

HT801/HT802 Firmware Release Note

IMPORTANT UPGRADING NOTE

- Once HT802 is upgraded to 1.0.3.7 or above, downgrading to 1.0.2.x firmware version or lower is not supported.
- Once HT802 is upgraded to 1.0.2.7, downgrading to 1.0.1.x firmware version or lower is not supported.

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FIRMWARE VERSION 1.0.3.7

PRODUCT NAME

HT802 and HT801

DATE

07/05/2017

IMPORTANT UPGRADING NOTE

- **Once HT802/HT801 is upgraded to 1.0.3.7, downgrading to 1.0.2.x firmware version or lower is not supported.**

ENHANCEMENT

- Added option “Use Actual Ephemeral Port in Contact with TCP/TLS” to force device to use actual ephemeral port. [USE ACTUAL EPHEMERAL PORT IN CONTACT WITH TCP/TLS]
- Added option “SIP URI Scheme When Using TLS” to choose between ‘SIP’ and ‘SIPS’. [SIP URI SCHEME WHEN USING TLS]
- Added Option “Backup Outbound Proxy” to use backup Outbound Proxy if Outbound Proxy registration expires. [BACKUP OUTBOUND PROXY]
- Added option “Prefer Primary Outbound Proxy” to enable registration through primary outbound proxy if registration expires. [PREFER PRIMARY OUTBOUND PROXY]
- Added option “Enable RTCP” to enable RTCP function through Web UI. [ENABLE RTCP]
- Added option “Hold Target Before Refer” to enable device to hold before being referred. [HOLD TARGET BEFORE REFER]
- Added Option “Enable Session Timer” to disable session timer. [ENABLE SESSION TIMER]
- Added feature “Conference URI” to support Conference URI. [CONFERENCE URI]
- Added feature “White List for WAN Side” for remote management. [WHITE LIST FOR WAN SIDE]
- Added feature “Black List for WAN Side” for remote management. [BLACK LIST FOR WAN SIDE]
- Added option “Web Access Mode” to choose between “HTTPS” and “HTTP” to access device Web UI. [WEB ACCESS MODEe]
- Added feature “HTTPS Web Port” to set HTTPS web port instead of using default HTTPS port. [HTTPS WEB PORT]
- Added feature “SSH Port” to self-configure SSH port. [SSH PORT]
- Added SNMP related features. [SNMP]

BUG FIX

- Fixed device could not offhook and it keeps sending registration packet after call is canceled.

- Fixed device would not send SIP Register message to failover SIP server when registration to primary SIP server fails.
- Fixed device does not contact ACS after being provisioned from GAPS.
- Fixed device is missing parameter on TR-069.
- Fixed device does not send keep-alive signal on initial provision.
- Fixed device session re-transmission mechanism does not work.
- Fixed device crashes randomly without generating core dump.

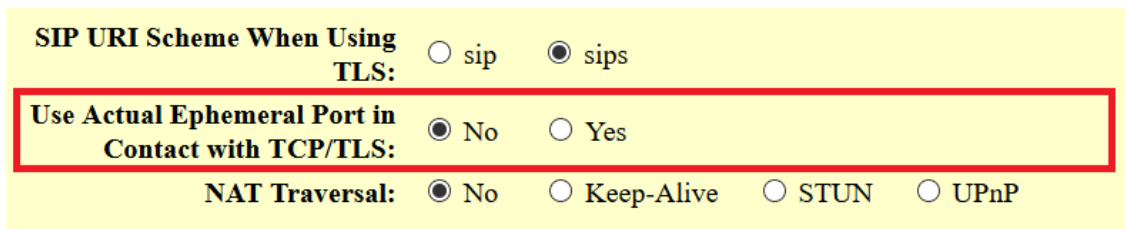
NEW FEATURES OVERVIEW

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

USE ACTUAL EPHEMERAL PORT IN CONTACT WITH TCP/TLS

- **Web Configuration**

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



SIP URI Scheme When Using TLS: sip sips

Use Actual Ephemeral Port in Contact with TCP/TLS: No Yes

NAT Traversal: No Keep-Alive STUN UPnP

- **Functionality**

This option is used to control the port information in the Via header and Contact header. If set to “No”, these port numbers will use the permanent listening port on the phone. Otherwise, they will use the ephemeral port for the connection. The default setting is “No”.

