

# HT818 Firmware Release Notes

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## FIRMWARE VERSION 1.0.11.7

### PRODUCT NAME

HT818

### DATE

04/22/2019

### FIRMWARE FILE INFORMATION

- HT818 firmware file name: ht818fw.bin  
MD5: 040091c585f34eec686ef1e468c61863

### ENHANCEMENT

- Added support for SIP keep-alive to use SIP NOTIFY.
- Added support to display CPU load on the device web STATUS page.
- Added feature "RFC2543 Hold". [RFC2543 Hold]
- Added feature "Idle Call Setup Action". [Idle Call Setup Action]
- Added feature "Call Record". [Call Record]
- Added feature "Use ARP to detect network connectivity". [USE ARP TO DETECT NETWORK CONNECTIVITY]

### BUG FIX

- Fixed when Enable 100rel feature set to Yes, device did not send PRACK in Allow header when sent 180 Ringing and lead to call failing between HT818 ports.
- Fixed device will not auto-reboot after factory reset via TR-069.
- Fixed cloned WAN MAC address does not take effect when the device mode is set to Bridge.
- Fixed device network LED will flash abnormally when plug in the network cable after unplugging the network cable for a while.
- Fixed device sends wrong time zone to the analog phone attached with device.
- Fixed the issue that no miniupnpd server is running.
- Correctly parse the STUNMaximumKeepAlivePeriod set to -1 and exchange the min and max.
- Fixed when enable UpnP support, no audio when making a call.
- Fixed PPPoE password is not hidden on device Web GUI.
- Fixed device security vulnerability that Pvalues could be configured via DHCP Options.
- Fixed device is freezing every few hours.
- Fixed device WAN port drops the network when device is operating in Bridge mode.
- Fixed when connected device LAN port with a PC, device will lose network connection after reboot.

## NEW FEATURES OVERVIEW

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

### RFC2543 Hold

- Web Configuration**

User can find the configuration in Web UI -> Profile Settings.

RFC2543 Hold:  No  Yes

  
 Disable Call-Waiting:  No  Yes

- Functionality**

This feature allows users to toggle between RFC2543 hold and RFC3261 hold. RFC2543 hold (0.0.0.0) allows user to disable the hold music sent to the other side. RFC3261 (a line) will play the hold music to the other side.

- New P Values**

Pvalue	Description	Value range	Default
P26062	RFC2543 Hold (Profile 1)	0 – No 1 – Yes	1 – Yes
P26162	RFC2543 Hold (Profile 2)	0 – No 1 – Yes	1 – Yes

### Idle Call Setup Action

- Functionality**

This feature allows users to customize dial tone when user dose not enter any digit. If the user picks up the handset without entering any digit, HT818 will behave in the following manner:

- For the first 20 seconds, HT818 will play the configured dial tone.
- If the user does not enter any digit during the first 20 seconds, HT818 will play the configured busy tone for 60 seconds, then go to silence after the busy tone.

This feature is configurable through config file or via SSH. No potion in Web UI. Need to reboot device after configuration.

- New P Values**

Pvalue	Description	Value range	Default
P28000	Idle Call Setup Action 1 (Profile 1)	0 – Continue 1 – Busy Tone 2 – Howler Tone 3 – CPC (disconnect) 4 – Reorder Tone 5 – Silence 6 – Stop Sequence	0 – Continue
P28001	Idle Call Setup Action 1 (Profile 2)	0 – Continue 1 – Busy Tone 2 – Howler Tone	0 – Continue

