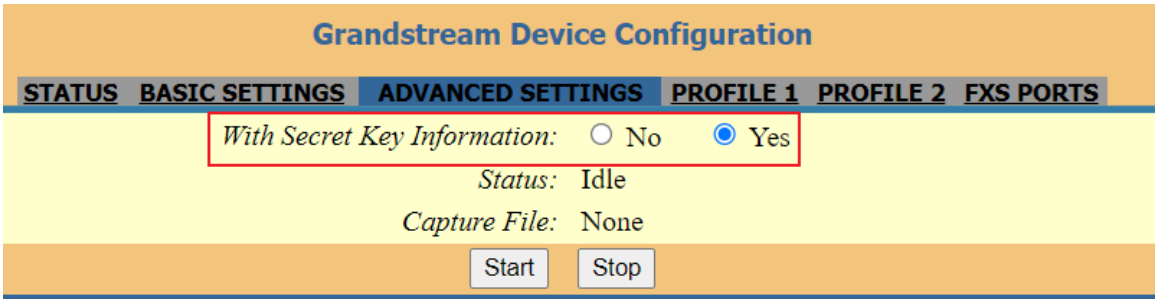
| Pvalue | Description | Value range | Default |
|---|---|---|---|
| 8609 | Enable using tags in the URL | 0 - No<br>1 - Yes | 0 - No |

### With Secret Key Information

- **Web Configuration**

Users can find the configuration section in Web -> Advanced Settings.-> Information Capture-> Capture




- **Functionality**

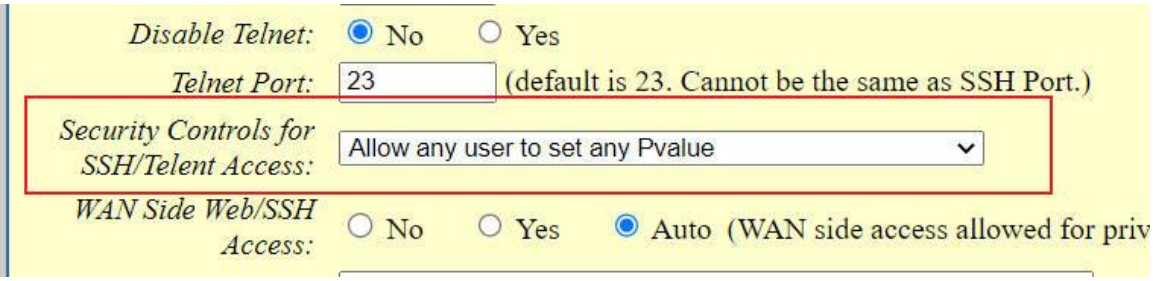
This feature allows users to make packet capture including the secret key to decrypt the captured TLS packets.

| Pvalue | Description | Value range | Default |
|---|---|---|---|
| 22419 | With Secret Key Information | 0 - No<br>1 - Yes | 0 - No |

### Security Controls for SSH/Telnet Access

- **Web Configuration**

Users can find the configuration section in Web -> Basic Settings.




- **Functionality**

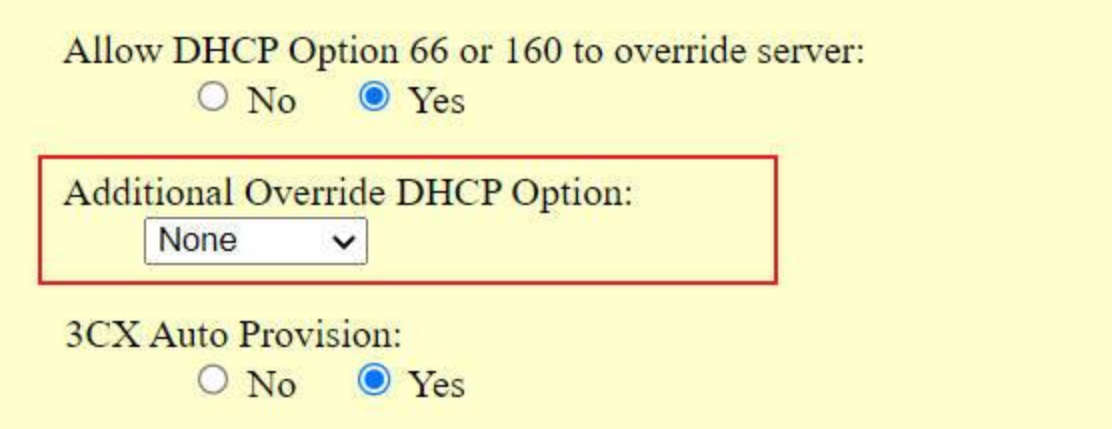
This feature allows users to Security Control the Pvalue for SSH or Telnet Access:

| Pvalue | Description | Value range | Default |
|---|---|---|---|
| 28210 | Security Controls for SSH/Telnet Access | 0 - Only allow SSH private IP users to set system Pvalue<br>1 - Allow all SSH users to set system Pvalue<br>2 - Allow all SSH users to set any Pvalue<br>3 - Allow any user to set any Pvalue<br>4 - Prohibit setting Pvalue | 3 - Allow any user to set any Pvalue |

### Additional Override DHCP Option

- **Web Configuration**

Users can find the configuration section in Web -> Advanced Settings.




- **Functionality**

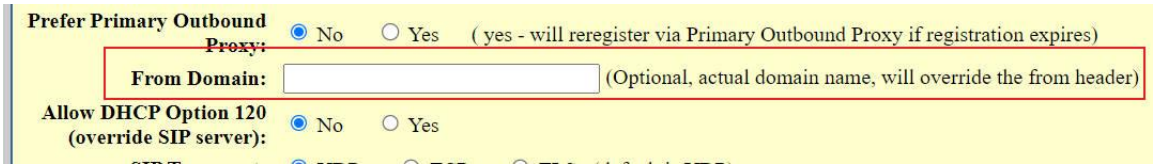
This feature allows users to enable the Additional Override DHCP Option in Option 150.

| Pvalue | Description | Value range | Default |
|---|---|---|---|
| 8337 | Additional Override DHCP Option | 0 – None<br>1 – Option 150 | 0 – None |

