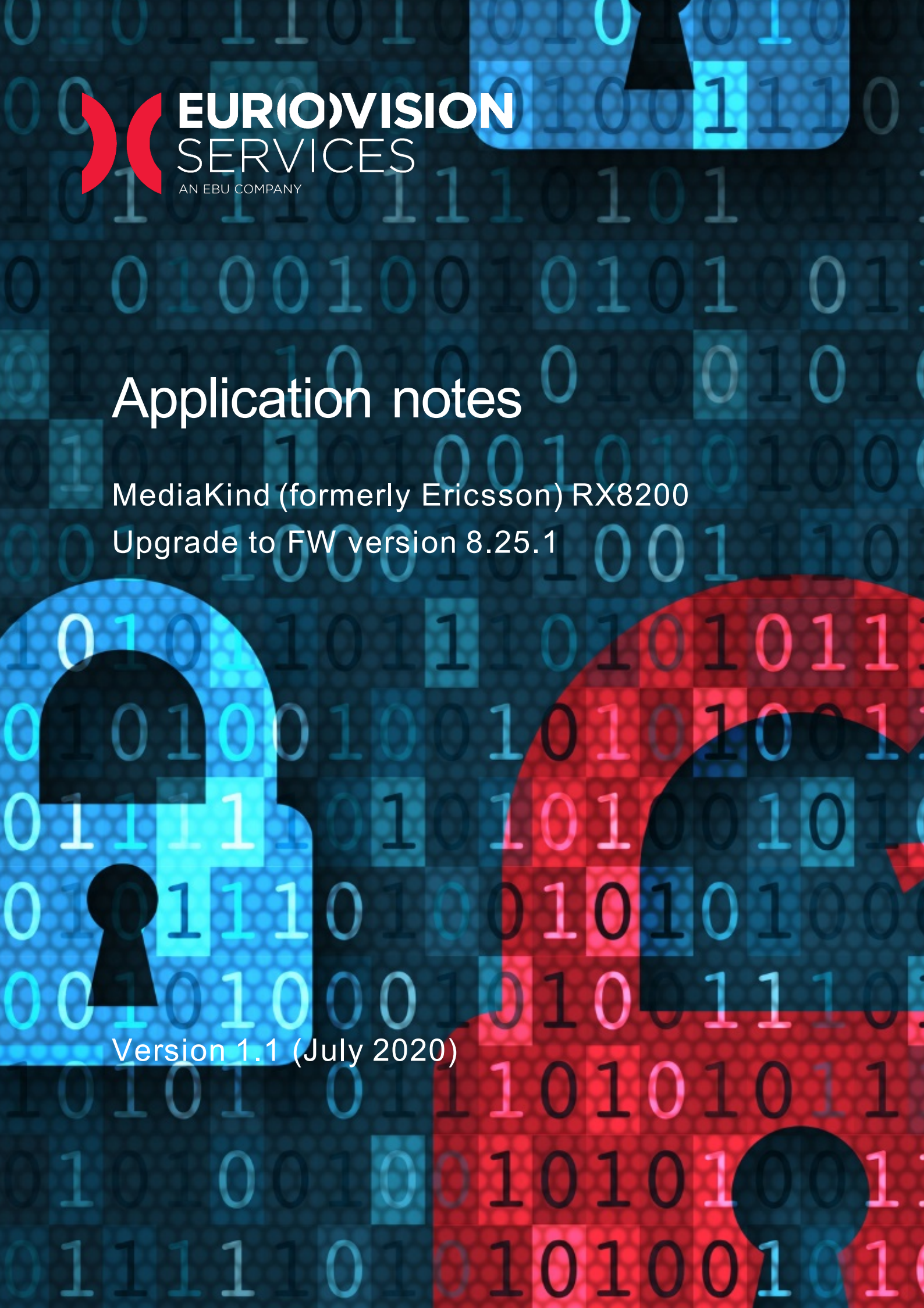

Application notes

MediaKind (formerly Ericsson) RX8200
Upgrade to FW version 8.25.1

Version 1.1 (July 2020)

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Document version

Version	Date	Comments / Changes
1.0	June 11, 2020	Initial version
1.1	July 10, 2020	Minor corrections Added clarifications on memory banks Added procedure for manual upgrade

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1 INTRODUCTION

This application note describes the installation process of firmware version 8.25.1 for the MediaKind (formerly Ericsson) RX8200 decoder.

2 PREPARATION

- Download the upgrade files:

  https://www.eurovision.net/insights/technical/biss-ca-migration-files-download

- Ensure that management IP address is set manually and DHCP is disabled.
- Connect the PC to the decoder's RX8200 10/100BaseT management port. Ensure they are on the same IP subnet and have connectivity.

3 UPGRADE PROCEDURE

Note: All steps must be followed exactly for proper unit operation.

3.1 Overview

- Save any configuration in the unit before initiating upgrade process.
- Do not make any changes to configuration during upgrade process.
- Ensure that the unit is not in use before commencing the upgrade. Upgrading the device will interrupt its normal operation.
- Install software with Upgrade Utility as shown in section 3.2.
- Refresh your web page to reconnect the unit. In order to confirm that the SW version was upgraded, check in the unit menu *Device Info> Build> SW version*.

3.2 Install software with Upgrade Utility

3.2.1 Compatibility

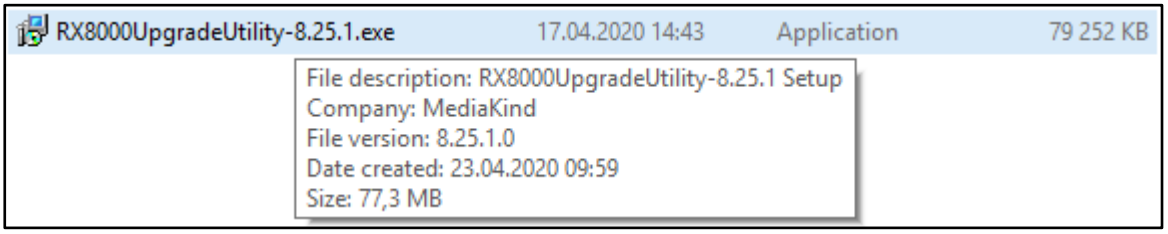
The Upgrade Utility will upgrade units running software version 5.12 or later releases only. For older SW versions, please follow the manual upgrade method (see section 4).

