RELEASE NOTES

Product: HTL-FRA (ref.3857)
HTL-ST2 (ref. 3858)
HTL-TT2 (ref. 3859)
HTL-STC (ref. 3860)
HTL-TRX (ref.3861)

Version: 6.2.1

Date: 27/07/20

1. GENERAL INFORMATION

1.1 Purpose and coverage

HTL products are ClassA twin transmodulator range, supporting 2 independent DVB-S/S2, DVB-T/T2 or DVB-C input signals (depending on the model) as well as 2 DVB-T or DVB-C outputs, with H.264 to MPEG2 SD transcoding capability (depending on the model). It also includes a Common Interface for service decryption (depending on the model).

This document describes the new features, compatibility issues, solved problems, and known issues associated with this product release.

1.2 List of releases

- 6.2.1
- 6.1.0
- 6.0.2
- 6.0.1
- 6.0.0
- 5.1.0 (only HTL-ST2)
- 5.0.1 (only HTL-TT2)

1.3 Product identification

1.3.1 Software review

Software release of the system is checked through a web browser.

After accessing HTI headend via the web, go to Headend Main Parameters Configuration / Headend Firmware. Check information of Version.

Headend Main Parameters Configuration

Identification	Password	Internet Access	Country	Audio Language	LNB and Multiswitch	Headend Firmware	Configuration Backup

Default Configuration

Name	Model	Version	Info
HTL-ST2-03CF6E	HTL-ST2	5.1.0	✔
HTL-ST2-03D168	HTL-ST2	5.1.0	✔

Add Firmware file...

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1.3.2 Hardware review

Not applicable. All HW versions are supported.

1.4 Compatibility information

1.4.1 Supported HW

Not applicable. All HW versions are supported.

1.4.2 Backwards compatibility notes

It is not possible to downgrade.

2. RELEASE HISTORY

- **Software release 6.2.1** (27/07/2020)
  - ○ **New features**
    - ■ Support for modules with HW version 1.0.7 .
  - ○ **Resolved issues**
    - ■ Incompatibility with Stream System TVs.
    - ■ False output saturation alarms on some muxes.
  - ○ **Known issues**
    - ■ Same as 6.1.0.

- **<u>Software release 6.1.0</u>** (15/04/2019)
  - **New features**
    - DVB-S2 Multistream support on HTL-STC/HTL-TRX .
    - DVB-T2 multi-PLP Support on HTL-STC/HTL-TRX.
    - Movistar+ Mediaguard CAM support.
  - **Resolved issues**
    - None
  - **Known issues**
    - DVB-C output has a residual BER.
    - Installation Wizard does not support DVB-C inputs.

- **<u>Software release 6.0.2</u>** (02/11/2017)
  - **New features**
    - None.
  - **Resolved issues**
    - An error message appeared when trying to update an HTL-TRX, due to the transcoding board was not updated correctly.
  - **Known issues**
    - DVB-C output has a residual BER.

- **<u>Software release 6.0.1</u>** (30/10/2017)
  - **New features**
    - Support for Startimes CAM.
    - Support for C band satellite signals reception.
    - Access to CAM user interface (MMI) has been improved.
  - **Resolved issues**
    - The behavior of the inputs can't be modified (from 2 inputs to 1 input + loop-through).
    - C/N value shown in the user interface is not correct.
    - When a backup is applied, the input type is not updated properly.
    - Inputs can't be enabled/disabled through the remote access.
  - **Known issues**
    - DVB-C output has a residual BER.
    - An error message appears when trying to update an HTL-TRX, due to the transcoding board was not updated correctly.

- **<u>Software release 6.0.0</u>** (18/04/2017)
  - **New features**
    - HTL-STC is supported.
    - HTL-TRX is supported.

- Parameters shown in the user interface are simplified and unified in the four models.
- Automatic connection with IKUSI central server for centralized technical support.
- Information about maximum bit rate reported by the module is shown in the user interface.

○ **Resolved issues**
- Roll-off in DVB-C output mode is not properly configured.
- Changing the terrestrial autoscan mode, the output services were removed.
- Some errata in the text of the user interface have been corrected.