### From Domain

- **Web Configuration**

Users can find the configuration section in Web -> Profile 1 or 2




- **Functionality**

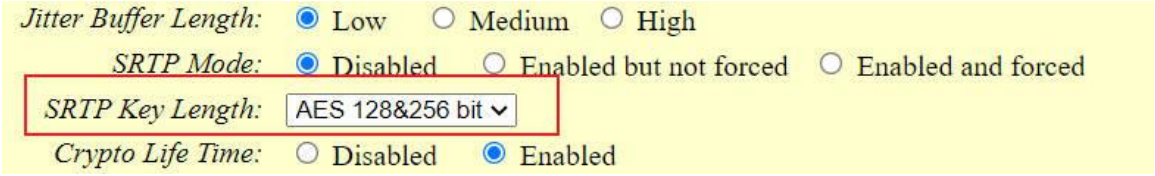
This feature allows users to add the actual domain name, it will override the from header.

| Pvalue | Description | Value range | Default |
|---|---|---|---|
| 8617<br>8618 | From Domain | String | Null |

### SRTP Key Length

- **Web Configuration**

Users can find the configuration section in Web -> Profile 1 or 2




- **Functionality**

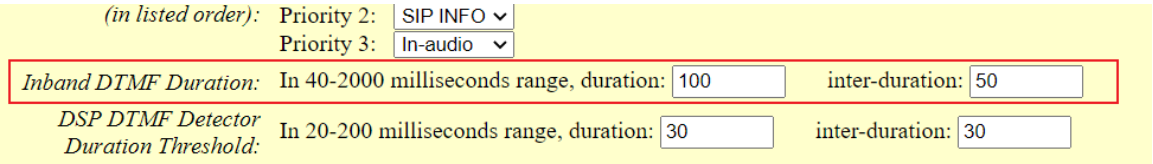
This feature allows users to select supported SRTP Key Length.

| Pvalue | Description | Value range | Default |
|---|---|---|---|
| 2383<br>2483 | SRTP Key Length | 0 - AES 128&256 bit<br>1 - AES 128 bit<br>2 - AES 256 bit | 0 - AES 128&256 bit |

### Inband DTMF Duration

- **Web Configuration**

Users can find the configuration section in Web -> Profile 1 or 2




- **Functionality**

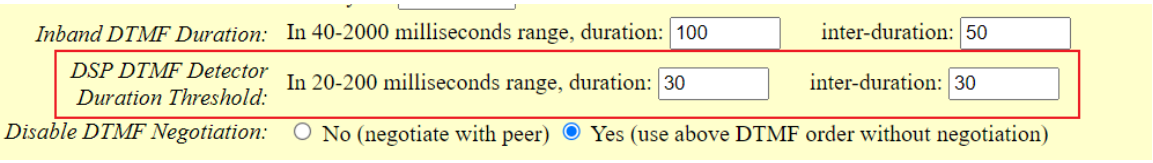
This feature allows users to config the Inband DTMF Duration.

| Pvalue | Description | Value range | Default |
|---|---|---|---|
| 28134<br>28135 | Inband DTMF Duration - duration | Min: 40<br>Max: 2000 | 100 |
| 28138<br>28139 | Inband DTMF Duration - inter-duration | Min: 40<br>Max: 2000 | 50 |

### DSP DTMF Detector Duration Threshold

- **Web Configuration**

Users can find the configuration section in Web -> Profile 1 or 2




- **Functionality**

This feature allows users to config the DSP DTMF Detector Duration Threshold.

| Pvalue | Description | Value range | Default |
|---|---|---|---|
| 28201<br>28202 | DSP DTMF Detector Duration Threshold - duration | Min: 20<br>Max: 200 | 30 |
| 28205<br>28206 | DSP DTMF Detector Duration Threshold - inter-duration | Min: 20<br>Max: 200 | 30 |

# FIRMWARE VERSION 1.0.43.10

## PRODUCT NAME

HT818

## DATE

11/30/2022

## FIRMWARE FILE INFORMATION

- HT818 firmware file name: ht818fw.bin
  MD5: 0d6ae6e257c759325d11fa0a2b108da2

## ENHANCEMENT

- Added Charter CA to the approved certificate list.
- Added support for TR-069 on the management interface. [Enable TR069 Through Management Interface]
- Added ability to send Syslog traffic through Management Interface.[Enable Syslog Through Management Interface]
- Added support for variable on Provisioning link. [Enable using tags in the URL]
- Updated the default option of “Disable Reminder Ring for DND (P29072/29172)” to “1 - Yes”.
- Optimized Syslog makes it more user-friendly.

- Add SSL Key Log File. [With Secret Key Information]
- Allow configuring devices through SSH from different networks. [Security Controls for SSH/Telnet Access]
- Added additional Flash Digit events.
- Optimized the layout of the software version on the status page to make it looks better.
- Add support of DHCP Option 150. [Additional Override DHCP Option]
- Add new special feature option “138- GIBTELECOM”(Profile1 or 2-> Special Feature-> GIBTELECOM).
- Add support for the "From Domain" option. [From Domain]
- GUI enhancement to display correctly port status.
- Added support for SRTP Key Length. [SRTP Key Length]
- Added support for Inband DTMF Duration. [Inband DTMF Duration]
- Added support for DSP DTMF Detector Duration Threshold. [DSP DTMF Detector Duration Threshold]
- Added support following up not on WebUI pvalues:
  P61701/61702 - TR-069 firewall rules (Value Range:1-65535, no default)
  P8603 - Root CA Version (0 - Current Root; 1 - New Root, default is 1)
  P8604 - Provision and upgrade to new Gen-2 certificate. (1- upgrade; 0 - no upgrade, default is 0).
  P8605 - Contents (text string) of Gen-2 certificate to upgrade. (String. Maxlength 8192, no default)
  P8606 - Contents (text string) of Gen-2 EC private key to upgrade. (String. Maxlength 8192, no default)
  P8615 - Disable filename in URL for config provision. (1 -Yes, 0 – No, default is 0)
  P8616 - Disable filename in URL for firmware upgrade. (1 -Yes, 0 – No, default is 0)

## BUG FIX

- Fixed device faxes may not be sent and received normally with specific fax machines.
- Fixed device still uses a random port for SIP registration when it's set to “No” on BroadSoft.
- Fixed device plays priority alert call waiting tone incorrectly on BroadSoft.
- Fixed device plays Alternate Number Call Waiting Tone incorrectly on BroadSoft.
- Fixed device cannot enable local call feature using certain dial plan on BroadSoft.
- Fixed a bug that causes server input not to conform to the rule.
- Fixed a bug that causes an ATA crash after calling itself.
- Fixed incorrect network information in SSH.
- Fixed retry wait time when subscribing to 403 Forbidden is always displayed in English when the language is switched.
- Fixed device cannot access the page and establish a call after unplugging and plugging the network cable while on PPPoE and OpenVPN network.
- Fixed device cannot config "OpenVPN Transport" via TR069.
- Fixed HT818 did not use ACS URL passed in DHCP option.
- Fixed device didn't send HTTP to ACS if only IPV6 in WIFI.
- Fixed device OUI reported by CPE mismatch with real OUI in MAC address.

