How to update firmware on STB Linux-WebKit

Current version of the software:

STB MAG-200

Other STB MAG Linux-WebKit

For STB MAG200

There is only one **NAND** in **STB MAG200**, so the updating variants from the main software menu, as **WEB (http)** & **USB (without Bootstrap using)** - are impossible. There is an ability to split **NAND** in **STB MAG200** into **NAND1** and **NAND2**. It is neccessary to use software image **imageupdate_2us** for this, which is in release catalogue. It is recommended to update using Multicast method. !!!Attention, after reset to the default settings from BIOS - **NAND1** and **NAND2** become to **NAND**!!!

Using the HTTP method from inner portal

⚠️ Beginning from firmware version ПО 0.2.14-r8 Public firmware versions [1] and manufacturer firmwares [2] (manufacturer firmware) are updating from embedded portal (HTTP, USB) on manufacturer firmware only. To update STB on Public firmware soft.infomir.com.ua it is necessary to use updating methods from Bootloader menu (Multicast, USB&Bootstrap ...). For STB updatign from embedded portal or MiddleWare using HTTP or USB storage device on custom/other firmwares which are different from manufacturer it is necessary to make customized image according new instructions.
Image making: Image making (PublicImage, CustomImage, OperatorImage)
SSH access in Public and manufacturer firmwares: SSH

"Settings" of the internal portal (Autoupdate firmware system)

- Open **"Settings"** of the internal portal;
- Choose **"Update software now"**;
- In the opened window **"Autoupdate"** choose the list of **"Available versions"** by pressing **"OK"** - The latest available version is on top of the list;
- Choose necessary firmware version;
- Move "focus" to **"Update"** using buttons on RC (up, down, left and right);
- Choose **"Update"** by pressing **"OK"** on RC;
- Wait untill STB will be updated. Updating process is desplayed as filling of progress-bar and comments. STB will be **rebooted automatically** after update.

"System settings" in the inner portal (From HTTP)

If you are using a standard software image (factory image), software will be updated from the server of factory on the current stable version.

- Go to **"System settings"** by pressing **«Setup»**, **«Services»** or **«SET»** on the remote control (depending on the version the remote control)
- **"Sofware update"** - Download method... **"From HTTP"**.
- **"Start Update"**.
- **"Verify"**. If the test is successful you'll see information about the availability of new versions of software.
- **"Start update"** - to begin the update.
- After the update successful - STB must be rebooted.