3.2.2 Installation

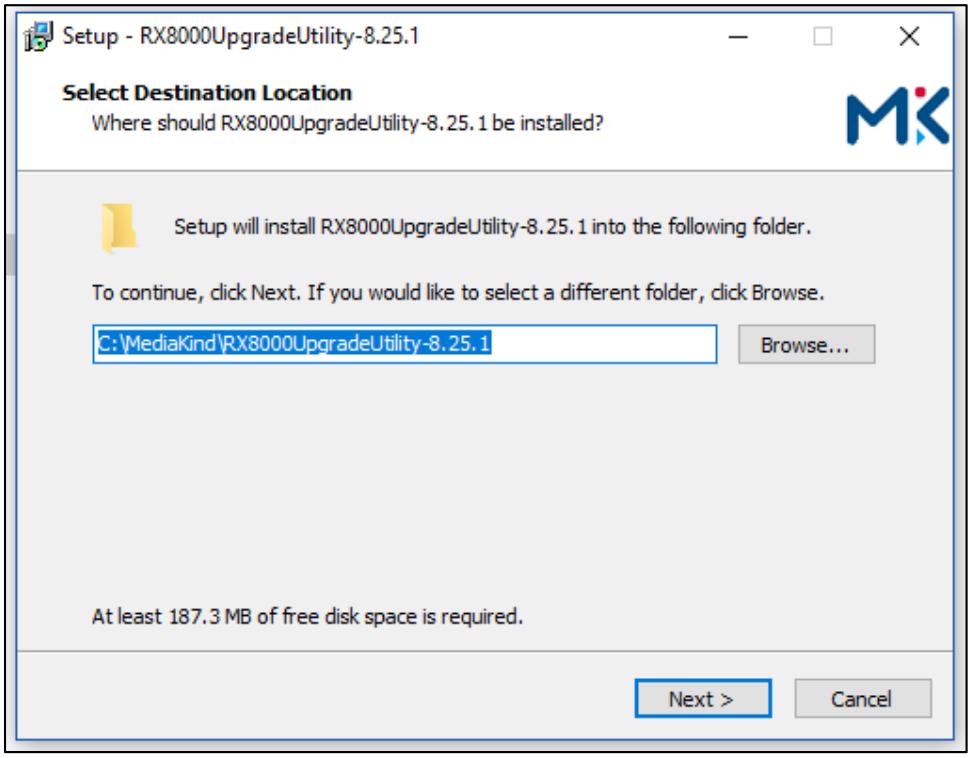
The RX8000 unit Upgrade Utility is distributed as an .EXE file that will install the correct Java environment on a Windows PC. It is not supported on any MacOS or on any virtual machine running on MacOS.

Please follow these steps to install Upgrade Utility:

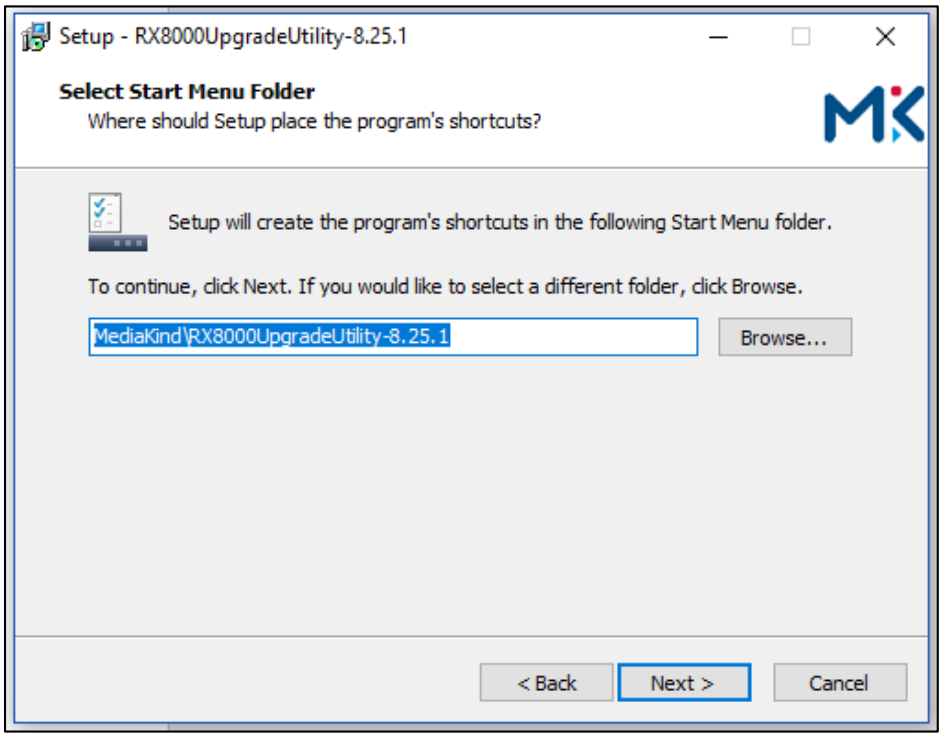
- Double click the RX8000 unit upgrade utility EXE file to run the installer (e.g. the file called *RX8000UpgradeUtility-8.25.1*.exe for version 8.25.1 distribution)



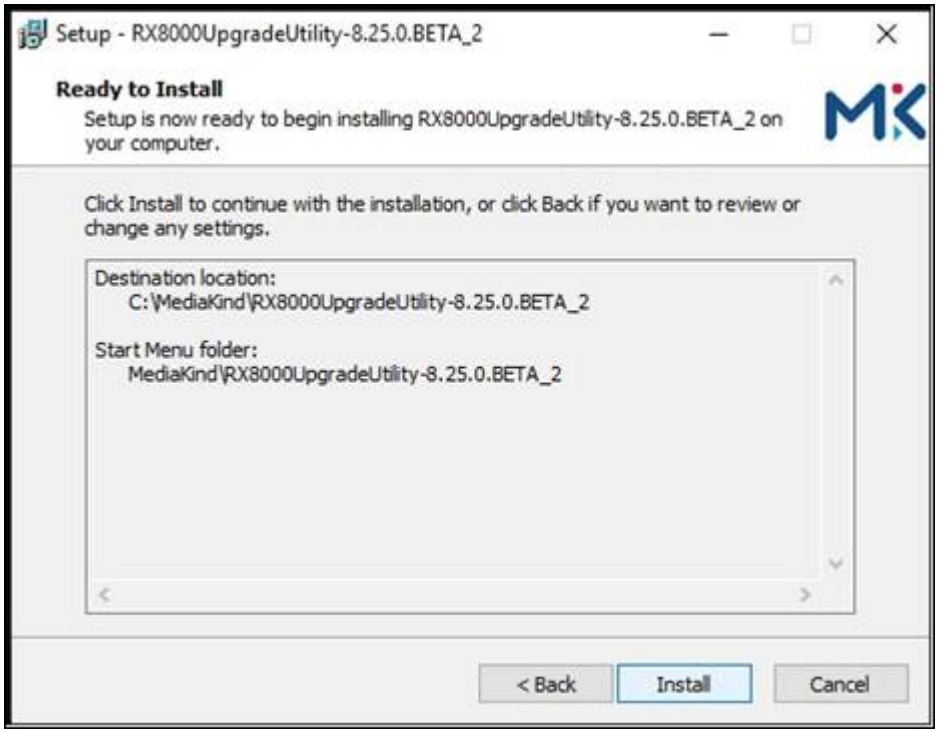
- Set up the target installation folder then click **Next**.