- Fixed the Loop Current Disconnect Duration comment for Profile 2 in Chinese mode is missing the milliseconds unit.
- Fixed a bug that causes HT818 using the T38 to be not compatible with the Canon_FAX-L150 fax machine.
- Fixed an issue that causes the device still ring on DND.
- Fixed the log server domain name resolution order is incorrect.
- Fixed the bug that causes the device will not send require when the path contains “%”.
- Fixed the bug that causes the device to resend the OpenVPN request process every five seconds after unplugging the network cable.
- Fixed device deleting node via ACS server will cause CPE crash.
- Fixed an error that causes a CPE crash while executing DeleteObject.
- Fixed device Audio lost when call waiting for caller ID is enabled.
- Fixed the checked state error when the Priority Header parameter is set to “Yes”.
- Fixed the bug caused by Call waiting dropped by MTAS Server.
- Fixed a bug causing the Automatic Upgrade setting will restore to "No" after the device reboot.
- Fixed the status light is abnormal after the FTP upgrade fails.
- Fixed the copyright not translated into the Russian language on the Russian page.
- Fixed the bug that causes the call cannot to be resumed after pressing hold.
- Fixed device local RBT not played after 180 ringing.
- Fixed device the forced SRTP * 18 function is not effective when it is currently effective.
- Fixed device memory is OOM when the 1.0.41.2 version is changed.
- Fixed device high pitch beep present with first call waiting tone.
- Fixed a call forward fails issue on Zoom.
- Fixed device call gets ended by the server after 30 mins on hold on Zoom.
- Fixed device sends out REGISTER to 4 accounts after provisioned with 4 FXS ports info on Zoom.
- Fixed device ring tone will be abnormal if more than five ports ring at the same time.
- Fixed device when calling certain numbers, the user will get a long ringback tone.
- Fixed a bug that causes the *Distinctive Ring Tone* feature not to work in certain scenarios.
- Fixed device Jitter Buffer Type not getting used.
- Fixed device after the local three-party conference ends, the phone reports the call status as P2P.
- Fixed device after filling in the Custom Certificate with the GEN 1 certificate, sips TLS registration failed.
- Fixed device when using T38 and Canon_FAX-L150 fax machine, the fax rate is not as expected.
- Fixed device the value of custom certificate P8472 is empty after reboot.
- Fixed device RTPevent flash is not sent before a call is established.
- Fixed device If the device IP and gateway are not in the same network segment, no error will be prompted.
- Fixed device can't dial and unable to access the web during running "FAX" case.
- Fixed device after the fax is sent, no audio on both sides, and the IVR becomes invalid.
- Fixed device SSH cannot log in after factory restoration.

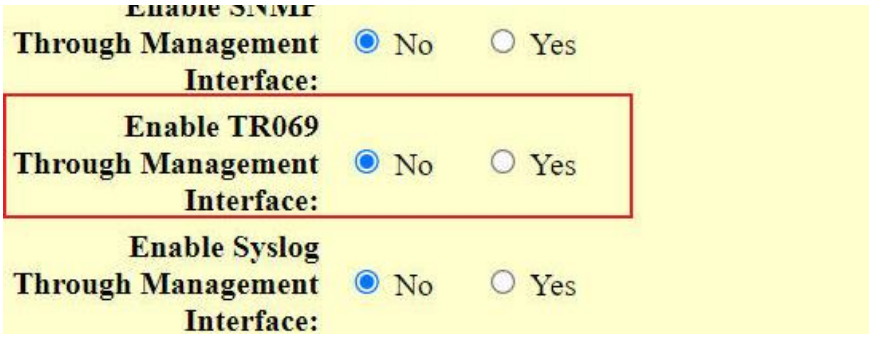
## NEW FEATURES OVERVIEW

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

### Enable TR069 Through Management Interface

- **Web Configuration**

Users can find the configuration section in Web -> Basic Settings.




- **Functionality**

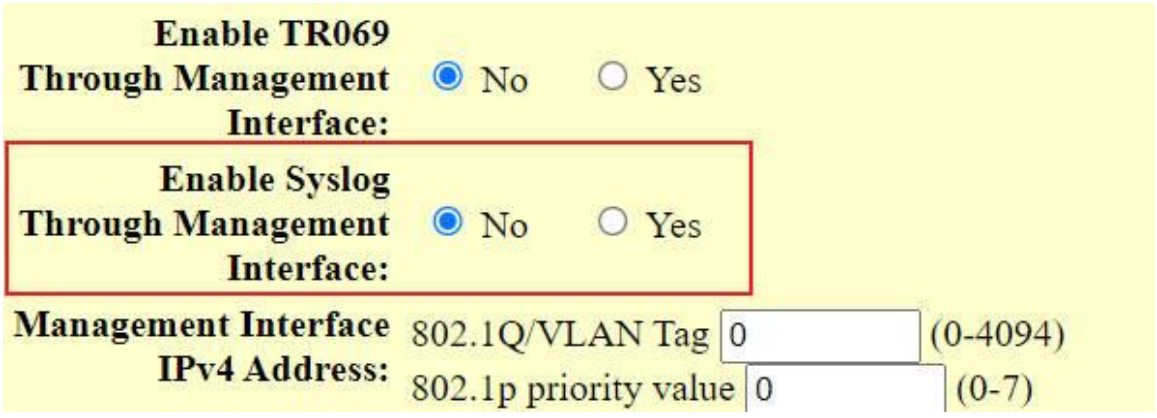
This feature allows users to route TR069 packets through the management interface.

| Pvalue | Description | Value range | Default |
|---|---|---|---|
| 8607 | Enable TR069 Through Management Interface | 0 - No<br>1 - Yes | 0 - No |

### Enable Syslog Through Management Interface

- **Web Configuration**

Users can find the configuration section in Web -> Basic Settings.