- **New P Values**

Pvalue	Description	Value range	Default
P2331	Use Actual Ephemeral Port in Contact with TCP/TLS. (Profile 1)	0 – No 1 – Yes	0 – No
P2431	Use Actual Ephemeral Port in Contact with TCP/TLS. (Profile 2)	0 – No 1 – Yes	0 – No

SIP URI SCHEME WHEN USING TLS

- **Web Configuration**

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

SIP URI Scheme When Using TLS: <input type="radio"/> sip <input checked="" type="radio"/> sips
Use Actual Ephemeral Port in Contact with TCP/TLS: <input checked="" type="radio"/> No <input type="radio"/> Yes
NAT Traversal: <input checked="" type="radio"/> No <input type="radio"/> Keep-Alive <input type="radio"/> STUN <input type="radio"/> UPnP

- **Functionality**

Specifies if “sip” or “sips” will be used when TLS/TCP is selected for SIP Transport. The default setting is “sips”.

- **New P Values**

Pvalue	Description	Value range	Default
P2329	SIP URI Scheme When Using TLS. (Profile 1)	0 – No 1 – Yes	1 – Yes
P2429	SIP URI Scheme When Using TLS (Profile 2)	0 – No 1 – Yes	1 – Yes

BACKUP OUTBOUND PROXY

- **Web Configuration**

User can find the configuration under web UI -> Profile Settings page.

Outbound Proxy: <input type="text"/> (e.g., proxy.myprovider.com, or IP address, if any)
Backup Outbound Proxy: <input type="text"/> (e.g., proxy.myprovider.com, or IP address, if any)

- **Functionality**

If the user has configured backup outbound proxy, when the “Outbound Proxy” registration fails, device will use the backup outbound proxy. By default, this field is left empty.

- **New P Values**

Pvalue	Description	Value range	Default
P2333	Backup Outbound Proxy. (Profile 1)	96 - Max String Length	Null
P2433	Backup Outbound Proxy. (Profile 2)	96 – Max String Length	Null

PREFER PRIMARY OUTBOUND PROXY

- **Web Configuration**

User can find the configuration under web UI -> Profile Settings page.

Prefer Primary Outbound Proxy: No Yes (yes - will reregister via Primary Outbound Proxy if registration expires)

SIP Transport: UDP TCP TLS (default is UDP)

- Functionality**

If the user configures this option to “Yes”, when registration expires, device will re-register via primary outbound proxy. By default, this option is disabled.

- New P Values**

Pvalue	Description	Value range	Default
P28096	Prefer Primary Outbound Proxy. (Profile 1)	0 – No 1 – Yes	0 – No
P28097	Prefer Primary Outbound Proxy. (Profile 2)	0 – No 1 – Yes	0 – No

ENABLE RTCP

- Web Configuration**

User can find the configuration under web UI -> Profile Settings page.

Use Random RTP Port: No Yes

Enable RTCP: No Yes

- Functionality**

This option allow user to enable RTCP. The default setting is “Yes”.

- New P Values**

Pvalue	Description	Value range	Default
P2392	Enable RTCP. (Profile 1)	0 – No 1 – Yes	1 – Yes
P2492	Enable RTCP. (Profile 2)	0 – No 1 – Yes	1 – Yes

HOLD TARGET BEFORE REFER

- Web Configuration**

User can find the configuration under web UI -> Profile Settings page.

Enable RTCP: No Yes

Hold Target Before Refer: No Yes

Refer-To Use Target Contact: No Yes

- Functionality**

This function allows user to hold or not hold the phone call before referring. The default setting is “Yes”.

- **New P Values**

Pvalue	Description	Value range	Default
P26003	Hold Target Before Refer. (Profile 1)	0 – No 1 – Yes	1 – Yes
P26103	Hold Target Before Refer. (Profile 2)	0 – No 1 – Yes	1 – Yes

ENABLE SESSION TIMER

- **Web Configuration**

User can find the configuration under Web -> Profile Settings page.

Special Feature:

Enable Session Timer: No Yes

- **Functionality**

If set this option to “No”, session timer will be disabled. By default, this option is enabled.

- **New P Values**

Pvalue	Description	Value range	Default
P2395	Enable Session Timer. (Profile 1)	0 – No 1 – Yes	1 – Yes
P2495	Enable Session Timer. (Profile 2)	0 – No 1 – Yes	1 – Yes

CONFERENCE URI

- **Web Configuration**

User can find the configuration under web UI -> Profile Settings page.

Add Auth Header On Initial REGISTER: No Yes

Conference URI:

- **Functionality**

This option allows to manually configure conference URL. The default is null.