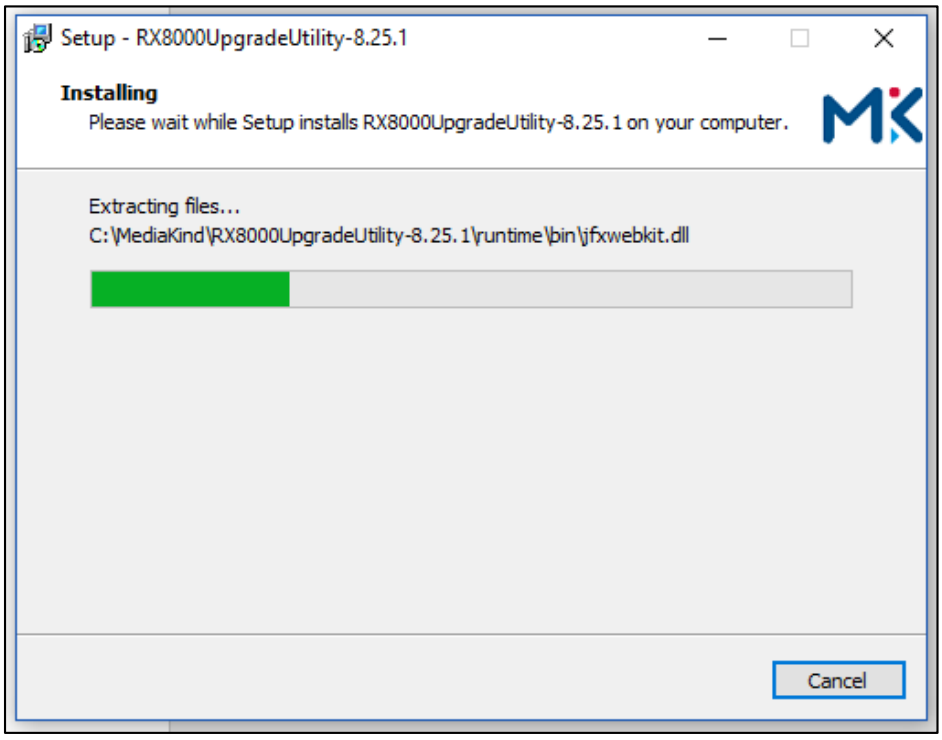


- Set up the shortcut path for the start menu folder then click **Next**.

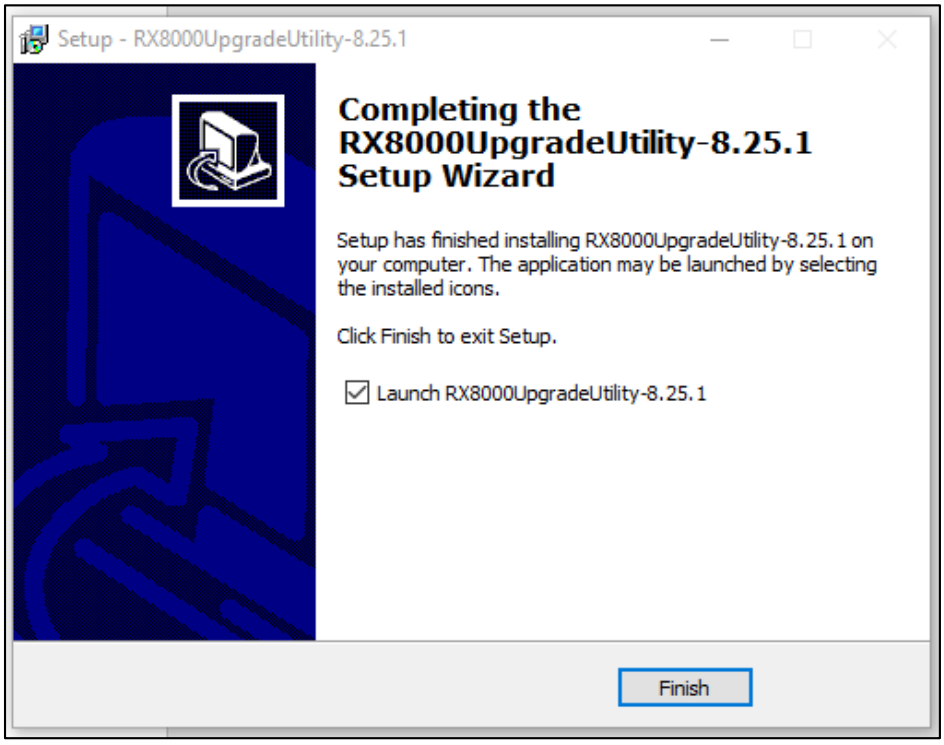


- When you are ready to proceed with the installation, click **Install**.



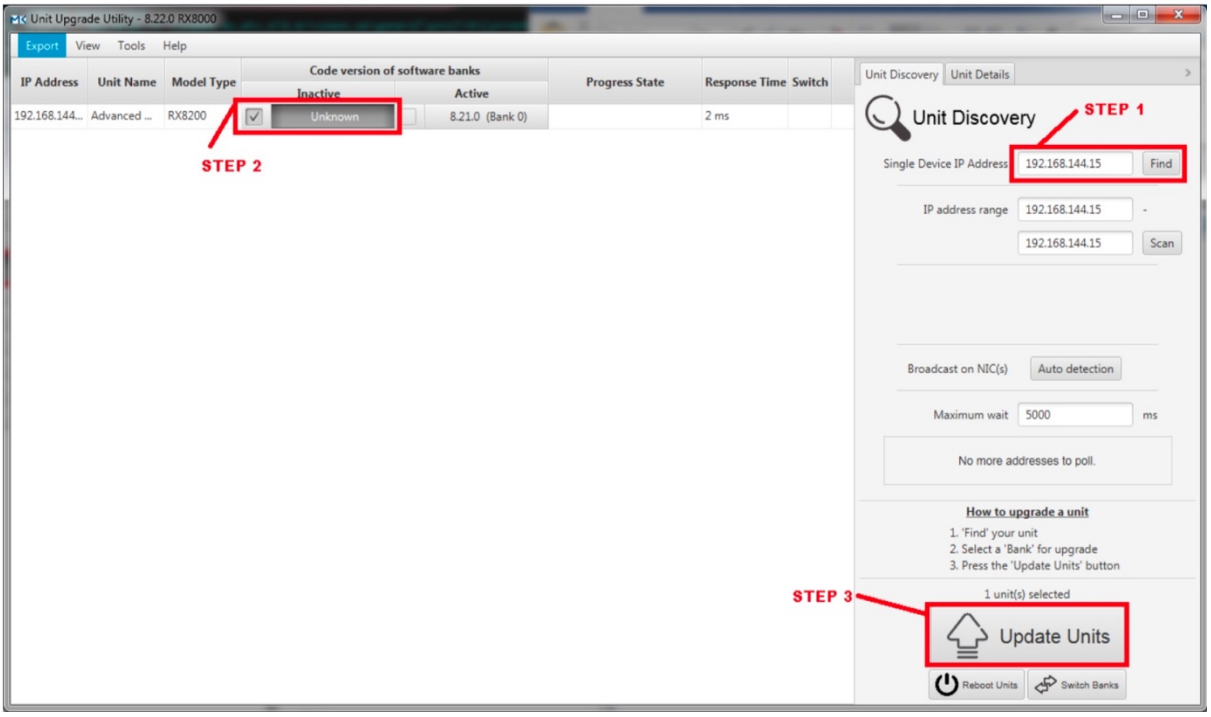


- Click **Finish** when the installation is finished.