- **Functionality**

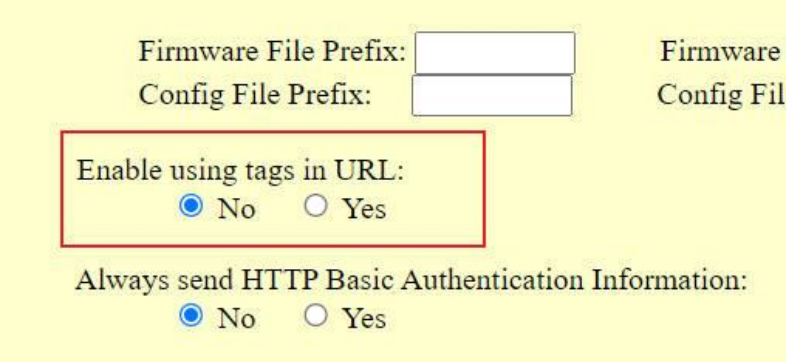
This feature allows users to route Syslog packets through the management interface.

| Pvalue | Description | Value range | Default |
|---|---|---|---|
| 8610 | Enable Syslog Through Management Interface | 0 - No<br>1 - Yes | 0 - No |

### Enable using tags in the URL

- **Web Configuration**

Users can find the configuration section in Web -> Advanced Settings.




- **Functionality**

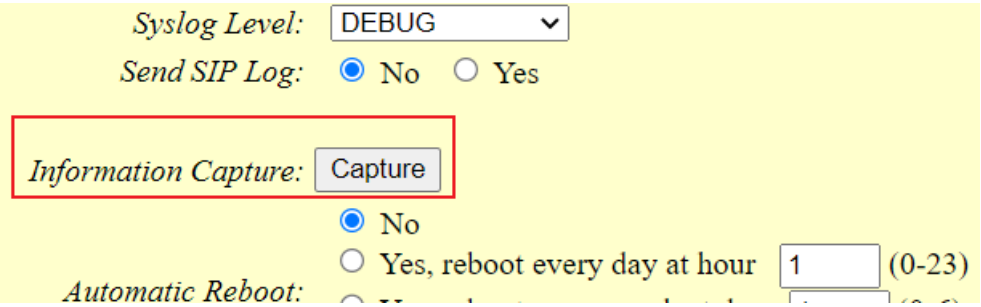
This feature allows users can configure variables on the configuration server path to differentiate the directories on the server.

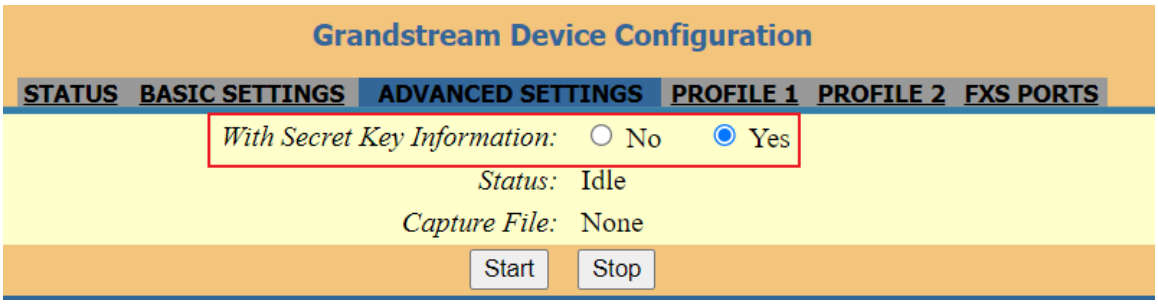
| Pvalue | Description | Value range | Default |
|---|---|---|---|
| 8609 | Enable using tags in the URL | 0 - No<br>1 - Yes | 0 - No |

### With Secret Key Information

- **Web Configuration**

Users can find the configuration section in Web -> Advanced Settings.-> Information Capture-> Capture






- **Functionality**

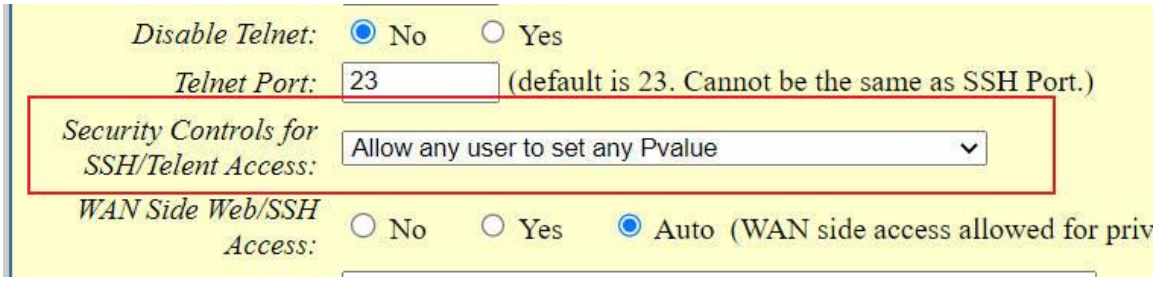
This feature allows users to make packet capture including the secret key to decrypt the captured TLS packets.

| Pvalue | Description | Value range | Default |
|---|---|---|---|
| 22419 | With Secret Key Information | 0 - No<br>1 - Yes | 0 - No |

### Security Controls for SSH/Telnet Access

- **Web Configuration**

Users can find the configuration section in Web -> Basic Settings.




- **Functionality**

This feature allows users to Security Control the Pvalue for SSH or Telnet Access:

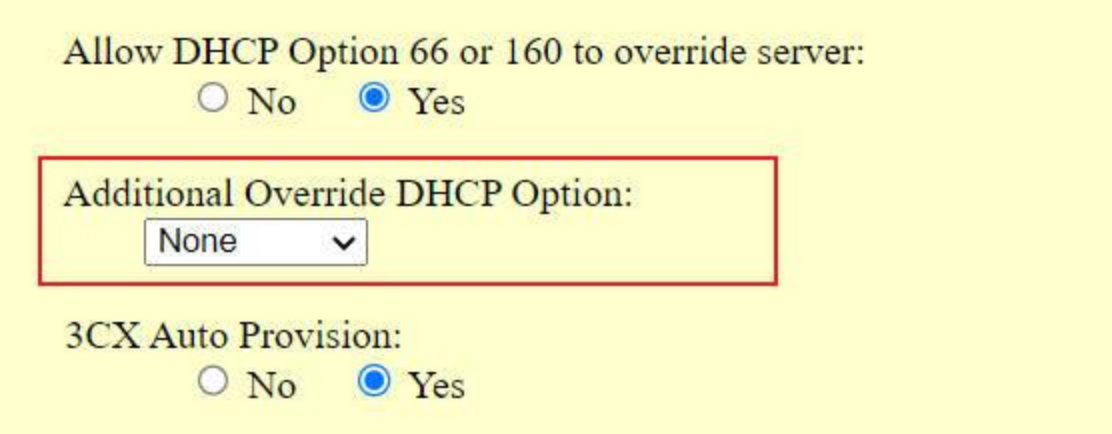
| Pvalue | Description | Value range | Default |
|---|---|---|---|
| 28210 | Security Controls for SSH/Telnet Access | 0 - Only allow SSH private IP users to set system Pvalue<br>1 - Allow all SSH users to set system Pvalue<br>2 - Allow all SSH users to set any Pvalue | 3 - Allow any user to set any Pvalue |