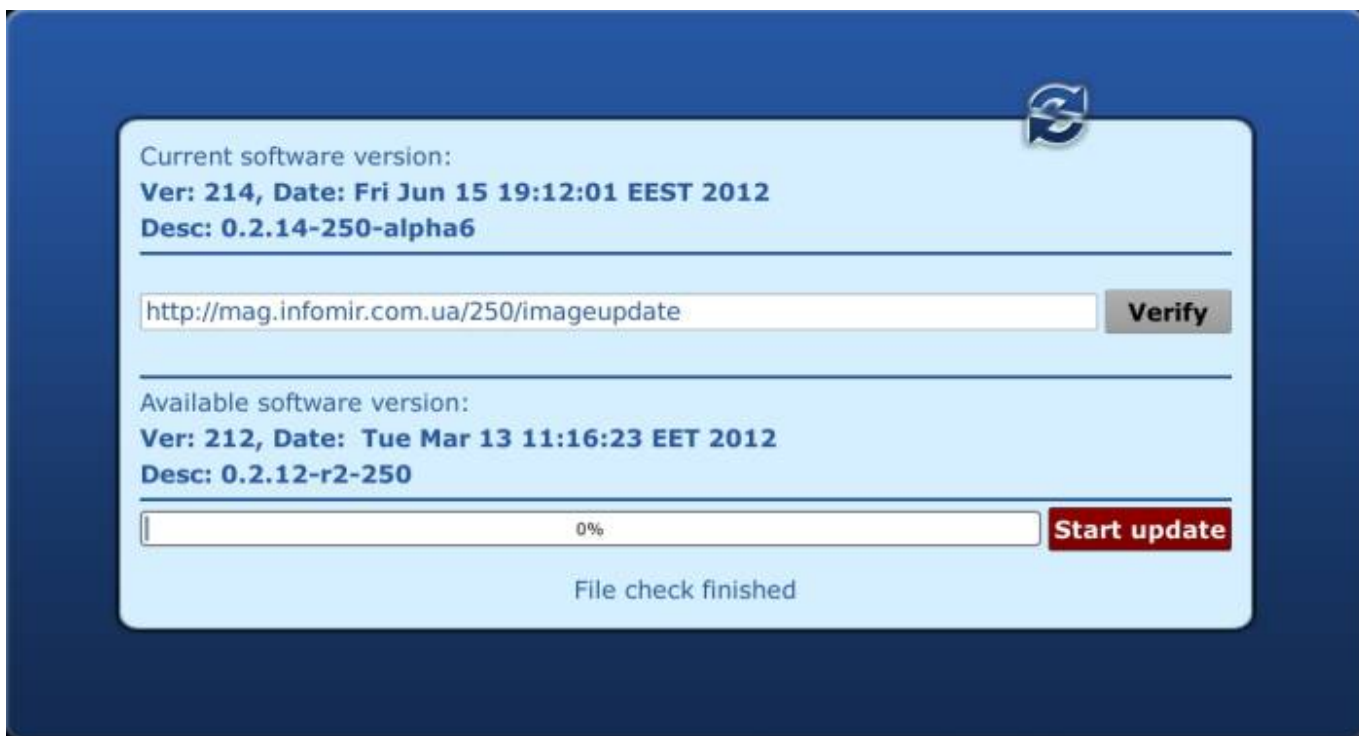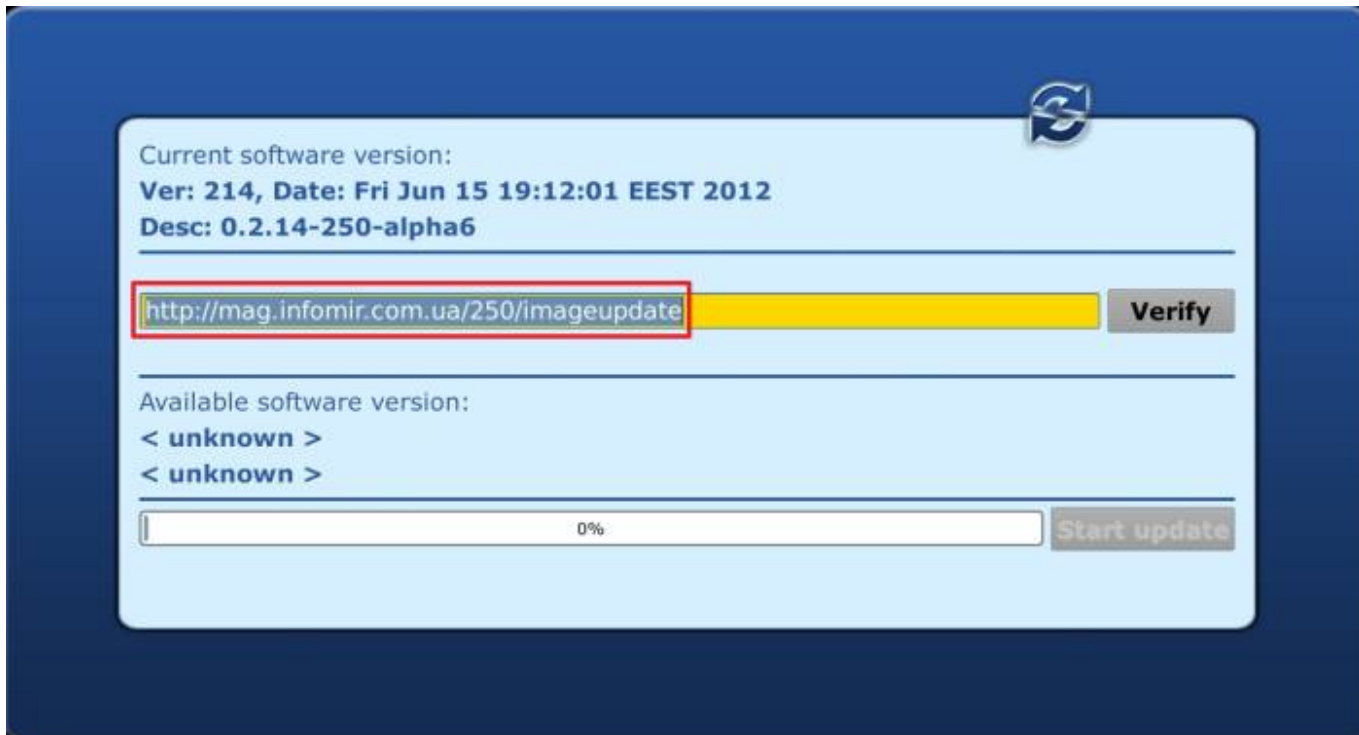In standart software image (factory image) there is such updating address:

for MAG200

```
http://mag.infomir.com.ua/200/imageupdate
```

for MAG250

```
http://mag.infomir.com.ua/250/imageupdate
```

The string is available for edition with help of virtual keyboard (button "KB" on the Remote Control) or USB keyboard.