To launch the upgrade utility, navigate to the **RX8000UpgradeUtility-8.25.**1 program from the Windows Start menu e.g. *Start>All Programs>Ericsson* or the shortcut path specified in the step above

3.2.3 Quick user guide



3.2.3.1 STEP 1 - Find Device on Network

Go to the ***Unit Discovery*** tab and enter the IP address of the device in the ***Single Device IP address*** field then click the **Find** button.

The device should appear in the left pane with expected ***Model Type.***

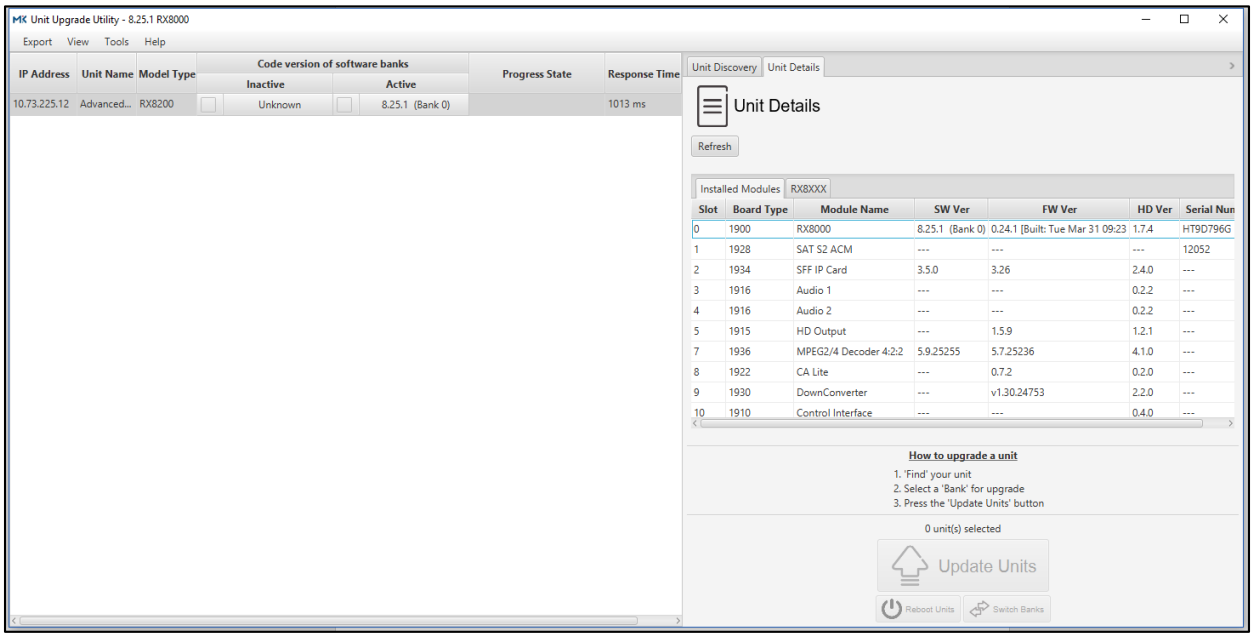
Alternatively, a range of IP addresses can be scanned. In this case, all devices discovered on the network are listed on the left side on the left pane of the unit upgrade utility.

3.2.3.2 STEP 2 - Select Bank for upgrade

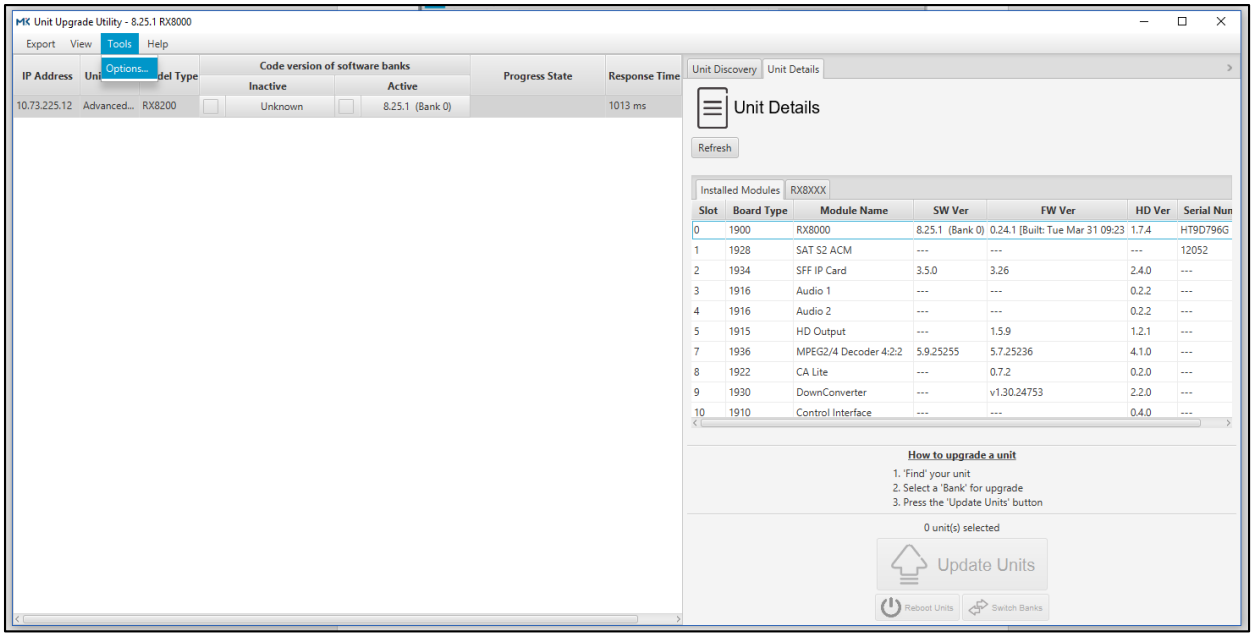
The RX8200 decoder features two memory banks, bank 0 and bank 1. One bank is active while the other is inactive. By default, only the inactive bank can be upgraded unless the Upgrade Utility Tool *advanced mode* is selected by the user (this is explained on the next page).