| | | | |
|---|---|---|---|
| | | 3 - Allow any user to set any Pvalue<br>4 - Prohibit setting Pvalue | |

### Additional Override DHCP Option

- **Web Configuration**

Users can find the configuration section in Web -> Advanced Settings.




- **Functionality**

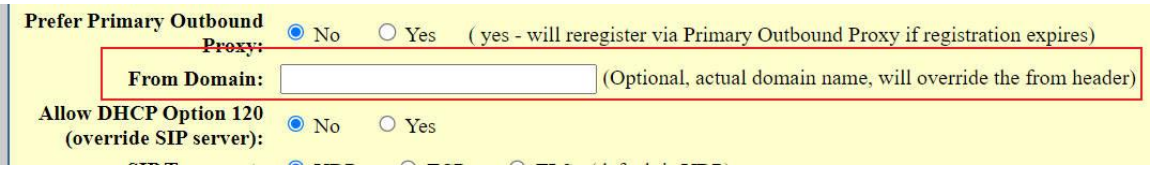
This feature allows users to enable the Additional Override DHCP Option in Option 150.

| Pvalue | Description | Value range | Default |
|---|---|---|---|
| 8337 | Additional Override DHCP Option | 0 – None<br>1 – Option 150 | 0 – None |

### From Domain

- **Web Configuration**

Users can find the configuration section in Web -> Profile 1 or 2




- **Functionality**

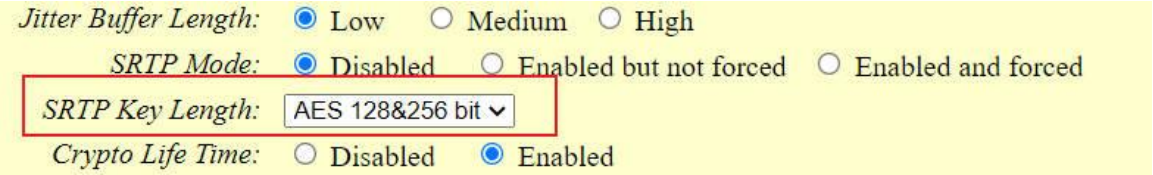
This feature allows users to add the actual domain name, it will override the from header.

| Pvalue | Description | Value range | Default |
|---|---|---|---|
| 8617<br>8618 | From Domain | String | Null |

### SRTP Key Length

- **Web Configuration**

Users can find the configuration section in Web -> Profile 1 or 2




- **Functionality**

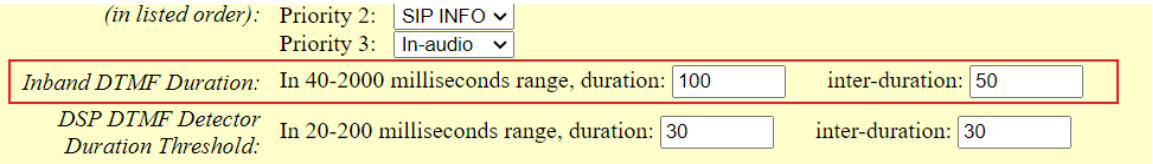
This feature allows users to select supported SRTP Key Length.

| Pvalue | Description | Value range | Default |
|---|---|---|---|
| 2383<br>2483 | SRTP Key Length | 0 - AES 128&256 bit<br>1 - AES 128 bit<br>2 - AES 256 bit | 0 - AES 128&256 bit |

### Inband DTMF Duration

- **Web Configuration**

Users can find the configuration section in Web -> Profile 1 or 2




- **Functionality**

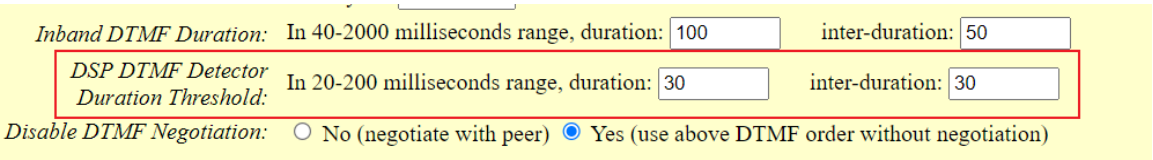
This feature allows users to config the Inband DTMF Duration.

| Pvalue | Description | Value range | Default |
|---|---|---|---|
| 28134<br>28135 | Inband DTMF Duration - duration | Min: 40<br>Max: 2000 | 100 |
| 28138<br>28139 | Inband DTMF Duration - inter-duration | Min: 40<br>Max: 2000 | 50 |

## DSP DTMF Detector Duration Threshold

- **Web Configuration**

Users can find the configuration section in Web -> Profile 1 or 2




- **Functionality**

This feature allows users to config the DSP DTMF Detector Duration Threshold.

| Pvalue | Description | Value range | Default |
|---|---|---|---|
| 28201<br>28202 | DSP DTMF Detector Duration Threshold - duration | Min: 20<br>Max: 200 | 30 |
| 28205<br>28206 | DSP DTMF Detector Duration Threshold - inter-duration | Min: 20<br>Max: 200 | 30 |

# FIRMWARE VERSION 1.0.41.5

## PRODUCT NAME

HT801, HT802

## DATE

09/28/2022

## FIRMWARE FILE INFORMATION

- HT801 firmware file name: ht801fw.bin
  MD5: 098932c01f3ac86ac9d30470bfac9ea3
- HT802 firmware file name: ht802fw.bin
  MD5: 9ff71415378139defc726d63d96ade70

## BUG FIX

- Fixed audio lost issue when call waiting caller ID is enabled.
- Fixed the device is out of memory when the 1.0.41.2 version is changed.
- Fixed the status light is abnormal after FTP upgrade fails.
- Fixed device will not send request when path contains % character.