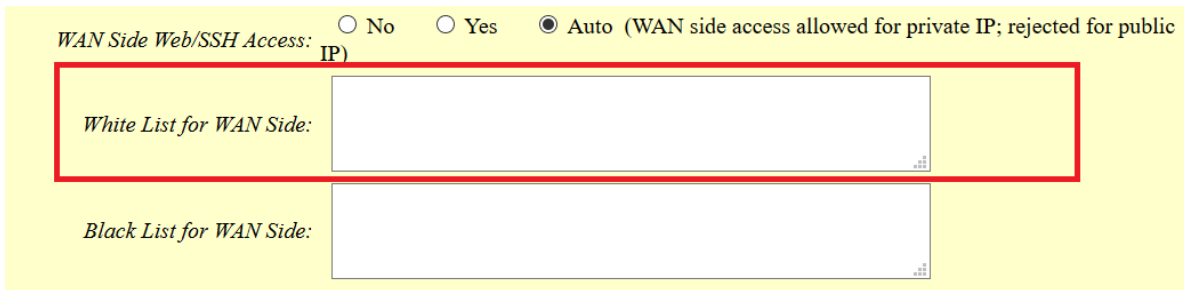
- **New P Values**

Pvalue	Description	Value range	Default
P2318	Conference URI. (Profile 1)	1024 - Max String Length	Null
P2418	Conference URI. (Profile 2)	1024 – Max String Length	Null

WHITE LIST FOR WAN SIDE

- Web Configuration**

User can find the configuration under web UI -> Basic Settings page.



WAN Side Web/SSH Access: No Yes Auto (WAN side access allowed for private IP; rejected for public IP)

White List for WAN Side:

Black List for WAN Side:

- Functionality**

This function allows users to list White List for WAN Side used for remote management.

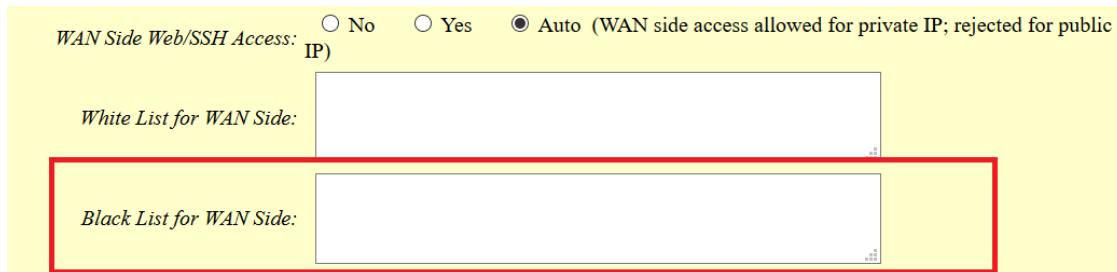
- New P Values**

Pvalue	Description	Value range	Default
P20701	White List for WAN Side	3 –Rows 51 – Columns	Null

BLACK LIST FOR WAN SIDE

- Web Configuration**

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



WAN Side Web/SSH Access: No Yes Auto (WAN side access allowed for private IP; rejected for public IP)

White List for WAN Side:

Black List for WAN Side:

- Functionality**

This function allows users list Black List for WAN Side to ban WAN side web access.

- New P Values**

Pvalue	Description	Value range	Default
P20702	Black List for WAN Side	3 –Rows 51 – Columns	Null

WEB ACCESS MODE

- Web Configuration**

User can find the configuration under web UI -> Basic Settings page.

Web/SSH Access:

Web Access Mode: HTTPS HTTP

HTTP Web Port: (default is 80)

- Functionality**

This function enables user to choose Web Access Mode between “HTTPS” and “HTTP”. If “HTTPS” is selected, web UI will be accessed using HTTPS. By default, “HTTP” is selected.

- New P Values**

Pvalue	Description	Value range	Default
P1650	Web Access Mode	0 – HTTPS 1 – HTTP	1 – HTTP

HTTPS WEB PORT

- Web Configuration**

User can find the configuration under web UI -> Basic Settings page.

HTTP Web Port: (default is 80)

HTTPS Web Port: (default is 443)

- Functionality**

This feature enables user to self-configure HTTPS Web Port. By default, the port number is 443.

- New P Values**

Pvalue	Description	Value range	Default
P27010	HTTPS Web Port	5 - Max String Length	443

SSH PORT

- Web Configuration**

User can find the configuration under web UI -> Basic Settings page.

Disable SSH: No Yes

SSH Port:

- Functionality**

This feature enables user to self-configure SSH Port number. By default, the port number is 22.