Example

Using a USB flash drive

- On USB - drive, the file system **FAT32**, create a directory **mag200** to **STB MAG-200** and/or **mag250** to **STB MAG-250** (If your USB - drive multiple partitions, then use the first partition)
- Update using *bootstrap*:
  - Written in the directory **mag200(mag250)** files *imageupdate* and *bootstrap*. For STB MAG-250 file *bootstrap_250* renamed *bootstrap.*

- Update not using *bootstrap*:
    - Written in the directory *mag200(mag250)* file *imageupdate* which taken from releases from MAG200/250.
- If your STB MAG-200/250 several USB connectors then use to update the rear connector.

In the boot menu (BIOS)

On a USB drive should be two files *imageupdate* and *bootstrap*

1. Enter The BIOS
2. Select **"Upgrade Tools"**, pressing enter on the remote control to the right
3. Select **"USB Bootstrap"**
4. Connect the USB flash drive and click OK to confirm the beginning of the update process
5. Wait for the update, STB will reboot.

In an internal software

1. Go to "System settings" by pressing «Setup», «Services» or «SET» on the remote control (depending on the version the remote control)
2. Select **"Software update"**.
3. Select update **"From USB"** ⇒ **"Start update"**. If the preceding items are correct you will see a window with information about the current software version, select the drive or partition and the file path.
4. Select **"Verify"**. If the test is successful you'll see information about the availability of new versions of software.
5. Select **"Start update"** to begin the update.
6. After the update successful - STB must be rebooted.

Using Multicast

> **Requirements for Operational System:**
>
> Any version OS Microsoft Windows with support W .NET Framework 2.0 version and higher...

- Start the application on PC **MCAST_V2.0**. This activates the form of interface selection (selection of a network card), through which will be broadcast. To ensure smooth traffic flow IGMP and multicast is desirable that the PC and STB must be in the same address space within a single network device. At home, it is generally sufficient to PC and STB are connected to the same switch / router.
- After you select the interface on the main form of application to set the necessary parameters and Broadcasting to launch a process of broadcasting. If at the time the application is launched specially prepared files **(bootstrap, imageupdate)** were in the same folder, then the main

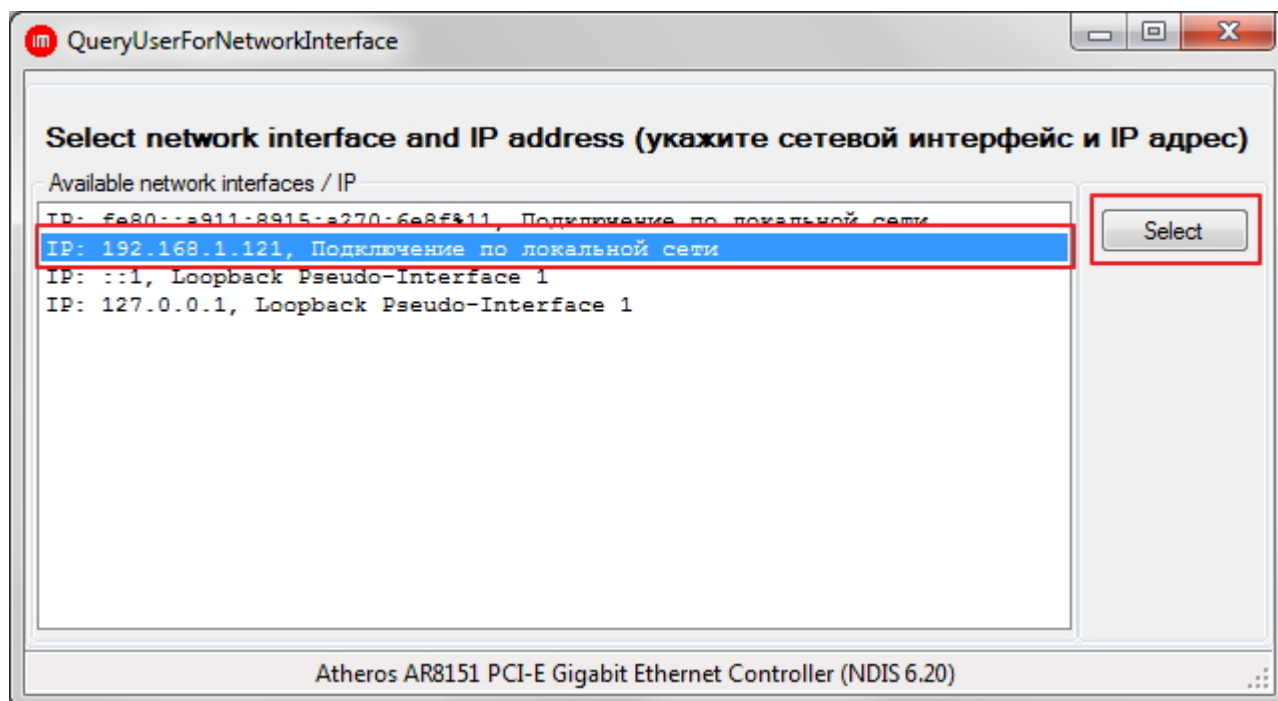form, enter any additional settings are required. Enough to start broadcasting two streams.