# FIRMWARE VERSION 1.0.41.2

## PRODUCT NAME

HT801, HT802, HT812, HT814, HT818

## DATE

06/28/2022

## FIRMWARE FILE INFORMATION

- HT801 firmware file name: ht801fw.bin
  MD5: 9a955a99c48193b768166a2a796c2600
- HT802 firmware file name: ht802fw.bin
  MD5: 7a73d62e47967cffcfedf4c649e0cd27
- HT812 firmware file name: ht812fw.bin
  MD5: 8c822a212fffd1542950c03370a7c9b7
- HT814 firmware file name: ht814fw.bin
  MD5: 8c822a212fffd1542950c03370a7c9b7
- HT818 firmware file name: ht818fw.bin
  MD5: 47744ad811d71aa0d9ad881785d29d88

## ENHANCEMENT

- Updated Time Zone option “GMT+01:00 (Paris, Vienna, Warsaw)” to “GMT+01:00 (Paris, Vienna, Warsaw, Brussels)”.

## BUG FIX

- [HT818] Fixed HT818 'Add MAC in User-Agent' option displays error in Chinese mode.
- Fixed the syslog list information will not be cleared after hard key recovery.
- Fixed device unable to set time zone to GMT+01:00 (Paris, Vienna, Warsaw).
- Fixed Second Register has no auth header by default.
- [HT818] Fixed a bug causing Real-Time Transport Protocol marker in rtpevent all True.

# FIRMWARE VERSION 1.0.39.4

## PRODUCT NAME

HT801, HT802, HT812, HT814, HT818

## DATE

06/07/2022

## FIRMWARE FILE INFORMATION

- HT801 firmware file name: ht801fw.bin
  MD5: 8cdbebb700d4c3ee7809c4b1780cc72c
- HT802 firmware file name: ht802fw.bin
  MD5: e5e430ed7a037536b00fb3d938af623a
- HT812 firmware file name: ht812fw.bin
  MD5: 399f6a6fbf043083e1cdac9a187bc811
- HT814 firmware file name: ht814fw.bin
  MD5: 399f6a6fbf043083e1cdac9a187bc811
- HT818 firmware file name: ht818fw.bin
  MD5: 775c663e2ad8a91f5984dd41eda37780

## ENHANCEMENT

- Added feature to send SNMP traffic through Management Interface [Enable SNMP Through Management Interface].
- Added feature to re-subscribe only after a configurable timeout after receiving 403 [Subscribe Retry Wait Time upon 403 Forbidden].
- Added feature support e911 compliance and HELD protocol [E911/HELD Protocol].
- Updated the default value of "Maximum Number of SIP Request Retries" from 4 to 2.
- Updated CDR File Option | SIP File Option (P8534/8535) value from "1 - Override" to " Overwrite".
- Updated CDR File Option | SIP File Option (P8534/8535) default value from "Keep" (0) to "Overwrite" (1).
- Added Local IVR option that announces extension number of the port.

## BUG FIX

- [HT81x] Fixed device unable to connect to TR069 server after set Enable Management Interface to Yes.
- Fixed registration request will not be sent after device restart.
- Fixed an issue causing slic driver failed to load and device does not work properly.
- Fixed HT8xx device cannot connect to local deployment environment.
- Fixed device cannot enable local call feature using certain dial plan on Broadsoft.
- Fixed HT8xx device P-Access-Network-Info Header not in Register on Broadsoft.

- Fixed “Add MAC in User-Agent” option is invalid after filling in SIP User-Agent and SIP User-Agent Postfix.
- [HT81x] Fixed device not recognizing rtpevent in DTMF .
- Fixed device plays random DTMF during conversation.
- Fixed device crashes after provision in specific scenario.
- Fixed device freezes after 1 to 2 days of normal operations.

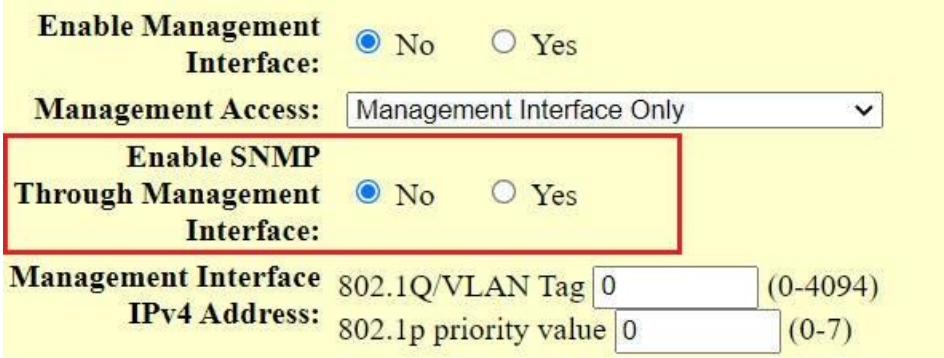
## NEW FEATURES OVERVIEW

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

### Enable SNMP Through Management Interface

- **Web Configuration**

User can find the configuration section in Web -> Basic Settings.




- **Functionality**

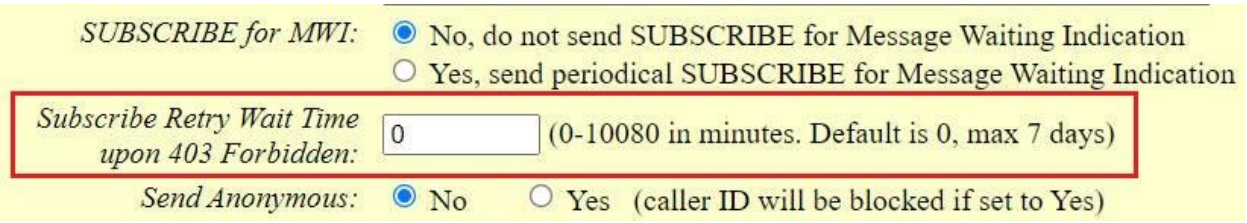
This feature allows users to route SNMP packets through management interface.

| Pvalue | Description | Value range | Default |
|---|---|---|---|
| 28209 | Enable SNMP Through Management Interface | 0 - No<br>1 - Yes | 0 - No |