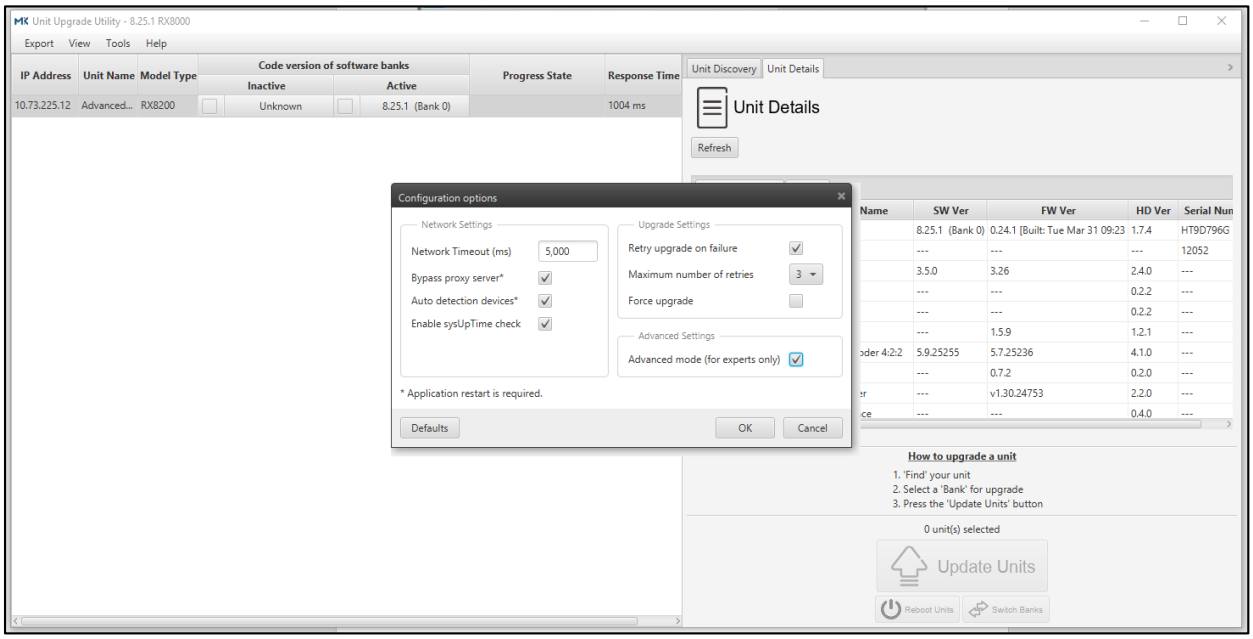
We recommend you upgrade the inactive bank only so in case of issues it is possible to roll back to the previous active firmware version. Once the firmware upgrade is completed, the RX8200 decoder will reboot and the inactive bank will become active. In case of issues, memory banks can be swapped by pressing the front "edit" and "save" buttons together for 5 seconds and pressing "save" again to confirm.

The selection of the memory bank is carried out as follows:

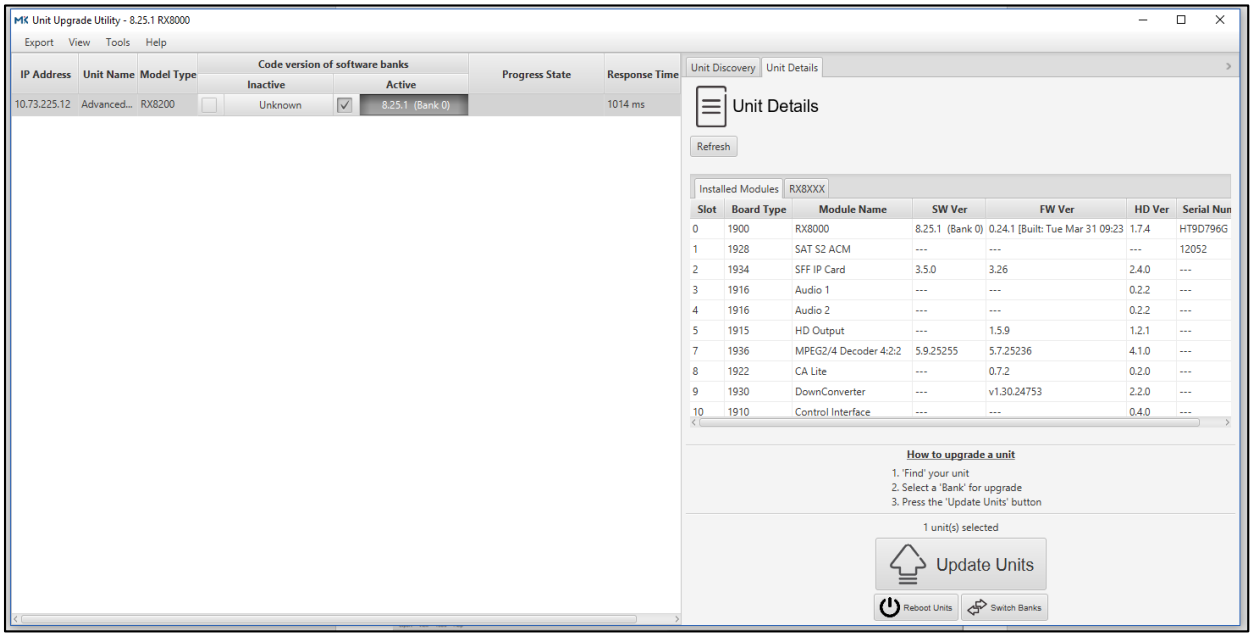


By default, only the Inactive software bank can be selected. To expose the active bank for upgrade, see *Advanced Mode* in the *Configuration Options* under the tab *Tools* > *Options*

