

HT841/HT881 Firmware Release Notes

IMPORTANT UPGRADING NOTE

Table of Content

IMPORTANT UPGRADING NOTE.....	1
FIRMWARE VERSION 1.0.7.3	4
PRODUCT NAME.....	4
DATE.....	4
FIRMWARE FILE INFORMATION	4
ENHANCEMENT	4
BUG FIX.....	4
FIRMWARE VERSION 1.0.5.10	5
PRODUCT NAME.....	5
DATE.....	5
FIRMWARE FILE INFORMATION	5
ENHANCEMENT	5
FIRMWARE VERSION 1.0.5.9	6
PRODUCT NAME.....	6
DATE.....	6
FIRMWARE FILE INFORMATION	6
ENHANCEMENT	6
BUG FIX.....	6
NEW FEATURES OVERVIEW	7
<i>Enable Early Media for VoIP-to-PSTN Calls</i>	7
<i>Request URI Routing ID</i>	7
<i>Auto Send DTMF Upon Call Start</i>	8
<i>RTP/RTCP Keep Alive on Hold</i>	8
FIRMWARE VERSION 1.0.3.4	10
PRODUCT NAME.....	10
DATE.....	10
FIRMWARE FILE INFORMATION	10
ENHANCEMENT	10
BUG FIX.....	10
NEW FEATURES OVERVIEW	10
<i>Polarity On Answer Delay</i>	10
<i>AVS DTMF Detector Parameters</i>	11
<i>Radius Auth Protocol</i>	11

FIRMWARE VERSION 1.0.1.2	13
PRODUCT NAME	13
DATE	13
FIRMWARE FILE INFORMATION	13
ENHANCEMENT	13

FIRMWARE VERSION 1.0.7.3

PRODUCT NAME

HT841, HT881

DATE

07/01/2024

FIRMWARE FILE INFORMATION

- Firmware file name: ht8x1fw.bin
MD5: 0f838418ec2fff575a830b7aabd65992

ENHANCEMENT

- Added IVR support to check Device Individual Certificate information.
- Added support to sort downloaded XML config file p-values in ascending order.
- Added support for p-value not on WebUI:
P82307 Syslog Setting and Internal Logs Protection. (0- No, 1- Yes. The default is 0.
If set to '1 - Yes', Syslog settings and internal logs will be saved across a factory reset)

BUG FIX

- Fixed the Inbound SRTP call fails with "488 Not Acceptable Here" due to the index value of 88 used by Netsapiens.
- Fixed the issue which caused Registration spamming.
- Fixed unit can't establish SRTP Session after re-invite.
- Fixed a bug that caused the device not to request the config file until a reboot.
- Fixed device UAC will re-attempt requests with the same Credentials after 403 Forbidden.
- Fixed a bug that caused CID not to be detected using Bellcore Scheme.
- Fixed an issue of WebUI wording change request for DNS SRV failover.
- Fixed the bug of Prompt Tone Access Code was removed from the DTMF buffer.

FIRMWARE VERSION 1.0.5.10

PRODUCT NAME

HT841, HT881

DATE

04/28/2024

FIRMWARE FILE INFORMATION

- Firmware file name: ht8x1fw.bin
MD5: 6ea8117d84f686c96785d246a5f90e62

ENHANCEMENT

- Set the “Disable User Level Web Access” (P28158) to “Yes” by default.
- Set the “Disable Viewer Level Web Access” (P28159) to “Yes” by default.
- Force user to change the password upon first login using the default password to the Admin/User/Viewer Account.

FIRMWARE VERSION 1.0.5.9

PRODUCT NAME

HT841, HT881

DATE

04/23/2024

FIRMWARE FILE INFORMATION

- Firmware file name: ht8x1fw.bin
MD5: 099b15ce88c7a34406c08eeaa4a0c72c

ENHANCEMENT

- Added support for New WebUI.
- Added support for "Enable Early Media for VoIP-to-PSTN Calls".[Enable Early Media for VoIP-to-PSTN Calls]
- Added support tone configuration by port. (Check the changelog for the details)
- Added support for "Request URI Routing ID" on FXO port. [Request URI Routing ID]
- Added support "SIP Destination Port" on the "Port Status" page. (WebUI->Status->Port Status)
- Added the status check whether local sip ports are the same between different profiles.
- Update the FXO's Hook Flash Timing from "300 – 1500" to "100 – 1500".
- Added support for "Auto Send DTMF Upon Call Start".[Auto Send DTMF Upon Call Start]
- Update the "DSP DTMF Detector SNR" value range from "0 – 2" to "0 – 12".
- Added RTP/RTCP Keep Alive on Hold. [RTP/RTCP Keep Alive on Hold]
- Added support for p-value not on WebUI:
Initial Line Polarity (P28834/28835/28836) (0 - Forward, 1 – Reverse. Default is 1)