		3 – CPC (disconnect) 4 – Reorder Tone 5 – Silence 6 – Stop Sequence	
P28004	Duration of Idle Call Setup Action 1 (Profile 1)	Min – 1 second Max – 3600 seconds	60
P28005	Duration of Idle Call Setup Action 1 (Profile 2)	Min – 1 second Max – 3600 seconds	60
P28016	Idle Call Setup Action 2 (Profile 1)	0 – Continue 1 – Busy Tone 2 – Howler Tone 3 – CPC (disconnect) 4 – Reorder Tone 5 – Silence 6 – Stop Sequence	2 – Howler Tone
P28017	Idle Call Setup Action 2 (Profile 2)	0 – Continue 1 – Busy Tone 2 – Howler Tone 3 – CPC (disconnect) 4 – Reorder Tone 5 – Silence 6 – Stop Sequence	2 – Howler Tone
P28020	Duration of Idle Call Setup Action 2 (Profile 1)	Min – 1 second Max – 3600 seconds	30
P28021	Duration of Idle Call Setup Action 2 (Profile 2)	Min – 1 second Max – 3600 seconds	30
P28032	Idle Call Setup Action 3 (Profile 1)	0 – Continue 1 – Busy Tone 2 – Howler Tone 3 – CPC (disconnect) 4 – Reorder Tone 5 – Silence 6 – Stop Sequence	6 – Stop Sequence
P28033	Idle Call Setup Action 3 (Profile 2)	0 – Continue 1 – Busy Tone 2 – Howler Tone 3 – CPC (disconnect) 4 – Reorder Tone 5 – Silence 6 – Stop Sequence	6 – Stop Sequence
P28036	Duration of Idle Call Setup Action 3 (Profile 1)	Min – 1 second	1

		Max – 3600 seconds	
P28037	Duration of Idle Call Setup Action 3 (Profile 2)	Min – 1 second Max – 3600 seconds	1

### Call Record

- Web Configuration**

User can find the configuration in Web UI -> Status.

**Call Record:**

**Provision:** Not running, Last status : Firmware server is not configured.

**Core Dump:** Clean

- Functionality**

Allow user to download call history from the web GUI in CSV format. The file size limitation is 250KB. No more record will be stored if it reaches 250KB.

### USE ARP TO DETECT NETWORK CONNECTIVITY

- Web Configuration**

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

*Use DNS to detect network connectivity:*     No     Yes

*Use ARP to detect network connectivity:*     No     Yes

- Functionality**

This feature allows use to control device network detection mechanism.

- New P Values**

Pvalue	Description	Value range	Default
P8512	Use ARP to detect network connectivity	0 – No 1 – Yes	1 – Yes

## FIRMWARE VERSION 1.0.10.6

### PRODUCT NAME

HT818

### DATE

12/19/2018

### FIRMWARE FILE INFORMATION

- HT818 firmware file name: ht818fw.bin  
MD5: 3d563fbade00e4f61f9e07ae1c49ad31

### ENHANCEMENT

- Added feature “Visual MWI Type”. [VISUAL MWI TYPE]
- Added feature “Disable Unknown Caller ID”. [DISABLE UNKNOWN CALLER ID]
- Added feature “Disable # as Redial Key”. [DISABLE # as REDIAL KEY]
- Added feature “Ring Frequency”. [RING FREQUENCY]
- Added feature “Allow SIP Factory Reset”. [ALLOW SIP FACTORY RESET]
- Added feature “Management Interface”. [MANAGEMENT INTERFACE]
- Added Web menu in Spanish.
- For TR-069, added objects for FXS ports configuration.
- Added support to display WAN/LAN port cable status on the Web UI.

### BUG FIX

- Fixed call failed when Enable 100rel feature set to Yes.
- Fixed device could response “invite sipaaa” request when enable Validate Incoming SIP Message feature.
- Fixed device will crash if sip server configured as [IPv6 address]:port when Internet Protocol set to IPv6 Only and use STUN.
- Fixed when set Internet Protocol to IPv6 only, device voice prompt menu prompts wrong DNS server address.
- Fixed device failed to register to the second IP of SRV records.
- Fixed device voice prompt menu 15 (Upgrade Protocol) does not support FTP and FTPS methods.
- Fixed SIP User ID and Authenticate ID is not configurable for TR-069.
- Fixed for TR-069, device applies SetParameterValues even the parameter is invalid.
- Fixed device failed in getting IP address when the gateway IP is changed.
- Set the MAC address on syslog message to be lowercase.
- Fixed device IP configuration via SSH does not working.
- Fixed when set device hunting group to circular mode, device will drop the call once the last hunting group member is reached.