⚠ Attention! The **Bootstrap address** for various STB **may differ from the current**. The Bootstrap address displayed on the TV screen when the option "MC Upgrade" is enabled. Correct it if necessary.
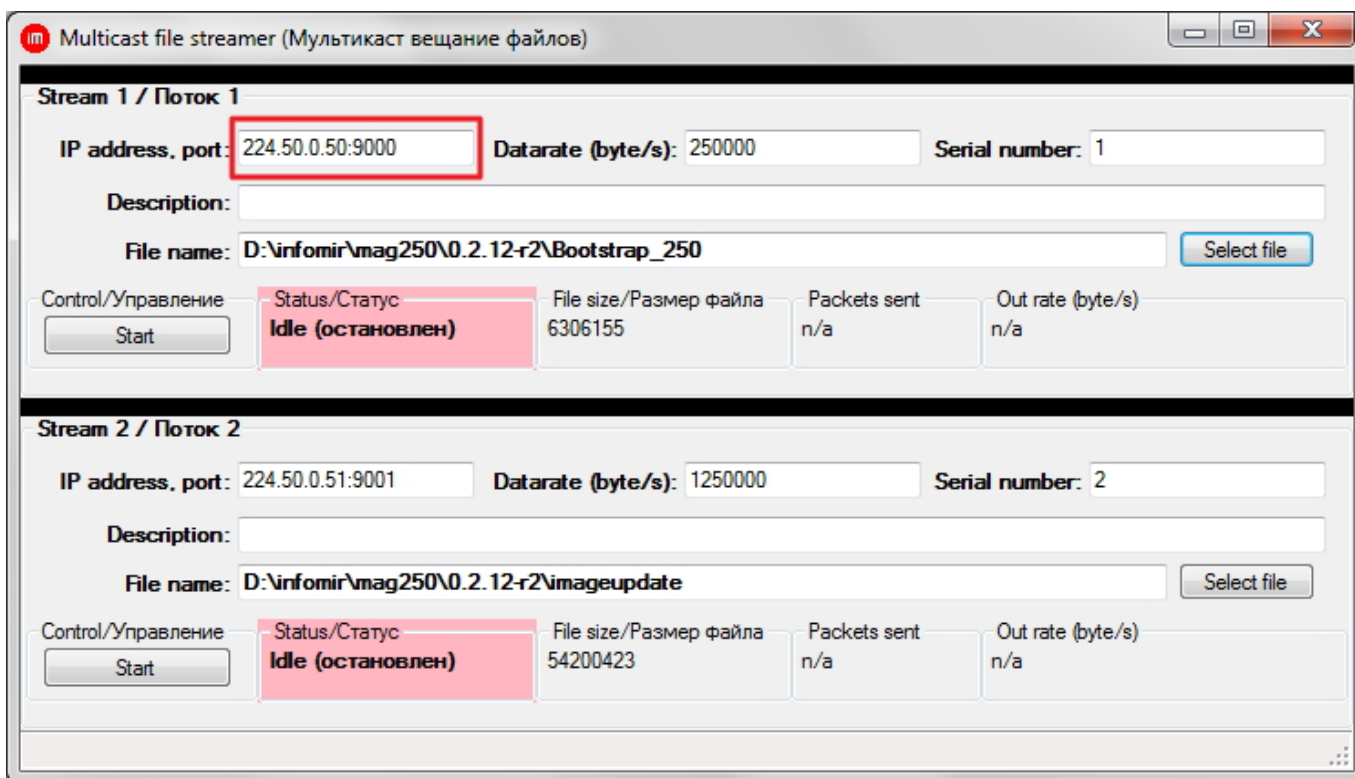
[Example of using MCAST utility](#)
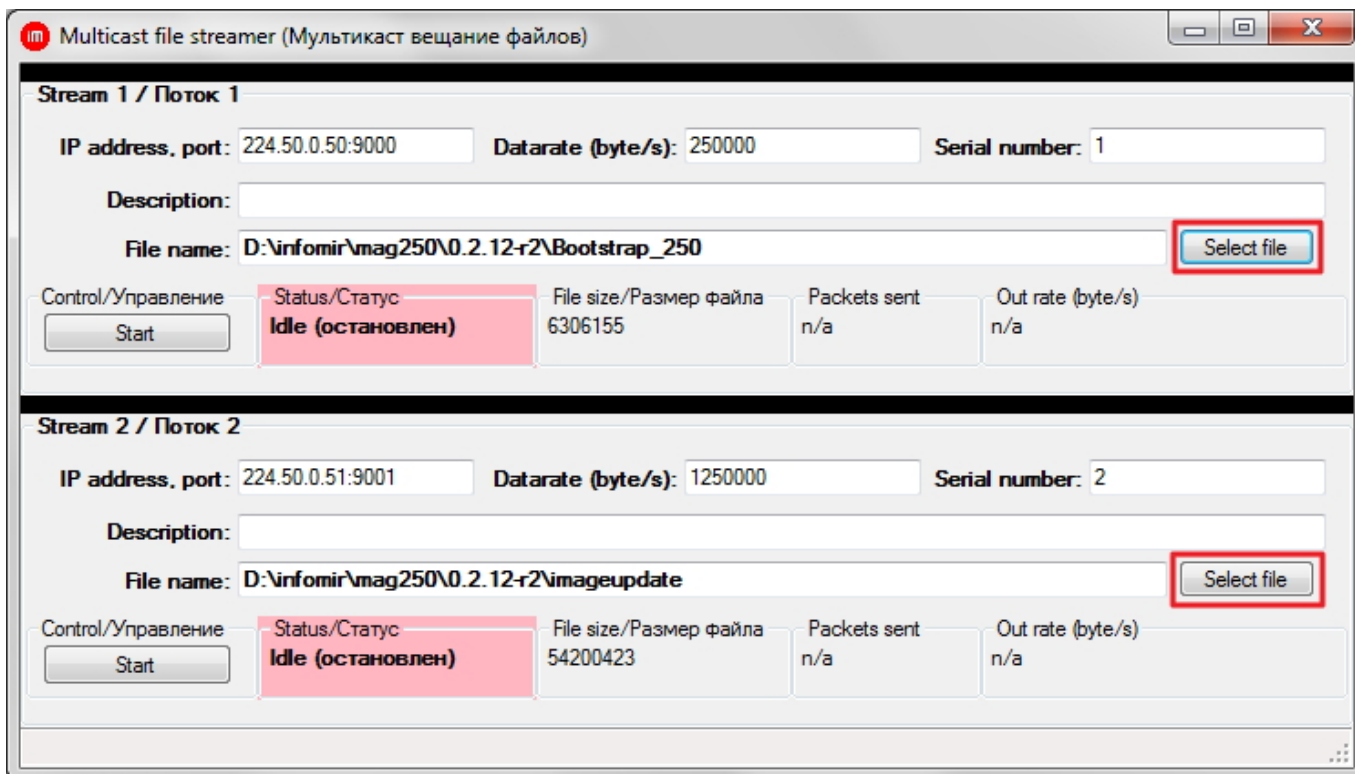
Example:

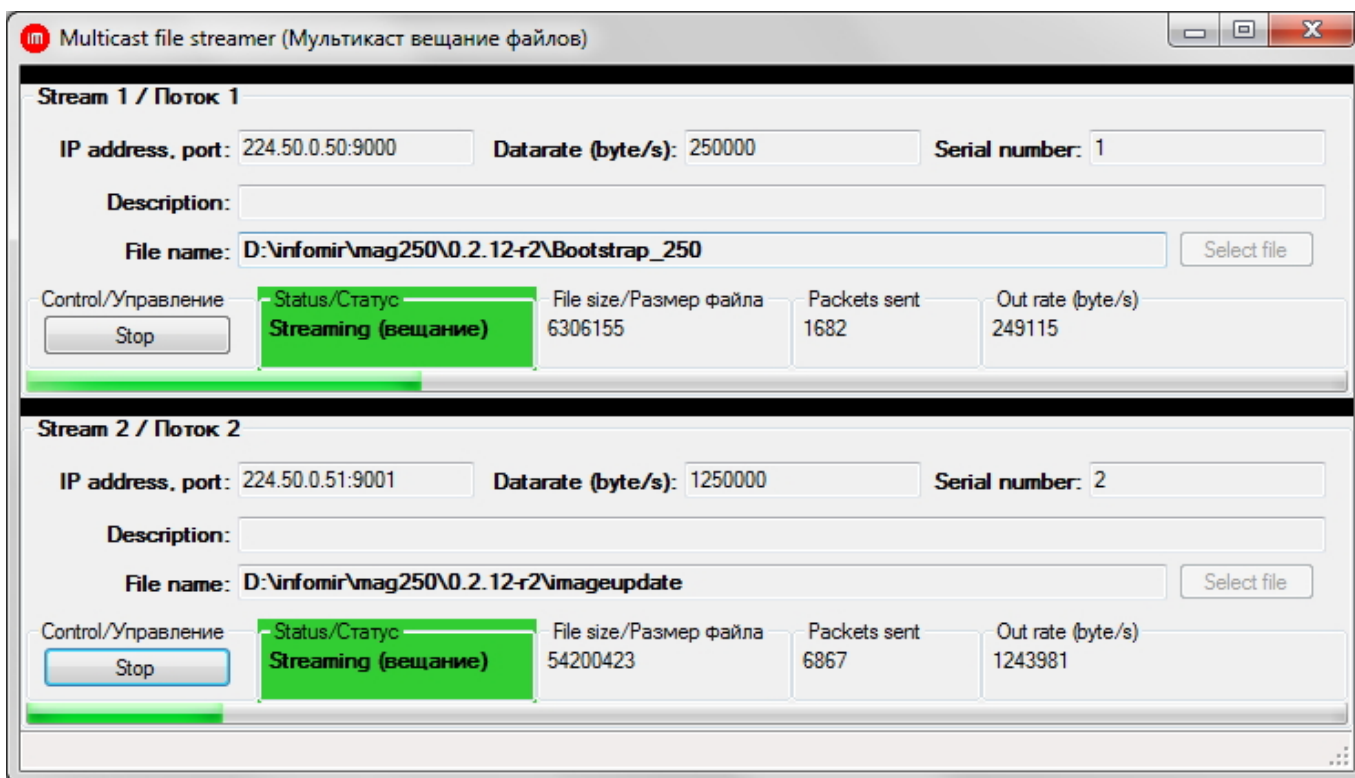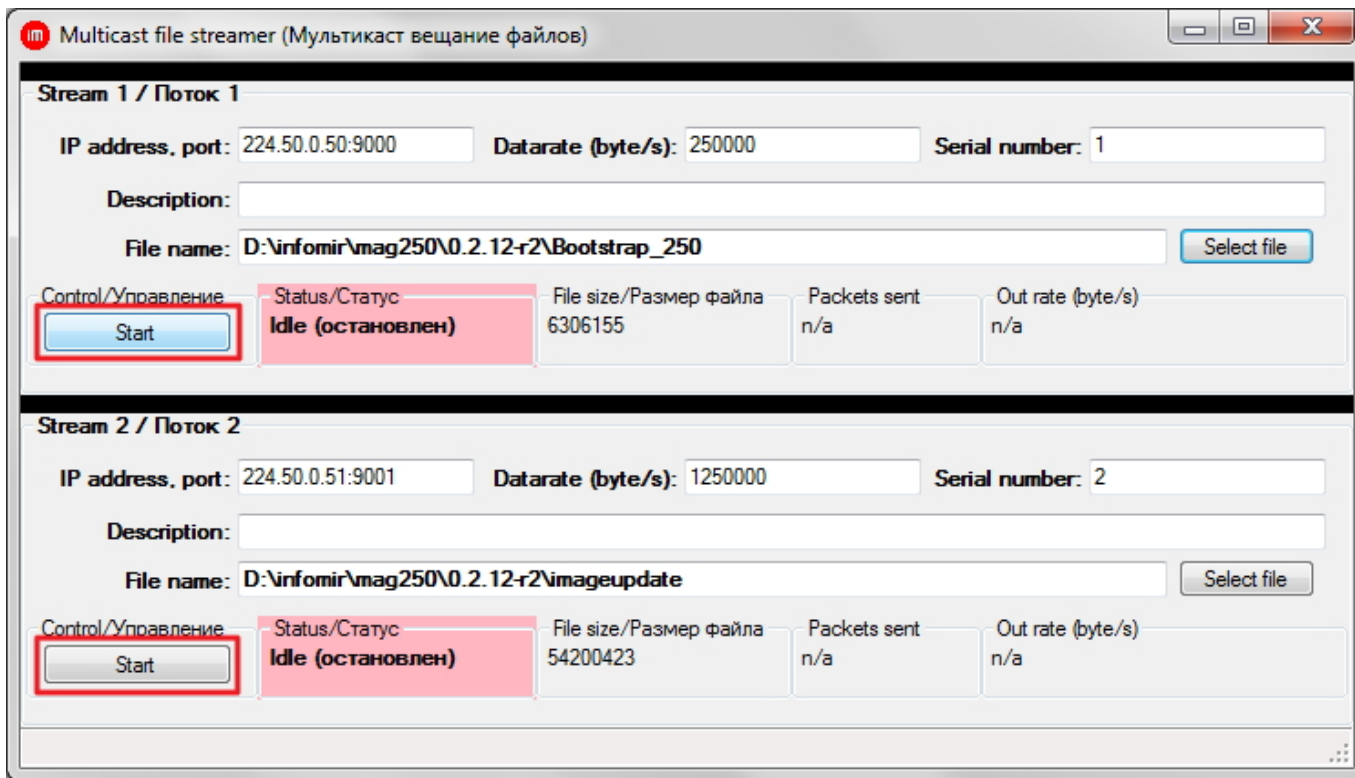Select the network interface (active network interface);