BUG FIX

- Fixed the DDNS does not work issue.
- Fixed unit stops responding after a couple of hours.
- Fixed an issue that causes the caller not to hear the echo when leaving a message on the answering machine.
- Fixed a bug that caused the device to freeze after a few hours.
- Fixed an issue with the registration.
- Fixed a bug that caused the call to fail when the DDI line was connected to the FXS port of the device on the Macau DDI environment.
- Fixed the remote party perceiving echo.
- Fixed the Inaccurate encoding and decoding of DTMF durations with SIP Info.
- Fixed the Peer trunk with the FXO profile fails issue.
- Fixed the SRTP decrypt RTP fail causing one-way audio after a 20+ minute call.

- Fixed no audio on 200ok/ack with UAS on outbound calls.
- Fixed device cannot connect to OpenVPN server issue.

NEW FEATURES OVERVIEW

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

Enable Early Media for VoIP-to-PSTN Calls

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

PIN for PSTN-to-VoIP Calls ?

Enable Early Media for VoIP-to-PSTN Calls ? No Yes

- **Functionality**

This feature allows users to set the in-band ringtone option to hear ringtones and other alert tones in reverse polarity signals and supports responding with 183 progress on the FXO port.

Pvalue	Description	Value Range	Default
28830 28831	Enable Early Media for VoIP-to-PSTN Calls	Number: 0 – No 1 – Yes	0 – No

Request URI Routing ID

Users can find the configuration section in Web -> Port Settings-> FXO PORTS.

Hunting Group	Request URI Routing ID	Enable Port
Disabled v	<input style="width: 100px; height: 20px;" type="text"/>	<input type="radio"/> No <input checked="" type="radio"/> Yes
Disabled v	<input style="width: 100px; height: 20px;" type="text"/>	<input type="radio"/> No <input checked="" type="radio"/> Yes
Disabled v	<input style="width: 100px; height: 20px;" type="text"/>	<input type="radio"/> No <input checked="" type="radio"/> Yes
Disabled v	<input style="width: 100px; height: 20px;" type="text"/>	<input type="radio"/> No <input checked="" type="radio"/> Yes
Disabled v	<input style="width: 100px; height: 20px;" type="text"/>	<input type="radio"/> No <input checked="" type="radio"/> Yes
Disabled v	<input style="width: 100px; height: 20px;" type="text"/>	<input type="radio"/> No <input checked="" type="radio"/> Yes
Disabled v	<input style="width: 100px; height: 20px;" type="text"/>	<input type="radio"/> No <input checked="" type="radio"/> Yes
Disabled v	<input style="width: 100px; height: 20px;" type="text"/>	<input type="radio"/> No <input checked="" type="radio"/> Yes

- **Functionality**

This feature allows users to set up a specific FXO port on the outbound call when using FXO Hunting Group.

Pvalue	Description	Value Range	Default
4670	Request URI Routing ID	Number: Max Length 64	(Null)
4671			
4672			
4673			
4674			
4675			
4676			
4677			

Auto Send DTMF Upon Call Start

Users can find the configuration section in Web -> FXO Profile 1 or 2-> Call Settings.

Auto Send DTMF Upon Call Start ?

Early Dial ?
 No
 Yes

- **Functionality**

This feature allows users to set DTMF digits to send to the TDM side after the call from the VoIP side gets started.

Pvalue	Description	Value Range	Default
28845	Auto Send DTMF Upon Call Start	Number: Max Length 16	(Null)
28846			

RTP/RTCP Keep Alive on Hold

Users can find the configuration section in Web -> FXS or FXO Profile-> SIP Settings.