## NEW FEATURES OVERVIEW

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

### VISUAL MWI TYPE

- Web Configuration**

User can find the configuration in Web UI -> Profile Settings.

*Disable Visual MWI:*  No  Yes  
*Visual MWI Type:*  FSK  NEON

- Functionality**

This feature allows use to configure Visual WMI Type.

- New P Values**

Pvalue	Description	Value range	Default
P4371	Visual MWI Type (Profile 1)	1 – FSK 2 - NEON	1 - FSK
P4372	Visual MWI Type (Profile 2)	1 – FSK 2 - NEON	1 - FSK

### DISABLE UNKNOWN CALLER ID

- Web Configuration**

User can find the configuration in Web UI -> Profile Settings.

*DTMF Caller ID:* Start Tone  Stop Tone   
*Disable Unknown Caller ID:*  No  Yes

- Functionality**

This feature allows users to disable the analog phone's caller ID when the device receive a call with Anonymous, unavailable or unknown as FROM USER and without Display-INFO.

- New P Values**

Pvalue	Description	Value range	Default
P28153	Disable Unknown Caller ID (Profile 1)	0 - No 1 - Yes	0 – No
P28154	Disable Unknown Caller ID (Profile 2)	0 - No 1 - Yes	0 - No

### DISABLE # as REDIAL KEY

- Web Configuration**

User can find the configuration in Web UI -> Profile Settings.

*Use # as Dial Key:*  No  Yes (if set to Yes, "#" will function as the "(Re-)Dial" key)  
*Disable # as Redial Key:*  No  Yes (if set to Yes, "#" will not function as ReDial key)



- **Functionality**

With this feature and feature 'Use # as Dial Key' set to Yes, the # key will act as dial key but not as redial key.

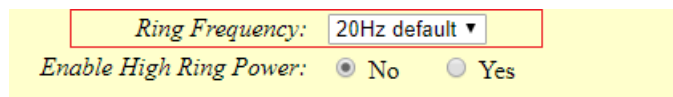
- **New P Values**

Pvalue	Description	Value range	Default
P28147	Disable # as Redial Key (Profile 1)	0 - No 1 - Yes	0 - No
P28148	Disable # as Redial Key (Profile 2)	0 - No 1 - Yes	0 - No

## RING FREQUENCY

- **Web Configuration**

User can find the configuration in Web UI -> Profile Settings.



Ring Frequency: 20Hz default ▾  
 Enable High Ring Power:  No  Yes

- **Functionality**

This feature allows user to customize ring frequency

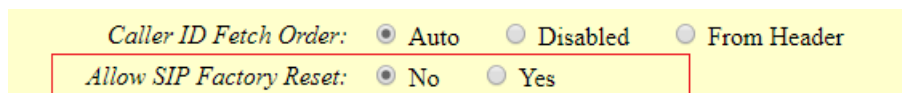
- **New P Values**

Pvalue	Description	Value range	Default
P4429	Ring Frequency (Profile 1)	20 – 20Hz default 25 – 25Hz	20 – 20Hz default
P4430	Ring Frequency (Profile 2)	20 – 20Hz default 25 – 25Hz	20 – 20Hz default

## ALLOW SIP FACTORY RESET

- **Web Configuration**

User can find the configuration in Web UI -> Profile Settings.



Caller ID Fetch Order:  Auto  Disabled  From Header  
 Allow SIP Factory Reset:  No  Yes

- **Functionality**

This feature allows user to reset the devices directly through SIP Notify.

- **New P Values**

Pvalue	Description	Value range	Default
P26015	Allow SIP Factory Reset (Profile 1)	0 – No 1 – Yes	0 - No
P26115	Allow SIP Factory Reset (Profile 2)	0 – No 1 – Yes	0 - No

## MANAGEMENT INTERFACE

- Web Configuration**

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

**Enable Management Interface:**  No  Yes

**Management Access:** Management Interface Only ▼

**Management Interface IPv4 Address:** 802.1Q/VLAN Tag  (0-4094)  
 802.1p priority value  (0-7)

dynamically assigned via DHCP

statically configured as:

*IP Address:*

*Subnet Mask:*

*Default Router:*

*DNS Server 1:*

*DNS Server 2:*

- Functionality**

- Allow administrator to setup a Virtual Network Interface on top of the physical interface for device management.