⚠ Attention! The Bootstrap address for various STB may differ from the current. The Bootstrap address displayed on the TV screen when the option "MC Upgrade" is enabled. Correct it if necessary.

Select the files to broadcast. Stream 1 - **Bootstrap**, Stream 2 - **Imageupdate**.

Run streams 1 and 2.

- Wait till updating. Updating process displayed at the TV screen. After updating is complite the STB will automatically rebooted.

[Video example of using MCAST utility](...)

[multicast_update_.mp4](...)

In the boot menu (BIOS)

- Start the application **MCAST**
- Run broadcasting
- Enter The BIOS menu
- Select **«Upgrade Tools»** and **«MC Upgrade»**. At the same STB switches to upgrade a second copy of the bootloader. On the TV screen will display the multicast address to which the console waits for the data and the progress bar move which informs you about multicast stream.
- If everything was configured properly after a while the procedure for updating the second copy of the bootloader successfully completed.

Possible problems:

- **the interface (a network card) is incorrectly chosen**;
  - It is necessary to approach more carefully to procedure of a choice of the interface through which will be the announcement is made. At difficulty in this question address for the help to network/system administrator.
- **there Is a barrier which blocks multicast the traffic from the personal computer (on which running MCAST) up to MAG200/250.**;
  - Check up local network adjustments of the personal computer from which process of an announcement is carried out. Network filters, anti-virus soft as well as another soft can influence transfer multicast traffic;
  - Connect your STB directly to PC (Exclude switches, routers, etc.);
  - If the personal computer and a STB are connected directly through UTP cable, check up correctness of connection and integrity of a cable;
  - If the personal computer and STB are connected through the external network equipment it is necessary to make sure, that the used network does not exist barrier on a way multicast and IGMP traffic;

[1)]
firmware versions signed by Public key
[2)]
Manufacturer firmware which is provided by manufacturer for update/autoupdate from manufacturer servers

From:
http://docs.infomir.com.ua/ -

Permanent link:
http://docs.infomir.com.ua/doku.php?id=en:stb_webkit:faq:update_firmware_mag200_250

Last update: **2019/05/17 11:23**