- **New P Values**

Pvalue	Description	Value range	Default
P27006	SSH Port	5 - Max String Length	22

SNMP

- **Web Configuration**

Users can find the configuration under web UI -> Advanced Setting page.

Enable SNMP: No Yes

SNMP Trap Community:

SNMP Trap IP Address:

SNMP Trap Port: (162 or 1025-65535. Default 162)

SNMP Trap Version: ▾

SNMP Trap Interval: (1-1440. Default 5 minutes)

- **Functionality**

This feature allows user to configure SNMP function, included “Enable SNMP”, “SNMP Trap Community”, “SNMP Trap IP Address”, “SNMP Trap Port”, “SNMP Trap Version”, and “SNMP Trap Interval”.

- **New P Values**

Pvalue	Description	Value range	Default
P21896	Enable SNMP	0 – No 1 – Yes	0 – No
P21897	SNMP Trap IP Address	64 – Max String Length	Null
P21898	SNMP Trap Port	5 – Max String Length	162
P21901	SNMP Trap Interval	4 – Max String Length	5
P21900	SNMP Trap Community	64 – Max Length	Null
P21899	SNMP Trap Version	1 – Version 1 2 – Version 2c	2 – Version2c

FIRMWARE VERSION 1.0.3.2

PRODUCT NAME

HT802

DATE

1/27/2017

IMPORTANT UPGRADING NOTE

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

ENHANCEMENT

- Added option "DNS SRV use Registered IP" to force DNS SRV to use registered IP instead of use the first SRV.
- Changed default NTP server from us.pool.ntp.org to pool.ntp.org.

BUG FIX

- Fixed If NOTIFY arrives within 32 seconds of last NOTIFY that the device will generate a 500 Error.
- Fixed after device booted up, NTP synchronize will reach MWI SUBSCRIBE expiration and renew SUBSCRIBE immediately.
- Fixed device cannot be provision "SIP Authentication ID" via TR-069
- Fixed problem that sip response status code sometimes displayed in hex number in syslog
- Fixed device cannot get IP if SIP/RTP Layer 2 QoS priority is not set to 0.
- Fixed when device received HTTP 302 redirect to a HTTPS server, device cannot switch to the new IP address.
- Fixed device does not download the firmware and configuration file form option66 server via http and https
- Fixed that in DHCP option 66/160, IP address does not support HTTP and HTTPS prefix but only support default TFTP prefix.
- Fixed device does not carry Proxy-Require field when the proxy is a domain.
- Fixed in PPPoE IP mode, disconnect/connect the uplink network cable will cause the network LED keep blinking.

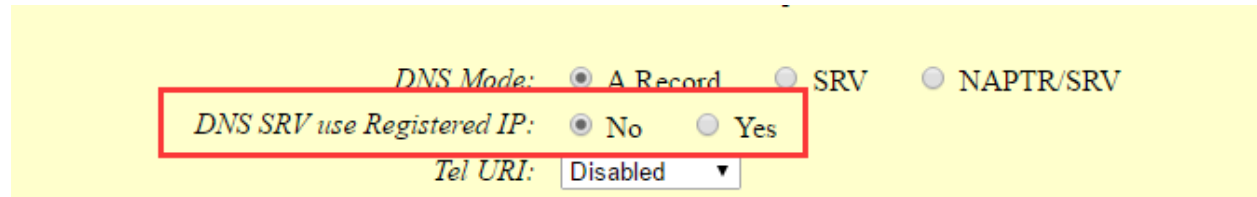
NEW FEATURES OVERVIEW

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

DNS SRV use Registered IP

- **Web Configuration**

User can find the re-enter confirm box at Web -> Profile Settings



- **Functionality**

If set this option to “Yes”, when registered on second SRV and making an outbound call, it will try the second SRV (registered IP) first. By default, this option is disabled and the DNS SRV will use first SRV instead of the registered IP.

- **New P Values**

Pvalue	Description	Value range	Default
P28092	DNS SRV use Registered IP. (FXS 1)	0 – No 1 – Yes	0 – No
P28093	DNS SRV use Registered IP. (FXS 2)	0 – No 1 – Yes	0 – No

FIRMWARE VERSION 1.0.2.7

PRODUCT NAME

HT802

DATE

11/10/2016

IMPORTANT UPGRADING NOTE

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

ENHANCEMENT

- None.

BUG FIX

- Fixed HT802 cannot factory reset through webpage.
- Fixed HT802 failed to send 10-page fax.
- Fixed HT802 WAN port LED will light about 10s during boot up without connecting any network cables.