- New P Values**

Pvalue	Description	Value range	Default
P28161	Enable Management Interface	0 – No 1 - Yes	0 – Disabled
P28162	Management Access	0 – Management Interface Only 1 – Both Services and Management Interfaces	0 – Management Interface Only
P22105	Voice VLAN Type	0 – dynamically assigned via DHCP 1 – statically configured as	0 - dynamically assigned via DHCP
P22106	IP Address	IP Format	192.168.100.100
P22107	Subnet Mask	IP Format	255.255.255.0
P22108	Default Router	IP Format	192.168.100.1
P22109	DNS Server 1	IP Format	0.0.0.0
P22110	DNS Server 2	IP Format	0.0.0.0
P22111	Management Interface IPv4 Address: 802.1Q/VLAN Tag	0 – Minimum 4094 – Maximum	0

P22112	Management Interface IPv4 Address: 802.1p priority value	0 – Minimum 7 – Maximum	0
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## FIRMWARE VERSION 1.0.9.3

### PRODUCT NAME

HT818

### DATE

07/30/2018

### FIRMWARE FILE INFORMATION

- Firmware file name: ht818fw.bin
  
- MD5: 48b277ace2300ec334c5ffc412ce98c6

### ENHANCEMENT

- Added support for call waiting tone to be repeated while the caller is still calling.
- Added support for G722 (wide-band) codec.
- Added support for FTP/FTPS for provision and firmware upgrade.
- Added feature "Conference Party Hangup Tone". [CONFERENCE PARTY HANGUP]

### BUG FIX

- Fixed NAT is not working in PPPoE.
- Fixed in RFC2833 mode, DTMF tone could not be recognized by PBX.
- Fixed device will play short dial tone after the first digit has been dialed using the pulse dialing mode.
- Fixed device sometimes would send a wrong number when using pulse dialing mode.
- Fixed DTMF tone is not heard on analog phone behind FXS port.
- Fixed when device enable "Remove OBP from Route Header" function, device will add OBP header on INVITE/REGISTER message when device using backup outbound proxy.
- Fixed device failed in provisioning Custom Certificate.

### NEW FEATURES OVERVIEW

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

#### CONFERENCE PARTY HANGUP TONE

- **Web Configuration**

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

*Prompt Tone:*

*Conference Party Hangup Tone:*

Syntax: `f1=val [, f2=val [, c=on1/off1 [-on2/off2 [-on3/off3]]]] ;`  
 (Frequencies are in (300, 3400) Hz and cadence on and off are in (0, 64000) ms)

- **Functionality**

This feature allows users to customize the tone to be played when a party leave the established conference. User need to set Special Feature (PROFILE ->Special Feature) to MTS to use this function.

- **New P Values**

Pvalue	Description	Value range	Default
P28133	Conference Party Hangup Tone	Frequency: (300,3400) Hz Cadence on and off: (0,64000) ms	f1=425@-15,c=600/600;

## FIRMWARE VERSION 1.0.8.7

### PRODUCT NAME

HT818

### DATE

04/17/2018

### FIRMWARE FILE INFORMATION

- Firmware file name: ht818fw.bin  
  
MD5: 330769490e81198bd6907c14a243da1c

### ENHANCEMENT

- Added feature “Custom Certificate”. [CUSTOM CERTIFICATE]
- Added feature “Use P-Access-Network-Info Header”. [USE P-ACCESS-NETWORK-INFO HEADER]
- Added feature “Use P-Emergency-Info Header”. [USE P-EMERGENCY-INFO HEADER]
- Added support for “Blacklist for Incoming Calls”. [BLACKLIST FOR INCOMING CALLS]
- Added feature “Play busy/reorder tone before Loop Current Disconnect”. [PLAY BUSY/REORDER TONE BEFORE LOOP CURRENT DISCONNECT]