Use Random RTP Port ?
 No
 Yes

RTP/RTCP Keep Alive On Hold ?
 No
 Yes

Hold Target Before Refer ?
 No
 Yes

This feature allows users to set the RTP/RTCP keep Alive on Hold feature. If the RTCP is enabled, the device stops sending RTCP packets once the call is put on hold.

Pvalue	Description	Value Range	Default
28839	RTP/RTCP Keep Alive On Hold	Number:	0
28840		0 – No	
28841		1 – Yes	

FIRMWARE VERSION 1.0.3.4

PRODUCT NAME

HT841, HT881

DATE

10/23/2023

FIRMWARE FILE INFORMATION

- Firmware file name: ht8x1fw.bin
MD5: c07b9582ff0e837e3491edab1fe8f62f

ENHANCEMENT

- Added support “Polarity On Answer Delay”. [Polarity On Answer Delay]
- Updated config file download request starts from cfgMAC.xml.
- Added new value “4 - Auto” in NAT Traversal(P52/730/630).
- Added support “AVS DTMF Detector Parameter” [AVS DTMF Detector Parameters]
- Added support “Radius auth protocol”. [Radius Auth Protocol]
- Removed “Ring Timeout” (P816/516) from FXO page.

BUG FIX

- Fixed DNS SRV Failover fails when "Check Domain Certificates" is enabled.
- Fixed device config file download request does not start from cfgMAC.xml.
- Fixed NAT Traversal does not have the "Auto" option.
- Fixed Call Waiting CID cannot be displayed.
- Fixed an issue caused device echo during calls.

NEW FEATURES OVERVIEW

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

Polarity On Answer Delay

Users can find the configuration section in Web -> FXO Profile -> FXO Termination

Enable Polarity Reversal: No Yes (Default No. Check with your PSTN carrier before setting to Yes)

Polarity On Answer Delay: (200-30000 milliseconds. Default 1000 milliseconds)

- **Functionality**

This feature allows users to configure the Polarity On Answer Delay.

Pvalue	Description	Value Range	Default
28825 28826	Polarity On Answer Delay	Number: 200 - 30000	1000

AVS DTMF Detector Parameters

User can find the configuration section in Web -> FXO Profile/FXO Profile.

DSP DTMF Detector Min Level: (-45-0 dBm, default is -25)
DSP DTMF Detector Snr: (0-2, default is 1)
DSP DTMF Detector Deviation: (0-25, default is 25)
DSP DTMF Detector Twist: (0-12 dB, default is 5)
Disable DTMF Negotiation: No (negotiate with peer) Yes (use above)

- **Functionality**

This feature allows users to configure the AVS DTMF detector related parameters. DSP DTMF Detector Min Level sets the minimum level required for DTMF tone to be considered valid, DSP DTMF Detector SNR sets the Maximum signal-to-noise ratio required for DTMF tone to be considered valid, DSP DTMF Detector Deviation sets the deviation, above and below the central frequency, DSP DTMF Detector Twist sets the maximum value by which one frequency energy level can surpass another frequency energy level.

Pvalue	Description	Value Range	Default
28804 28805 28806	DSP DTMF Detector Min Level	Number: -45 – 0	-25
28808 28809 28810	DSP DTMF Detector SNR	Number: 0 – 2	1
28812 28813 28814	DSP DTMF Detector Deviation	Number: 0 – 25	25
28816 28817 28818	DSP DTMF Detector Twist	Number: 0 – 12	5

Radius Auth Protocol

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

Error: Reject Access Authenticate Locally

RADIUS Auth Protocol:

RADIUS Auth Server Address:

RADIUS Auth Server Port:

RADIUS Shared Secret:

- **Functionality**

This feature allows users to configure RADIUS authentication protocol.

Pvalue	Description	Value Range	Default
28803	RADIUS Auth Protocol	Number: 0 – PAP 1 – CHAP 2 – MsCHAPv1 3 – MsCHAPv2	0 – PAP

FIRMWARE VERSION 1.0.1.2

PRODUCT NAME

HT841, HT881

DATE

09/04/2023

FIRMWARE FILE INFORMATION

- firmware file name: ht8x1fw.bin

MD5: a22de4261464c204dd4b6029c8fbb92d

ENHANCEMENT

- This is the initial release version of HT8X1 firmware.