

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
- 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.**

Table of Content

IMPORTANT UPGRADING NOTE	1
FIRMWARE VERSION 1.0.41.2	4
PRODUCT NAME.....	4
DATE	4
FIRMWARE FILE INFORMATION	4
BUG FIX	4
FIRMWARE VERSION 1.0.39.4	5
PRODUCT NAME.....	5
DATE	5
FIRMWARE FILE INFORMATION	5
ENHANCEMENT	5
BUG FIX	5
NEW FEATURES OVERVIEW.....	6
<i>Enable SNMP Through Management Interface.....</i>	<i>6</i>
<i>Subscribe Retry Wait Time upon 403 Forbidden.....</i>	<i>6</i>
<i>E911/HELD Protocol.....</i>	<i>7</i>
FIRMWARE VERSION 1.0.37.1	11
PRODUCT NAME.....	11
DATE	11
FIRMWARE FILE INFORMATION	11
ENHANCEMENT	11
BUG FIX	11
KNOWN ISSUES.....	11
NEW FEATURES OVERVIEW.....	11
<i>Configuration File Types Allowed</i>	<i>12</i>
<i>MAC in User-Agent.....</i>	<i>12</i>
<i>Use MAC Header.....</i>	<i>13</i>

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: 7a73d62e47967cfcfedf4c649e0cd27
- 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 a bug cause the syslog list information will not be cleared after hard key recovery.
- Fixed an issue cause device unable to set timezone to GMT+01:00 (Paris, Vienna, Warsaw).
- Fixed a bug cause the Second Register has no auth header by default.
- [HT818] Fixed a bug caused Real-Time Transport Protocol.marker in rtpevent are 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 a bug cause registration request will not be sent after device restart.
- Fixed an issue make slic driver failed to load and device does not work properly.
- Fixed a bug cause 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 a bug cause the Add MAC in User-Agent option is invalid After filling in SIP User-Agent and SIP User-Agent Postfix.
- [HT81x] Fixed an issue cause device not recognizing the RTP-Events (DTMF) .
- Fixed a bug cause ATA plays random DTMF during conversation.
- Fixed a bug cause ATA crash after provision.
- Fixed an issue cause device freezing after 1 to 2 days of normal operations.

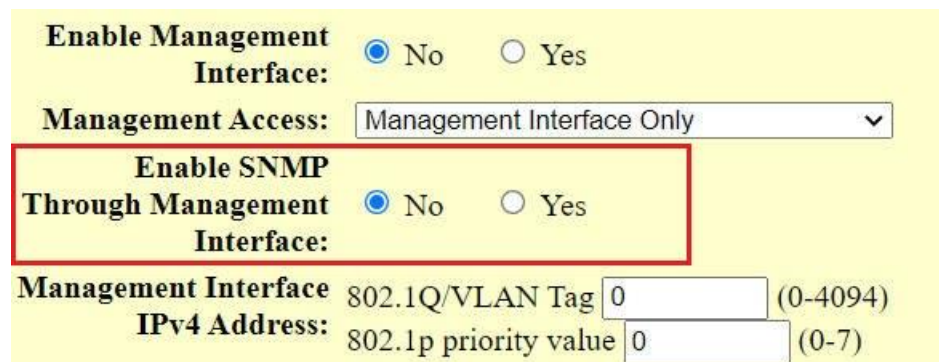
NEW FEATURES OVERVIEW

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 -> Advanced Settings.



The screenshot shows a configuration page with a yellow background. It includes the following elements:

- Enable Management Interface:** Radio buttons for 'No' (selected) and 'Yes'.
- Management Access:** A dropdown menu set to 'Management Interface Only'.
- Enable SNMP Through Management Interface:** Radio buttons for 'No' (selected) and 'Yes', highlighted with a red box.
- Management Interface 802.1Q/VLAN Tag:** A text input field with '0' and '(0-4094)'.
- IPv4 Address 802.1p priority value:** A text input field with '0' and '(0-7)'.

- **Functionality**

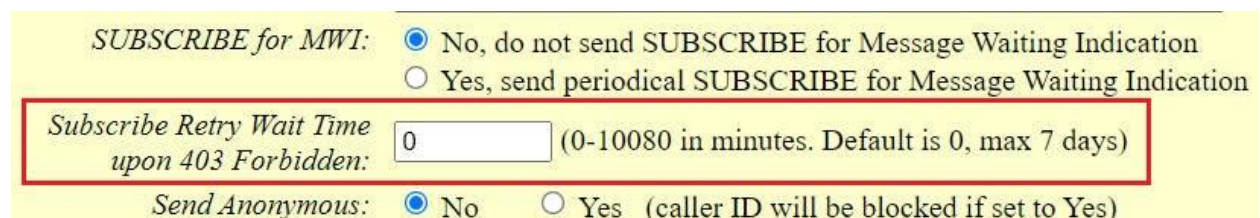
This feature allows users to route SNMP packets through management interface.