○ **Known issues**
- DVB-C output has a residual BER.
- An error message appears when trying to update an HTL-TRX, due to the transcoding board was not updated correctly.

- **Software release 5.1.0 (only HTL-ST2)** (29/09/2016)
  ○ **New features**
  - Satellite advanced parameters have been removed (IQ format).
  ○ **Resolved issues**
  - LCN values set up in the master module weren't transmitted to the slave modules
  - Bug that didn't allow to save correctly the Maturity Rating option in the database fixed
  - Wizard showed the LCN when it shouldn't, whenever Spain was selected as country.
  ○ **Known issues**
  - DVB-C output has a residual BER.

- **Software release 5.0.1 (only HTL-TT2)** (26/09/2016)
  ○ **New features**
  - QAM output supported.
  - 2 outputs instead of 1.
  - Web interface now in english, spanish and french.
  - Australian frequency band supported.
  - More countries added on Wizard.
  - Web interface working on PHP7. Web's general performance has been improved.
  - Favicon added.
  - Input and output frequency information added in the service list.

- ■ Audio Language functionality added in order to prioritize the audio language on the services.
- ■ Button for deleting logs added.
- ○ **Resolved issues**
    - ■ After updating in a different language from the one by default, database language data and system language differed.
    - ■ Bug that didn't allow to add an empty slot fixed
    - ■ Output PMT stability improved.
    - ■ System boot improved.
    - ■ Terrestrial input accuracy improved.
    - ■ Output stability improved
    - ■ Update process accuracy improved
    - ■ Web Access time reduced
- ○ **Known issues**
    - ■ DVB-C output has a residual BER.
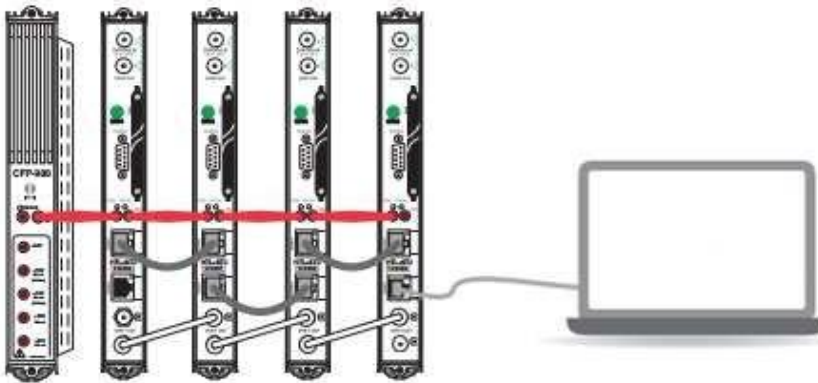
3. UPGRADE INSTRUCTIONS

3.1 Installation environment

3.2 Equipment/modules checking

Ensure that there are no configuration or hardware issues (service, signal, etc.). Check that there are not active alarms.

3.3 Software upgrade procedure

Follow these steps:

- Download the latest version from our website
  - HT-TRX/HTL-TT2 https://www.ikusi.tv/en/products/htl-trx
  - HTL-STC/HTL-FRA https://www.ikusi.tv/en/products/htl-stc
  - HTL-ST2 https://www.ikusi.tv/en/products/htl-st2
- Connect the headed to the PC using an Ethernet cable and start IKUSI Headend Discovery application. Push "Configure" button.
- Enter the following data, User: Admin Password: admin. Push Submit button. The main screen of the configuration interface will open.
- Go to Headend / Main Parameters / Headend Firmware.
- Click on the "Add Firmware file…" button to load the firmware.

Add Firmware file…

- Click on the "Upload" button to load the firmware.

Upload

- At the conclusion of the upgrade (15' approx), the browser will show the update report.

Hostname	Name	Version	Status	Date	Msg
HTL-ST2-03CF6E	HTL-ST2-03CF6E	5.1.0	✔	09-21-2016	OK
HTL-ST2-03D168	HTL-ST2-03D168	5.1.0	✔	09-21-2016	OK

RELEASE NOTES
Product: HTL-FTA, HTL-ST2, HTL-TT2, HTL-STC, HTL-TRX
Version: 6.2.1
Date: 27/07/2020