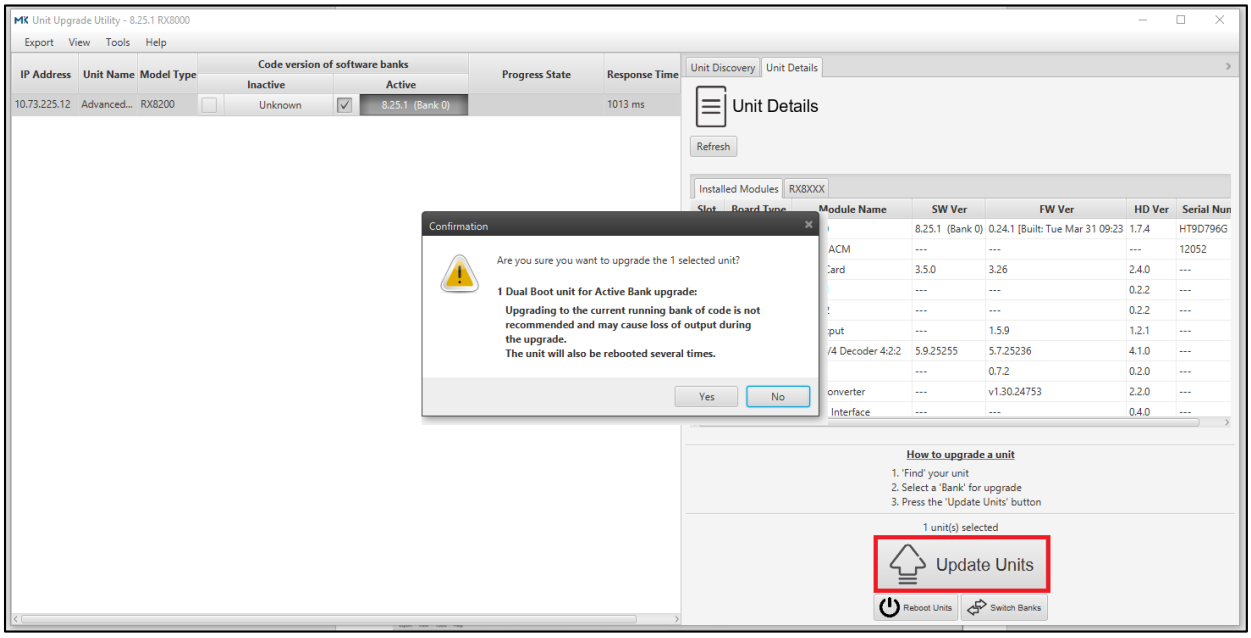




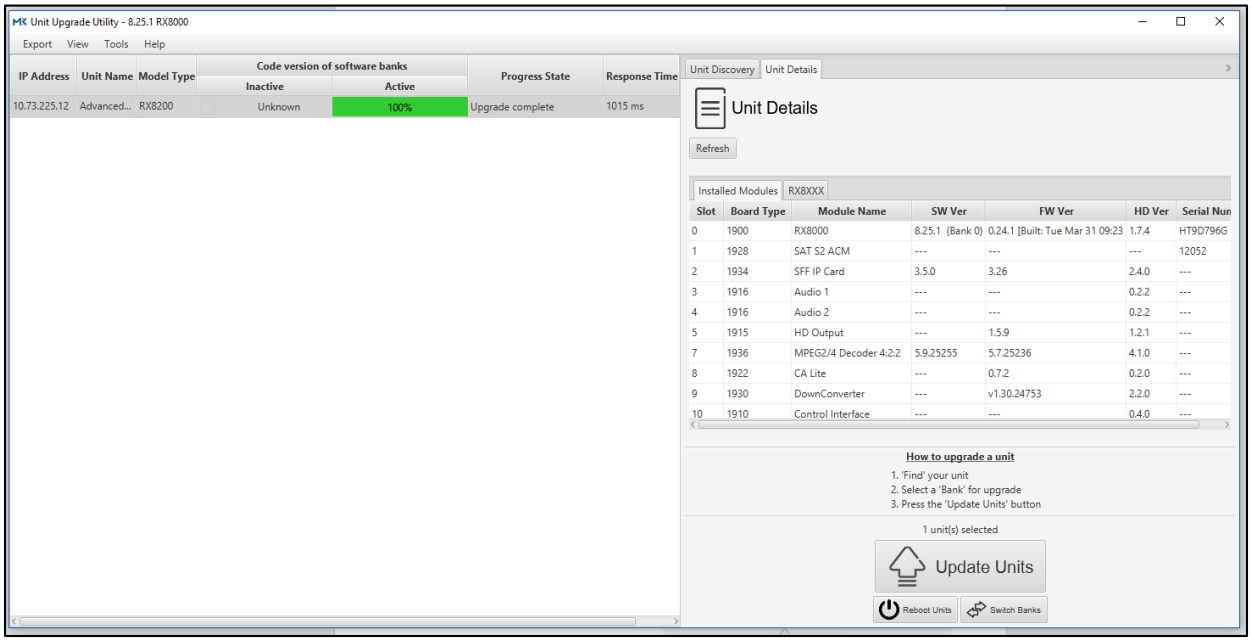
Tick the ***Inactive*** or ***Active*** software bank column for the device to be upgraded (we recommend you tick only the inactive bank). The selected software bank will become the active software bank after the upgrade is complete and the device has rebooted.



3.2.3.3 STEP 3 - Upgrade Units



Click the ***Update Units*** button at the bottom right-hand side of the upgrade utility. When a device is selected for upgrade, the wizard determines what cards are installed on the device and upgrades all cards to the versions contained in the distribution package.



Note: The upgrade utility does not allow the user to pick and choose which modules to upgrade. All fitted modules will be upgraded.

Once the new software version is confirmed, it is safe to reboot the RX8200 if desired.

4 MANUAL UPGRADE

As explained in section 3, the upgrade utility tool can only be used by RX8200 units running firmware version 5.12 or more recent. Decoders on previous firmware versions must be manually upgraded to an intermediate version (in this case version 7.1.5). This is explained next:

4.1 Requisites for manual upgrade

To manually upgrade the RX8200, a computer with Internet access is required in order to download the necessary files.

The network should also have the TCP ports 7, 21, 80, 1024, 1025, TCP high ports and UDP 161. Alternatively, a computer connected to the same VLAN as the decoder to be upgraded, or a direct connection to the Control 2 interface of the RX8200 via a crossover Ethernet cable.

4.2 Download upgrade files from FTP

Download folder *RX8200_ver_7-1-5* from the following FTP server:

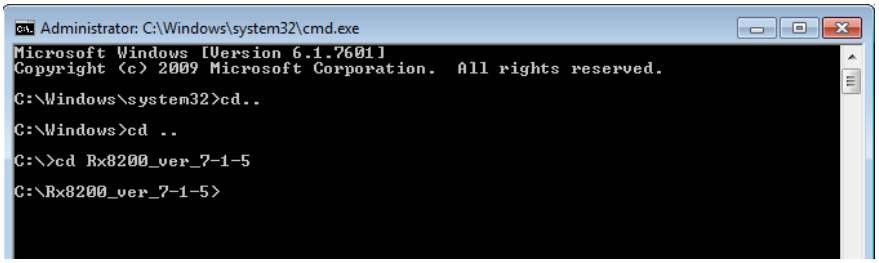
ftp://filexchange.ebu.ch	
User	ets
Password	vm37t5kp

4.3 Upgrade RX8200 to v7.1.5 (bank 0)

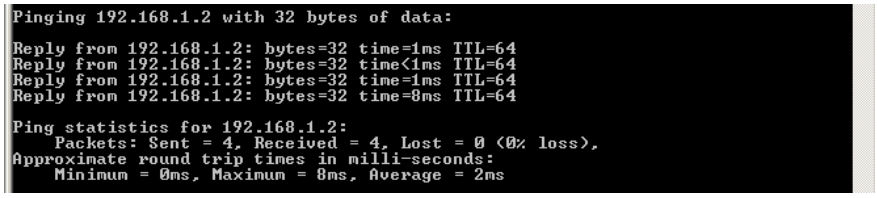
Before starting the upgrade, it is advisable to reboot the decoder.

Open a Command Prompt (Start>run >cmd or Start>all programs> Accessories> Command Prompt).

Go to the folder where *RX8200_ver_7-1-5* was downloaded to.