### BUG FIX

- Fixed device IPv4 option 42 and IPv6 option 31 do not take effect.
- Fixed device option 66 does not take effect properly.
- Fixed device does not receive connection request from ACS.
- Fixed device failed on changing the ring frequency and removed “Ring Frequency” from web UI.
- Change “Validate Server Certificates” default value to No.
- Fixed Caller ID Display did not work with distinctive ringtone.
- Fixed device sent out unselected syslog levels messages.
- Fixed device could not hear voice when playing call waiting tone.
- Fixed device did not resolve backup outbound proxy domain.
- Fixed device DNS query malfunctioning.
- Fixed device failed to register with two-way TLS.

### NEW FEATURES OVERVIEW

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

#### CUSTOM CERTIFICATE

- **Web Configuration**

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

*SIP TLS Private Key Password:*

*Custom Certificate:*  
*(Private Key + Certificate)*

- **Functionality**

This feature allows users to update to the device their own certificate signed by custom CA certificate to manage client authentication.

- **New P Values**

Pvalue	Description	Value range	Default
P8472	Custom Certificate (Private Key + Certificate)	10 - Rows 64 - Columns	Null

### USE P-ACCESS-NETWORK-INFO HEADER

- **Web Configuration**

User can find the configuration in Web UI -> Profile Settings.

*Use P-Preferred-Identity Header:*  Default  No  Yes

*Use P-Access-Network-Info Header:*  No  Yes

*Use P-Emergency-Info Header:*  No  Yes

- **Functionality**

With this feature enabled, device will populate the WAN access node with IEE-802.11a, IEE-802.11b in P-Access-Network-Info SIP header.

- **New P Values**

Pvalue	Description	Value range	Default
P26058	Use P-Access-Network-Info Header (Profile 1)	0 - No 1 - Yes	1 - Yes
P26158	Use P-Access-Network-Info Header (Profile 2)	0 - No 1 - Yes	1 - Yes

### USE P-EMERGENCY-INFO HEADER

- **Web Configuration**

User can find the configuration in Web UI -> Profile Settings.

*Use P-Preferred-Identity Header:*  Default  No  Yes  
*Use P-Access-Network-Info Header:*  No  Yes  
*Use P-Emergency-Info Header:*  No  Yes

- **Functionality**

This feature support of IEEE-48-addr and IEEE-EUI-64 in SIP header for emergency calls.

- **New P Values**

Pvalue	Description	Value range	Default
P26059	Use P-Emergency-Info Header (Profile 1)	0 - No 1 - Yes	1 - Yes
P26159	Use P-Emergency-Info Header (Profile 2)	0 - No 1 - Yes	1 - Yes

### BLACKLIST FOR INCOMING CALLS

- **Web Configuration**

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

*Blacklist For Incoming Calls:*

- **Functionality**

Allow users to block incoming calls from specific list of numbers. Maximum allow 10 SIP numbers and each number should be separated by a comma (',') in webUI. Other allowed characters are 0-9, 26 letters (A-Z and a-z), comma (','), asterisk ('\*'), pound sign ('#') and plus sign ('+').

- **New P Values**

Pvalue	Description	Value range	Default
P28127	Blacklist For Incoming Calls	10 – Maximum allowed SIP numbers	Null

### PLAY BUSY/REORDER TONE BEFORE LOOP CURRENT DISCONNECT

- **Web Configuration**

User can find the configuration section at Web -> Profile Settings.

*Play busy/reorder tone before Loop Current Disconnect: fail*  No  Yes (play busy/reorder tone before loop current disconnect upon call)

- **Functionality**

Allow user to configure if it will play busy/reorder tone before loop current disconnect upon call fail. Default



is No.

- **New P Values**

Pvalue	Description	Value range	Default
P21925	Play busy/reorder tone before Loop Current Disconnect. (Profile 1)	0 - No 1 – Yes	0 – No
P21926	Play busy/reorder tone before Loop Current Disconnect (Profile 2)	0 - No 1 – Yes	0 – No