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

Subscribe Retry Wait Time upon 403 Forbidden

- **Web Configuration**

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



The screenshot shows a configuration page with a yellow background. It includes the following elements:

- SUBSCRIBE for MWI:** Radio buttons for 'No, do not send SUBSCRIBE for Message Waiting Indication' (selected) and 'Yes, send periodical SUBSCRIBE for Message Waiting Indication'.
- Subscribe Retry Wait Time upon 403 Forbidden:** A text input field with '0' and '(0-10080 in minutes. Default is 0, max 7 days)', highlighted with a red box.
- Send Anonymous:** Radio buttons for 'No' (selected) and 'Yes (caller ID will be blocked if set to Yes)'.

- **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 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 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.

E911/HELD Protocol:

Enable E911: No Yes

HELD Protocol: HTTP HTTPS

HELD Synchronization Interval: (in minutes. 0 (Disable) or Between 30-1440)

Location Server:

Location Server Username:

Location Server Password:

Secondary Location Server:

Secondary Location Server Username:

Secondary Location Server Password:

<i>HELD Location Types:</i>	<input type="text" value="geodetic,civic,locationURI"/>
<i>HELD NAI:</i>	<input checked="" type="radio"/> No <input type="radio"/> Yes
<i>HELD Identity 1:</i>	<input type="text"/>
<i>HELD Identity 1 Value:</i>	<input type="text"/>
<i>HELD Identity 2:</i>	<input type="text"/>
<i>HELD Identity 2 Value:</i>	<input type="text"/>
<i>HELD Identity 3:</i>	<input type="text"/>
<i>HELD Identity 3 Value:</i>	<input type="text"/>
<i>HELD Identity 4:</i>	<input type="text"/>
<i>HELD Identity 4 Value:</i>	<input type="text"/>
<i>HELD Identity 5:</i>	<input type="text"/>
<i>HELD Identity 5 Value:</i>	<input type="text"/>
<i>HELD Identity 6:</i>	<input type="text"/>
<i>HELD Identity 6 Value:</i>	<input type="text"/>
<i>HELD Identity 7:</i>	<input type="text"/>
<i>HELD Identity 7 Value:</i>	<input type="text"/>
<i>HELD Identity 8:</i>	<input type="text"/>
<i>HELD Identity 8 Value:</i>	<input type="text"/>
<i>HELD Identity 9:</i>	<input type="text"/>
<i>HELD Identity 9 Value:</i>	<input type="text"/>
<i>HELD Identity 10:</i>	<input type="text"/>
<i>HELD Identity 10 Value:</i>	<input type="text"/>
<i>E911 Emergency Numbers:</i>	<input type="text" value="911"/>
<i>Geolocation-Routing Header:</i>	<input checked="" type="radio"/> No <input type="radio"/> Yes
<i>Priority Header:</i>	<input checked="" type="radio"/> No <input type="radio"/> 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 1 - Yes	0 - No
8566	HELD Protocol	0 - HTTP 1 - HTTPS.	0 - HTTP
8567	HELD Synchronization Interval	Disable: 0 Min: 30 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 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 Permitted Characters: 0-9, *, #, ;	911
8598	Geolocation-Routing Header	0 - No 1 - Yes	0 - No
8599	Priority Header	0 - No 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 failing 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.

Always Check for New Firmware at Boot up
 Check New Firmware only when F/W pre/suffix changes
 Always Skip the Firmware Check

Configuration File Types Allowed:

Disable SIP NOTIFY Authentication: No Yes (Device will not challenge NOTIFY with 40

- **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 48 - XML only	47 - All

MAC in User-Agent

- **Web Configuration**

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

SIP User-Agent Postfix:

Add MAC in User-Agent:

Use MAC Header:

RFC2543 Hold: No Yes

- **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 1 - Yes except REGISTER 2 - Yes to all SIP	0 - NO
26161	MAC in User-Agent (FXS Port 2/ Profile 2)	0 - NO 1 - Yes except REGISTER 2 - Yes to all SIP	0 - NO

Use MAC Header

- Web Configuration**

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

<i>SIP User-Agent Postfix:</i>	<input type="text"/>
<i>Add MAC in User-Agent:</i>	<input type="text" value="No"/>
<i>Use MAC Header:</i>	<input type="text" value="No"/>
<i>RFC2543 Hold:</i>	<input type="radio"/> No <input checked="" type="radio"/> Yes

- 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 1 - REGISTER Only 2 - Yes to all request SIP	0 - NO
29190	MAC in User-Agent (FXS Port 2/ Profile 2)	0 - NO 1 - REGISTER Only 2 - Yes to all request SIP	0 - NO