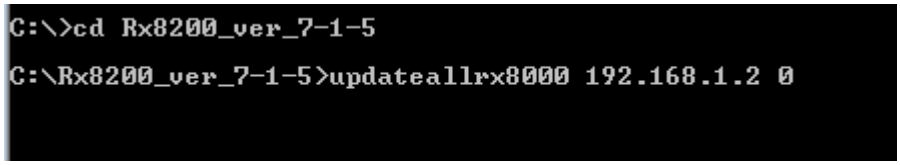


Ping the device IP address.



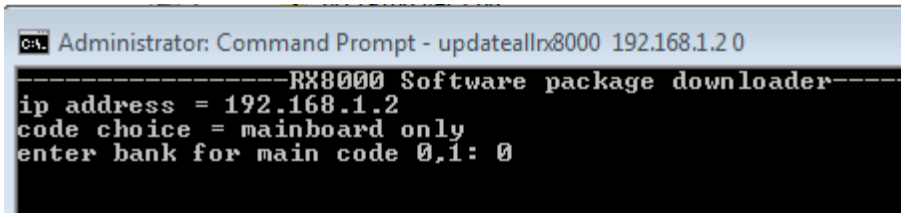
Now you can type the command:

`updateallrx8000 192.168.1.2 0` (where 192.168.1.2 is the RX8200's IP address)



And **press Enter**

Choose 0 to install it on Bank 0 for this first upgrade



Press Enter

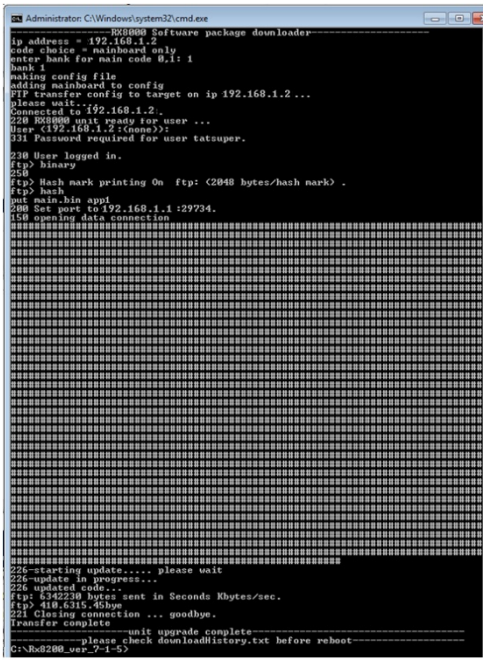
This will take about 3 minutes.

At the end you should see the message:

ftp: 6342230 bytes sent in Seconds Kbytes/sec.

If you do not see this message **DO NOT REBOOT**:

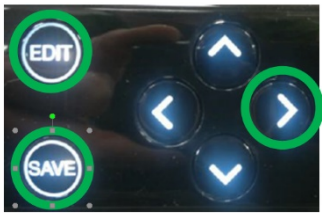
Go back to step 2



When it's finished, you will see the message

`ftp: 6342230 bytes sent in X Seconds X Kbytes/sec.`

The RX8200 has two firmware image banks. The next step is to reboot using the secondary and upgrade the main. To do this on the front panel press the "edit" and "save" buttons together for 5 seconds. It will then ask if you want to reboot.



Press the "save" button to confirm.

4.4 Upgrade RX8200 to v7.1.5 (bank 1)

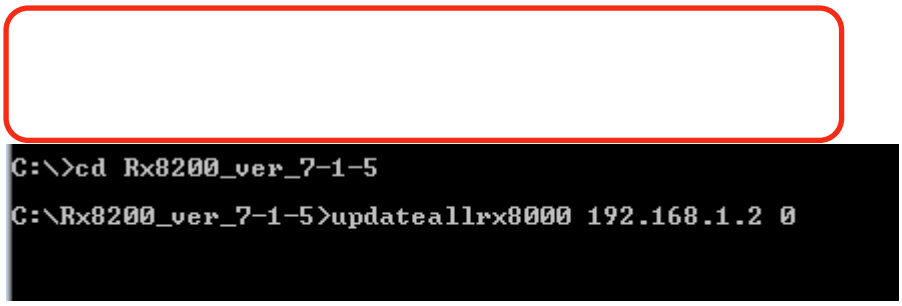
While the RX8200 is rebooting press the right arrow key to switch to the other bank.

Now repeat the same procedure for Bank 1:

Type the command:

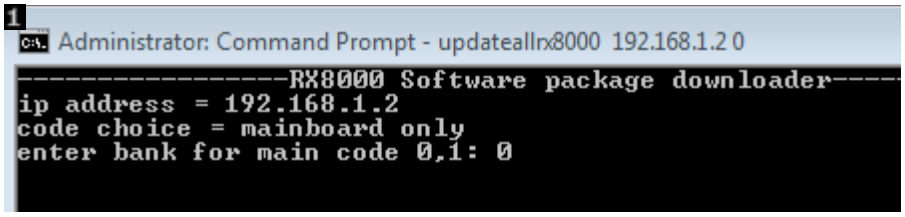
```
updateallrx8000 192.168.1.2 0
```

(where 192.168.1.2 is your RX8200 IP address)



And **press Enter**

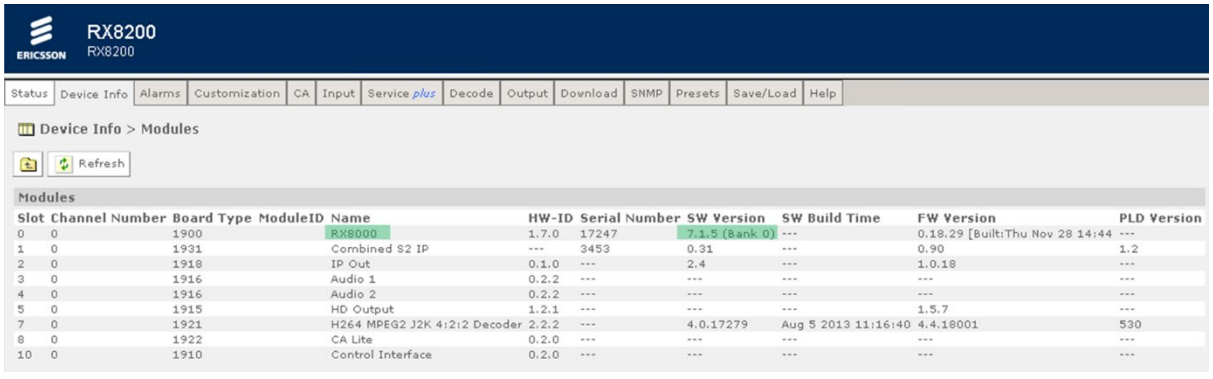
Choose 1 to install it on Bank 1



Press **Enter**

This will launch the upgrade, which will take around 3 minutes: you should get the same message at the end.