FIRMWARE VERSION 1.0.2.5

PRODUCT NAME

HT802

DATE

11/07/2016

IMPORTANT UPGRADING NOTE

- **For HT802, once upgraded to 1.0.2.5 or above, downgrading to 1.0.1.x firmware version or lower is not supported.**

KNOWN ISSUE

- Factory reset via web UI is not allowed on HT802 firmware 1.0.2.5.

ENHANCEMENT

- Changed OPUS Payload Type default value to 123 to match other GS products.

BUG FIX

- Fixed The value of DTMF payload can be set to empty.
- Fixed HT802 would crash after failed attended transfer as transferee.
- Fixed HT802 does not play ring back tone in Broadsoft mode if Call-Waiting Caller ID is disabled.
- Fixed No CID with callback from call on hold.
- Fixed Call audio would become very poor If change RTP mode to SRTP after call transferred.
- Fixed Device did not prompt "Device not registered" when use Spanish IVR.
- Fixed DUT cannot open configure file that download through TR-069.

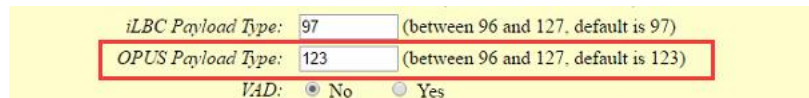
NEW FEATURES OVERVIEW

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

OPUS Payload Type Default Value

- **Web Configuration**

User can find the re-enter confirm box at Web -> FXS Port Settings



The screenshot shows a configuration form with the following fields:

- iLBC Payload Type:* 97 (between 96 and 127, default is 97)
- OPUS Payload Type:* 123 (between 96 and 127, default is 123)
- VAD:* No Yes

The *OPUS Payload Type* field is highlighted with a red box.

- **Functionality**

Change OPUS Payload Type default value to 123.

FIRMWARE VERSION 1.0.2.3

PRODUCT NAME

HT802

DATE

10/05/2016

IMPORTANT UPGRADING NOTE

- **For HT802, once upgraded to 1.0.2.3 or above, downgrading to 1.0.1.x firmware version or lower is not supported.**

ENHANCEMENT

- Added a re-enter box to confirm change user and admin password on web GUI to avoid typo or mistakes. [PASSWORD CHANGE CONFIRMATION]

BUG FIX

- Fixed the problem that Configure File Prefix (P234) is set to '/' and cannot download configure file correctly.
- Fixed HT802 cannot off-hook normally when register server is domain and sip transport is TLS
- Fixed call waiting tone only play once.
- Fixed HT802 used an incorrect User-Agent when sending configure file request to UCM.
- Fixed HT802 will play ring back tone after playing call waiting tone.
- Fixed If the value of On Hook Timing set to less than 80ms, the FXS port cannot detect on hook event.
- Fixed After changed sip port, only account 1 will take effect and all other accounts will use random port instead.
- Fixed When setting the language to "Spanish IVR", some options on web page will display Spanish.

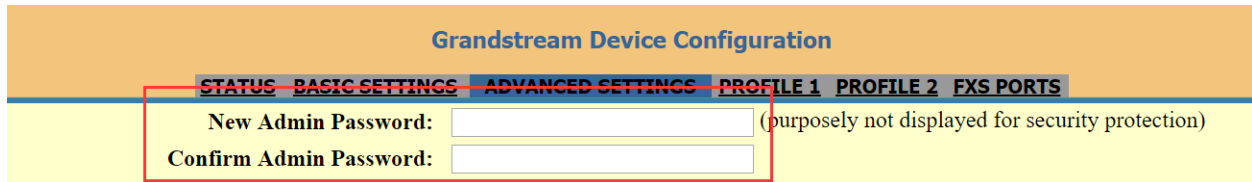
NEW FEATURES OVERVIEW

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

PASSWORD CHANGE CONFIRMATION

- **Web Configuration**

User can find the re-enter confirm box at Web -> Advanced Settings



The screenshot shows the 'Grandstream Device Configuration' web interface. At the top, there is a navigation bar with tabs: STATUS, BASIC SETTINGS, ADVANCED SETTINGS, PROFILE 1, PROFILE 2, and FXS PORTS. The 'ADVANCED SETTINGS' tab is selected. Below the navigation bar, there are two input fields: 'New Admin Password:' and 'Confirm Admin Password:'. The 'New Admin Password' field is followed by the text '(purposely not displayed for security protection)'. A red box highlights the two password input fields.

- **Functionality**

When change admin password, re-enter the changed password to confirm the new password is correctly entered.