### Subscribe Retry Wait Time upon 403 Forbidden

- **Web Configuration**

User can find the configuration section in Web -> FXS or Profile




- **Functionality**

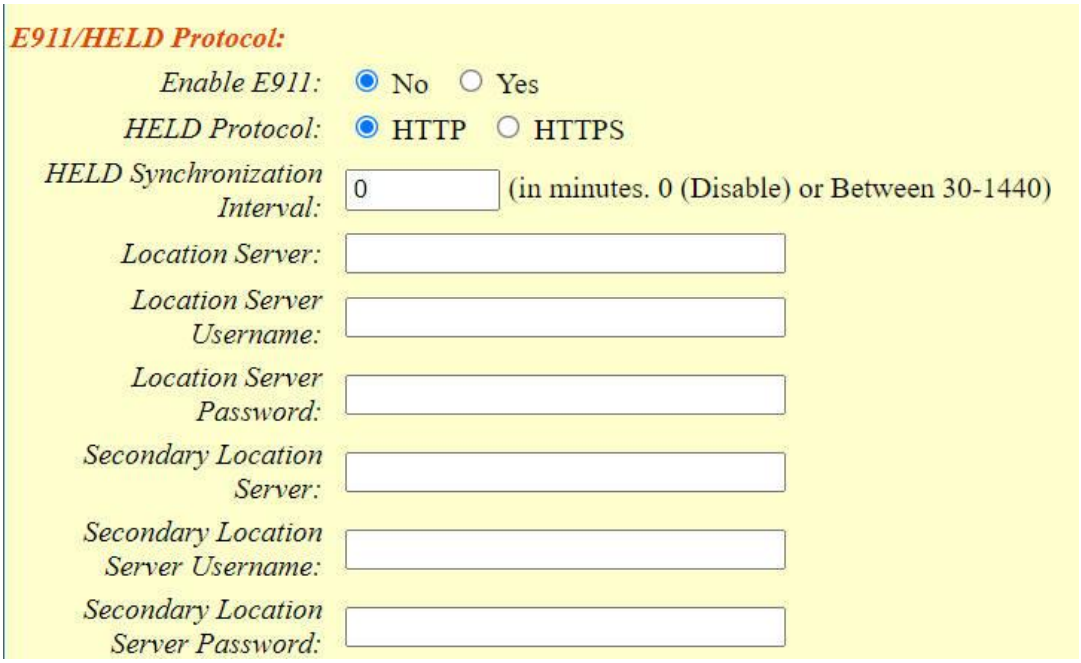
This feature allows users to adjust the subscribe retry waiting time while it is rejected with 403 forbidden.

| Pvalue | Description | Value range | Default |
|---|---|---|---|
| 60068 | Subscribe Retry Wait Time upon 403 Forbidden (FXS1 or Profile1) | Min: 0<br>Max:10080 | 0 (0-10080 in minutes. Default is 0, max 7 days) |
| 60168 | Subscribe Retry Wait Time upon 403 Forbidden (FXS2 or Profile2) | Min: 0<br>Max:10080 | 0 (0-10080 in minutes. Default is 0, max 7 days) |

### E911/HELD Protocol

- **Web Configuration**

User can find the configuration section in Web -> Advanced Settings.



| | |
|---|---|
| *HELD Location Types:* | geodetic,civic,locationURI |
| *HELD NAI:* | (•) No ( ) Yes |
| *HELD Identity 1:* | |
| *HELD Identity 1 Value:* | |
| *HELD Identity 2:* | |
| *HELD Identity 2 Value:* | |
| *HELD Identity 3:* | |
| *HELD Identity 3 Value:* | |
| *HELD Identity 4:* | |
| *HELD Identity 4 Value:* | |
| *HELD Identity 5:* | |
| *HELD Identity 5 Value:* | |
| *HELD Identity 6:* | |
| *HELD Identity 6 Value:* | |
| *HELD Identity 7:* | |
| *HELD Identity 7 Value:* | |
| *HELD Identity 8:* | |
| *HELD Identity 8 Value:* | |
| *HELD Identity 9:* | |
| *HELD Identity 9 Value:* | |
| *HELD Identity 10:* | |
| *HELD Identity 10 Value:* | |
| *E911 Emergency Numbers:* | 911 |
| *Geolocation-Routing Header:* | (•) No ( ) Yes |
| *Priority Header:* | (•) No ( ) Yes |

- **Functionality**

This feature allows users for e911 dialing along with HELD protocol to support location/address delivery.

| Pvalue | Description | Value range | Default |
|---|---|---|---|
| 8565 | Enable E911 | 0 - No<br>1 - Yes | 0 - No |
| 8566 | HELD Protocol | 0 - HTTP<br>1 - HTTPS. | 0 - HTTP |
| 8567 | HELD Synchronization Interval | Disable: 0<br>Min: 30<br>Max: 1440 | 0 (in minutes. 0 (Disable) or Between 30-1440) |
| 8568 | Location Server | Max Length - 256 | Null |
| 8569 | Location Server Username | Max Length - 64 | Null |
| 8570 | Location Server Password | Max Length - 64 | Null |
| 8571 | Secondary Location Server | Max Length - 256 | Null |
| 8572 | Secondary Location Server Username | Max Length - 64 | Null |
| 8573 | Secondary Location Server Password | Max Length - 64 | Null |
| 8574 | HELD Location Types | Max Length - 64 | geodetic,civic,locationURI |
| 8576 | HELD NAI | 0 – No<br>1 - Yes | 0 - No |
| 8577 | HELD Identity 1 | Max Length - 64 | Null |
| 8578 | HELD Identity 1 Value | Max Length - 64 | Null |
| 8579 | HELD Identity 2 | Max Length - 64 | Null |
| 8580 | HELD Identity 2 Value | Max Length - 64 | Null |
| 8581 | HELD Identity 3 | Max Length - 64 | Null |
| 8582 | HELD Identity 3 Value | Max Length - 64 | Null |
| 8583 | HELD Identity 4 | Max Length - 64 | Null |

| | | | |
|---|---|---|---|
| 8584 | HELD Identity 4 Value | Max Length - 64 | Null |
| 8585 | HELD Identity 5 | Max Length - 64 | Null |
| 8586 | HELD Identity 5 Value | Max Length - 64 | Null |
| 8587 | HELD Identity 6 | Max Length - 64 | Null |
| 8588 | HELD Identity 6 Value | Max Length - 64 | Null |
| 8589 | HELD Identity 7 | Max Length - 64 | Null |
| 8590 | HELD Identity 7 Value | Max Length - 64 | Null |
| 8591 | HELD Identity 8 | Max Length - 64 | Null |
| 8592 | HELD Identity 8 Value | Max Length - 64 | Null |
| 8593 | HELD Identity 9 | Max Length - 64 | Null |
| 8594 | HELD Identity 9 Value | Max Length - 64 | Null |
| 8595 | HELD Identity 10 | Max Length - 64 | Null |
| 8596 | HELD Identity 10 Value | Max Length - 64 | Null |
| 8597 | E911 Emergency Numbers | Max Length – 64<br>Permitted Characters:<br>0-9, *, #, ; | 911 |
| 8598 | Geolocation-Routing Header | 0 - No<br>1 - Yes | 0 - No |
| 8599 | Priority Header | 0 - No<br>1 - Yes | 0 - No |