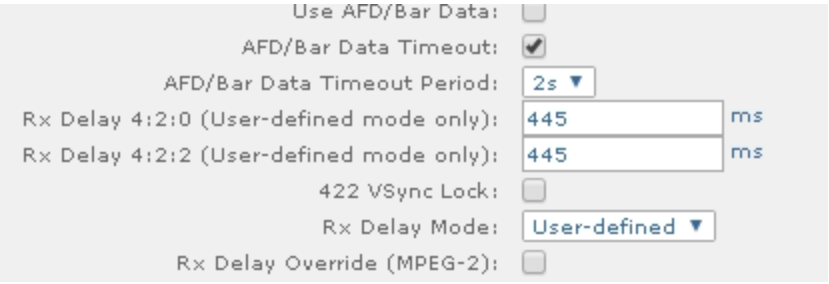
Once it is finished, please **reboot** the RX8200. Under Device Info > Modules, the device should show SW version 7.1.5.



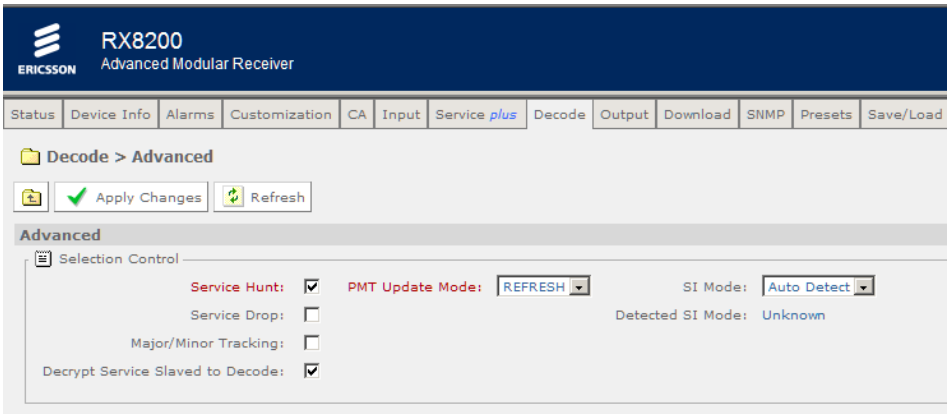
4.5 Normalize settings on the RX8200

If your RX8200 unit was provided by or purchased from EBU/Eurovision, please change the following parameters in the RX8200 webpage to match the EBU recommended settings.

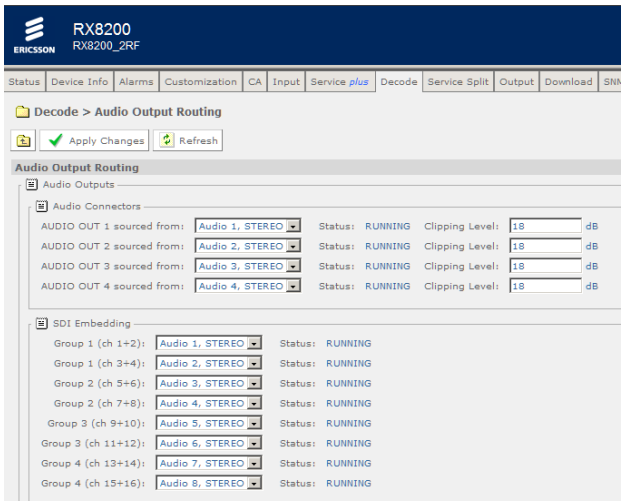
Under **Decode** > **Advanced**, please check the "**Rx delay mode**", and set it to the values shown below:



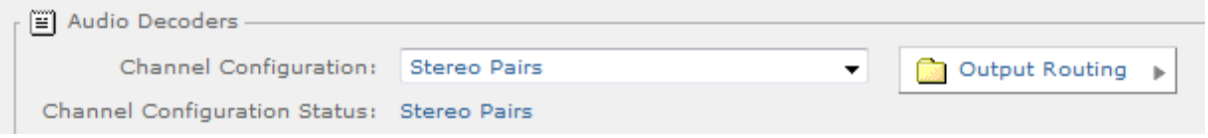
Also check the **PMT update mode** is set to "**Refresh**".



Under **Decode > Audio Output Routing**, please check that all the audio pairs are correctly embedded in the SDI signal and that "clipping level" for all channels is set to **18dB**:

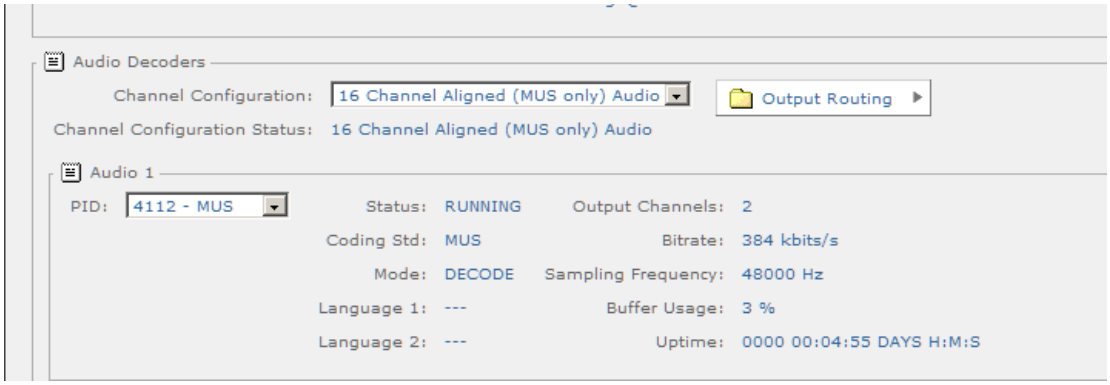


Under "**Decode**" you will likely need to set "**Channel Configuration**" into **Stereo Pairs**:

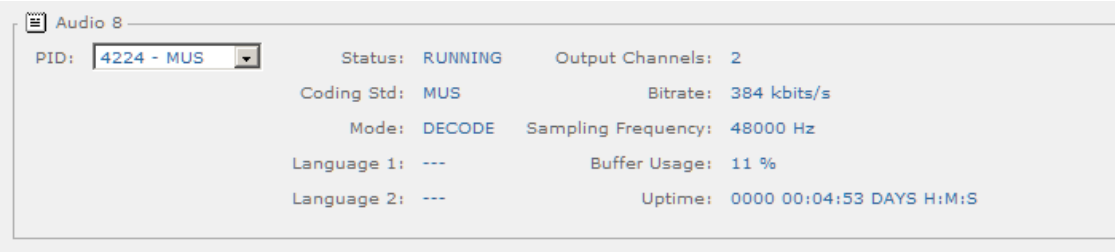


This mode must be selected if you need to receive Dolby-E.

In order to have 16 phased aligned audio channels, select the option: "**16 Channel Aligned (MUS only) Audio**":



…



4.6 Upgrade RX8200 to v8.25.1

Now that the unit is on version 7.1.5, the unit can be upgraded to 8.25.1 following the procedure described in section 3 of this document.