# FIRMWARE VERSION 1.0.37.1

## PRODUCT NAME

HT801, HT802, HT812, HT814, HT818

## DATE

03/21/2022

## FIRMWARE FILE INFORMATION

- HT801 firmware file name: ht801fw.bin
  MD5: 8755aedf0c97a59157c6347cf9b66448
- HT802 firmware file name: ht802fw.bin
  MD5: 19d1d8f0cebe2d224989325aaf59ebcd
- HT812 firmware file name: ht812fw.bin
  MD5: cefd287d6648a48241285b5ef7564c1a
- HT814 firmware file name: ht814fw.bin
  MD5: cefd287d6648a48241285b5ef7564c1a
- HT818 firmware file name: ht818fw.bin
  MD5: b80bc8c0c3c0b3312b16bb421c1052c4

## ENHANCEMENT

- Add feature Configuration File Types Allowed [Feature Configuration File Types Allowed].
- Add feature MAC in User-Agent [MAC in User-Agent].
- Add feature Use MAC Header [Use MAC Header].

## BUG FIX

- [HT818] Fixed changing the dialing rule may cause the device fail to hook.
- Fixed the device local call features affects dial plan **x+.
- Fixed an issue causing Call Features do not take effect after device reboot.
- [HT818] Fixed devices could not answer the incoming call while change Pvalue.
- [HT81x] Fixed OpenVPN port can be set to null.
- Fixed an issue causing the system attempt to failback upon DNS query.
- Fixed Fax pass-through fails with firmware 1.0.33.4.
- Fixed “Let's Encrypt” root CA certificate could not be updated.

## KNOWN ISSUES

- [HT818] The Authenticate server certificate domain/chain option requires device reboot to take effect.

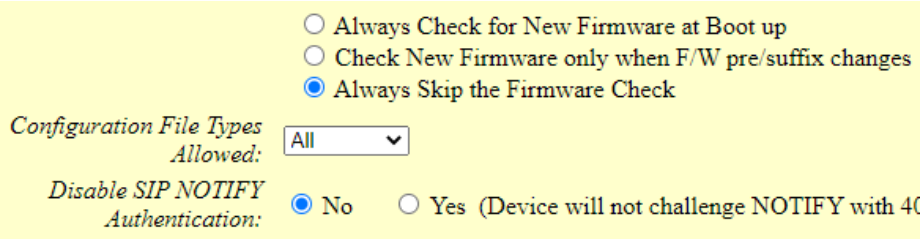
## NEW FEATURES OVERVIEW

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

### Configuration File Types Allowed

- **Web Configuration**

User can find the configuration section in Web -> Advanced Settings.




- **Functionality**

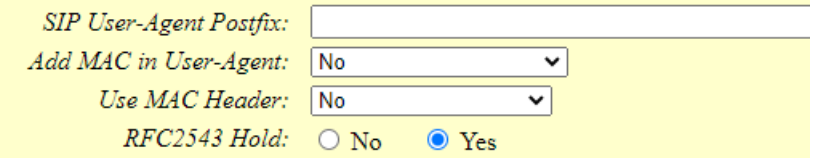
This feature allows users to configure provision configuration file type in xml file only or all file types.

| Pvalue | Description | Value range | Default |
|---|---|---|---|
| 8601 | Configuration File Types Allowed | 47 - All<br>46 - XML only | 47 - All |

### MAC in User-Agent

- **Web Configuration**

User can find the configuration section at Web -> FXS Port / Profile




- **Functionality**

This feature allows users to configure "User-Agent" in the SIP header field, when this feature is set to“No”, "User-Agent" does not carry a MAC, when this feature is set “Yes except REGISTER”, "User-Agent" in REGISTERSIP header field does not carry MAC but other SIP packet header fields carries MAC, when this feature is set to “Yes to all SIP”, "User-Agent" in the SIP packet header field will carries the MAC.

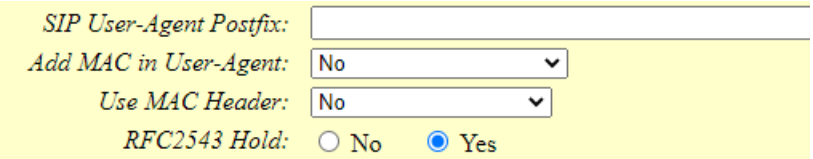
- **New P Values**

| Pvalue | Description | Value range | Default |
|---|---|---|---|
| 26061 | MAC in User-Agent (FXS Port 1/ Profile 1) | 0 - NO<br>1 - Yes except REGISTER<br>2 - Yes to all SIP | 0 - NO |
| 26161 | MAC in User-Agent (FXS Port 2/ Profile 2) | 0 - NO<br>1 - Yes except REGISTER<br>2 - Yes to all SIP | 0 - NO |

### Use MAC Header

- **Web Configuration**

User can find the configuration section at Web -> FXS Settings (Profile)




- **Functionality**

This feature allows users to configure MAC Header in the SIP packet header field, when this feature is set to “No” ,the MAC header field is not carried in the SIP packet header field, when this feature is set to “REGISTER Only”, the register packet header field carries the MAC header field but the remaining SIP packets do not carry MAC header fields, when this feature is set to “Yes to all SIP”, the MAC header field is carried in the SIP data packet header field.

- **New P Values**

| Pvalue | Description | Value range | Default |
|---|---|---|---|
| 29090 | Use MAC Header (FXS Port 1/ Profile 1) | 0 - NO<br>1 - REGISTER Only<br>2 - Yes to all request SIP | 0 - NO |
| 29190 | MAC in User-Agent (FXS Port 2/ Profile 2) | 0 - NO<br>1 - REGISTER Only<br>2 - Yes to all request SIP | 0 - NO |